

**KEY
and
ABBREVIATIONS**
NON-RETURN

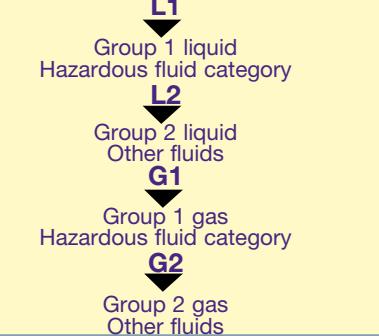
1	WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY
2	with PN10 flanges
3	PRESSURE PFA/P in bar
4	CASING : GUL, cast iron, epoxy coated
5	2 undrilled bosses
6	SEAL : EPDM
7	SPRING : stainless steel
8	CLOSING SYSTEM : DN 40 brass, DN 50 and 65 bronze, other DN : cast iron with bronze stem
9	GUIDING : DN 50 bronze, other DN : cast iron with bronze ring
10	APPROVALS : WRAS CE
11	with PN10 flanges
12	PS : Maximum allowable pressure (L1/L2 G1/G2) (in bar) in accordance with directive 97/23/CE
13	Category (PED)
14	Technical features

- ① Applications
- ② Maximum service temperature
- ③ Connection type
- ④ Approvals
- ⑤ PFA : Allowable operating pressure (in bar) for supply, distribution and disposal of water
- ⑥ PS : Maximum allowable pressure (L1/L2 G1/G2) (in bar) in accordance with directive 97/23/CE
- ⑦ Category (PED)
- ⑧ Technical features

SHUT OFF

1	DUCTILE IRON POLYAMIDE COATED	2	EPDM	3	NITRILE	4	BODY DUCTILE IRON GGG40
							PFA 10 bar (water) / PS (p.s.)
							Flange rating PN 10/16/20 - ASA 150
50	1490 039 369	50	1490 039 278	2.6	100,23		
65	1490 039 274	65	1490 039 279	3,0	106,42		
80	1490 039 280	80	1490 039 281	3,4	113,59		
100	1490 039 275	100	1490 039 280	6,2	146,26		
125	1490 039 277	125	1490 039 281	9,7	176,79		
150	1490 039 277	150	1490 039 282	7,5	197,96		

- ① Materials for butterfly
- ② Material(s) used for the liner
- ③ Nature of the valve casing
- ④ Applications
- ⑤ PFA : Allowable operating pressure (in bar) for supply, distribution and disposal of water
- ⑥ PS : Maximum allowable pressure (L1/L2 G1/G2) (in bar) in accordance with directive 97/23/CE

PED
Pressure equipment directive 97/23/CE


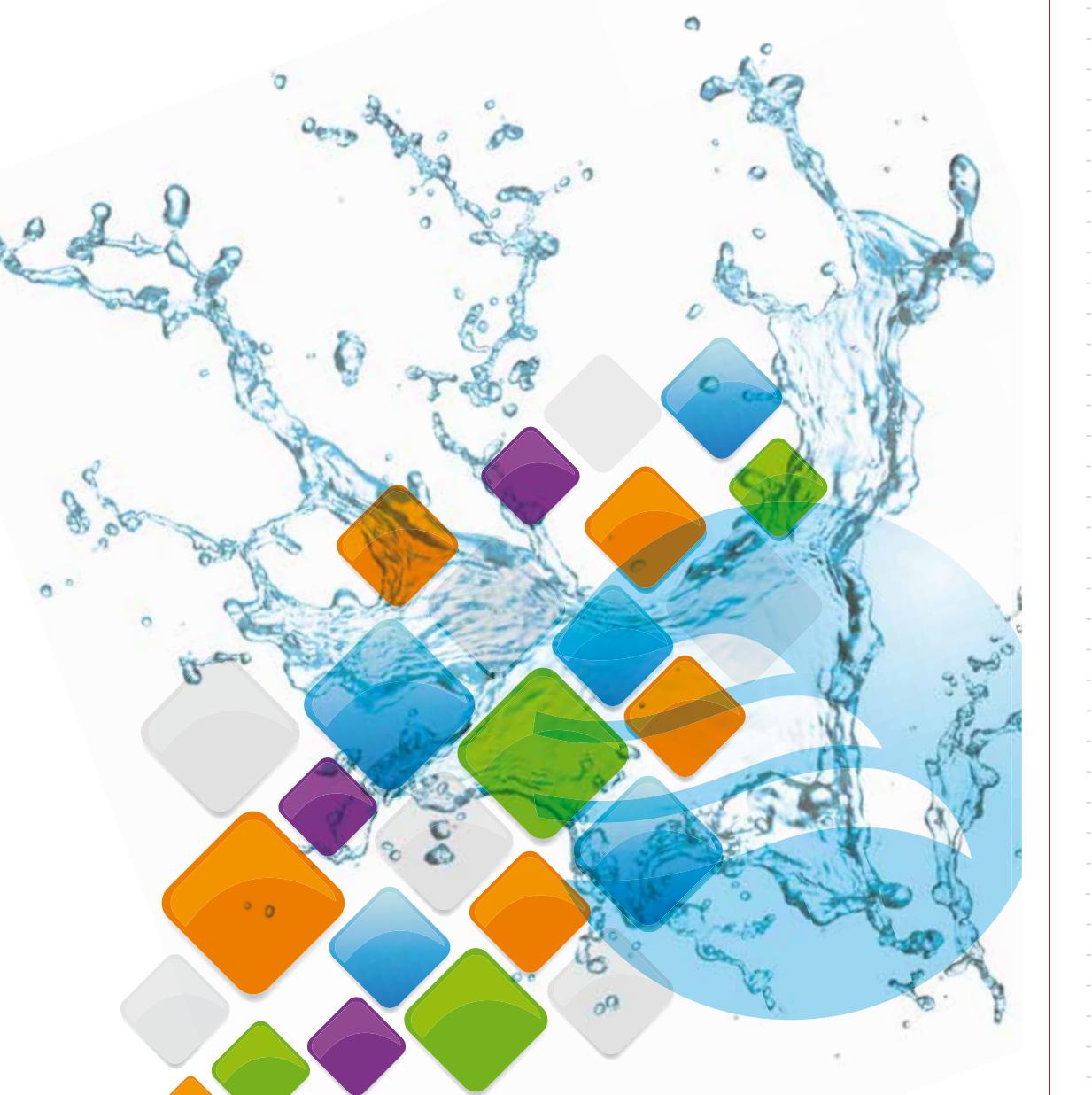
PS :
maximum allowable pressure (bars)
in accordance with directive 97/23/CE
PFA :
Allowable operating pressure (bars)
for supply, distribution
and disposal of water.

NOTES

SOCLA
**CATALOGUE
PRICE LIST**
2015

Public prices in Euro

catalogue price list 2015


**Socla
Sylax
Desbordes**


- Protection
- Non-Return
- Regulation
- Shut Off

Socla SAS
365, rue du Lieutenant PUTIER - 71530 VIREY-LE-GRAND
CS 10273 - 71107 Chalon S/Saône Cedex
Tel. +33 3 85 97 42 42 - Fax : +33 3 85 97 97 42
e-mail: contact@socla.com
http://www.socla.com

Working hours
Monday to Thursday 8 a.m. to 5.30 p.m.
Friday 8 a.m. to 1.30 p.m.

A division of Watts Water Technologies EMEA

Socla | Desbordes | Sylax

Ref. 26 98 823 / 2015

Socla | Desbordes | Sylax

KEY and ABBREVIATIONS

REGULATION

Different valve functions possible



UPSTREAM PILOT



DOWNTREAM PILOT



DIFFERENTIAL
PRESSURE VALVE



PUMP



TANK



FULLY OPENED
OR CLOSED



WIDE OPEN OPTION



DRAIN OFF
OVERPRESSURES



CHECK VALVES
FEATURE



ELECTRICALLY
OPERATED



FLOW REGULATING



LOCKING SYSTEM

How to read and calculate headloss

As set out in the Standard NF EN 1267 Dec. 1984

“Coefficient of flow rate and of loss of mass of mechanical energy by water control Devices”

FLOW COEFFICIENT KV

Expresses the number of m³/h of water flowing through a given restriction creating a headloss of 1 bar.

$$Kv = \frac{qv}{\Delta p}$$

- qv expressed in m³/h
- Δp expressed in bar
- d = density of fluid compared with water

COEFFICIENT OF MECHANICAL ENERGY MASS LOST ζ (or k)

Also referred to as “headloss coefficient”.

$$\zeta = \frac{\Delta p}{p^2}$$

- u = average axial speed (m/s)
- p = volumic mass
- Δp expressed in bar

SUMMARY

PRODUCT CLASSIFICATION BY APPLICATION

PROTECTION

- Backflow preventers and accessories : pages 6 to 9
- Vacuum breakers : page 10
- Antipollution non-return valves : pages 11 to 16
- Pressure Reducing Valves : pages 18 to 19
- Water Meters : pages 20 to 21

NON-RETURN

- Non-return valves : } pages 22 to 51
- Foot valves : }
- Filters and Strainers : page 52 to 53

REGULATION

- Control valves : pages 54 to 61
- Pressure reducers : pages 62 to 63
- Pressure reducers and accessories : pages 64 to 69
- Pump control : page 70
- Solenoid valves : page 71
- Air valves : pages 72 to 73

CLASSIFICATION PRODUCTS BY TYPES

Types	Pages	Types	Pages	Types	Pages	Types	Pages	Types	Pages	
5 SP	18	67	212 G	69	417	43	5499EF	20	SET OF PROTECTION	8
7 BIS	19	67	212 S	29	418	38	6254	19	SHOWER POSITION	19
7 EP	19	67	213 BIS	69	418D	39	AB800	62	SPARE PARTS	9
7 SP	19	67	216 (HA)	10	419F	39	AIRVENT	74	SPARE PARTS PRV	65
9	67	221B (EA)	12	419V	39	AKB2	71	SUCTION HOSE	74	
9 BIS	67	223 (EA)	13	422	28	BABM	7	SURPRISE 2	70	
10	65	223D (EA)	13	427	42	BABM CD	8	SV1921	63	
10 RC	65	231 (EB)	15	424	47B	43	BOBINE	71	SYLAX	86 to 102
10 BIS	65	231 (EA)	15	424	47TR	43	C101	58	SYLAX FM/CNIPP	103
10 BIS RC	65	233X	32	453(EA)	13	32	C101C	58	SYLAX GAS	104
10 BIS RZ	65	241 (EB)	14	24	453/453(EC)	17	C102	58	TANK CAP	74
10 TIER	65	251(EA)	11	462	27	C104	58	TILIS	107 to 108	
10 TIER RC	65	251B1 (EA)	11	485	69	C104C	58	V2500	79	
11	18	66	251C1 (EA)	11	487	65	C108	58	V3000	79
11 BIS	18	66	251D1 (EA)	11	498C	20	C201	59	V3000B	78
11 BIS RC	18	66	251P1 (EA)	11	498BA	20	C221	59	V3000MF	78
11 BIS RCBP	65	251P1 (EA)	11	499RA	20	C301	58	V665	79	
11 EP	18	66	251S(EA)	11	499DF B	21	C310C	58	V665PAP	79
11 DO	18	66	251SPPEA	11	499DF C	21	C306	58	VE120	73
11 RC	18	66	251SPUEA	11	499IMP	21	VE320	58	VE320	72
11 BIS SR	68	253(EA)	12	508	38	C401	60	WE330	73	
14 BIS HP	62	261(EB)	14	509F	39	C410C	60	WB10	71	
14 BIS BP	62	271(A)	12	501	24	C501	60	WK92	71	
14 BIS HPT	62	274 BIS	69	501P	24	C501	60	WKE2	71	
21	68	281(EA)	15	61V	24	C701	59	WZ82	71	
21 BIS D	68	281CEB	15	627E	35	C702	59	XYLIA	105 to 106	
21 BIS E	68	281P	25	627V	35	C707	59	X1666	81	
21 BIS EB	68	291	47	635E	35	C717	59	X2777	81	
21 BIS FLEX	68	290D	47	635V	35	C727	59	X2900	81	
30	40	290P	47	636V	35	C737	59	X2900F	81	
46	53	290X	47	777	19	C801/C802	60	X3444	80	
46G	53	291N(EA)	12	802	50	C901	60	X344AB	80	
46K	53	297	47	802L	51	C902	60	X344S	80	
46KX	53	297	47	802T	51	C903	60	X3777	80	
50F	50	302D	30	802Z	51	C904	60	X377TB	80	
60S	49	302P	30	805	34	C906	60	X377TS	80	
101	53	302PV	31	812	50	COMBIFUEL	74	X377V	80	
102	30	302V	31	812X	50	CONTROL RODS	76	X3900	81	
102P	30	302X	31	812XB	51	DOSING DEVICE INS.	70	X3900B	81	
102PV	31	302Z	31	812XL	51	DRAIN COCK	11	Y222	52	
104	49	308	40	812XS	51	DRAINING KIT	44	Y22P	9	
104P	49	312	31	812XT	51	CONTROL KIT	9	Y333	52	
115AD	69	312 G	69	815	34	ELECTRO INSFLAIR	70	Y333P	9	
144	45	317	44	825	34	EMARIS	111 to 113	Y666	52	
155	69	318	40	882	27	FILTERS	9	ZKB	76	
155B	69	322	31	892	27	KIT	52	ZKT	176	
155H	69	327	44	895	34	OPTIONS	75			
190	48	337	44	895V	34	FIXMATIC	75			
190D	48	402	27	901(EB)	16	25	FLOWMETER	19		
190P	48	402B	28	911(EB)	16	25	GAUGES	75		
190X	48	402B/402	17	921(EB)	16	25	GAUGES	69		
191D	53	402R	28	931(EB)	16	25	GAUGES INDICATORS	75		
193/114	49	402S	28	1485 JT	69	HK2	71			
193D	49	402TP	28	1499DF	20	INSERT CHECK VALVES	74			
201(EB)	14	24	402V	29	2096(CA)	7	MINI BALL VALVES	78		
202	27	402X	28	2211(ED)	17	INSFLAIR 6 & 300	70			
202B/212	17	402Z	28	2212 B	69	KIT COMBIFUEL	75			
207TP	28	405	36	2231(ED)	17	LYCENE	109 to 110			
207V	29	405L	36	2485	69	MINI BALL VALVES	78			
207	42	407B	42	2499DF	21	MULTI 7	19	67		
207V	43	407R	43	3212 B	69					



Standing of our commitment of **quality** and **service**, we daily conceive new products, we improve our manufacturing technics and develop our distribution tools to serve you better.

In our new price list, we have :

- ✓ A broader offer, some constant **technologically evolving** products, to comply with the several applications you face daily.
- ✓ **Some 5 year-guarantee products** (see general sales conditions) to make you work peacefully.
- ✓ An exclusive maintenance routine called **C.R.A.N.** (annual replacement program), simplifying the yearly recommended maintenance (see page 9).
- ✓ **Competent teams** to answer all your questions : **specification** of our ranges, **a daily support** in the field and through our customer call center, served by **an European logistic platform**.
- ✓ **A QUALITY** philosophy approved by ISO 9001 (version 2008), ISO 14001 and OHSAS 18001.



Our range ...

WATER DISTRIBUTION AND SUPPLY : CHEMICAL INDUSTRY,



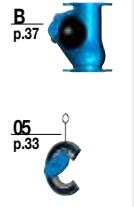
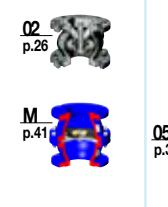
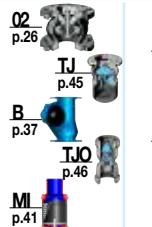
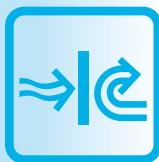
WATER

PUMPING	TREATMENT	STORAGE	WATER SUPPLY	IRRIGATION	PURIFICATION SEWAGE
---------	-----------	---------	--------------	------------	------------------------

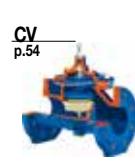
A W I D E R A N G E :



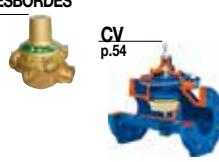
A W I D E R A N G E :



A W I D E R A N G E :



PRV DESBORDES
p.64



A W I D E R A N G E :



REGULATION

DIRECTIVE 97/23/CE : Equipment under pressure (PED : Pressure Equipment Directive)

Applies to the design, manufacturing and the assessment of the conformity of pressure equipment, the maximum allowable pressure of which is 0.5 bar.

Pressure equipment for water supply, distribution, and disposal of water is excluded.

Depending on the type of pressure equipment, maximum allowable temperature (PS), DN, physical nature of the fluid (liquid, gas or vapour) and the degree of danger of the fluid (group1/2)*, the directive classifies this same equipment into different categories (article 3.3, I, II, III, IV), required for the assessment of conformity with CE marking.

The equipment defined in article 3.3 of the directive must not bear the CE marking.

(*) Group 1 : hazardous fluids (directive 67/548/EEC) / explosive / highly flammable / easily flammable / flammable / very toxic / toxic / combustion agents.

Group 2 : all other fluids

Important notice : the indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use.

Therefore, it is essential to validate the use of products under given operating conditions. Socla is not responsible for non-adaptation of the products to working conditions not previously specified by the customer. Our products are not designed for dangerous gas unstable by pressure over 0,5 bar. In order to facilitate your choice regarding these new regulatory requirements, Socla has put the necessary information concerning products with CE marking, specification sheets and product identification plates at your disposal in the price list (+ see additional explanations on the detachable slip).

In addition, the operating instructions are available on our web site www.socla.com or by simple request from our sales department.

REGULATION N° 305/2011 ON BUILDING PRODUCTS

See page 37

DIRECTIVE 94/9/ CE : ATEX : (ATmospheres Explosibles)

See page 82

APPLICATION FIELDS

HEATING CIRCUITS, AGRICULTURE, NUCLEAR INDUSTRY, LIQUID FOODSTUFFS, GENERAL CIRCUITS...

BUILDING

INDUSTRY

DISTRIBUTION

OVERPRESSURE

HEATING
AIR CONDITIONING

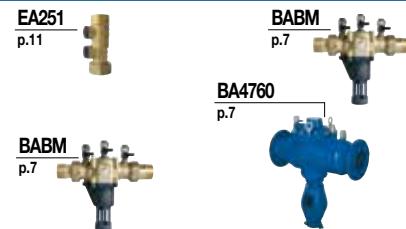
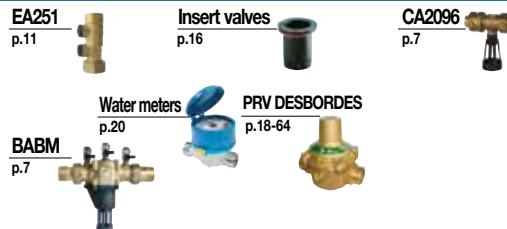
FIRE FITTING
PROTECTION

GAS

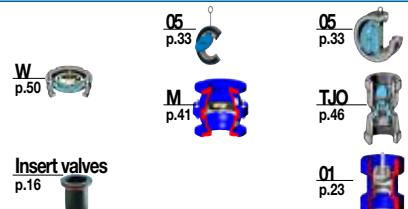
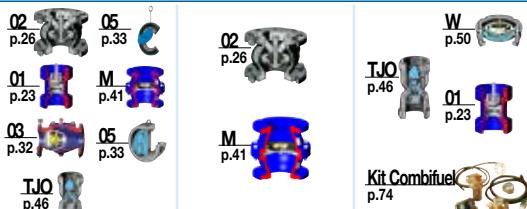
GENERAL
SERVICES

PROCESS

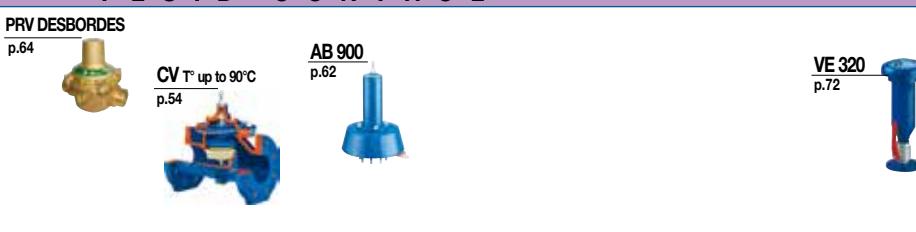
P R O T E C T I O N O F D R I N K I N G W A T E R S Y S T E M S



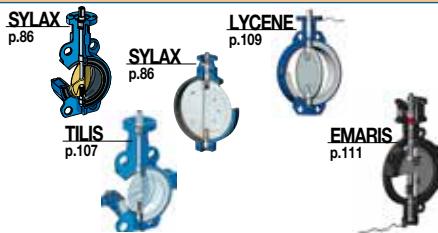
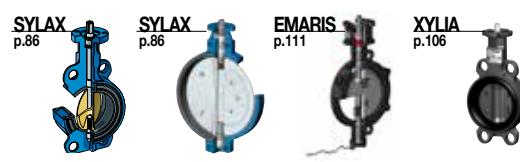
C H E C K V A L V E S



F L U I D C O N T R O L



B U T T E R F L Y V A L V E S



METAL TAG OF SOCLA PRODUCTS

BUTTERFLY VALVES

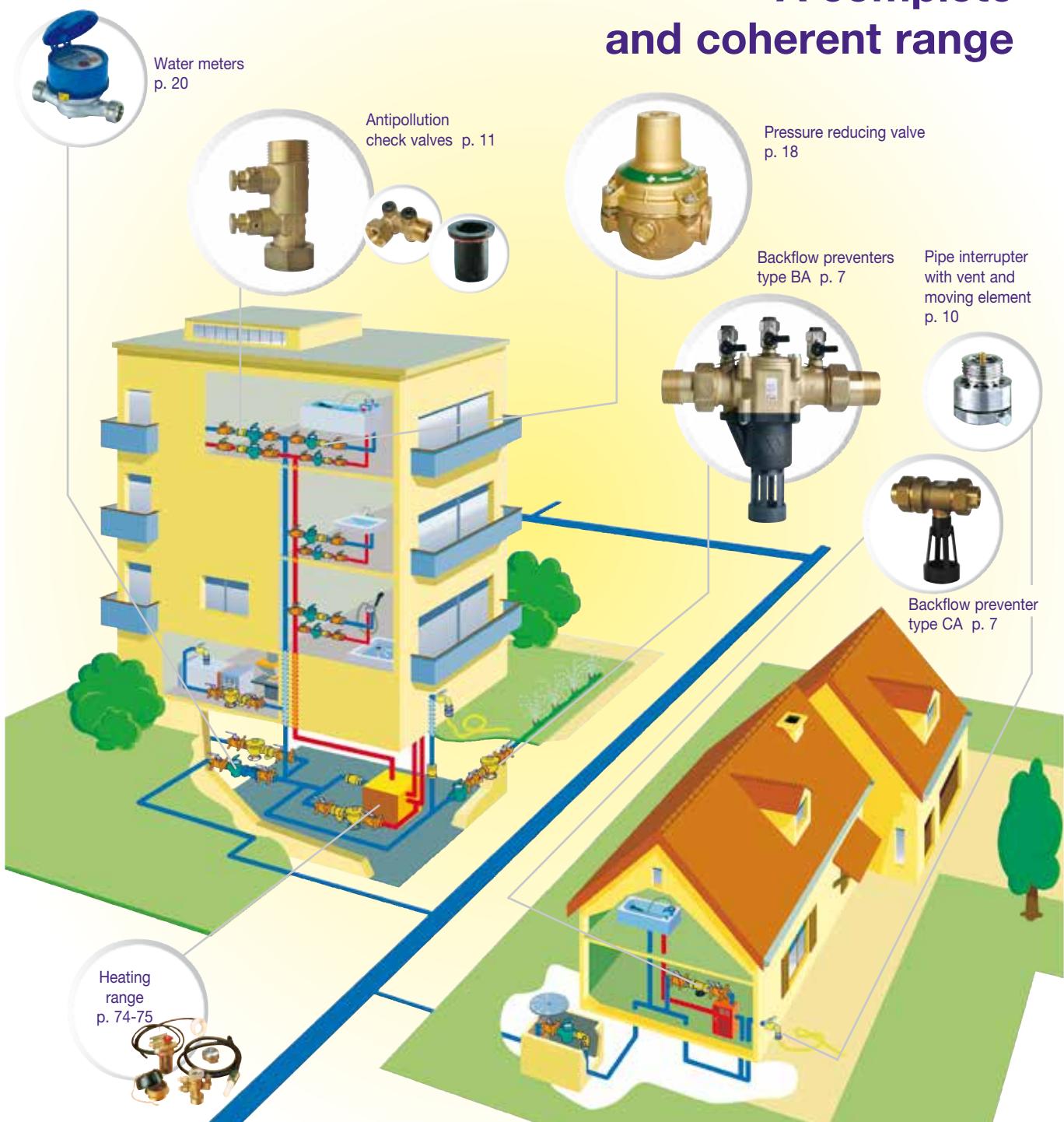
Socla		Made in France	Reference
SYLAX	bar		
DI		L1	
LI			
L1/2	bar	G1/2	
LI/2			
bar			
Max. admissible pressure PS between flanges L1/L2		Pressure PS between flanges G1-G2	
Min / max permissible temperature		Pressure PS between flanges L1/L2	
Connecting flanges		Year of manufacturing	
Labelling relating to the Directive ATEX 94/9/CE		Manufacturing date number	
Notified Body number for PED 97/23/CE		Various approvals	

CHECK VALVES - CONTROL VALVES

Socla		Made in France	Reference
Fig.	PS 20°C : XX bar	448XXXXXX	
		DN	
		Liqu. 1/2 : XX / XX bar	Gaz 1/2 : XX / XX bar
		XXX0000X	XXX0000X
		TB : XXX°C / XXX°C	XXX/XXX
		PN XXX/XX	XXX000X
		CE Ex II 2GD	
		ATEX 94/9/CE marking	
		Label + manufacturing Standard / CPD	
		Notified body number for the Directive PED 97/23/CE	
		Casing material	
Fig.	PS 20°C : XX bar	148XXXXXX	
LICOLL 1/2	XX / XX bar	XXXXXX	Ex II 2GD
GAZ 1/2	XX / XX bar	PN XX / XX	ATEX 94/9/CE marking
Max. admissible pressure PS 61/62 (gas)		XXX0000X	Label + manufacturing Standard / CPD
Min/maxi working temperature			Notified body Number for the Directive PED 97/23/CE
Connecting flanges			ATEX 94/9/CE marking
Approvals			



A complete and coherent range



COMPLEMENTARY EQUIPMENTS FOR DISCONNECTION INSTALLATIONS



Filters
p. 9

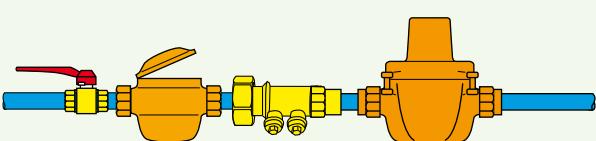


Shut Off
p. 79



Butterfly
Valves p. 92

EXAMPLE OF INSTALLATION



Ball valve
p. 79

Water meter
p. 20

EA 251S
p. 11

Pressure
reducing valve
pages 18 and 66



The protection of drinking water networks

Water is the most precious of our natural resources.

Whatever its destination, domestic, urban, agricultural or industrial, the water we use every day is distributed through an increasingly complex network of interconnected pipelines.

By back siphonnage or by pressure loss, the risk of backflow pollution is even greater when the different pipelines networks are closely linked.

The choice of protection system must be made in view of the level of risk the fluids are likely to come into contact with.

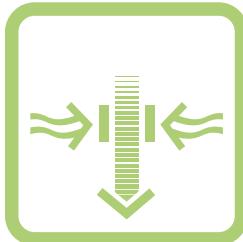
Socla is today the only European manufacturer to offer such a vast range of protection devices for every level of risk. Our valves which ensure complete safety are presented in descending order of risk.

In terms of protection, Socla offers also a complete range of pressure reducing valves in order to protect the water network against the risk of overpressure.

EN1717 standard : Protection of drinking water against the pollution in indoor distribution systems and general requirements for protective devices against pollution by return.



Requirements for the standard available on our web site : www.socla.com or simply request details from our sales Department.



▼		Pages
	Backflow preventers with verifiable reduced pressure zone - BA Type	6 to 8
	Backflow preventers with non-verifiable reduced pressure zone - CAa Type	6 to 7
	Accessories	9
	Hose union backflow preventers HA to HD	10
	Non-return valves - EA to EB	11 to 16
	Non-return valves - EA ≥ 40mm	13
	Insert valves EB	16
	Double check valves EC and ED type	17
	Pressure reducing valve	18 to 19
	Accessories	19
	Water meters	20 to 21

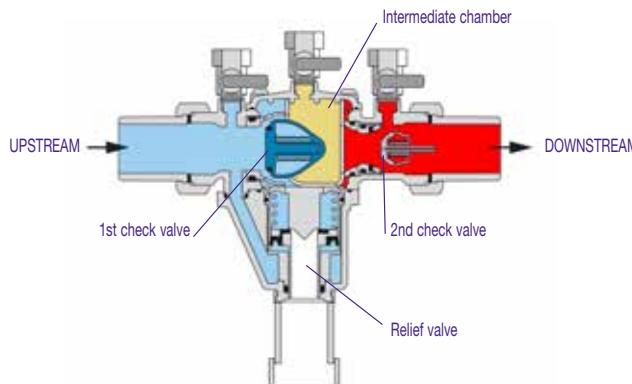


Agriculture, chemical or agricultural industries, collective or individual housing, workshop or business, all kinds of user are served by and linked to the same network : the risks of cross contamination multiply. As the network becomes more and more complex, an incident is more and more likely to occur in the water distribution system. Incidents may occur of various degrees of seriousness when pumping a polluted liquid, siphoning a tank of chemical product, disposing of a dangerous product or rejecting waste water.

Backflow preventers protect the drinking water network by interrupting the continuity of the supply, emptying and evacuating to waste in case of danger of water being turned back into the main pipeline.

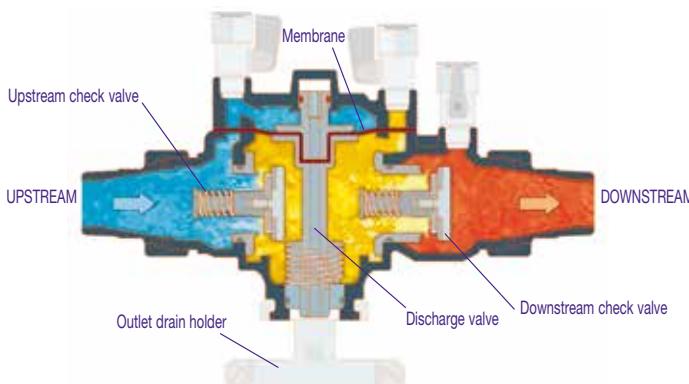
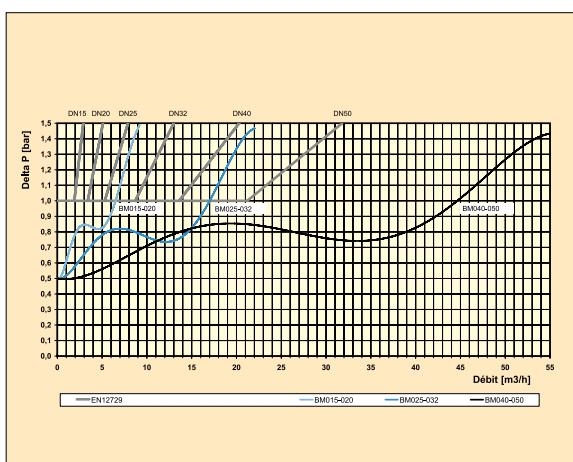
BA BACKFLOW PREVENTER

with verifiable reduced pressure zone



HEADLOSS CHART

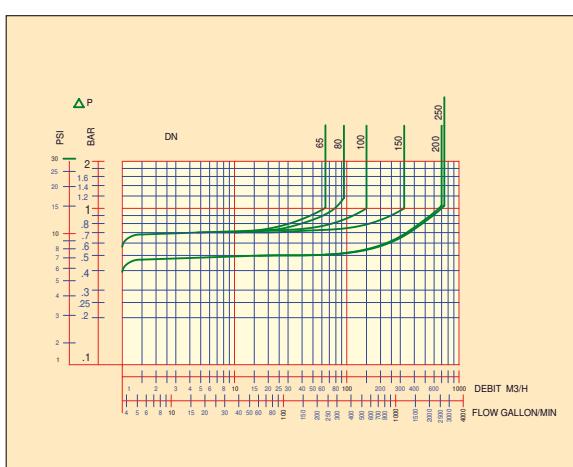
BABM



For systems liable to bring serious pollution risks : industrial surface treatment plants, hospitals, chemicals, plant protection, industrial and «commercial» heating etc. Backflow preventers demonstrate effective protection acknowledged by most European authorities.

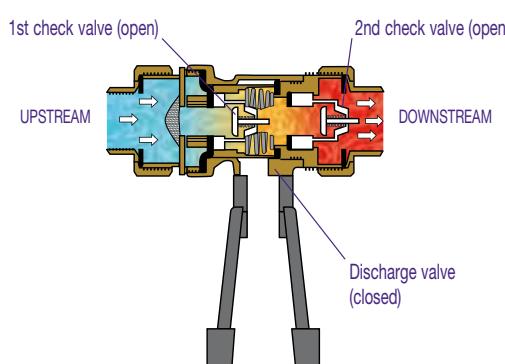
HEADLOSS CHART

BA4760



CAa BACKFLOW PREVENTER

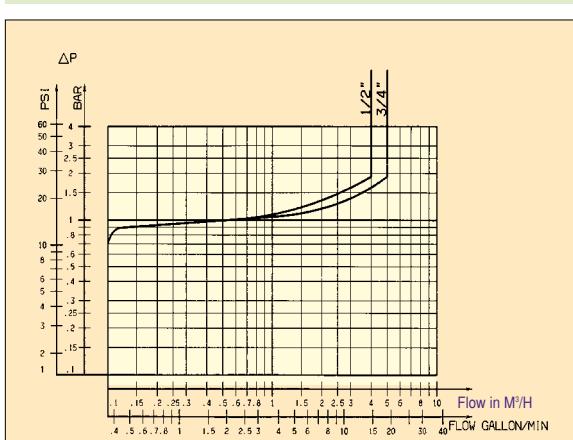
with non-verifiable reduced pressure zone



To protect low risk or intermittent risk installations which nevertheless require a backflow prevention system : domestic heating units < 70 kw, vending machines, certain laboratory equipment.

HEADLOSS CHART

CA 2096





PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA 10 bar $\theta 65^\circ$

Backflow preventer with verifiable reduced pressure zone with funnel attached

Piston technology system, without membrane, total accessibility for the maintenance of the modular parts

CASING : Brass

RELIEF VALVE : Polymer PA

CHECK VALVES : Polymer POM

APPROVALS :

BABM

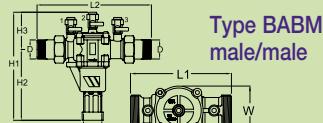
EN 12729

male/male

DN mm	DN "	Ref.	U V	€
15	1/2	149B 70000	1	434,24
20	3/4	149B 70001	1	457,10
25	1	149B 70002	1	566,17
32	1 1/4	149B 70003	1	698,05
40	1 1/2	149B 70004	1	1204,21
50	2	149B 70005	1	1264,49

Other approval available :

Consult us.

TECHNICAL INFORMATIONType BABM
male/male

DN	D	V	L1	L2	H1	H2	H3	W	Kg
15	1/2	32	122	201	168,5	103	65,5	53	1,2
20	3/4	32	122	201	168,5	103	65,5	53	1,2
25	1	40	157	252	238	156	82	76	2,7
32	1 1/4	40	157	252	238	156	82	76	2,7
40	1 1/2	50	220	336	303,5	202,5	101	115	6,5
50	2	50	220	336	303,5	202,5	101	115	6,5

Installation device : see page 8

PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA 10 bar $\theta 65^\circ$

Backflow preventer with verifiable reduced pressure zone with funnel attached

CASING : cast iron with epoxy coating

VALVES : BA4760 : valve head in DZR brass or bronze and valve seat in PPO or bronze

SEALS : EPDM/Silicone

SPRING : stainless steel

APPROVALS :

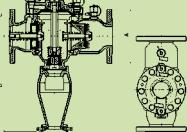
SPECIAL NOTE : horizontal installation

BA4760

EN 12729

with PN10 flanges

DN mm	DN "	Ref.	U V	€
65	2 1/2	149B 3486	1	2666,79
80	3	149B 3097	1	2823,99
100	4	149B 3098	1	4707,52
150	6	149B 3400	1	7087,04
200	8	149B 3401	1	12195,69
250	10	149B 3402	1	16888,55

TECHNICAL INFORMATIONType BA4760
flanged

DN	\varnothing A mm	B mm	C mm	D mm	\varnothing E mm	\varnothing F mm	Kg
65	185	356	155	326	63	180	26,25
80	200	440	173	337	63	200	33,00
100	220	530	201	434	80	255	65,00
150	285	630	230	456	80	310	92,00
200	340	763	272	499	80	390	150,00
250	395	763	272	499	80	390	161,00

Installation device : see page 8

HEATING INSTALLATIONS WITH LESS THAN 70 KW

PRESSURE PFA 10 bar $\theta 65^\circ$

Backflow preventer with non verifiable reduced pressure zone with funnel attached

CASING : brass

VALVES : POM (polyacetal) and brass

MEMBRANE AND SEALS : NBR (nitrile) and EPDM

SPRING : stainless steel

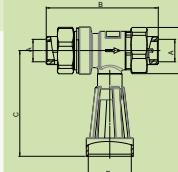
Female threaded union nuts and drain holder

APPROVALS :

OPTIONS : threaded male/male version and male/male or female/female nickel-plated versions available on request

CA 2096**female/female**

DN mm	DN "	Ref.	U V	€
15	1/2	149B 3781	1	96,28
20	3/4	149B 3782	1	96,28

TECHNICAL INFORMATIONType CA 2096
female/female

DN	A mm	B mm	C mm	D mm	E mm	Kg
15	1/2	105	59	44	40	0,6
20	3/4	105	59	44	40	0,6



PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA 10 bar

$\theta 65^\circ$

Backflow preventer with verifiable reduced pressure zone with angled funnel for vertical installations

CASING : Brass

RELIEF VALVE : Polymer PA

CHECK VALVES : Polymer POM

APPROVALS :



SPECIAL : for vertical descending installations

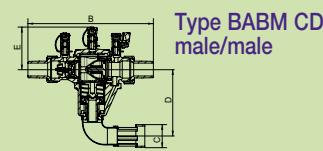
BABM CD

EN 12729

male/male

DN mm	DN "	Ref.	U V	€
15	1/2	149B 70018	1	552,19
20	3/4	149B 70019	1	575,05
25	1	149B 70020	1	740,31
32	1 1/4	149B 70021	1	801,52
40	1 1/2	149B 70022	1	1640,88
50	2	149B 70023	1	1653,28

TECHNICAL INFORMATION



Type BABM CD
male/male

A "	B mm	C mm	D mm	E mm	Kg
1/2	201	32	76	65,5	2,40
3/4	201	32	76	65,5	2,40
1	252	40	116	82	3,00
1 1/4	252	40	116	82	5,50
1 1/2	336	50	150	101	7,50
2	336	50	150	101	11,00

PROTECTION OF DRINKING WATER NETWORKS



The set (not assembled) is composed by :
a backflow preventer type BABM,
isolating valves type VABS : V3000 and V3000MF
and a filter type Y222P.

APPROVALS :



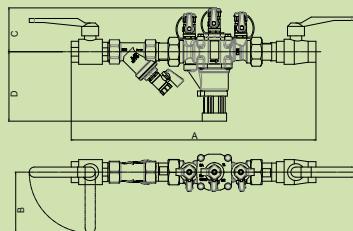
SET OF PROTECTION WITHOUT SUPPORT RAIL

female/female

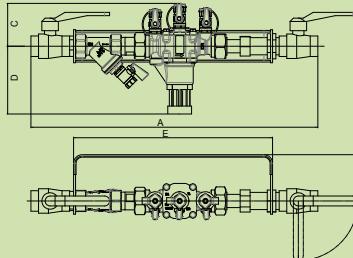
DN "	Ref.	U V	€
1/2	149B 70012	1	591,30
3/4	149B 70013	1	620,87
1	149B 70014	1	768,72
1 1/4	149B 70015	1	1005,23
1 1/2	149B 70016	1	1330,44
2	149B 70017	1	1537,41

TECHNICAL INFORMATION

Set of protection without support rail



Set of protection with support rail



PROTECTION OF DRINKING WATER NETWORKS



The set (not assembled) is composed by :
a backflow preventer type BABM,
2 isolating valves type VABS, V3000
and a filter type Y222P and support rail.

APPROVALS :



SET OF PROTECTION WITH SUPPORT RAIL

female/female

DN "	Ref.	U V	€
1/2	149B 70006	1	647,62
3/4	149B 70007	1	680,00
1	149B 70008	1	975,63
1 1/4	149B 70009	1	1300,88
1 1/2	149B 70010	1	1714,79
2	149B 70011	1	1951,31

DN	A mm "	B mm SS* AS*	C mm mm	D mm mm	E mm mm	F mm mm	Kg
1/2	355	(1)	90	65,5	103	(1)	1,8 (1)
3/4	362	435	90	65,5	103	301	2,2 3,2
1	455	513	115	82	156	360	7 4,2 5,5
1 1/4	495	508	115	82	156	385	138 5 8
1 1/2	610	655	150	101	202,5	460	116 9,6 11,5
2	677	821	180	101	202,5	570	129 11,5 16,5

*SS : without support rail

*AS : with support rail

(1) Consult us

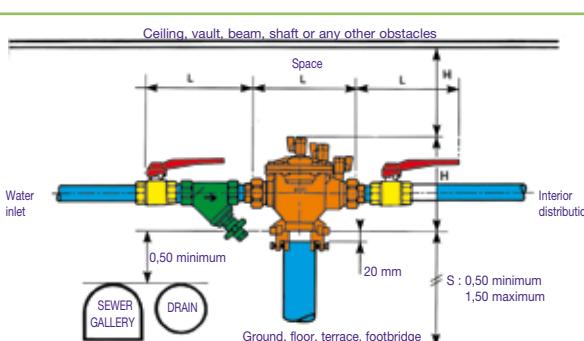
INSTALLATION SKETCH FOR BA BACKFLOW PREVENTER

The backflow preventers must due to present regulations be equipped with accessories such as : UPSTREAM : - stop valve
- strainer.

DOWNSTREAM : - stop valve.

All these accessories are available at SOCLA :

- Full bore ball valves DN 1/2" to 2".
- Butterfly valves DN 65 to 250 (please consult us).
- Threaded strainer with drain cock DN 1/2" to 2"
- Filters with flanges PN 10 DN 65 to 250.
- Incorporated outlet drain holder.
- Horizontal installation.



PRECAUTIONS :

- In the case of an upstream diversion in the area right in front of the RPZ, it is necessary to install a checkvalve between the diversion and the RPZ.
- Always manipulate the upstream valve slowly.



PROTECTION OF PUMPS, VALVES, PRESSURE REDUCING VALVES, BACKFLOW PREVENTERS

PRESSURE PFA/PS en bar **Ø 100°**

FILTER : GJL cast iron epoxy coated internal/external (DN40 to 50)
GJS ductile iron epoxy coated internal/external (DN65 to 400)

STRAINER : stainless steel

DRAIN COCK : brass 1/2"

APPROVALS : ACS



MESH Ø :

DN 1"1/2 and 2": 500 microns DN 3" to 8": 1250 microns
DN 2"1/2 : 800 microns DN 10" to 16": 1600 microns

Y333P

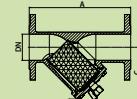


with PN10 flanges

DN "	PFA mm water	PS L1	PS L2	G1	G2	Cat	Ref.	U V	€	
1½	40	16	16	x	x	3.3	149B 3280	1	93,23	
2	50	16	16	x	x	3.3	149B 3281	1	105,59	
2½	65	16	16	x	x	3.3	149B 3282	1	134,05	
3	80	16	16	x	x	3.3	149B 3283	1	169,34	
4	100	16	16	x	x	3.3	149B 3284	1	219,12	
5	125	16	16	x	x	3.3	149B 3285	1	333,89	
6	150	16	13	16	x	3.3	149B 3286	1	441,98	
8	200	10	10	10	x	3.3	149B 3287	1	869,14	
10	250	10	10	10	x	x	1	149B 3288	1	1761,78
12	300	10	10	10	x	x	1	149B 3289	1	1954,29
14	350	10	10	10	x	x	1	149B 3788	1	3552,90
16	400	10	10	10	x	x	1	149B 3791	1	4540,08

*Double drilling DN65 / DN60 - **Double drilling : 4 and 8 holes

TECHNICAL INFORMATION



Type Y333P
flanged

Ø mm	A mm	C mm	D mm	Mesh mm	Kg	KV m³/H	ζ
40	200	130	35	0,50	6,5	42,7	2,20
50	230	145	50	0,50	8,5	66,7	2,20
65	290	137	65	0,80	9,8	89	3,50
80	310	159	75	1,25	13,5	127	4,00
100	350	187	90	1,25	18	200	3,90
125	400	249	125	1,25	27,5	364	2,60
150	480	301	170	1,25	43	494	3,30
200	600	403	220	1,25	83	937	2,90
250	730	472	200	1,60	112	1137	4,80
300	850	508	250	1,60	160	1844	3,80
350	980	587	315	1,60	297	1844	7,10
400	1100	658	370	1,60	406	2172	8,80

PROTECTION OF PUMPS, VALVES, PRESSURE REDUCING VALVES, BACKFLOW PREVENTERS

PRESSURE PFA 25 bar **Ø 110°**

FILTER : brass

STRAINER : stainless steel

DRAIN COCK : brass 1/4" (except DN 1/2" : 1/8")

APPROVALS : ACS

MESH Ø : 500 microns (except DN 1/2" : 300 microns)

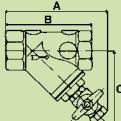
Y222P



female/female

DN "	Ref.	U V	€
1/2	149B 5950	1	42,46
3/4	149B 5160	1	42,46
1	149B 5161	1	51,04
1 1/4	149B 5191	1	56,39
1 1/2	149B 5162	1	84,60
2	149B 5163	1	116,09

TECHNICAL INFORMATION



Type Y222P
threaded

Ø mm	A mm	B mm	C mm	Mesh mm	Kg	KV m³/H	ζ
15/21	63	60	40	0,5	0,18	2,7	10,33
20/27	93	69	69	0,5	0,41	5,1	9,50
26/34	101	87	73	0,5	0,57	11,3	4,70
33/42	125	106	84	0,5	0,86	17,2	5,50
40/49	129	117	91	0,5	1,18	23	7,50
50/60	145	147	103	0,5	1,81	46,8	4,50

SPARE PARTS FOR BACKFLOW PREVENTER

Kit for
backflow preventer
BABM



Components :

- 1 upstream valve
- 1 downstream valve
- 1 discharge valve,
- + 1 draining valve set for BA4760

Packing : 1 kit by box
(For any order, please give the serial number of the product).

Kit for Backflow preventer
BA4760



For backflow preventers type BA2660/4660 :
please consult us precising the serial number

For BABM Reference	Ref. kit	U V	€
149B 70000	149B 1391	1	137,74
149B 70001	149B 1391	1	137,74
149B 70002	149B 1393	1	192,13
149B 70003	149B 1393	1	192,13
149B 70004	149B 1395	1	257,12
149B 70005	149B 1395	1	257,12

For BA 4760 Reference	Ref. kit	U V	€
3486	149B 19	1	690,28
3097	149B 20	1	690,28
3098	149B 21	1	1344,52
3400	149F 017922	1	1849,67
3401	149B 25	1	4254,93
3402	149B 25	1	4254,93

FOR TESTING AND SERVICING BACKFLOW PREVENTERS ON SITE



NF

Ref.	U V	€
149B MC1022	1	3818,00



HD206

PROTECTION OF DRINKING WATER NETWORKS

PRESSURE : can be fitted without a downstream shut-off device

Ø 65°

Vacuum breaker

CASING : chrome plated brass

GUIDE : POM (polyacetal)

CLOSING SYSTEM : POM (polyacetal)

MEMBRANE : NBR

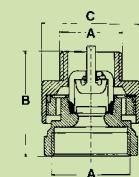
SPECIAL : vertical ascending working position

APPROVALS : ACS

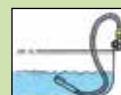
female/male

DN in "		Ref.	U	V	€
F	M	149B 2179	10	38,64	
3/4	1/2				
1/2	1/2	by adding a fillerng to the valve			
3/4	3/4				

TECHNICAL INFORMATION



Type HD206
female/male



A	B	C	Kg	KV	ζ
"	Inlet	"	mm	m³/H	
F	Outlet	M	36	0,10	3
3/4	1/2	36	33	0,10	3

PROTECTION OF DRINKING WATER NETWORKS GARDEN TAPS

PRESSURE PFA 10 bar

Ø 65°

Vacuum breaker

CASING : brass or chrome plated brass

CLOSING SYSTEM : brass

SELF-BREAKING SIDE SCREW

APPROVALS :
BELGAQUA

SPECIAL : vertical downwards operating position

HA216

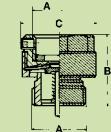


female/male

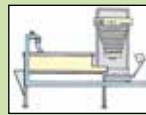
DN	A	Ref.	U	V	€
mm	"	149B 2160	10	45,39	
20	3/4	149B 2161*	10	57,60	
25	1 1/4	149B 2310	10	124,95	

* Chrome plated valve

TECHNICAL INFORMATION



Type HA216
female/male



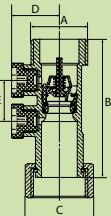
A	B	C	Kg	KV	ζ
"	Inlet	"	mm	m³/H	
F	Outlet	M	41	0,14	4,1
3/4	3/4	41	37	0,14	4,1
1 1/4	1 1/4	61	68	0,64	10,0

TECHNICAL INFORMATION

Type EA251 female/male

DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	78	30	22	26	0,18	7,0	1,6
20 1	26/34	81	37	27	26	0,30	11,8	1,8
25 1 1/4	33/42	89	46	31	30	0,50	15,4	2,6
30 1 1/2	40/49	99	55	31	30	0,67	25,1	2,6
40 2	50/60	105	65	36	32	1,10	34,9	3,3

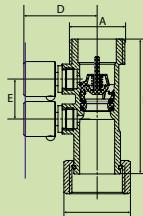
C = watermeter



Type EA251 PP female/male

DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	78	30	30	26	0,28	7,0	1,6
20 1	26/34	81	37	35	26	0,40	11,8	1,8
25 1 1/4	33/42	89	46	36	30	0,60	15,4	2,6
30 1 1/2	40/49	99	55	30	30	0,77	25,1	2,6
40 2	50/60	105	65	41	32	1,19	34,9	3,3

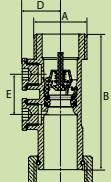
C = watermeter



Type EA251 BL female/male

DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	78	30	22	26	0,21	7,0	1,6
20 1	26/34	81	37	26	26	0,35	11,8	1,8
25 1 1/4	33/42	89	46	50	30	0,55	15,4	2,6
30 1 1/2	40/49	99	55	50	30	0,72	25,1	2,6
40 2	50/60	105	65	55	32	1,07	34,9	3,3

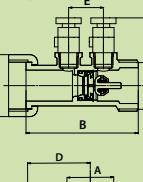
C = watermeter



Type EA251S female/male

DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	58	30	22	18	0,16	7,0	1,6

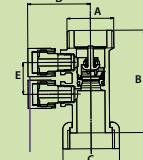
C = watermeter



Type EA251SPU female/male

DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	58	30	40	18	0,20	7,0	1,6

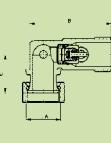
C = watermeter



Type EA251 CC

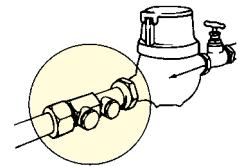
DN	A	B	C	D	E	Kg	KV	ζ
C R *	mm	mm	mm	mm	mm	mm	m³/H	
15 3/4	20/27	60	28	26	0,26	3,9	5,4	
20 1	26/34	67	33	30	0,38			

C = watermeter





This non-return valve is designed for the protection of drinking water network against polluted backflow which has no recognized toxic or microbiological risks to human health. It is particularly suitable for mounting after water meter.



Threaded female/male

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass

LENGTH : 58 mm

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR / SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EA251S



EA251SPU



EA251SPP



HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass with union nut

EA251 : 2 drilled bosses 1/4", PPA plugs

Except DN15, 2 drilled bosses 1/8", brass plugs

EA251BL : 2 drilled bosses 1/4" brass plugs

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) / SPRING : stainless steel

APPROVALS EA251 : ACS

01 SYSTEM

EA251



EA251BL



HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass with union nut

EA251PU : 2 drilled bosses with brass drain cock

EA251PP : 2 drilled bosses with brass cylindrical drainpoints

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) / SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EA251PU



EA251PP



HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass

4 drilled bosses 1/4" plugs in PPA

GUIDE : with POM (Polyacetal)

CLOSING SYSTEM : with POM (Polyacetal)

SEAL : NBR (nitrile) / SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EA251CC



EA251DE



PRESSURE PFA 10 bar - PS (see table)

Brass drain cock - Male 1/4

* Cylindrical drain points version

DRAIN COCK



DN	PFA	PS	PS	PS	PS	Cat	Ref.	U	V	€
C	R	water	L1	L2	G1	G2				
1/8	10	10	10	10	10	3.3	149F 021246	10	1,80	
1/4	10	10	10	10	10	3.3	149F 008273	10	2,22	

DN	PFA	PS	PS	PS	PS	Cat	Ref.	U	V	€
C	R	water	L1	L2	G1	G2				
1/8	10	10	10	10	10	3.3	149F 022153*	10	5,86	
1/4	10	10	10	10	10	3.3	149B 15958*	10	11,58	



Threaded male/male

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar **Ø 80°**

CASING : brass

2 drilled bosses 1/4" with POM (polyacetal) plugs

GUIDING + CLOSING SYSTEM : POM (polyacetal) or PA

SEAL : NBR (nitrile) lip-ring

SPRING : stainless steel

APPROVALS : ACS

SPECIAL : with sockets and nuts

01 SYSTEM

EA271



male/male

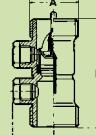
DN	PFA	PS				Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2					
1/2	10	10	10	10	10	3.3	149B 2300	10		56,03
3/4	10	10	10	10	10	3.3	149B 2201K	10		62,19
1	10	10	10	10	10	3.3	149B 2202K	10		128,90
1 1/4	10	10	10	x	10	3.3	149B 2203K	10		145,39
1 1/2	10	10	10	x	10	3.3	149B 2204K	6		262,58
2	10	10	10	x	10	3.3	149B 2205K	5		281,50

Other approvals available :

kiwa

Consult us.

Type EA271
male/male



DN	A	B	C	Kg	KV m/H	ζ
"	mm	mm	mm			
1/2	3/4	20/27	65	20	0,24	5,05
3/4	1	26/34	75	30	0,18	9,20
1	1 1/4	33/42	90	34	0,34	14,50
1 1/4	1 1/2	40/49	110	38	0,52	25,50
1 1/2	2	50/60	120	41	0,73	35,00
2	2 1/2	66/76	150	49	1,33	56,50

Threaded female/female

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar **Ø 100°**

CASING : Ductile iron with epoxy coating

Drilled BOSSES

CLOSING SYSTEM + STEM : DZR brass

SEAT + SPRING : Stainless steel

PLUGS : Brass

APPROVALS : ACS PED 97/23/CE

03 SYSTEM

EA253



female/female

DN	PFA	PS				Cat	Ref.	U	V	€
"	mm	F/F conn.	water	L1	L2	G1	G2			
50	2 1/2	16	16	16	15	16	I	149B 3810	10	381,86
65	3	16	16	16	12	16	I	149B 3811	10	539,61

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar **Ø 80°**

CASING : brass (DN2" in bronze)

2 drilled bosses 1/4" with POM (polyacetal) plugs + seal in EPDM

GUIDING : PPO (polyacetal)

CLOSING SYSTEM : POM (polyacetal) or PA

SEAL : NBR (nitrile) lip-ring - SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

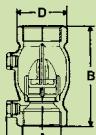
EA221B



female/female

DN	PFA	PS				Cat	Ref.	U	V	€
"	mm	F/F conn.	water	L1	L2	G1	G2			
3/4	10	10	10	10	10	3.3	149B 2171	10		39,66
1	10	10	10	10	10	3.3	149B 2172	10		54,59
1 1/4	10	10	10	x	10	3.3	149B 2173	10		76,53
1 1/2	10	10	10	x	10	3.3	149B 2174	6		106,57
2	10	10	10	x	10	3.3	149B 2175	6		191,17

Type EA221 B
female/female



A	B	C	D	Kg	KV m/H	ζ
"	mm	mm	mm			
3/4	20/27	78	30,5	32	0,24	12,5
1	26/34	93	32,5	41	0,46	19,6
1 1/4	33/42	113	39,5	50	0,74	33,1
1 1/2	40/49	120	41,0	55	0,85	46,0
2	50/60	150	48,0	70	1,44	84,0

FOR DRINKING WATER PROTECTION, CLEAR LIQUIDS, WATER, GAS

PRESSURE PFA/PS in bar **Ø 80°**

CASING : brass

2 drilled bosses 1/4" with POM (polyacetal) plugs

GUIDING + CLOSING SYSTEM : POM

SEAL : NBR

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

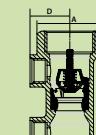
EA291NF



female/female

DN	PFA	PS				Cat	Ref.	U	V	€
"	mm	F/F conn.	water	L1	L2	G1	G2			
1/2	10	10	10	10	10	3.3	149B 2220	10		13,65
3/4	10	10	10	10	10	3.3	149B 2212	10		14,75
1	10	10	10	10	10	3.3	149B 2222	10		22,39
1 1/4	10	10	10	x	10	3.3	149B 2213	10		46,21
1 1/2	10	10	10	x	10	3.3	149B 2214	10		60,92
2	10	10	10	x	10	3.3	149B 2215	6		101,91
2 conn. 2 1/2	10	10	10	x	10	3.3	149B 2216	2		196,03

Type EA291 NF
female/female



A	B	C	D	Kg	KV m/H	ζ
"	mm	mm	mm			
1/2	15/21	65	26	23	0,13	4,2
3/4	20/27	75	30	28	0,19	13,8
1	26/34	90	38	28	0,29	18,0
1 1/4	33/42	110	47	36	0,57	28,0
1 1/2	40/49	120	54	38	0,74	41,0
2	50/60	150	66	46	1,22	55,8
2 1/2	66/76	150	84	46	2,00	59,9



Drilled flanges

FOR DRINKING WATER PROTECTION AND WATER PROTECTION

PRESSURE PFA/PS in bar **Ø 100°**

CASING : ductile iron with external/internal epoxy coating

2 DRILLED BOSSES + test cock 1/2"

1 drilled bosses + 1 drain plug 1/2" (except DN40/50 : 1/4")

CLOSING SYSTEM + SHAFT : DZR brass

VALVES + PLUG : Brass

SEAT + SPRING : Stainless steel

APPROVALS : PED 97/23/CE **kiwa** 03 SYSTEM**EA453**

with PN10 flanges

DN mm	PFA water	L1	L2	G1	G2	Cat	Ref.	U V	€
40/50	16	16	16	16	16	I	149B 3831	1	528,13
60/65*	16	16	16	15	16	I	149B 3832	1	528,13
80*	16	16	16	12	16	I	149B 3833	1	653,77
100*	16	16	16	10	16	I	149B 3834	1	889,67
150	16	16	16	0,5	16	I	149B 3836	1	1970,16
200	10	10	10	0,5	10	I	149B 3837	1	3828,36
250	10	10	10	0,5	10	I	149B 3838	1	7057,24

Other approval available :

*WRAS

Consult us.

TECHNICAL INFORMATION

Type EA453 with flanges

A mm	B mm	C mm	D mm	E mm	F mm	Kg
40/50	165	-	200	113	80	7,65
60/65	185	-	240	118	93	11,45
80	200	-	260	131	98	14,36
100	222	-	300	141	115	20,20
150	285	-	400	197	144	42,00
200	340	380	500	220	200	65,00
250	400	438	600	256	235	94,00

BUILDING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar **T°C 80°**

CASING : brass with threaded male / male connections for mounting with nuts and nipples

2 drilled bosses 1/4" brass plug

GUIDE / CLOSING SYSTEM : brass

GUIDE STEM in DZR brass

SEAL : EPDM / SPRING : stainless steel

APPROVALS :

SPECIAL : Particularly adapted to pressure water systems

03 SYSTEM

EA223

male/male

DN mm	PFA water	L1	L2	G1	G2	Cat	Ref.	U V	€	
15	1/2	16	16	16	16	3,3	149B 2890	1	47,88	
20	3/4	16	16	16	16	3,3	149B 2891	1	47,88	
25	1	16	16	16	16	3,3	149B 2892	1	64,01	
32	1 1/4	16	16	16	x	16	3,3	149B 2893	1	77,22
40	1 1/2	16	16	16	x	16	3,3	149B 2894	1	101,91
50	2	16	16	16	x	16	3,3	149B 2895	1	187,84

Other approvals available :

kiwa

Consult us.

TECHNICAL INFORMATION

Type EA 223 male/male

DN mm	A "	B mm	C mm	Kg	KV m³/H	ζ
1/2	3/4	67,0	28	0,20	4,25	4,39
3/4	1	74,0	35	0,30	9,00	3,09
1	1 1/4	80,5	39	0,47	14,53	2,90
1 1/4	1 1/2	88,5	44	0,64	23,30	3,00
1 1/2	2	95,0	48	0,85	40,47	2,45
2	2 1/2	115,0	56	1,75	65,27	2,30

BUILDING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar **Ø 80°**

CASING : brass with nuts and nipples connection

2 drilled bosses 1/4" with brass plug

GUIDE STEM in DZR brass

GUIDE / CLOSING SYSTEM : brass

SEAL : EPDM

SPRING : stainless steel

SPECIAL : particularly adapted to pressure water systems

APPROVALS :

03 SYSTEM

EA223D

male/male

DN mm	PFA water	L1	L2	G1	G2	Cat	Ref.	U V	€	
15	1/2	16	16	16	16	3,3	149B 2890 D	1	93,90	
20	3/4	16	16	16	16	3,3	149B 2891 D	1	104,73	
25	1	16	16	16	16	3,3	149B 2892 D	1	127,14	
32	1 1/4	16	16	16	x	16	3,3	149B 2893 D	1	154,56
40	1 1/2	16	16	16	x	16	3,3	149B 2894 D	1	205,81
50	2	16	16	16	x	16	3,3	149B 2895 D	1	366,51

Other approvals available :

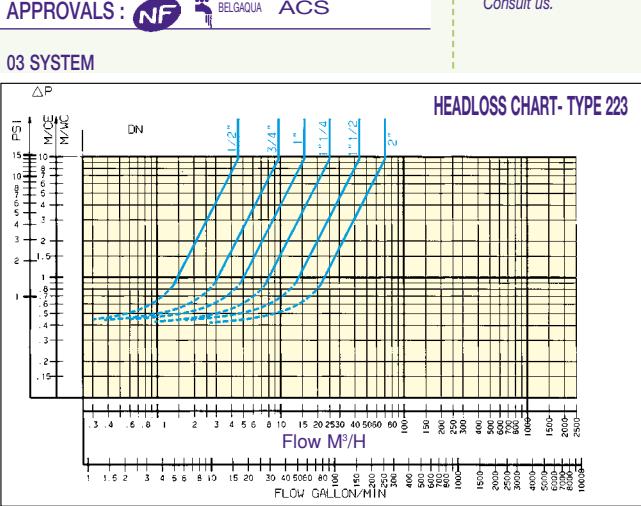
kiwa

Consult us.

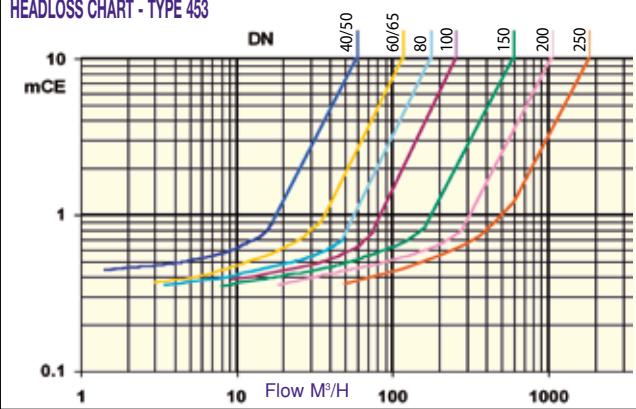
TECHNICAL INFORMATION

Type EA 223 D male/male

DN mm	A "	B mm	C mm	Kg	KV m³/H	ζ
15	1/2	1/2	132	28	0,22	4,25
20	3/4	148	35	0,55	9,00	3,09
25	1	166	39	0,88	14,53	2,90
32	1 1/4	184	44	1,23	23,30	3,00
40	1 1/2	194	48	1,94	40,47	2,45
50	2	231	56	3,22	65,27	2,30



HEADLOSS CHART - TYPE 453





Threaded female/male

WATER DISTRIBUTION NETWORKS,
PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass

1 downstream boss drilled 1/4" (DN 1/2" without boss)

POM (polyacetal) plug

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) or EPDM (1/2") lip-ring

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EB201



female/male

DN "	PFA water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/2	10	10	10	10	10	3.3	149B 2293	1	22,65
3/4	10	10	10	10	10	3.3	149B 2002	1	31,25
1	10	10	10	10	10	3.3	149B 2003	1	39,29

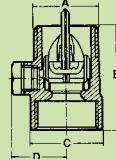
Other approvals available :



Consult us.

TECHNICAL INFORMATION

Type EB 201
female/male



A "	B mm	C mm	D mm	Kg	KV m³/H	ζ
1/2	15/21	31	24	-	0,05	3,2
3/4	20/27	50	30	27	0,20	4,3
1	26/34	54	37	30	0,18	7,8

Threaded male/male

HOUSING, WATER DISTRIBUTION

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) or EPDM lip-ring

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EB241



male/male

DN "	PFA water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/4	10	10	10	10	10	3.3	149B 2014	1	23,78
3/8	10	10	10	10	10	3.3	149B 2015	1	28,40
1/2	10	10	10	10	10	3.3	149B 2008	1	23,78
3/4	10	10	10	10	10	3.3	149B 94105*	1	23,78

*with NBR seal

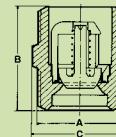
Other approvals available :



Consult us.

TECHNICAL INFORMATION

Type EB241
male/male



A "	B mm	C mm	Kg	KV m³/H	ζ
1/4	8/13	39,0	20	0,05	0,8
3/8	12/17	40,5	20	0,06	1,7
1/2	15/21	26,0	24	0,04	3,4
3/4	20/27	50,0	30	0,11	9,6

HOUSING, WATER DISTRIBUTION,
INDUSTRY

PRESSURE PFA/PS 10 bar $\theta 80^\circ$

CASING : brass

1 downstream boss drilled 1/4"

POM (polyacetal) plug

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) or EPDM lip-ring

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EB261



male/male

DN "	PFA water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/2	10	10	10	10	10	3.3	149B 2210	1	29,15
3/4	10	10	10	10	10	3.3	149B 2211	1	35,32

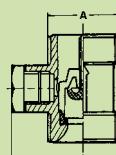
Other approvals available :



Consult us.

TECHNICAL INFORMATION

Type EB261
male/male



DN "	A mm	B mm	C mm	Kg	KV m³/H	ζ
1/2	3/4	20/27	39	27,0	0,14	5
3/4	1	26/34	47	30,5	0,11	9



Threaded female/female

HOUSING, WATER DISTRIBUTION,
HEATINGPRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : DZR brass

GUIDING + CLOSING SYSTEM : POM (polyacetal) or PPO (Polyphenylene oxyd) or PA

SEAL : NBR (nitrile) or EPDM lip-ring or FKM*

SPRING : stainless steel

APPROVALS : ACS
(Except ref. 2089 and 2090)

01 SYSTEM

EB231



female/female

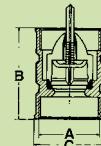
DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
3/8	10 water	10	10	10	10	3,3	149B 2069	10	21,13		
3/8	10	10	10	10	10	3,3	149B 2089*	10	22,17		
1/2	10	10	10	10	10	3,3	149B 2070	10	22,26		
1/2	10	10	10	10	10	3,3	149B 2090*	10	23,36		
3/4	10	10	10	10	10	3,3	149B 2091	10	28,29		
1	10	10	10	10	10	3,3	149B 2092	10	35,54		
1 1/4	10	10	10	x	10	3,3	149B 2093	10	50,22		
1 1/2	10	10	10	x	10	3,3	149B 2094	6	67,98		
2	10	10	10	x	10	3,3	149B 2095	6	103,40		

Other approvals available :



Consult us.

TECHNICAL INFORMATION

Type EB 231
female/female

A	B	C	Kg	KV	ζ
3/8	12/17	39	25,0	0,06	3,2
1/2	15/21	41	30,0	0,10	4,4
3/4	20/27	50	32,5	0,20	7,3
1	26/34	54	39,0	0,17	12,4
1 1/4	33/42	64	48,0	0,24	22,0
1 1/2	40/49	78	55,0	0,36	29,0
2	50/60	89	67,0	0,60	46,5

Threaded male/female

HOUSING, WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER NETWORKSPRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : brass

GUIDING + CLOSING SYSTEM : POM (polyacetal) or PPO (Polyphenylene oxyd)

SEAL : EPDM or NBR (nitrile) lip-ring

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EB281



male/female

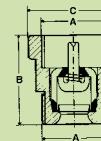
DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
M	F	water	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/2	3/8	10	10	10	10	3,3	149B 2518	10	16,48		
1/2	1/2	10	10	10	10	3,3	149B 2519	10	16,48		
3/4	3/4	10	10	10	10	3,3	149B 2520	10	23,04		
1	1	10	10	10	10	3,3	149B 2521	10	31,56		

Other approvals available :



Consult us.

TECHNICAL INFORMATION

Type EB 281
male/female

A	B	C	Kg	KV	ζ
Male	Female	"	mm	mm	
1/2	3/8	30	22	0,05	3,2
1/2	1/2	30	26	0,07	3,9
3/4	3/4	38	30	0,08	10,6
1	1	41	38	0,17	15,9

HOUSING, WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER NETWORKSPRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : chrome plated brass

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : EPDM or NBR (nitrile) lip-ring

SPRING : stainless steel

APPROVALS : ACS

01 SYSTEM

EB281C



male/female

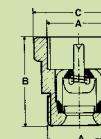
DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
M	F	water	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/2	1/2	10	10	10	10	3,3	149B 2065	10	29,44		
3/4	3/4	10	10	10	10	3,3	149B 2514*	10	30,44		

Other approvals available :



Consult us.

TECHNICAL INFORMATION

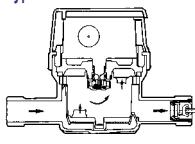
Type EB281C
male/female

A	B	C	Kg	KV	ζ
Male	Female	"	mm	mm	
1/2	1/2	30	26	0,06	3,9
3/4	3/4	38	30	0,08	10,6



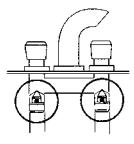
EXAMPLES AND APPLICATIONS

Type 901



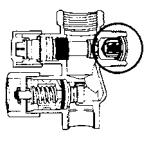
Valve for Watermeter

Type 921



Valve for mixer tap

Type 931



Safety valve

Permanently in contact with the Department of Health and the official testing laboratories. Socla's design team is developing «special» check valves which conform to the anti-pollution standard.

These «special» valves are used in conjunction with prefabricated equipment whose function requires protection from risk of contamination of the drinking water system.

TO BE INSERTED, PROTECTION OF WATERMETER

EB901

PRESSURE
PFA/PS in bar

Ø 80°

SEAL : NBR (nitrile)

SPRING : stainless steel

APPROVALS :



01 SYSTEM

CASING : POM (polyacetal)
BORE : 15 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
10	3/8	10	10	10	10	3,3		149B 2011	10	4,52		
10	3/8	10	10	10	10	3,3		149B 2011G	10	4,52		

CASING : POM

BORE : DN15 - 18,70 mm

DN20 - 22,40 mm

DN25 - 30,00 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
15	1/2	10	10	10	10	3,3		149B 3302	10	4,51		
20	3/4	10	10	10	10	3,3		149B 2131	10	7,66		
25	1	10	10	10	10	3,3		149B 2132	10	11,42		

CASING : PA

BORE : DN15 - 15,20 mm

DN20 - 19,00 mm

DN25 - 24,95 mm

DN32 - 31,75 mm

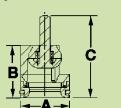
DN40 - 39,50 mm

DN50 - 49,60 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
15	1/2	10	10	10	10	3,3		149B 040135	10	2,17		
20	3/4	10	10	10	10	3,3		149B 040136	10	2,90		
25	1	10	10	10	10	3,3		149B 040137	10	4,21		
32	1 1/4	10	10	10	10	3,3		149B 040138	10	8,09		
40	1 1/2	10	10	10	10	3,3		149B 040139	10	13,01		
50	2	10	10	10	10	3,3		149B 040140	10	15,60		

Type EB 901



TECHNICAL INFORMATION

Ref.	DN "	A mm	B mm	C mm	Kg	KV m³/H	ζ
2011	3/8	15	17,0	25,0	0,002	4,8	0,68
2011G	3/8	15	16,0	25,0	0,002	4,8	0,68

Ref.	DN "	A mm	B mm	C mm	D mm	Kg	KV m³/H	ζ
3302	1/2	18,3	20	19	3	0,005	5,84	2,37
2131	3/4	22,1	25	25,5	7	0,005	10,77	2,20
2132	1	28,5	32	38,5	8	0,005	16,1	2,41

Ref.	DN "	A mm	B mm	C mm	D mm	Kg	KV m³/H	ζ
149B 040135	1/2	15,1	18	8,4		0,002	5,84	2,37
149B 040136	3/4	19,6	23,2	10,8		0,002	10,08	2,52
149B 040137	1	24,8	31,3	16,7		0,002	14,44	2,99
149B 040138	1 1/4	31,6	37,7	17,0		0,002	26,83	2,33
149B 040139	1 1/2	39,5	45,3	20,1		0,002	39,94	2,57
149B 040140	2	49,6	57,3	24,3		0,002	64,98	2,37

TO BE INSERTED, PROTECTION OF WATERMETER

EB911

PRESSURE
PFA/PS in bar

Ø 80°

SEAL : EPDM

SPRING : stainless steel

APPROVALS :



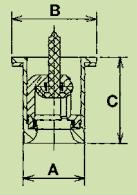
01 SYSTEM

CASING : POM (polyacetal)
BORE : 17,6 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
15	1/2	10	10	10	10	3,3		149B 2007	10	6,44		

Type EB 911



Ref.	DN "	A mm	B mm	C mm	Kg	KV	ζ m³/H
2007	1/2	17,5	24,0	25,0	0,005	3,37	5,60

TO BE INSERTED, PROTECTION OF WATERMETER

EB921

PRESSURE
PFA/PS in bar

Ø 80°

SEAL : NBR (nitrile)

SPRING : stainless steel

APPROVALS :



01 SYSTEM

CASING : POM (polyacetal)
BORE : 18,5 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
15	1/2	10	10	10	10	3,3		149B 1030	10	4,89		

CASING : POM (polyacetal)
BORE : 22,5 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
20	3/4	10	10	10	10	3,3		149B 1011	10	6,83		

CASING : PA12 (polyamid)
BORE : 28,8 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
25	1	10	10	10	10	3,3		149B 1012	10	15,86		

CASING : Brass
BORE : ref. 1013 - 38,5 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
30	1 1/4	10	10	10	10	3,3		149B 1013	10	21,72		
40	1 1/2	10	10	10	10	3,3		149B 1014	10	25,16		

ref. 1014 - 44,5 mm



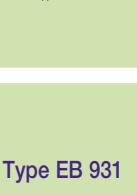
C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
50	2	10	10	10	10	3,3		149B 1863	6	67,29		

ref. 1863 - 50,5 mm



C	DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
25	1	10	10	10	10	3,3		149B 1023	50	6,99		

Type EB 921



Ref.	DN "	A mm	B mm	C mm	Kg	KV	ζ
1022J	1/2	18,5	17,0	6,0	0,011	3,30	23,30

Ref.	DN "	A mm	B mm	C mm	Kg	KV	ζ

<tbl_r cells="8"



Drilled flanges

PROTECTION OF DRINKING WATER NETWORKS

PRESSURE PFA in bar $\theta 65^\circ$

Double check valves made with 2 non-return valves type 453(*) coupled together.

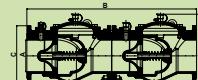
EC453/453



with PN10 flanges

DN "	PFA water mm	Ref.	U V	€
1½	40/50	16	149B 24796	1 1674,86
2½	60/65	16	149B 24797	1 1722,05
3	80	16	149B 24798	1 2291,22
4	100	16	149B 24799	1 3067,79
6	150	16	149B 24800	1 6802,76
8	200	10	149B 24801	1 11696,18
10	250	10	149B 24802	1 21217,84

TECHNICAL INFORMATION

Types
EC 453/453
flanges

A "	B mm	C mm	D mm	Kg
1½	40-50	402	165	17
2½	60-65	482	185	25
3	80	522	200	31
4	100	602	222	43
6	150	802	285	86
8	200	1002	340	132
10	250	1202	400	190

03 SYSTEM

BUILDING INDUSTRY, WATER SUPPLY,
PROTECTION OF DRINKING WATER NETWORKSPRESSURE PFA in bar $\theta 100^\circ$

APPROVALS :

A double check valve composed
of 2 standard range single
non return valve type 402 coupled together.

402B/402



with PN10 flanges

DN "	PFA water mm	Ref.	U V	€
2	50	16	149B 16023	1 503,03
2½	65	16	149B 16024	1 528,71
3	80	16	149B 16025	1 736,12
4	100	16	149B 16026	1 974,23
5	125	16	149F 020400	1 1571,87
6	150	16	149B 16028	1 1877,53
8	200	10	149B 96175	1 3009,19
10	250	10	149B 97019	1 4371,45
12	300	10	149B 97020	1 6526,40
14	350	10	149B 97021	1 12592,27
16	400	10	149B 97022	1 27172,03

TECHNICAL INFORMATION

Type 402B/402
flanges

A "	B mm	C mm	D mm	Kg
2	50	202	97	165
2½	65	242	125	185
3	80	282	150	200
4	100	342	187	220
5	125	402	220	250
6	150	462	260	285
8	200	578	340	340
10	250	704	420	405
12	300	792	490	485
14	350	946	586	555
16	400	1122	680	620

02 SYSTEM

Threaded female/female

BUILDING INDUSTRY, WATER SUPPLY,
PROTECTION OF DRINKING WATER NETWORKSPRESSURE PFA in bar $\theta 100^\circ$

APPROVALS :

A double check valve composed of 1 standard range single NRV type 202 and single NRV type 212 coupled together with screwed BSP end connections.

202B/212



female/female

\varnothing "	PFA water mm	Ref.	U V	€
2½	65	16	149B 96171	1 458,62
3	80	16	149B 96172	1 650,41
4	100	16	149B 96173	1 1107,40

TECHNICAL INFORMATION

Type 202B/212
female/female

A "	B mm	C mm	D mm	Kg
2½	65	263	97	5,9
3	80	312	125	11,1
4	100	365	150	17,9

02 SYSTEM

PROTECTION OF DRINKING WATER NETWORKS, BUILDING

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : DZR brass

Drilled boss 1/4", POM (polyacetal) plug

CLOSING SYSTEM : double check valve POM (polyacetal)

GUIDE : POM (polyacetal) / SEAL : NBR (nitrile) or EPDM lip-ring

APPROVALS :

ED2231



female/female

DN "	PFA water mm	PS L1 L2 G1 G2 Cat	Ref.	U V	€
1/2	10	10 10 10 10 3,3	149B 2790	10	31,33
3/4	10	10 10 10 10 3,3	149B 2791	10	49,75
1	10	10 10 10 10 3,3	149B 2792	10	71,61
1½	10	10 10 10 x 10 3,3	149B 2637	10	148,64
1½	10	10 10 x 10 3,3	149B 2638	6	183,60
2	10	10 10 x 10 3,3	149B 2639	6	291,07

TECHNICAL INFORMATION

Type ED2231
female/female

A "	B mm	C mm	D mm	Kg	KV m/H	ζ
1/2	15/21	59	26	38	0,130	2,4
3/4	20/27	90	32	43	0,280	5,0
1	26/34	105	40	49	0,500	9,3
1 1/4	33/42	146	48	57	0,700	19,0
1 1/2	40/49	175	55	62	1,010	25,0
2	50/60	196	67	77	1,560	36,8

Compression fitting

FOR DRINKING WATER PROTECTION, CLEAR LIQUIDS, WATER, GAS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : DZR brass

Drilled boss 1/4", POM (polyacetal) plug

CLOSING SYSTEM : double check valve POM (polyacetal)

GUIDE : POM (polyacetal) / SEAL : NBR (nitrile) or EPDM lip-ring

APPROVALS :

SPECIAL : MM 1/2" or fitting and screws,
copper pipe 15mm

01 SYSTEM

ED2211



compression fitting

DN "	PFA water mm	PS L1 L2 G1 G2 Cat	Ref.	U V	€
1/2	10	10 10 10 10 3,3	149B 2796	10	44,76

TECHNICAL INFORMATION

Type ED2211
compression fitting

A "	B mm	C mm	D mm	Kg	KV m/H	ζ
1/2	15	73	24	36	0,112	2,5



PRESSURE REDUCING VALVES

All pressure reducing valve bodies are made of bronze. Due to their design, they are **not affected by scale** or dirt, and do not need **any maintenance**. They are suitable for cold and hot water up to 80°C for maximum upstream pressure of 25 bar and reduce pressure between 0.5 and 6 bar. They can be installed in any position if flow direction stipulated by the arrow is respected.

They can be fitted on compressed air, neutral gases and fuel oil at ambient temperature circuits. Consult us for CE marking which is requested starting DN50 on compressed air and neutral gases applications. The ranges of figures 7, 8, 9, 10 and 11 are in accordance with the **european standard EN1567**. Series 11 and 11bis fulfil higher specification controlled by **NF** label.

All pressure reducing valve bodies are **guaranteed for 5 years**.

FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 25 bar Ø 80°C

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility of assembly of compensating spring to obtain settings at 0.5 bar

With 1/4" plugs on both sides to allow pressure gauge connection

Pre-set at 3 bar

CASING : bronze

SEAT : stainless steel DN 15 and 20

11 : male/male

11 BIS : female/female

11 EP : union-nut/male

APPROVALS : ACS NF : DN15-20-25
WRAS : (11 / 11BIS)

11



male/male

DN	Ref.	€
15	149B7054	112,02
20	149B7055	143,47
25	149B7489	197,75
32	149B7548	263,84
40	149B7567	459,09
50	149B7565	507,91

11RC

Ref.	€
149B7068	117,19
149B7069	149,77

female/female

DN	Ref.	€
15	149B7056	99,62
20	149B7057	131,20
25	149B7314	182,21
32	149B7549	257,24
40	149B7558	428,75
50	149B7561	468,33

11BIS RC

Ref.	€
149B7063	104,76
149B7064	137,59

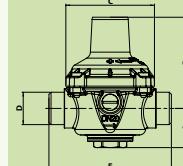
11EP

female/male

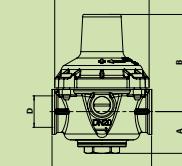
DN	Ref.	€
20	149B7511	143,47

TECHNICAL INFORMATION

Type 11
male/male



Type 11BIS
female/female

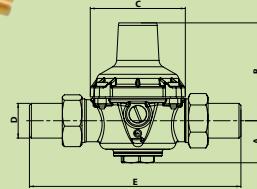


Type 11EP
female/male

DN	D	A	B	C	E	kg
15	15/21	1/2	31	60	59	66
20	20/27	3/4	32	73	100	76,5
25	26/34	1	40	94	122	98
32	33/42	1 1/4	51	179	104	126
40	40/49	1 1/2	46	185	104	132
50	50/60	2	54	194	104	146

TECHNICAL INFORMATION

Type 11DO
male/male



DN	D	A	B	C	E	kg
15	15/21	1/2	31	60	59	140
20	20/27	3/4	32	75	100	160
25	26/34	1	40	102	94	180
32	33/42	1 1/4	51	179	104	200
40	40/49	1 1/2	46	185	104	220
50	50/60	2	54	194	104	250

FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 25 bar Ø 80°C

Settings : from 1 bar to 5.5 bar (indicative value according to EN1567 standard)

Delivered pre-set at 3 bar

Equipped with 2 plugs 1/4" on each side to allow the mounting of a pressure gauge and 2 fittings removable

CASING : bronze

COVER : bronze
(*Cover : composite material)

SEAT : stainless steel

APPROVAL : ACS WRAS NF : DN15-20-25

11DO

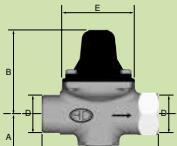


male/male

DN	Ref.	€
20	149B7218	144,24

TECHNICAL INFORMATION

Type 5 SP
male/female



DN	D	A	B	C	E	kg
20	20/27	3/4	29	58	82	50

SECUR

PROTECTION OF INDIVIDUAL DEVICE, WATER HEATER

MAXIMUM UPSTREAM PRESSURE 16 bar Ø 80°C

1/4" pressure gauge connection and drain at the bottom of the casing

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility to set-up pre-set at 3 bar downstream

CASING : chrome plated bronze

Upstream connection : male, downstream : with union nut

APPROVAL : ACS

5 SP



male/female

DN	Ref.	€
20	149B7312	44,09

**MULTI 7****FLATS AND HOUSES
INDIVIDUAL WATER SUPPLY**

MAXIMUM UPSTREAM PRESSURE 16 bar Ø 80°C

With 1/4" plugs on both sides to allow pressure gauge connection

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility to set-up pre-set at 3 bar downstream

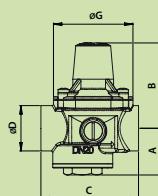
CASING : Bronze

Delivered with 3 nuts allowing 16 different connecting possibilities in 1/2" and 3/4"

APPROVAL : ACS

MULTI 7**multi-connections**

DN	Ref.	€
20	149B7540	76,18

TECHNICAL INFORMATION

Type MULTI 7 multi-connections

DN	D	A	B	C	G
mm	"	mm	mm	mm	mm
20	20/27	3/4	33	61	57

JUNIOR**FLATS AND HOUSES
INDIVIDUAL WATER SUPPLY**

MAXIMUM UPSTREAM PRESSURE 16 bar Ø 80°C

With 1/4" plugs on both sides to allow pressure gauge connection

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility to set-up pre-set at 3 bar downstream

CASING : bronze

APPROVAL : ACS

7BIS : female/female

7EP : union-nut/male

7SP : male/union-nut

7BIS**female/female**

DN	Ref.	€
15	149B7209	57,74
20	149B7210	66,37
25	149B7552	92,91
32	149B7553	171,89
40	149B7554	244,06
50	149B7555	366,16

7EP**female/male**

DN	Ref.	€
15	149B7211	70,98
20	149B7212	81,93

7SP**male/female**

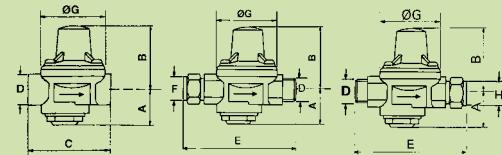
DN	Ref.	€
20	149B7248	81,93

TECHNICAL INFORMATION

Type 7BIS female/female

Type 7EP female/male

Type 7SP male/female



D	DN	A	B	C	E	F	G	H	Kg 7BIS	Kg 7EP	Kg 7SP
mm	"	mm	mm	mm	mm	"	mm	"			
15	15/21	1/2	30	56	64,5	92	3/4	50	-	0,5	0,5
20	20/27	3/4	33,5	61	70	95	3/4	57	3/4	0,6	0,8
25	26/34	1	30	68	81	-	-	70	-	0,95	-
32	33/42	1 1/4	34,5	91	97	-	-	81	-	1,55	-
40	40/49	1 1/2	36,5	106	110	-	-	92	-	2,05	-
50	50/60	2	45,5	106	135	-	-	120	-	3,70	-

PRESSADE**GAUGES****212AD**

Ref.	€
149B7145	49,43

«PRESSADE» gauge for quick inspection of pressure on any orifice from 8 to 20 mm

Rubber connection - Exclusive patent

Dial from 0 to 10 bar

FLOWMETER**777**

Direct reading indicating instant flow rate, up to 25 l/min on domestic taps.

Exclusive patent, ABS material

Possibility of customisation (colour and marking) depending on quantities. Consult us

Ref.	€
149B7216	36,75

SHOWER POSITIONER**6254**

Shower positioner to orientate in any position.

Exclusive patent.

For mixing taps and downwards shower taps.

Compatible with any showers connected to flexible hose with conic threads

Upstream union nut 15/21, downstream 15/21 male

APPROVAL : ACS

Ref.	€
149B7208 chrome pl.	13,35

WATER HAMMER ARRESTORS

Range especially designed for plumbing : LONG-LASTING EFFICIENCY AND MAINTENANCE FREE

See page 68

GAUGES

COMPLETE RANGE OF GAUGES WITH CENTRAL NEEDLE

See page 69

PRESSURE REDUCING VALVES

ALL THE DESBORDES RANGE

See page 64



Water meters

All our water meters are allmarked and are EC approved (the price list in inclusive checking tax). Working temperature : 50°C for cold water types, 90°C for hot water types. The class of accuracy defines the deviation of the measure compared to real flow rate. It is at the start up of the water meters that deviations occur.

Reminder : the connection diametre of the water meter is always over the internal bore of the meter.

bore	threads
DN 15	20/27
DN 20	26/34
DN 25	33/42
DN 32	40/49
DN 40	50/60
DN 50	66/76

Individual water meters

Whatever they are named (sub-metre, individual, splitting meters), they allow the measure of each individual consumption and accurate invoicing.



SPEED TURBINE METERS WITH SINGLE JET

MAXIMUM WORKING PRESSURE 10 bar Ø 50°C

Oriental dry dial

Direct reading with numeric rolls (except L80 and L130 with rolls and needle) - Counting in litre

3499 DF/RF : Class B in horizontal installation
Class A in all other positions

3499 RC : Class A in any positions

APPROVAL : ACS

3499 RF/DF : Water meters for cold water (50°C)

3499 RC : Water meters for hot water (80°C)

* 3499 DF (L80) : On request, option for hot water

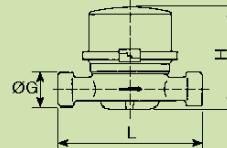
3499 RF/RC



TECHNICAL INFORMATION

Ø G	L	H	Kg
3/4 "	20/27	80	0,34
3/4 "	20/27	110	0,36
1 "	26/34	130	0,53

Types 3499 DF
3499 RF/RC



SPEED TURBINE METERS WITH SINGLE JET

MAXIMUM WORKING PRESSURE 10 bar Ø 50°C/90°C

Type «ECO» with Oriental dry dial - Direct reading with numeric rolls and needle - Magnetic transmission - Counting in litre

5499 EF : Class B in horizontal installation
(Class A in all other positions)

5499 EC : Class A in any positions

APPROVAL : ACS

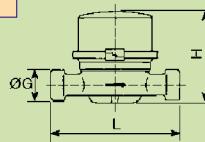
5499 EF/EC



TECHNICAL INFORMATION

Ø G	L	H	Kg
3/4 "	20/27	110	0,36

Type 5499 EF/EC



VOLUMETRIC ROTARY PISTON METER

MAXIMUM WORKING PRESSURE 16 bar Ø 50°C

DIRECT MAGNETIC TRANSMISSION

Counter extra-dry, anti-condensation protection, water meter for cold water, class C in any positions - Counting in litre

APPROVAL : ACS

1499 DF



TECHNICAL INFORMATION

DN	A	B	C	D	E	Kg
3/4 "	20/27	100	125	185	105	0,95
3/4 "	20/27	100	125	185	165	2,05

Type 1499 DF



PULSE COUNTER

3499 IMP



ACCESSORIES FOR WATER METERS

499 BA



MAXIMUM WORKING PRESSURE 10 bar Ø 50°C

METER pre-equipped with pulse generator (cable 2m)

The value of the pulse (10 liters or 100 liters) has to be specified at order

APPROVAL : ACS

male/male

DN	L	Ref.	€
15	110	149B7262	213,55

SAFETY RING for 20/27 nut in 15 mm gauge

Ref.	€
149B7241	2,52

ACCESSORIES FOR WATER METERS

499 RA



ACCESSORIES FOR WATER METERS

498 EC



THREADED CONNECTION NUT

Packing by 2 pieces (kit including : fitting + nuts + seals)

DN

Female

Male

Ref.

€

20/27	15/21	149B7126	5,80
26/34	20/27	149B7127	8,80
33/42	26/34	149B7128	16,36
40/49	33/42	149B7129	28,05
50/60	40/49	149B7130	37,54
66/76	50/60	149B7131	105,62

CONNECTION PIPE in plastic material

3/4" male/male threaded connection

L	Ref.	€
110	149B7188	5,88
170	149B7189	7,04



Water intake meters

Those water meters are available from DN 15 upto DN 50, and are approved by water companies and municipalities for the measuring to main users (multi-store buildings, industries, etc ...)

TURBINE WATER METERS WITH MULTIPLE JETS

MAXIMUM WORKING PRESSURE 16 bar Ø 50°C

Immersed dial

Direct reading by 5 numeric rolls

Direct transmission

Water meter for cold water

499 DFB : Class B in horizontal installation

499 DFC : Class C in horizontal installation

APPROVAL : ACS

On request : hot water and dry dial.

499 DFB



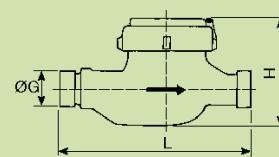
male/male

DN mm	L mm	Ref.	€
25	260	149B7231	191,73
32	260	149B7232	197,58
40	300	149B7233	354,84
50	300	149B7234	696,76

TECHNICAL INFORMATION

NPT threads G c "	mm	L mm	H mm	Kg
15	3/4	20/27	170	1,25
20	1	26/34	190	1,30
25	1 1/4	33/42	260	1,95
32	1 1/2	40/49	260	2,00
40	2	50/60	300	4,30
50	2 1/2	66/76	300	4,50

Types 499 DFB
499 DFC



WOLTMAN WATER METERS

MAXIMUM WORKING PRESSURE 16 bar Ø 50°C

Dry dial

Direct reading by numeric rolls

Magnetic transmission

Water meter for cold water

Class B in any positions

APPROVAL : ACS

PULSE METER (2499 IMP)

Water meter with integrated pulse generator (cable 2m)

DN50 to 80 pulse 10L and 100L - DN100/150 pulse 100L and 1000L

The value of the pulse has to be specified when ordered

AGREEMENT : ACS

2499 DF



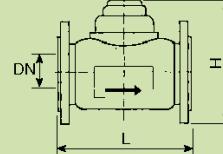
with PN 16 flanges

DN mm	L mm	Ref.	€
50	200	149B7235	1052,84
65	200	149B7236	1172,61
80	225	149B7237	1292,88
100	250	149B7253	1403,50
150	300	149B7261	2315,03
200	350	149B7321	3010,25

TECHNICAL INFORMATION

DN "	mm	L mm	H mm	Kg
2	50	200	200	10,60
2 1/2	65	200	208	11,60
3	80	225	255	15,40
4	100	250	275	17,70
6	150	300	305	31,50
8	200	350	375	46,00

Type 2499 DF



PULSE WATER INTAKE METERS

WATER METER with integrated pulse generator (cable 2m)

The value of the pulse (10 l / 100 l) has to be specified when ordered

APPROVAL : ACS

499 IMP



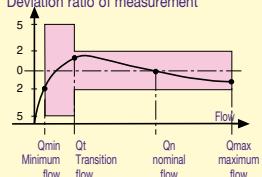
male/male

DN	L	Réf.	€
15	170	149F026907	316,22
20	190	149B7405	321,52
25	260	149B7518	472,29
30	260	149B7361	485,81
40	300	149B7407	733,36

CLASS OF WATER METER

CLASS A : The class A is mainly dedicated to INDIVIDUAL water meters.

Deviation ratio of measurement



The volumetric class A, B or C defines the accuracy of the measuring compared to real flow. It is at the start of measurement that deviation occur. For each flow category, the accuracy must be red in the pink area.

CLASS B :

DN	15	20	25	30	40	50
Qmin	30	50	70	120	200	300
Qt	120	200	280	480	800	1200

DN	15	20	25	30	40	50
Qn	1,5	2,5	3,5	6	10	15
Qmax	3	5	7	12	20	30

DN	15	20	25	30	40	50
Qmin	15	25	35	60	100	
Qt	22,5	37,5	52,5	90	150	

Qmin and Qt in litre/h. Qn and Qmax in m/h

CLASS C :

DN	15	20	25	30	40	50
Qn	1,5	2,5	3,5	6	10	15
Qmax	3	5	7	12	20	30

SPEED METERS

The water drives the turbine blades. The speed of rotation of the the flow rate.



Single jet system : The fluid vein pushes the blades one after the other.



Multi-jet system : The fluid vein is dispatched and pushes each blade at the same time.



Woltman System : Dedicated to flow rates over 15 m³/h. The fluid vein makes a screw turn in the horizontal axis of the meter. When installing, is recommended to keep a straight pipeline of at least 3 times the diameter upstream, and 1,5 time downstream.

VOLUMETRIC METERS

The water drives a rotative piston which delivers a constant quantity of water on each turn.



The accuracy of measuring for very low flow is improved. But it is more sensitive to sand and dust in the water.

As it is more noisy, it is not used in domestic installations.

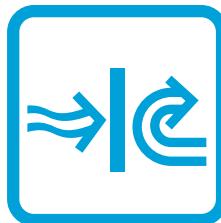
The dial is called «Dry dial» when the mechanism is completely immersed, and is therefore not sensitive to opacity the dial. The reading remains perfect in the lifetime of the meter. Transmission to the counter is magnetic type.

The dial is called «immersed dial» when the water fills the mechanism up to the glass.



There is no universal check valve

The check valve appears to be a simple device. Broadly speaking, it functions like a door which opens one way. In truth, the valve has to adapt to many different types of installation, each with their own specific characteristics whether mechanical, hydraulic, physical or chemical. Hence different closing systems for one function : preventing any reverse flow of fluid in these installations.



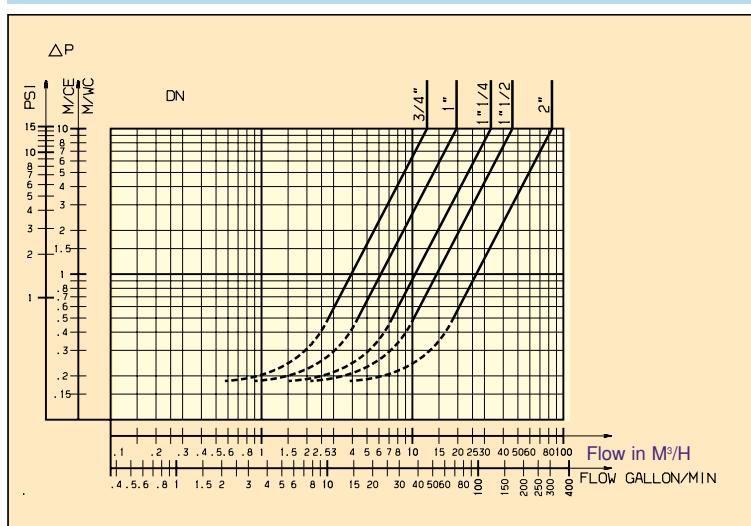
Closing system	FLUID TYPE	operation position	T°C	PFA (PS acc.to PED)	PAGES	
					clear	loaded
01 	NON-RETURN VALVES	■		60/80	10	23 to 25
02 	NON-RETURN VALVES FOOT VALVES	■	■	80/140	16/25/40	26 to 31
03 + 03HP 	NON-RETURN VALVES	■	■	80/90 110/230	16	32
05 double plate 	NON-RETURN VALVES	■	■	100/130	16/25	33 to 34
05 single plate 	NON-RETURN VALVES	■		110/180	16	35
05 single plate 	NON-RETURN VALVES	■	■	70	16	36
B 	NON-RETURN VALVES FOOT VALVES		■	60/150	10	37 to 40
M + MI 	NON-RETURN VALVES FOOT VALVES	■	■	60/100 6 (M) 16 (M) 25 (M)		41 to 44
TJ 	FOOT VALVES	■		↑	60	6/10
TJO + FL +04 	NON-RETURN VALVES FOOT VALVES	■		60/80	10	46 to 49
W 	NON-RETURN VALVES	■	■	100/350	16/40	50 to 51
	FILTERS STRAINERS					52 to 53



01 SYSTEM

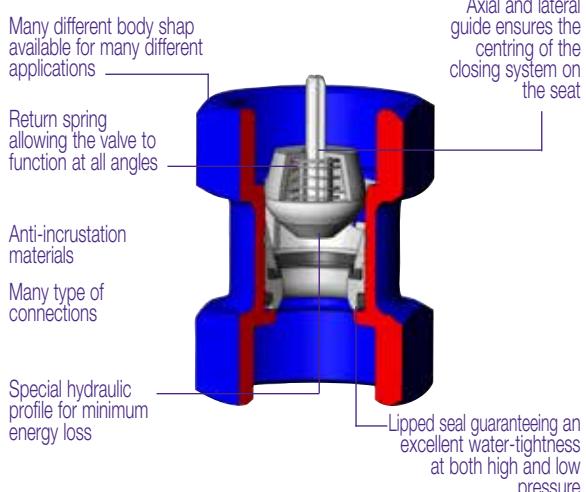
- Excellent sealing for high or low pressure
- NF (French national standard) antipollution approved in most European countries
- Many special versions available

HEADLOSS CHART



TYPE EA 221B

NON-RETURN VALVE



The closing system of the 01 system series non return valves has been developed to meet the requirements of NF EN 13959 standard.

TYPE	BRASS CASING	PVC CASING	DZR BRASS CASING	POLYACETAL	CONNECTION	DOUBLE CHECK VALVE	CHAPTER
601	●				F/F		
601V	●				F/F		
601P		●			F/F		
EA251	●				F/M		
281P				●	M/F		
211			●		C/C		
EA251	●				F/M		
EA271	●				M/M		
EA221B	●				F/F		
EB201	●				F/M		
2231			●		F/F	●	
2211			●		C/C	●	
EB241	●				M/M		
EB261	●				M/M		
EB231	●				F/F		
281	●				M/F		
281C	●				M/F		

NON-RETURN



PROTECTION



See from page 11 to page 15

Threaded female/female

HOUSING, WATER DISTRIBUTION,
HEATING, INDUSTRY

PRESSURE PFA/PS in bar

T°C 80°

CASING : brass

CLOSING SYSTEM : POM (polyacetal)

GUIDE : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR

APPROVALS :

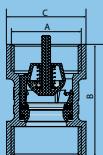
601



female/female

DN "	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	U	V	€
3/8	10	10	10	10	10	3.3	149B 2503	10	10,66	
1/2	10	10	10	10	10	3.3	149B 2504	10	11,10	
3/4	10	10	10	10	10	3.3	149B 2505	10	13,47	
1	10	10	10	10	10	3.3	149B 2506	10	16,95	
1 1/4	10	10	10	x	10	3.3	149B 2507	8	24,73	
1 1/2	10	10	10	x	10	3.3	149B 2508	6	33,05	
2	10	10	10	x	10	3.3	149B 2509	6	50,72	

TECHNICAL INFORMATION

Type 601
female/female

A "	B mm	C mm	Kg	KV m³/H	ζ
3/8	12/17	38	22	0,060	3,2
1/2	15/21	41	26	0,090	4,4
3/4	20/27	42	30	0,100	6,7
1	26/34	47	37	0,150	11,9
1 1/4	33/42	55	47	0,275	17,4
1 1/2	40/49	78	55	0,315	29,0
2	50/60	89	67	0,490	46,5

HEATING, CIRCULATING PUMPS,
HYDROCARBONS PUMPING, INDUSTRY

PRESSURE PFA/PS in bar

T°C 80°

CASING : brass

CLOSING SYSTEM : POM (polyacetal)
or PPO (polyphenylen oxide)

GUIDE : POM (polyacetal)/PA

SPRING : stainless steel

SEAL : FKM

APPROVAL :



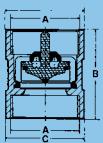
601V



female/female

DN "	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	U	V	€
3/8	10	10	10	10	10	3.3	149B 2447	10	10,66	
1/2	10	10	10	10	10	3.3	149B 2448	10	11,10	
1	10	10	10	10	10	3.3	149B 2450	10	21,01	
1 1/2	10	10	10	x	10	3.3	149B 2452	6	45,40	

TECHNICAL INFORMATION

Type 601V
female/female

A "	B mm	C mm	Kg	KV m³/H	ζ
3/8	12/17	38	22	0,060	3,2
1/2	15/21	41	26	0,090	4,4
1	26/34	47	37	0,150	11,9
1 1/2	40/49	78	55	0,315	29,0

HOUSING, WATER
DISTRIBUTION, PUMPING

PRESSURE PFA/PS in bar

T°C 60°

CASING : PVC

CLOSING SYSTEM : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR (nitrile) lip-ring

GUIDE : PPO (polyphenylen oxide)

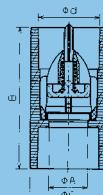
601P



female/female to be stuck

DN "	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	U	V	€
1/2	10	10	10	10	10	3.3	149B 2044	1	14,49	
1	10	10	10	10	10	3.3	149B 2045	1	25,86	
1 1/4	10	10	10	x	10	3.3	149B 2046	1	35,38	

TECHNICAL INFORMATION

Type 601P
female/female

A "	d mm	B mm	C mm	D mm	Kg
1/2	20	57	25	16	0,050
1	32	75	40	22	0,075
1 1/4	40	94	50	26	0,095

EA291NF

FOR DRINKING WATER PROTECTION,
CLEAR LIQUIDS, WATER, GAS

See page 12

EA271

HOUSING, WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER

See page 12

EA221B

HOUSING, WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER,
INDUSTRY

See page 12

ED2231

HOUSING, PROTECTION OF
DRINKING WATER

See page 17

EB261

HOUSING, WATER DISTRIBUTION,
INDUSTRY

See page 14

EB241



HOUSING, WATER DISTRIBUTION

See page 14

EB201

HOUSING, WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER

See page 14

**Threaded female/male**

HOUSING, WATER DISTRIBUTION, PROTECTION OF
DRINKING WATER NETWORKS (AFTER WATERMETER)

PRESSURE PFA/PS in bar T°C 80°

CASING : brass with union nut

2 drilled bosses 1/4"

PPA Plugs,

CLOSING SYSTEM + GUIDE : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR (nitrile) lip-ring

APPROVALS :



kiwa
BUREAU
VERITAS

EA251**female/male**

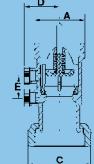
DN	PFA	PS		Cat	Ref.	U	V	€
C	"	water	L1	L2	G1	G2		
15	3/4	10	10	10	10	3.3	149B 2111	10 12,39
20	1	10	10	10	10	3.3	149B 2112	10 30,65
25	1 1/4	10	10	10	10	3.3	149B 2113	10 84,21
30	1 1/2	10	10	10	x	10	3.3	149B 2114 6 107,23
40	2	10	10	10	x	10	3.3	149B 2115 6 127,18

C = watermeter

+ See page 11

TECHNICAL INFORMATION

Type EA251
female/male



DN	A	B	C	D	E	Kg	KV	ζ
C	R	mm	mm	mm	mm	m³/H		
15	3/4	20/27	78	30	22	26	0,18	7,0
20	1	26/34	81	37	27	26	0,30	11,8
25	1 1/4	33/42	89	46	31	30	0,50	15,4
30	1 1/2	40/49	99	55	31	30	0,67	25,1
40	2	50/60	105	65	36	32	1,10	34,9

C = watermeter

Threaded male/female

HOUSING, WATER
DISTRIBUTION, PUMPING

PRESSURE PFA 10 bar T°C 65°

CASING : POM (polyacetal)

CLOSING SYSTEM + GUIDE : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR (nitrile) lip-ring

APPROVAL :

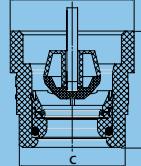
BUREAU
VERITAS**281P****male/female**

DN		Ref.	U	V	€
"					
1 1/4		149B 2292	1		26,59

+ See page 15

TECHNICAL INFORMATION

Type 281P
male/female



A	B	C	Kg	KV	ζ
Male	Female	mm	mm	m³/H	
1 1/4	1 1/4	46	49	0,048	16,7
					5,9

With compression fittings

CLEAR LIQUIDS, WATER, GAS, PROTECTION OF
DRINKING WATER NETWORKS, HEATING, INDUSTRY

PRESSURE PFA/PS in bar T°C 80°

CASING : DZR brass

(brass with persistent zinc)

Equipped with nut connections and compression
rings for copper tube

CLOSING SYSTEM + GUIDE : POM (polyacetal) or PPO

SPRING : stainless steel

SEAL : EPDM or NBR (nitrile) lip-ring

APPROVALS :

ACS
BUREAU
VERITAS**211****with compression fittings**

A mm external Ø pipe	PFA water	PS		Cat	Ref.	U	V	€
	L1	L2	G1	G2				
8	10	10	10	10	3.3	149B 2079	10	31,22
10	10	10	10	10	3.3	149B 2080	10	32,31
12	10	10	10	10	3.3	149B 2081	10	35,10
15	10	10	10	10	3.3	149B 2082	10	40,57
22	10	10	10	10	3.3	149B 2083	10	51,58
28	10	10	10	x	3.3	149B 2084	10	57,08

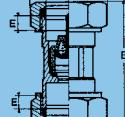
Other approvals available : Consult us

kiwa **VD****211BL****with compression fittings**

A mm external Ø pipe	PFA water	PS		Cat	Ref.	U	V	€
	L1	L2	G1	G2				
15	10	10	10	10	10	3.3	149B 3130	10 42,59
22	10	10	10	10	10	3.3	149B 3131	10 54,15

TECHNICAL INFORMATION

Type 211
with compression
fittings



A	B	C	E	Kg	KV	ζ
mm	mm	mm	mm	mm	m³/H	
8	54,0	20	6,0	0,070	0,80	3,2
10	57,5	20	7,5	0,095	1,70	5,4
12	59,0	20	7,5	0,070	2,65	4,6
15	61,0	24	12,5	0,110	2,90	9,4
22	64,0	32	12,5	0,160	5,50	12,1
28	64,0	41	12,5	0,240	8,60	13,0

INSERT VALVES**EB901**TO BE INSERTED, PROTECTION OF
WATERMETER

See page 16

EB931TO BE INSERTED, PROTECTION OF
WATERMETER

See page 16

EB911TO BE INSERTED, PROTECTION OF
WATERMETER

See page 16

EB921TO BE INSERTED, PROTECTION OF
WATERMETER

See page 16

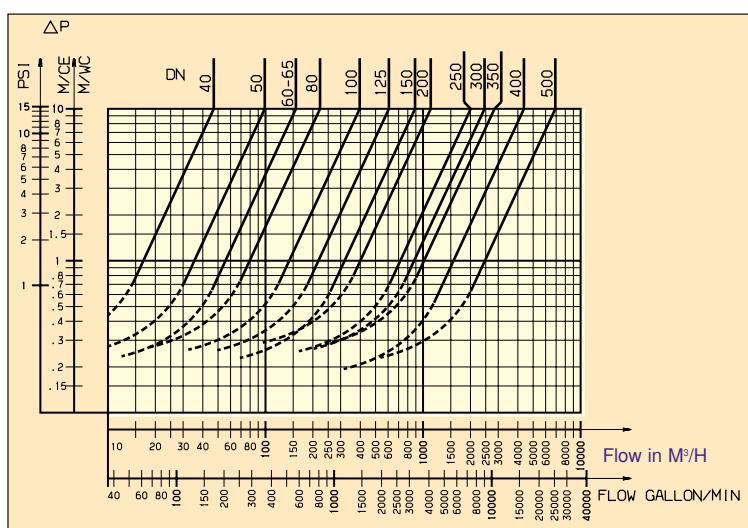


SYSTEM 02

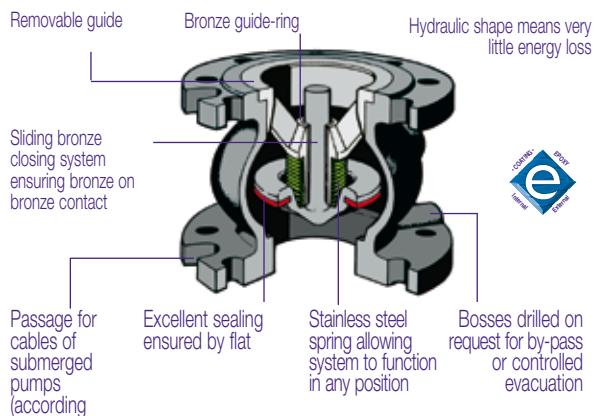
- Valve with very wide range of applications
- Prevents water hammering
- Noiseless operation
- A quality, value for money choice

HEADLOSS CHART

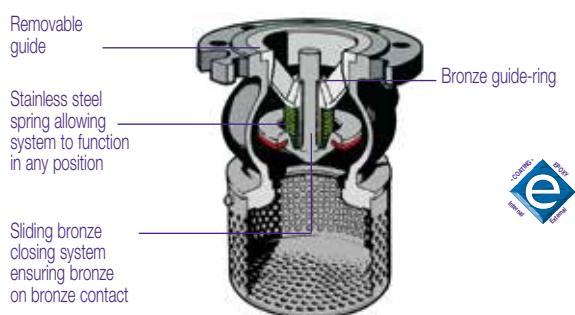
TYPE 402



NON-RETURN VALVE

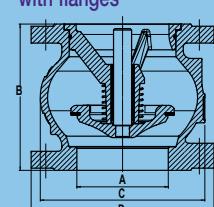


FOOT VALVES



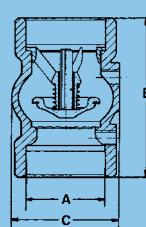
TECHNICAL INFORMATION

Types
402 - 402B - 402V
402RR - 402S* - 402Z
402TTP - 422
with flanges



* only for type 402S

Types
202 - 202 TTP - 202V
female/female



A "	B mm	C mm	D mm	D ₂ mm	Kg	KV m ³ /H	ζ
21/2	65	148	97	3,2	81	4,2	
3	80	174	125	5,8	123	4,2	
4	100	203	150	9,2	203	3,8	



WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

PRESSURE PFA/PS in bar **Ø 100°**

BODY WITH INTEGRATED ONE-ARM GUIDE : GJL
cast iron, epoxy coated

Face to face dimensions according to EN558-1 serie 14

SEAL : EPDM

CLOSING SYSTEM : Brass

RING + STEM : Bronze - SPRING : Stainless steel

APPROVALS : PED 97/23/CE

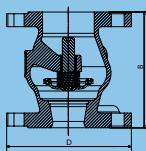
462



with PN 10 flanges

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	16	16	16	16	16	I	149B 3751	1	164,60	
2½	65	16	16	16	16	16	I	149B 3752	1	164,60	
3	80	16	16	16	12	16	I	149B 3753	1	247,00	
4	100	16	16	16	10	16	I	149B 3754	1	343,59	
5	125	16	16	16	0,5	16	I	149B 3755	1	590,84	
6	150	16	13	16	0,5	16	I	149B 3756	1	740,99	
8	200	10	10	10	0,5	10	I	149B 3757	1	1181,90	

TECHNICAL INFORMATION



Type 462
with flanges

DN	B	D	Kg	KV	ζ
2	50	150	165	6,70	69
2½	65	170	185	9,30	125
3	80	180	200	10,90	157
4	100	190	220	14,30	350
5	125	200	250	20,90	582
6	150	210	285	27,70	710
8	200	230	340	40,70	1031

WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

PRESSURE PFA/PS in bar **Ø 100°**

CASING : GJL cast iron, epoxy coated - 2 undrilled bosses

SEAL : EPDM - SPRING : stainless steel (type 202)

Type 402 :

CLOSING SYSTEM DN 40 brass, DN 50 and 65 bronze,
other DN : cast iron with bronze stem

GUIDING : DN 50 bronze, other DN : cast iron with bronze ring

Type 202 :

CLOSING SYSTEM : DN 2½ & 3" bronze, DN 4" cast iron with bronze stem
GUIDING : DN 2½ bronze, other DN cast iron with bronze ring

APPROVALS : PED 97/23/CE

402



with PN 10 flanges

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1½	40	16	16	16	16	16	I	149B 2281	1	168,82	
2	50	16	16	16	16	16	I	149B 2282	1	188,39	
2½	60	16	16	16	16	16	I	149B 1176	1	188,39	
3	80	16	16	16	15	16	I	149B 2283	1	188,39	
4	100	16	16	16	16	16	I	149B 2284	1	282,65	
5	125	16	16	16	15	16	I	149B 2285	1	325,05	
6	150	16	16	16	16	16	II	149B 2284C2	1	393,24	
8	200	10	10	10	10	16	I	149B 2285	1	452,23	
10	250	10	10	10	10	10	II	149B 2286C2	1	676,18	
12	300	10	10	10	10	10	II	149B 2287C2	1	777,61	
14	350	10	10	10	0,5	16	I	149B 2288C2	1	848,01	
16	400	10	10	10	0,5	16	I	149B 2289C2	1	975,22	
20	500	10	10	10	0,5	10	II	149B 2290C2	1	1352,60	
20	500	10	10	10	0,5	10	II	149B 2291C2	1	2001,99	
20	500	10	10	10	0,5	10	II	149B 2292C2	1	2997,43	
20	500	10	10	10	0,5	10	II	149B 2293C2	1	5826,82	
20	500	10	10	10	0,5	10	II	149B 2294C2	1	12664,55	
20	500	10	10	10	0,5	10	II	149B 2295C2	1	34280,68	

female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2½	65	16	16	16	15	16	I	149B 2286	1	201,91	
3	80	16	16	16	16	16	I	149B 2287	1	312,38	
4	100	16	16	16	10	16	I	149B 2288	1	502,19	

Other approvals available :

Consult us.

OPTIONS : 202B two drilled and plugged bosses
202Z all bronze
202RR rilsan coated

BOOSTING UNITS PUMPING, WATER DISTRIBUTION, INDUSTRY

PRESSURE PFA 40 bar / PS in bar **Ø 100°**

CASING : GJS ductile iron epoxy coated

SEAL : EPDM

CLOSING SYSTEM : DN 65 bronze, other DN cast iron

GUIDING SYSTEM : cast iron, bronze guiding ring

APPROVALS : PED 97/23/CE

SPECIAL : PN for Ø 200 and 250 (see technical information)

*PN 10-16 ASA 150 - **PN 25 - ***PN 40 - ****PN 10-16-40 ASA 150

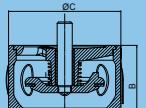
882



between flanges PN10-16-25-40-ASA 150

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2½	65	40	30	40	15	40	I	149B 3040	1	169,67	
2½	65	40	40	40	40	40	II	149B 3040C2	1	193,29	
3	80	40	25	40	12	40	I	149B 3041	1	226,22	
3	80	40	40	40	40	40	II	149B 3041C2	1	260,15	
4	100	40	20	40	10	40	I	149B 3042	1	271,43	
4	100	40	40	40	40	40	II	149B 3042C2	1	312,16	
5	125	40	16	40	0,5	28	I	149B 3043	1	444,67	
5	125	40	40	40	28	40	II	149B 3043C2	1	511,37	
6	150	40	13	40	0,5	23	I	149B 3044	1	553,29	
6	150	40	40	40	23	33	II	149B 3044C2	1	636,24	
8	200	16	16	16	16	16	I	149B 3045	1	983,97	
8	200	25	25	25	17	25	II	149B 007936**	1	983,97	
8	200	40	40	40	17	25	II	149B 007937**	1	983,97	
10	250	40	40	40	14	20	II	149B 3046****	1	1374,26	
10	250	25	25	25	0,5	11	I	149B 2298	1	1374,26	

TECHNICAL INFORMATION



Type 882
between flanges

A	B	C mm	Kg
65	75	126	121
80	85	142	142
100	105	162	170
125	90	194	194
150	106	218	222
200	140	-	273
200	140	-	289
250	200	-	339
250	200	-	352

A	B	C mm	Kg
3	80	142	142
4	100	162	170
6	150	218	225
8	200	273	273
10	250	328	339
10	250	140	355
12	300	381	405
14	350	440	440
14	350	222	460
16	400	493	513
20	500	596	596

BOOSTING UNITS PUMPING, WATER DISTRIBUTION, INDUSTRY

PRESSURE PFA/PS en bar **Ø 100°**

CASING + SEAT : GJS ductile iron epoxy coated

SEAL : EPDM - GUIDE : Bronze

CLOSING SYSTEM : Stainless steel

NUTS + SPRING : Stainless steel

LIFTING EYES : Galvanised steel

Reduces the water hammers

APPROVALS : ACS PED 97/23/CE

892



between flanges PN10-16-25-40-ASA 150

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
3	80	40	25	40	12	40	I	149B 2731	1	400,03	
4	100	40	20	40	10	35	I	149B 2732	1	501,62	
6	150	25	13	25	0,5	23	I	149B 2734	1	800,04	
6	150	40	13	40	0,5	23	I	149B 2735	1	800,04	
8	200	16	10	16	0,5	16	I	149B 2467	1	1413,17	
8	200	40	10	40	0,5	17</					

PROTECTION OF DRINKING WATER
NETWORKS, WATER DISTRIBUTION, INDUSTRY

402B



PRESSURE PFA/PS in bar Θ 100°

CASING : GJL cast iron epoxy coated

Two threaded and plugged bosses 1/2"

CLOSING SYSTEM + GUIDING SYSTEM + SEAL :
the same as valve type 402APPROVALS : PED 97/23/CE

Other approval available :



Consult us.

with PN10 flanges

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
1½	40	16	16	16	16	I	149B 2281 B	1 194,14
2	50	16	16	16	16	I	149B 2351	1 215,48
2½	65	16	16	16	15	I	149B 2352	1 226,26
3	80	16	16	16	12	I	149B 2353	1 226,26
4	100	16	16	16	10	I	149B 2355	1 320,18
5	125	16	16	16	0,5	I	149B 2226 B	1 734,99
6	150	16	13	16	0,5	I	149B 2227 B	1 921,45
8	200	10	10	10	0,5	I	149B 2230 B	1 1461,87
10	250	10	10	10	0,5	I	149B 2230 B	1 2159,19
12	300	10	10	10	0,5	I	149B 2231 B	1 3185,04
14	350	10	10	10	0,5	I	149B 2232 B	1 6143,98
16	400	10	10	10	0,5	I	149B 2233 B	1 13304,10
20*	500	10	10	10	0,5	I	149B 2235 B	1 35568,71

*Casing : GJS ductile iron epoxy coated

HIGH PRESSURE, PUMPING, WATER
DISTRIBUTION, INDUSTRY

402S



PRESSURE PFA/PS in bar Θ 100°

Up to 150 mm : PN 25-40

From 200 to 500 mm : PN 25

CASING : GJS ductile iron epoxy coated

Two undrilled bosses

CLOSING SYSTEM : DN40 brass, DN50
to 250 bronze, DN350 to 500 GJS ductile ironGUIDE + SEAL :
the same as valve type 402APPROVALS : PED 97/23/CE

CHEMISTRY, CORROSIVE PRODUCTS,
HYDROCARBONS, INDUSTRY

402X



PRESSURE PFA/PS in bar Θ 140°

CASING : stainless steel

Other materials, consult us

Two undrilled bosses

CLOSING SYSTEM + GUIDING SYSTEM :
304 stainless steel

SEAL : FKM

APPROVALS : PED 97/23/CE

INDUSTRIAL SERVICES, INDUSTRY

PRESSURE PFA/PS in bar Θ 100°

CASING : GJL cast iron inside and outside PTFE coated

Two threaded bosses 1/4" sealed with plugs

SEAL : EPDM

CLOSING SYSTEM + GUIDING SYSTEM :
GJL cast iron PTFE coatedAPPROVALS : PED 97/23/CE

with PN10 flanges

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
2	50	16	16	16	16	I	149B 2853	1 443,30
2½	65	16	16	16	15	I	149B 2854	1 443,30
3	80	16	16	16	12	I	149B 2855	1 654,31
4	100	16	16	16	16	I	149B 2856	1 932,08
5	125	16	16	16	16	I	149B 2857	1 1457,72
6	150	16	13	16	0,5	I	149B 2858	1 1815,56
8	200	10	10	10	0,5	I	149B 2859	1 2747,91
10	250	10	10	10	0,5	I	149B 2860	1 3681,93
12	300	10	10	10	0,5	I	149B 2861	1 4692,40
14	350	10	10	10	0,5	I	149B 2862	1 13513,41
16	400	10	10	10	0,5	I	149B 2863	1 24193,56

* Consult us

Other approval available :



Consult us.

FOOD INDUSTRY, WATER
DISTRIBUTION AND INDUSTRY,

402RR



PRESSURE PFA/PS in bar Θ 80°

CASING : GJL cast iron PA

(polyamid) coating

CLOSING SYSTEM : 304 Stainless steel

SEAL : EPDM

GUIDING SYSTEM : DN 2" in bronze,
other DN in cast iron with stainless steel ringAPPROVALS : PED 97/23/CE

Other approval available :



Consult us.

with PN10 flanges

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
1½	40	16	16	16	16	I	149B 2281 RR	1 807,29
2	50	16	16	16	16	I	149B 2282 RR	1 807,29
2½	65	16	16	16	15	I	149B 2283 RR	1 868,14
3	80	16	16	16	12	I	149B 2284 RR	1 1118,28
4	100	16	16	16	10	I	149B 2285 RR	1 1503,08
5	125	16	16	16	0,5	I	149B 2226 RR	1 1963,27
6	150	16	13	16	0,5	I	149B 2227 RR	1 2373,87
8	200	10	10	10	0,5	I	149B 2229 RR	1 3972,25
10	250	10	10	10	0,5	I	149B 2230 RR	1 5225,61
12	300	10	10	10	0,5	I	149B 2231 RR	1 9116,91
14	350	10	10	10	0,5	I	149B 2232 RR	1 14744,46
16	400	10	10	10	0,5	I	149B 2233 RR	1 23881,41
20	500	10	10	10	0,5	I	149B 2235 RR	1 *

* Consult us

CORROSIVE ENVIRONMENTAL
OR CORROSIVE PRODUCTS

402Z



PRESSURE PFA/PS in bar Θ 100°

CASING : bronze UE2

On request, bronze UA10

Two undrilled bosses

SEAL : EPDM

CLOSING SYSTEM + GUIDING SYSTEM : bronze

APPROVALS : PED 97/23/CE

* Consult us

CORROSION RESISTANT, PUMPING,
WATER DISTRIBUTION, INDUSTRY

422



PRESSURE PFA/PS in bar Θ 100°

CASING : GJL cast iron + epoxy

SEAL : EPDM

CLOSING SYSTEM and seat : bronze

GUIDING SYSTEM : DN50 bronze
other DN in cast iron epoxy coatedAPPROVALS : PED 97/23/CE

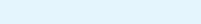
* Consult us

with PN10 flanges

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
2	50	16	16	16	16	I	149B 2679	1 523,95
2½	65	16	16	16	15	I	149B 2680	1 572,50
3	80	16	16	16	12	I	149B 2681	1 665,47
4	100	16	16	16	10	I	149B 2682	1 964,71
5	125	16	16	16	0,5	I	149B 2683	1 1540,31
6	150	16	13	16	0,5	I	149B 2684	1 1834,00
8	200	10	10	10	0,5	I	149B 2685	1 3137,63
10	250	10	10	10	0,5	I	149B 2686	1 4469,12
12	300	10	10	10	0,5	I	149B 2687	1 7935,70
14	350	10	10	10	0,5	I	149B 2688	1 17073,33
16	400	10	10	10	0,5	I	149B 2689	1 26306,56

* Consult us

Other approval available :



Consult us.

female/female

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
2	16	16	15	16	I	149B 2850	1 393,32	
3	16	16	16	12	I	149B 2851	1 555,80	
4	16	16	16	10	I	149B 2852	1 876,50	



INDUSTRIAL SERVICES, HYDROCARBONS AND INDUSTRY

PRESSURE PFA/PS in bar **Ø 100°**

CASING : GJL cast iron epoxy coated

Two undrilled bosses

SEAL : FKM

CLOSING SYSTEM + GUIDING SYSTEM :
same as valves type 402 and 202

APPROVALS :



402V



202V



with PN10 flanges

DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
1 1/2	40	16	16	16	16	I	149B 2281 V	1 186,00
2	50	16	16	16	16	I	149B 2346	1 300,36
2 1/2	65	16	16	16	16	I	149B 2347	1 326,90
3	80	16	16	16	12	I	149B 2348	1 485,70
4	100	16	16	16	10	I	149B 2349	1 691,14
5	125	16	16	16	0,5	I	149B 2226 V	1 1126,91
6	150	16	13	16	0,5	I	149B 2227 V	1 1391,84
8	200	10	10	10	0,5	I	149B 2229 V	1 2302,37
10	250	10	10	10	0,5	I	149B 2230 V	1 3129,22
12	300	10	10	10	0,5	I	149B 2231 V	1 *

female/female

DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
2 1/2	16	16	16	15	16	I	149B 2356	1 221,10
3	16	16	16	12	16	I	149B 2357	1 368,46
4	16	16	16	10	16	I	149B 2358	1 579,80

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION

PRESSURE PFA/PS in bar **Ø 100°**

CASING : GJL cast iron epoxy coated

With two cable passage notches (412)

SEAL : EPDM

CLOSING SYSTEM + GUIDING SYSTEM :
412 : bronze stem valve, cast iron guiding and closing system
212 : same as valve type 202

APPROVALS :



412



212



with PN16 flanges

DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
5	125	16	16	16	0,5	I	149B 2254	1 960,25
6	150	16	13	16	0,5	I	149B 2255	1 1177,44
8	200	16	10	16	0,5	I	149B 2256	1 1945,66
10	250	16	10	16	0,5	I	149B 2277	1 3199,02
12	300	16	10	16	0,5	I	149B 2278	1 4832,01

male/female

DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
2 1/2	16	16	16	15	16	I	149B 2454	1 196,82
3	16	16	16	12	16	I	149B 2455	1 244,84
4	16	16	16	10	16	I	149B 2456	1 453,62
5	16	16	16	0,5	16	I	149B 2257	1 863,11
6	16	13	16	0,5	16	I	149B 2258	1 1001,00
8	16	10	16	0,5	16	I	149B 2259	1 1614,32

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION, HIGH PRESSURE

PRESSURE PFA 40 bar / PS in bar **Ø 100°**

CASING : GJS ductile iron epoxy coated

With two cable passage notches (412S)

SEAL : EPDM

CLOSING SYSTEM : bronze

GUIDING SYSTEM : DN 2 1/2 bronze,
DN > cast iron with bronze ring

APPROVALS :



412S



212S



with PN40 flanges

DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
5	125	40	16	40	0,5	I	149B 2254 GS	1 1419,76
6	150	40	13	40	0,5	I	149B 2255 GS	1 1663,71
8	200	40	10	40	0,5	I	149F 017096	1 3363,69
10	250	40	10	40	0,5	I	149B 2277 GS	1 4354,66
12	300	40	10	40	0,5	I	149B 2278 GS	1 5708,53

male/female

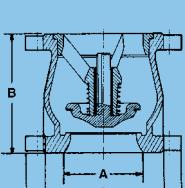
DN	PFA	PS			Cat	Ref.	U	€
"	mm	water	L1	L2	G1	G2	V	
2 1/2	40	30	40	15	40	I	149B 2454 GS	1 768,23
3	40	25	40	12	40	I	149B 2455 GS	1 908,64
4	40	20	40	10	35	I	149B 2456 GS	1 1152,32
5	40	16	40	0,5	28	I	149B 2257 GS	1 1772,59
6	40	13	40	0,5	23	I	149B 2258 GS	1 2303,22
8	40	10	40	0,5	17	I	149B 2259 GS	1 3592,60

TECHNICAL INFORMATION

A	B	C	D	Kg	KV	ζ
"	mm	mm	mm		m3/H	
5	125	201	190	250	20,0	357 3,0
6	150	220	212	285	27,5	476 3,5
8	200	280	266	340	49,2	607 6,8
10	250	345	324	405	90,0	1000 6,1
12	300	365	420	460	120,0	1452 6,0

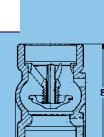
412 S

Types
412- 412 S
with flanges

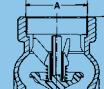


TECHNICAL INFORMATION

A	B	C	Kg	KV	ζ
"	mm	mm		m3/H	
2 1/2	65	139	97	2,7	88 3,6
3	80	165	125	5,3	132 3,7
4	100	195	150	8,7	205 3,7
5	125	230	188	14,0	316 3,8
6	150	275	223	21,2	533 2,8
8	200	333	266	41,8	640 6,1



Types
202 - 202 TTP
202V
female/female



Types
212 - 212 S
male/female

Foot valves

PUMPING, CLEAR WATER

PRESSURE PFA/PS in bar **Ø 100°**

CASING : GJL cast iron epoxy coated

CLOSING SYSTEM : DN 50 and 65 in bronze, other DN in cast iron with stem in bronze

GUIDING SYSTEM : DN 50 in bronze, other DN in cast iron with bronze ring

SEAL : EPDM

STRAINER : galvanised steel

APPROVALS : PED 97/23/CE ACS

STRAINER : Stainless Steel 304L

OPTIONS : Also available on special request for strainer in stainless steel AISI 316L

APPROVALS : PED 97/23/CE ACS

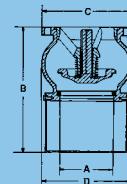
302



with PN10 flange

DN	PFA	PS		Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2			
2	50	16	16	x	x	3.3	149B 2754	1 317,61
2½	65	16	16	x	x	3.3	149B 2755	1 317,61
3	80	16	16	x	x	3.3	149B 2756	1 409,51
4	100	16	16	x	x	3.3	149B 2757	1 569,38
5	125	10	10	10	x	3.3	149B 2701	1 654,80
6	150	10	10	10	x	3.3	149B 2702	1 876,75
8	200	10	10	10	x	3.3	149B 2703	1 1859,72
10	250	10	10	10	x	1	149B 2704	1 2796,87
12	300	10	10	10	x	1	149B 2705	1 4761,74
14	350	10	10	10	x	x	149B 2706	1 6962,37
16	400	10	10	10	x	x	149B 2707	1 10680,71
20	500	10	10	10	x	x	149B 23135	1 34779,96

TECHNICAL INFORMATION

Types 302 - 302P*
302PV* - 302V- 302X
302Z* - 312 - 322
with flange

A mm	B mm	B* mm	C mm	D mm	Kg 302	KV m³/H	ζ
50	143	171,0	165	97	4,3	89	1,23
65	185	212,0	185	125	6,4	143	1,36
80	218	257,0	200	150	9,3	199	1,60
100	265	312,5	220	181	13,6	356	1,20
125	333	-	254	217	19,0	557	1,20
150	373	-	285	256	28,0	801	1,20
200	483	-	343	336	48,0	1008	2,46
250	572	-	406	416	90,0	1818	1,85
300	652	-	482	486	133,0	2210	2,60
350	771	-	533	580	226,0	2560	3,60
400	876	-	597	676	343,0	3930	2,60
500	1094	-	670	880	560,0	6914	2,05

Stainless steel strainer version
with PN10 flange

DN	PFA	PS		Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2			
2	50	16	16	16	x	3.3	149B 15094	1 516,15
2½	65	16	16	16	x	3.3	149B 15001	1 516,15
3	80	16	16	16	x	3.3	149B 14999	1 668,35
4	100	16	16	16	x	3.3	149B 15428	1 907,39
5	125	10	10	10	x	3.3	149B 15022	1 1172,48
6	150	10	10	10	x	3.3	149B 15424	1 1436,06
8	200	10	10	10	x	3.3	149B 15036	1 2524,99
10	250	10	10	10	x	x	149B 14906	1 3486,29
12	300	10	10	10	x	x	149B 15505	1 5622,87
14	350	10	10	10	x	x	149B 97244	1 8311,71
16	400	10	10	10	x	x	149B 15737	1 12408,32

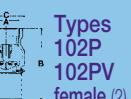
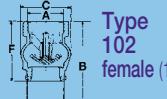
102



female

DN	PFA	PS		Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2			
2¼	16	16	16	x	x	3.3	149B 2766	1 257,05
2½	16	16	16	x	x	3.3	149B 2767	1 257,05
3	16	16	16	x	x	3.3	149B 2768	1 343,62
4	16	16	16	x	x	3.3	149B 2769	1 565,82
5	16	16	16	x	x	3.3	149B 1162	1 896,60
6	16	13	16	x	x	3.3	149B 1163	1 1265,93
7	16	10	16	x	x	3.3	149B 1164	1 2035,27
8	16	10	16	x	x	3.3	149B 1165	1 2035,27

TECHNICAL INFORMATION

Type 102 female (1)
Types 102P 102PV female (2)

A mm	B mm	C mm	F mm	F' mm	Kg	KV m³/H	ζ
(1)	(1)	(2)	(1)	(2)	(1)	(2)	
2 ¼	60/70	167	195	97	123	3,10	3 82 3,0
2 ½	66/76	167	195	97	123	3,10	3 82 4,2
3	80/90	212	241	125	123	5,20	5 120 4,4
4	102/114	251	290	150	123	8,30	8 188 4,4
5	125	345	-	188	123	14,70	- 291 4,5
6	150	430	-	223	123	22	- 490 3,3
7	175	508	-	266	123	44	- 594 4,1
8	200	508	-	266	123	43,50	- 594 7,1

PUMPING, CLEAR WATER

PRESSURE PFA/PS in bar **Ø 80°**

CASING : GJL cast iron epoxy coated

CLOSING SYSTEM : same as valves type 302-102

GUIDING SYSTEM : same as valves type 302-102

SPRING : stainless steel - SEAL : EPDM

STRAINER : PP (polypropylene)

APPROVAL : ACS

302P



with PN10 flange

DN	PFA	PS		Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2			
2	50	16	16	x	x	3.3	149B 2746	1 225,45
2 ½	65	16	16	x	x	3.3	149B 2747	1 225,45
3	80	16	16	x	x	3.3	149B 2748	1 296,46
4	100	16	16	x	x	3.3	149B 2749	1 425,97

102P



female

DN	PFA	PS		Cat	Ref.	U	V	€
"	water	L1	L2	G1	G2			
2 ¼	16	16	16	x	x	3.3	149B 2758	1 174,28
2 ½	16	16	16	x	x	3.3	149B 2759	1 174,28
3	16	16	16	x	x	3.3	149B 2760	1 233,88
4	16	16	16	x	x	3.3	149B 2761	1 397,23



Foot valves

PUMPING, HYDROCARBONS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : GJL cast iron epoxy coated

CLOSING SYSTEM + GUIDING SYSTEM same as valves type 302-102

SPRING : stainless steel

SEAL : FKM

STRAINER : PP (polypropylene)

APPROVAL :



302PV



102PV

PUMPING, INDUSTRY,
HYDROCARBONSPRESSURE PFA/PS in bar $\theta 100^\circ$

CASING : GJL cast iron epoxy coated

CLOSING SYSTEM + GUIDING SYSTEM :
same as valves type 302-102

SPRING : stainless steel

SEAL : FKM

STRAINER : galvanised steel

APPROVALS : PED 97/23/CE

302V



with PN10 flange

DN	PFA	PS	Ref.	U	V	€
"	mm	water	L1 L2 G1 G2	Cat		
2	50	16 16 16 x x	3.3	149B 14677	1	379,65
2 ^{1/2}	65	16 16 16 x x	3.3	149B 14496	1	552,14
3	80	16 16 16 x x	3.3	149B 14678	1	491,84
4	100	16 16 16 x x	3.3	149B 14879	1	664,09
5	125	10 10 10 x x	3.3	149B 14767	1	770,44
6	150	10 10 10 x x	3.3	149B 14506	1	1046,70
8	200	10 10 10 x x	3.3	149B 14515	1	2095,55
10	250	10 10 10 x x	1	149B 23078	1	3199,23
12	300	10 10 10 x x	1	149B 15238	1	*
14	350	10 10 10 x x	1	149B 22178	1	*

*Consult us

CLEAR AND AGGRESSIVE
WATER PUMPINGPRESSURE PFA/PS in bar $\theta 100^\circ$

CASING : GJL cast iron epoxy coated

GUIDING SYSTEM : DN 50 in bronze,
other DN in cast iron with bronze stem

SPRING : stainless steel

SEAL : EPDM

STRAINER : galvanised steel

APPROVALS : PED 97/23/CE



322

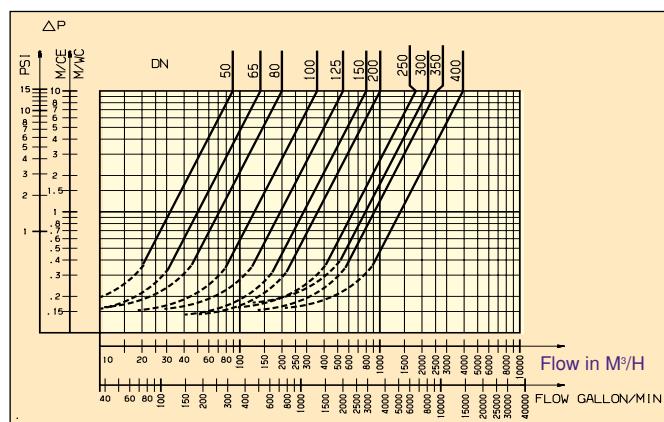


with PN10 flange

DN	PFA	PS	Ref.	U	V	€
"	mm	water	L1 L2 G1 G2	Cat		
2	50	16 16 16 x x	3.3	149B 2616	1	498,84
2 ^{1/2}	65	16 16 16 x x	3.3	149B 2617	1	552,14
3	80	16 16 16 x x	3.3	149B 2618	1	677,17
4	100	16 16 16 x x	3.3	149B 2619	1	1111,83
5	125	16 16 16 x x	3.3	149B 2620	1	1732,93
6	150	16 13 16 x x	3.3	149B 2621	1	2116,23
8	200	10 10 10 x x	3.3	149B 2622	1	4044,82
10	250	10 10 10 x x	1	149B 2623	1	6188,65
12	300	10 10 10 x x	1	149B 2624	1	8904,71
14	350	10 10 10 x x	1	149B 2625	1	14750,05
16	400	10 10 10 x x	1	149B 2626	1	19051,69

HEADLOSS CHART

TYPE 302



TEL. +33 3 85 97 42 42

AGGRESSIVE MEDIUMS PUMPING,
SALTED SOLUTIONS, SEA WATERPRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : bronze UE2

On request, bronze UA10

CLOSING SYSTEM : bronze

SPRING : stainless steel

SEAL : EPDM

STRAINER : DN50-100 in PP

DN125-400 in Stainless steel 316L

APPROVALS :

with PN10 flange

DN	PFA	PS	Ref.	U	V	€
"	mm	water	L1 L2 G1 G2	Cat		
2	50	25 25 25 x x	3.3	149B 2776	1	877,09
2 ^{1/2}	65	16 16 16 x x	3.3	149B 2777	1	1273,22
3	80	16 16 16 x x	3.3	149B 2778	1	1591,89
4	100	16 16 16 x x	3.3	149B 2779	1	2196,87
5	125	16 16 16 x x	3.3	149B 14925	1	*
6	150	16 16 16 x x	3.3	149B 15032	1	*
8	200	16 16 16 x x	3.3	149B 14719	1	17471,71
10	250	10 10 10 x x	1	149B 14720	1	*
12	300	10 10 10 x x	1	Special	1	*
14	350	10 10 10 x x	1	Special	1	*
16	400	10 10 10 x x	1	Special	1	*

*Consult us

302Z



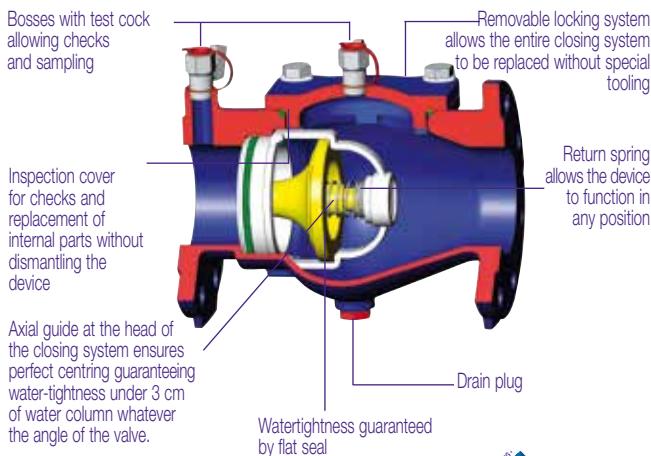


03 SYSTEM

- Axial guiding
- Perfect water tightness at high and low pressure
- Easy to maintain



NON-RETURN



Axial guide at the head of the closing system ensures perfect centring guaranteeing water-tightness under 3 cm of water column whatever the angle of the valve.

EA223



M/M

BUILDING, DISTRIBUTION,
PROTECTION OF DRINKING WATER
NETWORKS

See page 13

EA253



WATER DISTRIBUTION,
PROTECTION OF DRINKING WATER
NETWORKS

See page 12

EASILY MAINTAINED



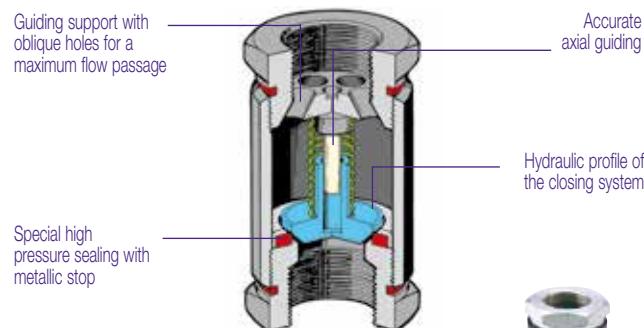
Remove top access cover.



Remove the whole spring, closing system and seal.

03 HP SYSTEM

- High mechanical and hydraulic performances
- Adapted materials
- Various industrial applications



233

HIGH PRESSURE FLUIDS, WATER,
HYDROCARBONS, GAS, GENERAL
INDUSTRIAL APPLICATIONS...

PRESSURE PFA/PS in bar Φ 100°

CASING : high pressure check
valve in carbon steel

CLOSING SYSTEM : stainless steel

SPRING : stainless steel

SEALS : NBR (nitrile)

Opening pressure

0,5 bar

female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/4	8	400	400	400	400	400	3.3	149B 3240 X	1	184,66	
3/8	10	350	350	350	350	350	3.3	149B 3241 X	1	187,72	
1/2	15	300	300	300	300	300	3.3	149B 3242 X	1	190,82	
3/4	20	250	250	250	250	250	3.3	149B 3243 X	1	256,99	
1"	25	200	200	200	200	200	3.3	149B 3244 X	1	300,09	
1 1/2"	32	150	62	150	0,5	150	3.3	149B 3245 X	1	456,97	
2"	40	100	50	100	0,5	100	25	3.3	149B 3246 X	1	510,84
2	50	100	40	100	0,5	20	3.3	149B 3247 X	1	703,45	

233X

HIGH PRESSURE, WATER,
HYDROCARBONS, GAS, GENERAL
INDUSTRIAL APPLICATIONS...

PRESSURE PFA/PS in bar Φ 230°

CASING : high pressure check
valve in stainless steel AISI 304

CLOSING SYSTEM : stainless steel

SPRING : stainless steel

SEALS : PTFE and FKM

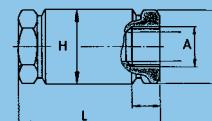
Opening pressure

0,5 bar

female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/4	8	160	160	160	160	160	3.3	149B 3240 X	1	233,93	
3/8	10	160	160	160	160	160	3.3	149B 3241 X	1	260,06	
1/2	15	160	160	160	160	160	3.3	149B 3242 X	1	275,46	
3/4	20	160	160	160	160	160	3.3	149B 3243 X	1	324,67	
1"	25	160	160	160	160	160	3.3	149B 3244 X	1	391,08	
1 1/2"	32	100	62	100	0,5	100	3.3	149B 3245 X	1	2045,83	
2"	40	100	50	100	0,5	100	25	3.3	149B 3246 X	1	2154,60
2	50	100	40	100	0,5	20	3.3	149B 3247 X	1	2376,74	

Types 233 - 233X

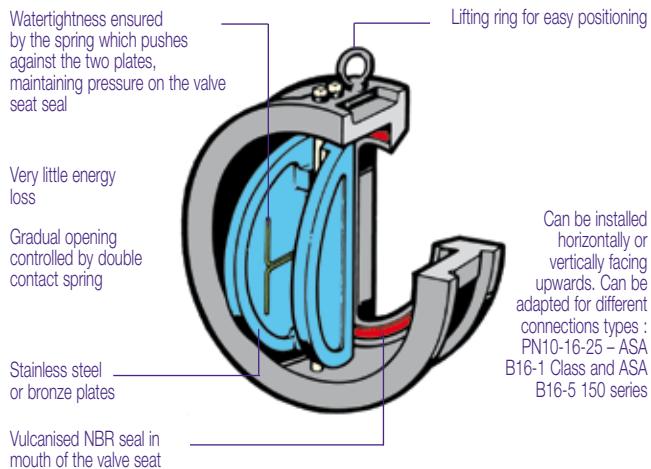




05 SYSTEM

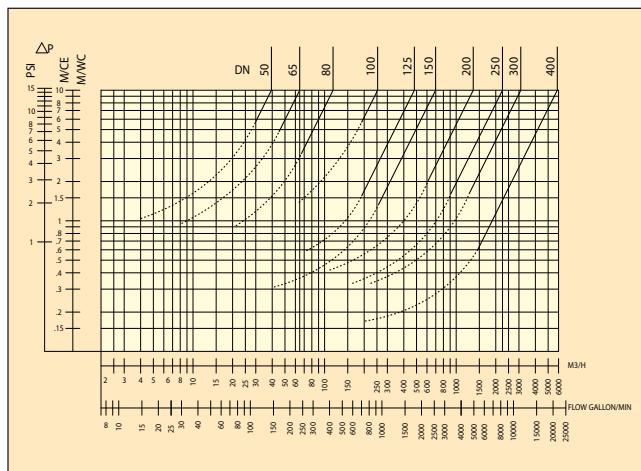
DOUBLE PLATE BETWEEN FLANGES

- Mounting between flanges
- Excellent hydraulic performance
- Wide range : from 50 to 600 mm
- Compact



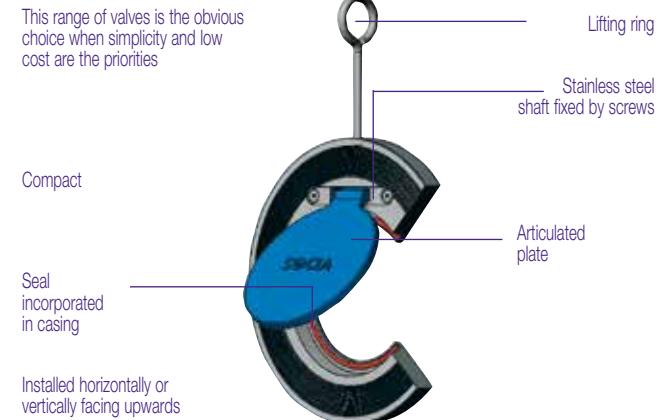
HEADLOSS CHART

TYPE 895

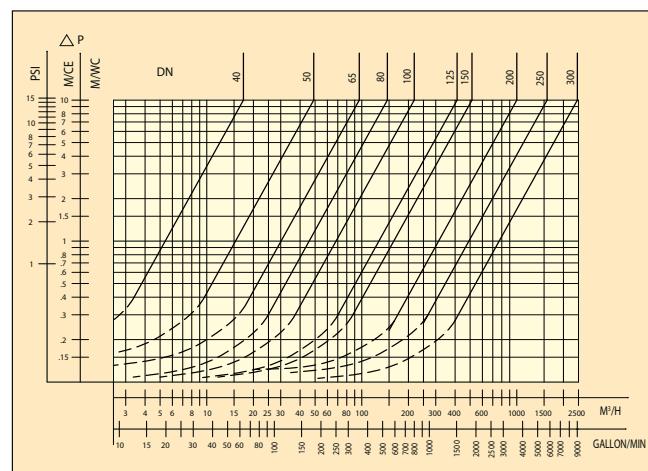


SINGLE PLATE BETWEEN FLANGES

- Space-saving
- Simple and reliable
- Competitive price



HEADLOSS CHART





Double plate between flanges

PUMPING, WATER DISTRIBUTION,
GENERAL INDUSTRY

PRESSURE PFA/PS in bar Θ 100°

BODY : GJL cast iron epoxy coated (DN50 to 150)
GJS ductile iron epoxy coated (DN200 to 400)

PLATES : stainless steel (304)

SEAL : EPDM

SPRING : stainless steel

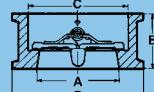
APPROVALS : PED 97/23/CE ACS

895

between flanges PN10-16

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	16	16	16	16	16	I	149B 3000	1		87,65
2 1/2	65	16	16	16	15	16	I	149B 3001	1		91,62
3	80	16	16	16	12	16	I	149B 3002	1		95,62
4	100	16	16	16	10	16	I	149B 3003	1		121,50
5	125	16	16	16	0,5	16	I	149B 3004	1		167,32
6	150	16	13	16	0,5	16	I	149B 3005	1		179,28
8	200	16	10	16	0,5	16	I	149B 3006	1		328,76
10	250	16	10	16	0,5	14	I	149B 3007	1		557,75
12	300	16	10	16	0,5	11	I	149B 3008	1		806,86
16	400	16	10	16	x	8	I	149B 3010	1		2573,68

TECHNICAL INFORMATION

Types 895 - 895V
between flanges

A	B	C	D	mm	Kg	KV	m³/H	ζ
2	50	54	60	109	1,2	35,7	7,81	
2 1/2	65	54	73	129	1,8	64,7	6,81	
3	80	57	89	144	2,9	116,1	4,86	
4	100	64	114	164	3,9	253,3	2,49	
5	125	70	141	194	5,8	481,8	1,68	
6	150	76	168	220	8,0	698,4	1,66	
8	200	95	219	275	14,0	1345,5	1,41	
10	250	108	273	330	22,0	2249,5	1,23	
12	300	143	324	380	34,0	3098,0	1,35	
16	400	191	410	491	83,0	5867,0	1,20	

895V

PUMPING, WATER DISTRIBUTION,
GENERAL INDUSTRY, HYDROCARBONS

PRESSURE PFA/PS in bar Θ 100°

BODY DN 50 to 150 :

GJL Cast iron epoxy coated

BODY DN 200 to 400 :

GJS Ductile iron epoxy coated

PLATES : stainless steel (304)

SEAL : FKM

SPRING : stainless steel

APPROVALS : PED 97/23/CE

between flanges PN10-16

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	16	16	16	16	16	I	149B 3000 V	1		219,74
2 1/2	65	16	16	16	15	16	I	149B 3001 V	1		229,71
3	80	16	16	16	12	16	I	149B 3002 V	1		286,41
4	100	16	16	16	10	16	I	149B 3003	1		376,02
5	125	16	16	16	0,5	16	I	149B 3004 V	1		485,70
6	150	16	13	16	0,5	16	I	149B 3005 V	1		497,42
8	200	16	10	16	0,5	16	I	149B 3006 V	1		734,99
10	250	16	10	16	0,5	14	I	149B 3007 V	1		1470,55
12	300	16	10	16	0,5	11	I	149B 3008 V	1		2003,69
16	400	16	10	16	x	8	I	149B 3010 V	1	*	

* Consult us

PUMPING, WATER DISTRIBUTION,
GENERAL INDUSTRY

PRESSURE PFA/PS in bar Θ EPDM 100°C - NBR 80°C

BODY cast iron GJL epoxy coated

(*) except ductile iron GJS epoxy coated

PLATES : aluminium bronze

SEAL DN 50 to 300 + 400 : EPDM

DN 350 + 450 to 600 : NBR

STEM DN 50 to 300 + 400 : S.Steel 316

DN 350 + 450 to 600 : S.Steel 304

SPRING : stainless steel

APPROVALS : PED 97/23/CE

ACS DN50 to 300 + DN400

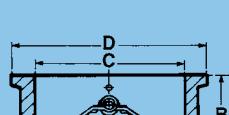
805

between flanges PN10-16

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	16	16	16	16	16	I	149B 3270	1		149,49
2 1/2	65	16	16	15	16	16	I	149B 3271	1		156,84
3	80	16	16	16	12	16	I	149B 3272	1		163,11
4	100	16	16	16	10	16	I	149B 3273	1		218,54
5	125	16	16	16	0,5	16	I	149B 3274	1		319,66
6	150	16	13	16	0,5	16	I	149B 3275	1		354,79
8	200	16	10	16	0,5	16	I	149B 3276	1		739,74
10*	250	16	10	16	0,5	14	I	149B 3277	1		1229,92
12*	300	16	10	16	0,5	11	I	149B 3278	1		1976,37
14	350	16	10	16	x	10	I	149B 2590	1		3196,21
16*	400	16	10	16	x	8	I	149B 3330	1		4759,40
18	450	16	10	16	x	7	I	149B 2592	1		6043,51
20	500	16	10	16	x	7	I	149B 2593	1		9521,66
24	600	16	10	16	x	5	I	149B 2594	1		13231,47

TECHNICAL INFORMATION

DN	B	C	D	Kg	KV	m³/H	ζ
2	50	54	60	109	1,2	39,4	6,3
2 1/2	65	54	73	129	1,8	83,0	4,1
3	80	57	89	144	2,9	138,0	3,4
4	100	64	114	164	3,9	250,0	2,5
5	125	70	141	194	5,8	505,0	1,45
6	150	76	168	220	8,0	891,0	1,0
8	200	95	219	275	14,0	1510,0	1,1
10	250	108	273	330	22,0	2746,0	1,1
12	300	143	324	380	34,0	3986,0	1,1
14	350	184	356	440	70,0	4254,0	1,30
16	400	191	410	491	85,0	5000,0	1,60
18	450	203	457	541	118,0	6547,0	1,50
20	500	213	508	596	180,0	7800,0	1,60
24	600	222	610	698	250,0	11269,0	1,60

Type 805
between flanges

TECHNICAL INFORMATION

DN	B	C	D	Kg	KV	m³/H	ζ
2	50	54	60	109	2,5	35,0	6,3
2 1/2	65	54	73	129	3,2	64,6	4,1
3	80	57	89	144	3,4	130,0	3,4
4	100	64	114	170	5,6	187,0	2,5
5	125	70	141	194	8,1	291,0	1,45
6	150	76	168	220	10,4	552,0	1,0
8	200	95	219	286	18,5	1065,0	1,1
10	250	108	273	340	29,5	2055,0	1,1
12	300	143	324	403	44,1	3253,0	1,1
14	350	184	356	460	78,0	4254,0	1,30
16	400	191	410	517	101,0	5000,0	1,60
18	450	203	457	567	146,9	6547,0	1,50
20	500	213	508	627	189,7	7800,0	1,60
24	600	222	610	734	290,0	11269,0	1,60

Types 815-825
between flanges



Single plate between flanges

GENERAL INDUSTRY,
HYDROCARBONS

PRESSURE PFA/PS in bar

Ø 150°

BODY & PLATE :
Steel cataphoresis coated

SEAL : FKM

APPROVALS : PED 97/23/CE



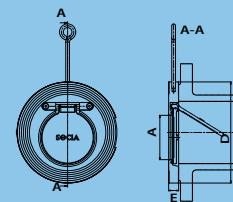
635V

between flanges PN10

DN	PFA mm water	L1	L2	G1	G2	Cat	Ref.	U V	€
40	16	10	10	10	10	I	149F021308	1	83,58
50	16	10	10	10	10	I	149F021309	1	89,98
65	16	10	10	10	10	I	149F021310	1	101,25
80	16	10	10	10	10	I	149F021311	1	112,46
100	16	10	10	10	10	I	149F021312	1	125,45
125	16	10	10	0,5	10	I	149F021313	1	159,25
150	16	10	10	0,5	10	I	149F021314	1	229,16
200	10	10	10	0,5	10	I	149F021315	1	384,07
250	10	10	10	0,5	10	I	149F021316	1	589,69
300	10	10	10	0,5	10	I	149F021317	1	828,81

TECHNICAL INFORMATION

DN	A mm	D mm	E mm
40	22	94	16
50	32	106	16
65	42	129	16
80	53	144	16
100	71	162	16
125	94	194	16
150	114	220	19
200	164	275	28
250	199	331	32
300	240	380	38

GENERAL WATER CIRCUITS,
PUMPING, WATER DISTRIBUTION

PRESSURE PFA/PS in bar

Ø 110°

BODY & PLATE :

Steel cataphoresis coated

SEAL : EPDM on seat

APPROVALS : PED 97/23/CE



635E

SEE WATER, SALTED AND AGGRESSIVE
SOLUTIONS, GENERAL INDUSTRIAL CIRCUITSGENERAL WATER CIRCUITS, HYDRO-
CARBONS, INDUSTRIAL PROCESSES

PRESSURE PFA/PS in bar

Ø 150°

BODY : wafer in stainless steel
(316)

PLATE : stainless steel (316)

SEAL : FKM on seat

APPROVALS : PED 97/23/CE



627V

GENERAL WATER CIRCUITS,
PUMPING, INDUSTRIAL PROCESSES

PRESSURE PFA/PS en bar

Ø 110°

BODY : wafer in stainless steel
(316)

PLATE : stainless steel (316)

SEAL : EPDM on seat

APPROVALS : PED 97/23/CE

696V



between flanges PN10

DN	PFA mm water	L1	L2	G1	G2	Cat	Ref.	U V	€
40	16	10	10	10	10	I	149F021325	1	299,25
50	16	10	10	10	10	I	149F021326	1	299,25
65	16	10	10	10	10	I	149F021327	1	334,13
80	16	10	10	10	10	I	149F021328	1	467,47
100	16	10	10	10	10	I	149F021329	1	552,61
125	16	10	10	0,5	10	I	149F021330	1	687,82
150	16	10	10	0,5	10	I	149F021331	1	916,90
200	10	10	10	0,5	10	I	149F021332	1	1554,30
250	10	10	10	0,5	10	I	149F021333	1	3196,97
300	10	10	10	0,5	10	I	149F021334	1	5127,48

627E



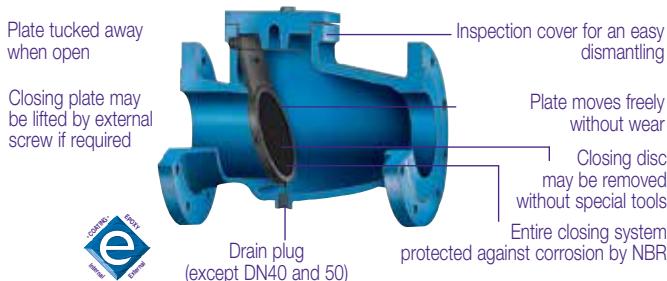
between flanges PN10

DN	PFA mm water	L1	L2	G1	G2	Cat	Ref.	U V	€
40	16	10	10	10	10	I	149G3560	1	108,39
50	16	10	10	10	10	I	149G3561	1	118,57
65	16	10	10	10	10	I	149G3562	1	143,41
80	16	10	10	10	10	I	149F021290	1	160,50
100	16	10	10	10	10	I	149F021291	1	183,54
125	16	10	10	0,5	10	I	149F021293	1	256,79
150	16	10	10	0,5	10	I	149F021294	1	350,12
200	10	10	10	0,5	10	I	149F021295	1	624,55
250	10	10	10	0,5	10	I	149F021296	1	1010,91
300	10	10	10	0,5	10	I	149F021297	1	1461,76

• Other size, please consult us.

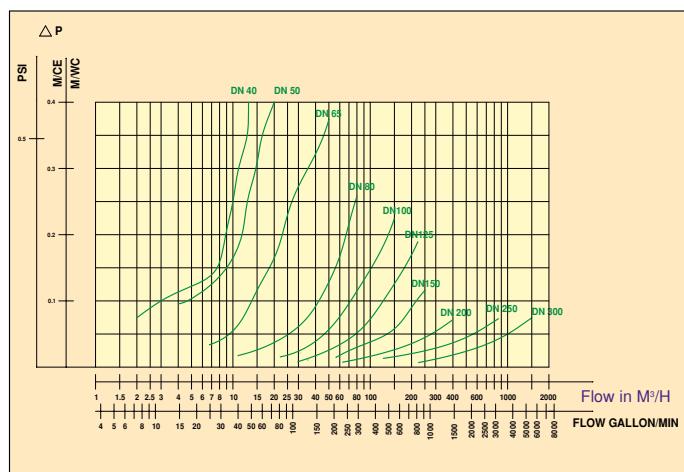
Single plate between flanges

- Simple, strong construction
- Wide range of applications for all kinds of liquids
- Effective, reliable operation



HEADLOSS CHART

TYPE 405 / 405L



CLEAR WATER, WASTE WATER, WATER DISTRIBUTION, WATER SUPPLY, PUMPING

405



PRESSURE PFA/PS in bar Ø 70°

DN	PFA mm	PS Water	L1	L2	G1	G2	Cat	Ref.	U	V	€
65*	16	16	16	15	16	I	149B 3461	1	316,55		
80	16	16	16	12	16	I	149B 3462	1	343,02		
100	16	16	16	10	16	I	149B 3463	1	393,92		
125	16	16	16	0,5	16	I	149B 3464	1	505,63		
150	16	13	16	0,5	16	I	149B 3465	1	685,87		
200	10	10	10	0,5	10	I	149B 3466	1	826,53		
250	10	10	10	0,5	10	I	149B 3467	1	3461,42		
300	10	10	10	0,5	10	I	149B 3468	1	4156,47		

* Threaded flanges 4 and 8 holes

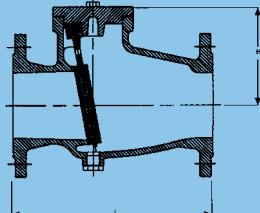
APPROVALS : PED 97/23/CE



TECHNICAL INFORMATION

DN	L mm	H mm	Kg
65	240	122	13
80	260	140	16
100	300	152	26
125	350	162	34
150	400	180	45
200	500	205	57
250	600	255	92
300	700	293	137

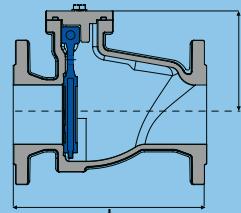
Type 405 between flanges



TECHNICAL INFORMATION

DN	L mm	H mm	Kg
40	180	89	6
50	200	95,5	7,5
65	240	122,5	11
80	260	139,5	15
100	300	154,5	21
125	350	162	30
150	400	179	39

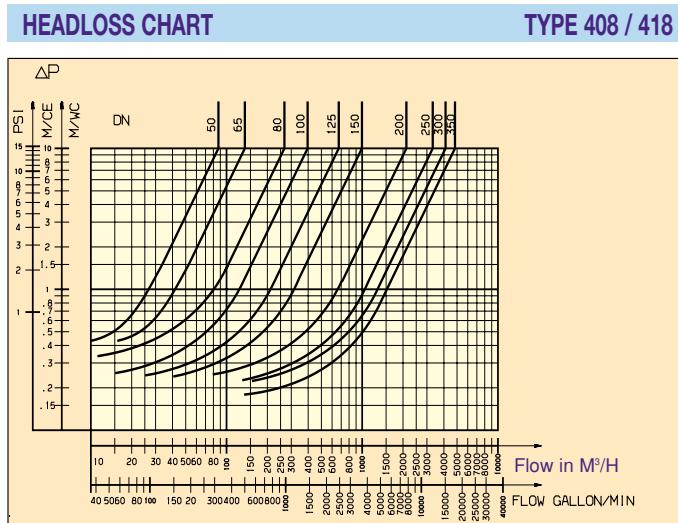
Type 405L between flanges



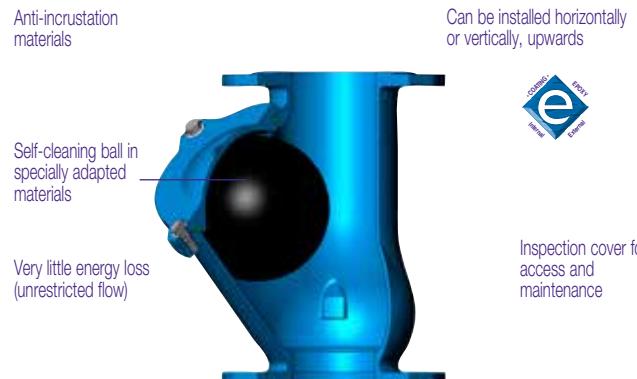


B SYSTEM

- Straightforward, sturdy design
 - Ball moves aside to allow unrestricted flow
 - Designed for waste water, viscous fluids and slurries



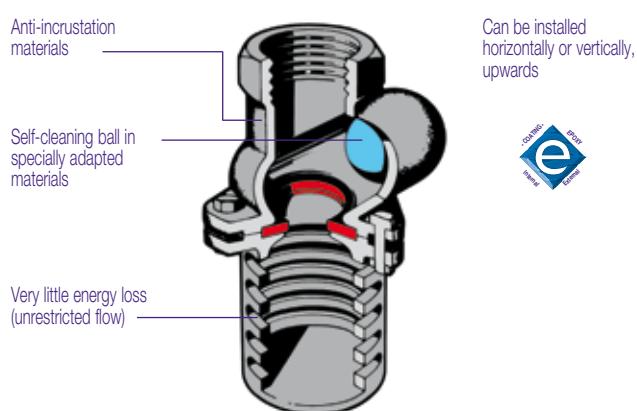
NON-RETURN VALVE



NON-RETURN

TYPE	CAST IRON BODY	PVC BODY	STAINLESS STEEL	CONNECTION	Foot valve	NRV
418	●			Flanges		●
408	●			Flanges		●
508	●			F/F		●
208P		●		F/F		●
408F	●			Flanges		●
508F	●			F/F		●
408V	●			Flanges		●
408X			●	Flanges		●
408D	●			Flanges		●
50	●			F/F		●
308	●			Flanges	●	
30	●			F	●	

FOOT VALVE



REGULATION

REGULATION N° 305/2011 ON BUILDING PRODUCTS

Applies to building industry products and especially to their ability to ensure their function during a reasonable life time from an economical point of view.

Building industry products in accordance with specific standards are CE marked with indication of the corresponding construction standard.

WASTE WATER, VISCOS AND LOADED LIQUIDS, PURIFICATION

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING :

418 : GJS ductile iron epoxy coated

408 : GJS ductile iron epoxy coated

Face to face dimensions acc. to EN558-1 serie 48

Seal : NBR

BALL :

Aluminium, NBR coated (DN50 to 100)

Cast iron, NBR coated (DN >)

APPROVALS : PED 97/23/CE CPR 305/2011/UE

418

408

with PN10/16 flanges

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	mm water		L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	10	10	10	10	10	I	149B 3140	1		185,56
2 1/2	65	10	10	10	10	10	I	149B 3141	1		202,83
3	80	10	10	10	10	10	I	149B 3142	1		290,84
4	100	10	10	10	10	10	I	149B 3143	1		375,43
5	125	10	10	10	0,5	10	I	149B 3144	1		560,98
6	150	10	10	10	0,5	10	I	149B 3145	1		742,22
8	200	10	10	10	0,5	10	I	149B 3146	1		1173,74
10	250*	10	10	10	0,5	10	I	149B 2907	1		2838,07
12	300*	10	10	10	0,5	10	I	149B 2908	1		4881,25
14	350*	10	10	10	0,5	10	I	149B 2909	1		8825,35

* Type 408

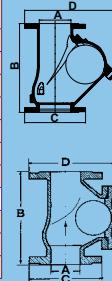


TECHNICAL INFORMATION

With flanges

Type 418-418F-418V-418D

A	B	C	D	Kg	KV	ζ
" mm	mm	mm	mm	kg/m/H		
2	50	200	165	173	5,5	71,5
2 1/2	65	240	185	214	9,1	171,5
3	80	260	200	252	13,3	217,5
4	100	300	220	289	20,9	316
5	125	350	250	368	27,5	744,9
6	150	400	285	424	35,7	1133,7
8	200	500	340	509	63,7	2766



Type 408-408F

10	250	600	400	582	128,9	3307	0,56
12	300	700	455	721	220,1	4115	0,75
14	350	875	505	820	345,6	4850	1,00

WASTE WATER, VISCOS AND LOADED LIQUIDS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : GJL cast iron external epoxy coated

BALL : resin

SEAL : NBR (nitrile)

APPROVALS : PED 97/23/CE CPR 305/2011/UE

508



female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water		L1	L2	G1	G2	Cat	Ref.	U	V	€
1	10	10	10	10	10	3,3	I	149B 3202	1		71,39
1 1/4	10	10	10	10	10	1	I	149B 3203	1		73,58
1 1/2	10	10	10	10	10	1	I	149B 3204	1		85,65
2	10	10	10	10	10	1	I	149B 3205	1		112,01
2 1/2	10	10	10	10	10	1	I	149B 3206	1		177,88

WASTE WATER, VISCOS LIQUIDS

PRESSURE PFA/PS in bar $\theta 60^\circ$

CASING : PVC

BALL : aluminium NBR (nitrile) coated except 1"1/4 : cast iron NBR coated

APPROVAL : PED 97/23/CE CPR 305/2011/UE

208P



female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water		L1	L2	G1	G2	Cat	Ref.	U	V	€
1	6	6	6	6	6	3,3	I	149B 5221	1		98,48
1 1/4	6	6	6	x	6	3,3	I	149B 5222	1		89,22
1 1/2	6	6	6	x	6	3,3	I	149B 3448	1		137,65
2	6	6	6	x	6	3,3	I	149B 5224	1		172,15
2 1/2	6	6	6	x	6	3,3	I	149B 5225	1		214,92
3	6	6	6	x	6	3,3	I	149B 3456	1		347,91

TECHNICAL INFORMATION

Type 208P female/female

A	B	C	D	Kg	KV	ζ
" mm	mm	mm	mm	kg/m/H		
1	26/34	76	114	95	1,30	19,6
1 1/4	33/42	85	132	110,5	1,90	29,4
1 1/2	40/49	93	145	121	2,45	57,8
2	50/60	107	173,5	144	3,50	78,3
2 1/2	66/76	127	200	174,5	5,90	110,4
3	80/90	276	225	133	-	2,3

TECHNICAL INFORMATION

Type 50 female/female

A	B	C	D	Kg	KV	ζ
" mm	mm	mm	mm	kg/m/H		
1	26/34	121	104	1,50	18,0	1,9
1 1/4	33/42	134	119	2,00	25,6	2,5
1 1/2	40/49	145	137	2,80	53,5	1,4
2	50/60	174	157	3,60	70,0	2,0
2 1/2	66/76	195	179	5,60	115,4	2,1
3	80/90	246	214	12,80	183,8	1,9

WASTE WATER, VISCOS LIQUIDS

PRESSURE PFA/PS in bar $\theta 80^\circ$

CASING : GJL cast iron epoxy coated

BALL : synthetic resin

SEAL : NR (natural rubber) or CR (polychloroprene)

APPROVALS : PED 97/23/CE CPR 305/2011/UE (1)

(1) except DN 3"

50



female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water		L1	L2	G1	G2	Cat	Ref.	U	V	€
1	10	10	10	10	10	3,3	I	149B 2522	1		112,65
1 1/4	10	10	10	10	10	1	I	149B 2523	1		120,63
1 1/2	10	10	10	10	10	1	I	149B 2524	1		140,31
2	10	10	10	10	10	1	I	149B 2525	1		163,47
2 1/2	10	10	10	10	10	1	I	149B 2527	1		261,48
3	10	10	10	10	10	1	I	149B 2528	1		497,71



FOR USE AS AN AIR VENT OR
ANTI FLOODING VALVE

418F

408F

with PN10 flanges

PRESSURE PFA 10 bar Θ 60°

CASING : same as type 418/408

BALL : floating, steel with NR
(natural rubber) coated

SEAL : NBR (nitrile)

APPROVAL :



DN	mm	Ref.	U	V	€
2	50	149B 3140 F	1		523,67
2½	65	149B 3141 F	1		654,31
3	80	149B 3142 F	1		880,74
4	100	149B 3143 F	1		1059,65
5	125	149B 3144 F	1		1684,67
6	150	149B 3145 F	1		2292,09
8	200	149B 3146 F	1		3793,58
10	250*	149B 2907 F	1		6654,82
12	300*	149B 2908 F	1		11377,96
14	350*	149B 2909 F	1		17949,06

* Type 408F

FOR USE AS AN AIR VENT
OR ANTI FLOODING VALVE

508F



female/female

PRESSURE PFA 10 bar Θ 80°

CASING : same as type 508

BALL : floating, epoxy resin coated

SEAL : NBR (nitrile)

APPROVAL :



DN	mm	Ref.	U	V	€
1		149B 3212	1		226,22
1½		149B 3213	1		281,11
1½		149B 3214	1		342,51
2		149B 3215	1		445,76
2½		149B 3216	1		720,77

WASTE WATER, VISCOUS AND LOADED LIQUIDS,
PURIFICATION OF VERY AGGRESSIVE LIQUIDS

PRESSURE PFA/PS in bar Θ 100°

CASING : same as type 418

BALL :
FKM coated

SEAL : FKM

APPROVALS :

CE PED 97/23/CE
CPR 305/2011/UE

with PN10 flanges

DN	PFA	PS	Cat	Ref.	U	V	€
2	50	10	10	10	I	149B 3140 V	1 764,30
2½	65	10	10	10	I	149B 3141 V	1 859,20
3	80	10	10	10	I	149B 3142 V	1 1728,45
4	100	10	10	10	I	149B 3143 V	1 1976,37
5	125	10	10	0,5	I	149B 3144 V	1 2564,24
6	150	10	10	0,5	I	149B 3145 V	1 3276,08
8	200	10	10	0,5	I	149B 3146 V	1 3913,08

DEGASIFICATION, WASTE
WATER, LOADED LIQUIDS

PRESSURE PFA/PS in bar Θ 80°

CASING : complies with valve 418

BALL : same as type 418

SEAL : NBR (nitrile)

SPECIAL : equipped with
a lifting device of the ball
from outside

APPROVALS :

CE PED 97/23/CE
CPR 305/2011/UE

418D



with PN10 flanges

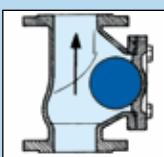
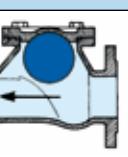
DN	PFA	PS	Cat	Ref.	U	V	€
2	50	10	10	10	I	149B 3140 D	1 334,93
2½	65	10	10	10	I	149B 3141 D	1 415,01
3	80	10	10	10	I	149B 3142 D	1 470,64
4	100	10	10	10	I	149B 3143 D	1 593,75
5	125	10	10	0,5	I	149B 3144 D	1 1054,78
6	150	10	10	0,5	I	149B 3145 D	1 1322,31
8	200	10	10	0,5	I	149B 3146 D	1 1760,86

«Bleeding» valve

This device is used for lifting the
ball for bleeding the plant without
dismantling the valve.Position of the ball
during complete shut-offPosition of the ball
during bleeding

STANDARD FUNCTIONNING APPLICATIONS

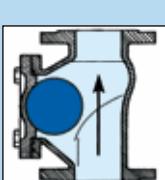
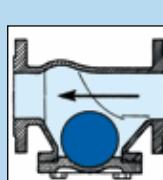
- Pumping of sewage.
 - Water purification plants
 - Sanitation plants
 - Mining works, public works

VERTICAL
ASCENDINGHORIZONTAL
Lodging of the
ball above the
axis

- Transfer of viscous or abrasive
fluids, sludges and muds
- Drainage of cellars

FUNCTIONNING OF “THE FLOATING BALL” APPLICATIONS

TO AVOID OVERFLOW OF WATER RISING AND ALSO ALLOW GAS
EVACUATION IN FILLING OF TANKS OR PIPES (AIR-VENT).

VERTICAL
MOUNTING
Seat upHORIZONTAL
MOUNTING
Lodging of the ball below
the axis. The arrow shows
the direction in which the
liquid is rising.

Foot valves

VISCOUS, LOADED OR THICK LIQUIDS

PRESSURE PFA/PS in bar 0 80°

CASING :

318 : GJS ductile iron epoxy coated
308 : GJS ductile iron epoxy coated

STRAINER : galvanised steel

Seal : NBR

BALL :

Aluminium, NBR coated (DN50 to 100)
Cast iron, NBR coated (DN >)APPROVALS :   PED 97/23/CE

318

308

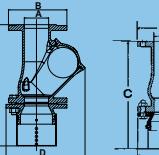


drilled flange PN10

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	mm	water									
2	50	10	10	10	x	x	3.3	149B 3150	1	597,65	
2 ^{1/2}	65	10	10	10	x	x	3.3	149B 3151	1	642,33	
3	80	10	10	10	x	x	3.3	149B 3152	1	843,30	
4	100	10	10	10	x	x	3.3	149B 3153	1	1023,61	
5	125	10	10	10	x	x	3.3	149B 3154	1	1372,55	
6	150	10	10	10	x	x	3.3	149B 3155	1	1711,17	
8	200	10	10	10	x	x	3.3	149B 3156	1	2720,56	
10	250*	10	10	10	x	x	1	149F 019180	1	5627,57	
12	300*	10	10	10	x	x	1	149F 018860	1	9210,13	
14	350*	10	10	10	x	x	1	149B 3029	1	15080,27	

* Type 308

TECHNICAL INFORMATION

Types
318-308
with flanges

A mm	B mm	C mm	D mm	Kg	KV m ³ /H	ζ
50	165	280	173	8,0	64,35	2,41
65	185	324	214	12,5	154,35	1,20
80	200	396	252	17,0	195,75	1,70
100	220	467	289	22,5	287,1	1,94
125	250	401	368	35,0	671,4	0,87
150	285	649	424	48,0	1020,33	0,78
200	340	826	509	85,0	2489,4	0,41
250	400	966	582	157,9	2970	0,70
300	455	1112	721	261,4	3700	0,90
350	505	1317	820	421,3	4365	1,23

SEWAGE SYSTEMS, WASTE WATER, SLURRIES

PRESSURE PFA/PS in bar 0 80°

CASING : cast iron with epoxy coating

BALL : synthetic resin

SEAL : NR (natural rubber) / CR (polychloroprene)

APPROVAL :



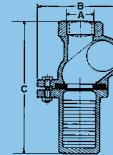
30



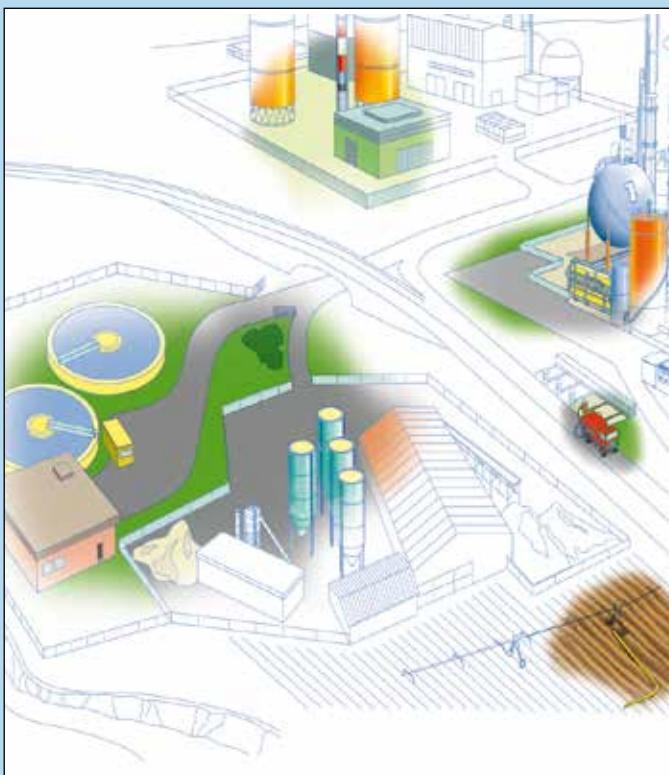
female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	mm	water									
1	10	10	10	x	x	x	3.3	149B 2322	1	150,15	
1 ^{1/4}	10	10	10	x	x	x	3.3	149B 2323	1	161,45	
1 ^{1/2}	10	10	10	x	x	x	3.3	149B 2324	1	188,63	
2	10	10	10	x	x	x	3.3	149B 2325	1	243,68	
2 ^{1/2}	10	10	10	x	x	x	3.3	149B 2327	1	323,81	
3	10	10	10	x	x	x	3.3	149B 2368	1	762,10	

TECHNICAL INFORMATION

Type 30
female

A mm	B mm	C mm	D mm	Kg	KV m ³ /H	ζ
1	26/34	104	183	1,9	16	2,40
1 1/4	33/42	119	198	2,4	23	3,10
1 1/2	40/49	137	215	3,2	40	2,50
2	50/60	157	256	4,1	63	2,50
2 1/2	66/76	179	292	6,5	103	2,60
3	80/90	214	303	12,9	165	2,35



APPLICATIONS

• Pumping of sewage

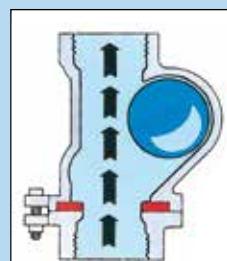
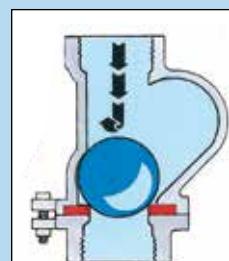
- WATER PURIFICATION PLANTS

- SANITATION PLANTS

- MINING WORKS, PUBLIC WORKS

• Transfer of viscous or abrasive fluids, sludges and muds

- Drainage of cellars

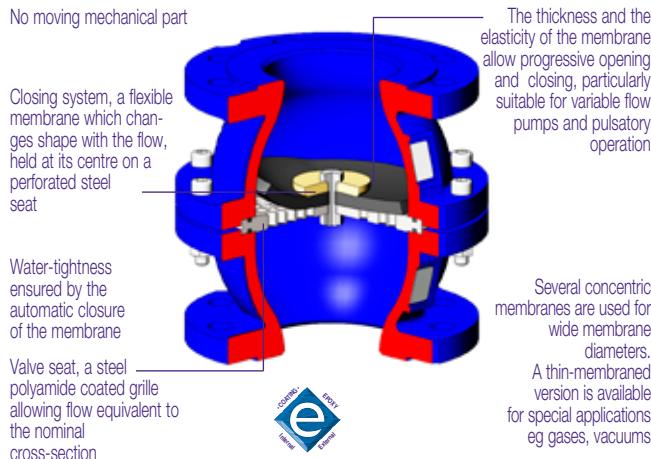
SUCTION PHASE
BALL IN SIDE CHAMBERNO FLOW PHASE
OPENING IS CLOSED



M SYSTEM

NON-RETURN CHECK VALVE

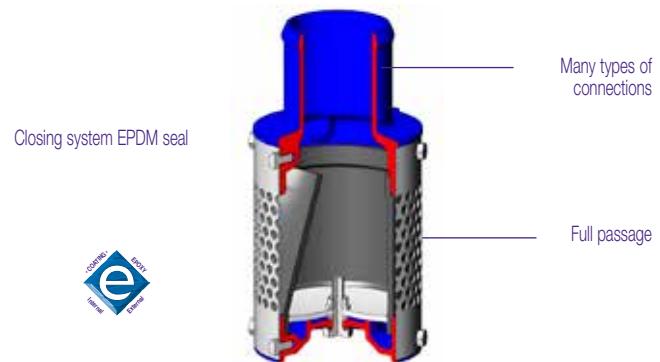
- Silent operation (in all positions)
- Protects against water hammering
- Very reliable
- Adapts to fluctuating flow rates



MI SYSTEM

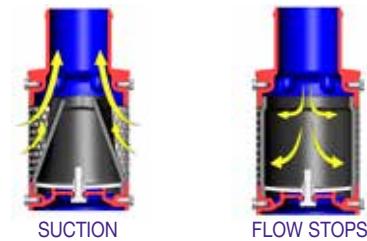
FOOT VALVE

- Low headloss
- Simplicity - Reliability
- Functions in leaning position



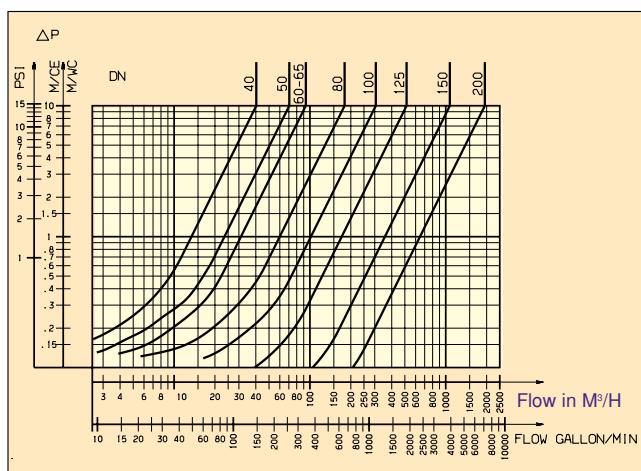
NON-RETURN

WORKING PRINCIPLE OF THE “MI” SYSTEM



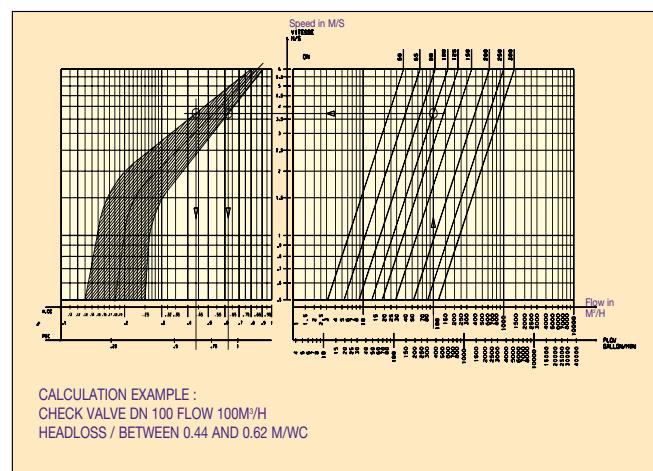
HEADLOSS CHART

TYPE 407



HEADLOSS CHART

TYPE MI



BOOSTING UNITS, VACUUM PUMPS,
COMPRESSED AIR...PRESSURE PFA/PS in bar $\theta 60^\circ$

CASING : GJL cast iron epoxy coated

SEAT :

DN40 to 80 : Stainless Steel

DN100 to 200 : PA (polyamid) coated steel

MEMBRANE : (natural rubber)

SEAL : EPDM

APPROVALS : ACS* PED 97/23/CE

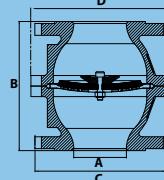
407



with PN10 flanges

DN "	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1½	40*	16	16	16	16	16	I	149B 2164	1		413,95
2	50*	16	16	16	16	16	I	149B 2165	1		488,81
2½	65*	16	16	16	15	16	I	149B 2166	1		617,74
3	80*	16	16	16	12	16	I	149B 2167	1		842,19
4	100	16	16	16	10	16	I	149B 2168	1		1082,53
5	125	16	16	16	0,5	16	I	149B 2169	1		1373,95
6	150	16	13	16	0,5	16	I	149B 2170	1		2068,18
8	200	10	10	10	0,5	10	I	149B 2237	1		2850,04

TECHNICAL INFORMATION

Types
407/407V
407B/407RR
with flanges

A "	B mm	C mm	D mm	Kg	KV m³/H	ζ
1½	40	148	150	140	6,9	40,3
2	50	158	164	159	8,9	70,5
2½	65	176	183	169	11,9	93,3
3	80	196	200	212	15,9	180,0
4	100	213	220	234	19,5	305,5
5	125	228	250	250	25,4	515,0
6	150	266	285	324	39,5	1072,0
8	200	349	340	426	81,6	1940,0

BOOSTING UNITS, VACUUM PUMPS,
COMPRESSED AIR...PRESSURE PFA/PS in bar $\theta 60^\circ$

CASING : GJL cast iron epoxy coated

Stainless steel seat

SEAL : EPDM

MEMBRANE : NR (natural rubber)

APPROVALS : ACS (except DN3/8) PED 97/23/CE

207

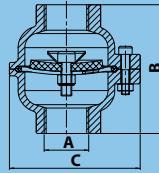


female/female

DN "	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
3/8*	16	16	16	16	16	3,3	I	149B 2019	1		147,32
1/2	16	16	16	16	16	3,3	I	149B 2100	1		80,74
3/4	16	16	16	16	16	3,3	I	149B 2101	1		80,74
1	16	16	16	16	16	3,3	I	149B 2102	1		93,34
1½	16	16	16	16	16	16	I	149B 2103	1		111,76
1½	16	16	16	16	16	16	I	149B 2104	1		140,23
2	16	16	16	16	16	16	I	149B 2105	1		202,13
2½	16	16	16	15	16	16	I	149B 2106	1		382,73
3	16	16	16	12	16	16	I	149B 2107	1		645,95

*Aluminium casing and seat

TECHNICAL INFORMATION

Type 207-207V
female/female

A "	B mm	C mm	D mm	Kg	KV m³/H	ζ
3/8	12/17	67,5	60,0	0,15	2,80	2,00
1/2	15/21	86,0	88,0	0,85	5,60	2,50
3/4	20/27	86,0	88,0	0,85	10,00	2,50
1	26/34	96,0	97,5	1,30	15,50	2,50
1 1/4	33/42	100,0	107,5	1,60	20,50	3,80
1 1/2	40/49	132,0	123,5	2,60	29,30	4,60
2	50/60	172,0	139,5	4,00	50,70	3,80
2 1/2	66/76	196,0	170,0	6,40	87,00	2,20
3	80/90	234,0	214,0	12,00	153,00	2,70

INDUSTRIAL SERVICES, COMPRESSED
AIR, VACUUM PUMPS, HYDROCARBONSPRESSURE PFA/PS in bar $\theta 60^\circ$

CASING : GJL cast iron epoxy coated

Length according to EN 558-1 serie 48

SEAT :

DN40 to 80 : Stainless Steel

DN100 to 200 : PA (polyamid) coated steel

SEAL : EPDM

MEMBRANE : NR (natural rubber)

APPROVAL : ACS* PED 97/23/CE

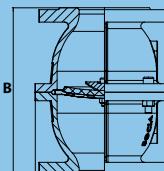
447



with PN10 flanges

DN "	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2½	65*	16	16	16	15	16	I	149B 2842	1		680,26
3	80*	16	16	16	12	16	I	149B 2843	1		926,49
4	100	16	16	16	10	16	I	149B 2844	1		1191,13
5	125	16	16	16	0,5	16	I	149B 2845	1		1511,29
6	150	16	13	16	0,5	16	I	149B 2846	1		2274,48
8	200	10	10	10	0,5	10	I	149B 2847	1		3137,63

TECHNICAL INFORMATION

Types 447/447B
447RR
with flanges

A "	B mm	C mm	D mm	Kg	KV m³/H	ζ
2½	65	240	185	169	11,9	78,4
3	80	258	200	212	16,5	157,0
4	100	299	220	234	26,3	255,0
5	125	347	250	332	448,9	1,90
6	150	396	285	324	966,4	0,85
8	200	496	340	426	2044,8	0,60



INDUSTRIAL SERVICES, COMPRESSED AIR,
VACUUM PUMPS, HYDROCARBONS

PRESSURE : PFA/PS in bar **Ø 100°**

CASING : GJL cast iron epoxy coated

SEAT 407 V :

DN40 to 80 : Stainless Steel

DN100 to 200 : Polyamid coated steel

SEAT 207 V : Stainless Steel

MEMBRANE and SEALS : FKM

APPROVALS :



(407V)



407V



207V



female/female

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
3/8"	16	16	16	16	16	16	3,3	149B 1513 4
1/2	16	16	16	16	16	16	3,3	149B 1407 6
3/4	16	16	16	16	16	16	3,3	149B 1640
1	16	16	16	16	16	16	3,3	149B 1412 4
1 1/4	16	16	16	16	16	16	1	162,10
1 1/2	16	16	16	16	16	16	1	149B 1413 4
2	16	16	16	16	16	16	1	237,80
2 1/2	16	16	16	16	16	16	1	298,71
3	16	16	16	16	16	16	1	380,19
4	16	16	16	16	16	16	1	732,47
8	200	10	10	10	0,5	10	1	1199,23

*Aluminum casing and seat

THERMAL WATER, AGGRESSIVE LIQUIDS

PRESSURE : PFA/PS in bar **Ø 60°**

CASING : GJL cast iron

447RR : length according to EN558-I serie 48

Inside and outside polyamid coating

SEAT : DN40 to 80 : Stainless Steel

DN100 to 200 : Polyamid coated steel

SEALS : EPDM - MEMBRANE : NR (natural rubber)

APPROVALS :



(407RR)



407RR



447RR



BOOSTING UNITS, VACUUM PUMPS,
COMPRESSED AIR...

PRESSURE : PFA/PS in bar **Ø 60°**

CASING : GJL cast iron epoxy coated

447B : length according to EN558-I serie 48

2 threaded bosses 1/2" with brass plug

SEAT : DN40 to 80 : Stainless Steel

DN100 to 200 : Polyamid coated steel

SEALS : EPDM - MEMBRANE : NR (natural rubber)

APPROVALS :



(407B)



407B



447B



BOOSTING UNITS, VACUUM PUMPS,
COMPRESSED AIR...

PRESSURE : PFA/PS in bar **Ø 60°**

CASING : GJL cast iron

SEAT :

DN40 to 80 : Stainless Steel

DN100 to 200 : Polyamid coated steel

SEALS and MEMBRANE : EPDM

APPROVALS :



(407B)



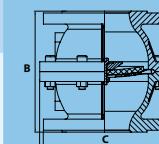
417



with PN25 flanges

DN	PFA	PS		Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2		
1 1/2	40	25	25	25	25	25	I	149B 2054
2	50	25	25	25	20	25	I	149B 2055
2 1/2	65	25	25	25	15	25	I	149B 2056
3	80	25	25	25	12	25	I	149B 2058
4	100	25	20	25	10	25	I	149B 2060
5	125	25	16	25	0,5	16	I	149B 2061
6	150	16	13	16	0,5	16	I	149B 2062

TECHNICAL INFORMATION



Type 417
with flanges

A	B	C	D	Kg	KV	ζ
"	mm	mm	mm	mm	m ³ /H	
1 1/2	40	148	150	140	7,2	25,5
2	50	158	165	160	9,1	43,5
2 1/2	65	176	185	170	10,8	55,4
3	80	196	200	212	16,0	111,1
4	100	231	235	245	25,0	181,0
5	125	329	270	274	30,0	317,0
6	150	395	300	341	44,0	683,0

Foot valves

IRRIGATION, LIMITED WORKING PRESSURE

PRESSURE PFA/PS in bar $\theta 60^\circ$

NIPPLE : GJL cast iron epoxy coated

STRAINER : galvanised steel

MEMBRANE : EPDM

OPTIONS : stainless steel (316L) strainer

Mounting with flexible hoses

APPROVAL : ACS

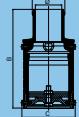
317



nipple

DN For internal D size mm	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
40	30	6	6	6	x	x	3.3	149B 2535	1	103,93	
50	40	6	6	6	x	x	3.3	149B 2537	1	117,33	
60	50	6	6	6	x	x	3.3	149B 2539	1	136,10	
70	60	6	6	6	x	x	3.3	149B 2541	1	147,17	
80	70	6	6	6	x	x	3.3	149B 2543	1	178,62	
90	80	6	6	6	x	x	3.3	149B 2544	1	178,62	
100	90	6	6	6	x	x	3.3	149B 2546	1	200,29	
110	98	6	6	6	x	x	3.3	149B 2547	1	279,71	
120	108	6	6	6	x	x	3.3	149B 2548	1	279,71	
150	138	6	6	6	x	x	3.3	149B 2550	1	405,31	
200	180	6	6	6	x	x	3.3	149B 2551	1	1394,89	
250	230	6	6	6	x	x	3.3	149F 01316	1	2437,19	
300	276	6	6	6	x	x	3.3	149B 2553	1	3238,08	
Type with draining system											
200	180	6	6	6	x	x	3.3	149B 2551 D	1	1478,90	
250	230	6	6	6	x	x	3.3	149B 2552 D	1	2521,54	
300	276	6	6	6	x	x	3.3	149B 2553 D	1	3321,84	

TECHNICAL INFORMATION

Type 317
nipple

Diam. passage mm	A mm	B mm	C mm	Kg	KV m³/H	ζ
30	43	172	92	1,78	72	0,77
40	54	182	92	1,88	113	0,77
50	64	192	92	1,94	191	0,77
60	74	224	121	3,44	221	0,77
70	84	250	137	4,40	289	0,77
80	94	280	150	5,33	366	0,77
90	104	290	150	5,47	451	0,77
98	114	324	165	7,50	705	0,77
108	124	334	165	7,51	705	0,77
138	154	405	205	13,18	1015	0,77
180	206	482	276	28,50	1805	0,77
230	258	561	336	42,00	2820	0,77
276	308	656	401	67,90	4061	0,77

IRRIGATION, LIMITED WORKING PRESSURE

PRESSURE PFA/PS in bar $\theta 60^\circ$

FLANGE : GJL cast iron epoxy coated

STRAINER : galvanised steel

MEMBRANE : EPDM

OPTIONS : stainless steel (316L) strainer

APPROVAL : ACS

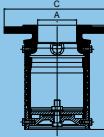
327



with flange PN10

DN " mm	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	50	6	6	6	x	x	3.3	149B 2555	1	206,24	
2 ^{1/2}	65	6	6	6	x	x	3.3	149B 2556	1	206,24	
3	80	6	6	6	x	x	3.3	149B 2558	1	259,55	
4	100	6	6	6	x	x	3.3	149B 2560	1	323,81	
5	125	6	6	6	x	x	3.3	149B 2561	1	465,06	
6	150	6	6	6	x	x	3.3	149B 2562	1	626,43	
8	200	6	6	6	x	x	3.3	149B 2564	1	1729,28	
10	250	6	6	6	x	x	3.3	149B 2565	1	2304,10	
12	300	6	6	6	x	x	3.3	149B 2566	1	3182,26	
Type with draining system											
8	200	6	6	6	x	x	3.3	149B 2564 D	1	1812,77	
10	250	6	6	6	x	x	3.3	149B 2565 D	1	2387,55	
See draining kit for DN 60 to 150 mm											

TECHNICAL INFORMATION

Type 327
with flanges

A "	B mm	C mm	Kg	KV m³/H	ζ
2	50	151	3,15	113	0,77
2 1/2	65	182	4,96	191	0,77
3	80	205	6,22	221	0,77
4	100	228	7,58	289	0,77
5	125	258	10,37	366	0,77
6	150	303	16,02	451	0,77
8	200	385	31,60	705	0,77
10	250	441	44,10	1015	0,77
12	300	506	63,60	1205	0,77

IRRIGATION, LIMITED WORKING PRESSURE

PRESSURE PFA/PS in bar $\theta 60^\circ$

CONNECTION : GJL cast iron epoxy coated

STRAINER : galvanised steel

MEMBRANE : EPDM

OPTIONS : stainless steel (316L) strainer

APPROVAL : ACS

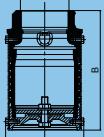
337



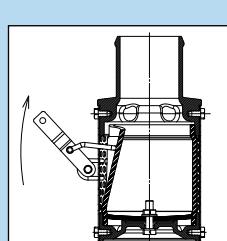
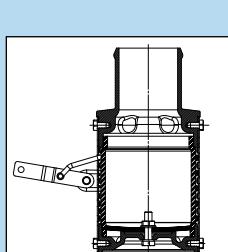
female

DN " mm	PFA water	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
2	6	6	6	x	x	x	3.3	149B 2572	1	150,04	
2 ^{1/2}	6	6	6	x	x	x	3.3	149B 2574	1	229,65	
3	6	6	6	x	x	x	3.3	149B 2575	1	234,51	
4	6	6	6	x	x	x	3.3	149B 2577	1	261,89	

TECHNICAL INFORMATION

Type 337
female

A "	B mm	C mm	Kg	KV m³/H	ζ
2	50/60	153	92	1,88	113
2 1/2	66/76	185	121	3,41	191
3	80/90	205	137	4,38	221
4	102/104	230	150	5,65	289

WORKING PRINCIPLE
OF THE DRAINAGE SYSTEM (optional)

Optional draining system

For types 317, 327 and 337

For diameters over 150 mm,

we realise all the mounting
of the kit.

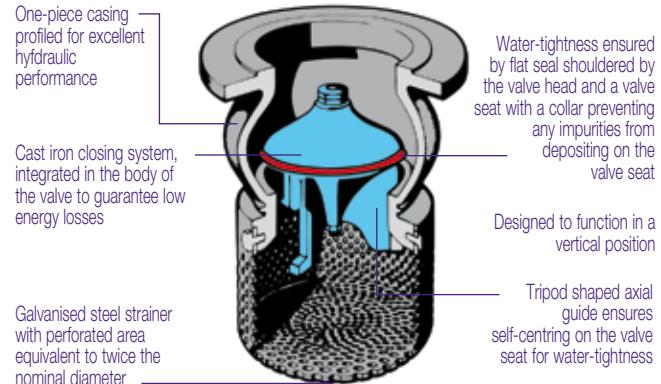
DN " mm	Ref.	U	V	€
65-110	149F 0084 29	1	41,72	
120-150	149F 0084 49	1	47,63	
200-300	149F 0084 52	1	63,86	



TJ SYSTEM

- Excellent hydraulic performances
- For pumping systems with substantial flow
- Robust and reliable

FOOT VALVE



For clear water pumping systems with substantial flow, requiring large valves for supply systems, irrigation and industry.
Cast iron closing system with profiled entry face and tripod axial guiding.

PUMPING, WATER DISTRIBUTION

PRESSURE PFA/PS in bar		Ø 60°
CASING : GJL cast iron external epoxy coated		
CLOSING SYSTEM + GUIDE : GJL cast iron		
SEAL : EPDM		
STRAINER : galvanised steel		
APPROVALS :   PED 97/23/CE ACS		

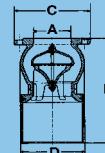
144

with PN10 flange

DN mm	PFA water	PS L1	PS L2	Cat G1	Ref. G2	U V	€
200	10	10	10	x	x	3.3	149B 3414 1 2258,29
250	6	6	6	x	x	3.3	149B 3415 1 3319,06
300	6	6	6	x	x	3.3	149B 3416 1 5647,09
350	6	6	6	x	x	1	149B 3417 1 8254,36
400	6	6	6	x	x	1	149B 3418 1 12061,90
450	4	4	4	x	x	3.3	149B 3419 1 14655,15
500	4	4	4	x	x	3.3	149B 3420 1 21630,98
600	4	4	4	x	x	1	149B 3422 1 25064,48

TECHNICAL INFORMATION

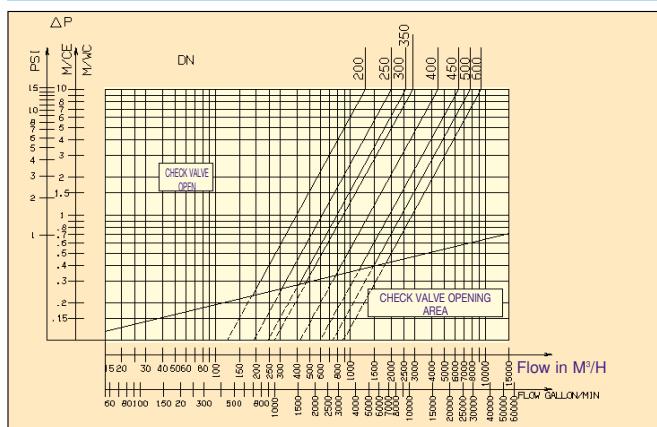
Type 144
with flange



A mm	B mm	C mm	D mm	Kg	KV m³/H	ζ
200	525	340	320	50	1293	1,5
250	635	395	402	86	2020	1,5
300	735	445	480	125	2585	1,9
350	852	540	560	195	2898	2,8
400	978	597	635	293	4480	2,0
450	1095	635	715	415	6340	1,6
500	1170	699	790	545	7826	1,6
600	1265	780	965	790	9399	2,3

HEADLOSS CHART

TYPE 144



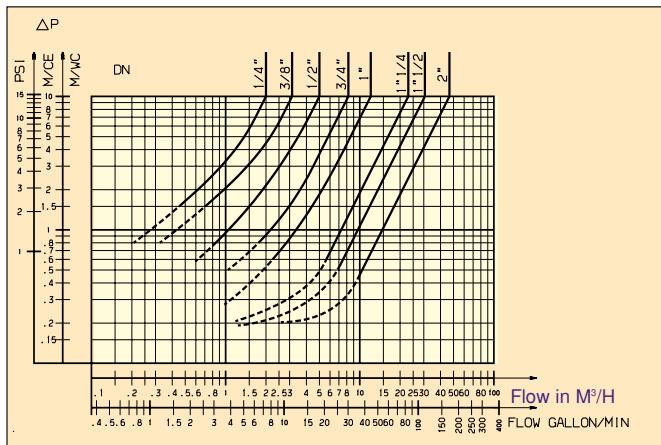


TJO + FL + 04 SYSTEMS

- Comprehensive range, many versions available
- High hydraulic performances

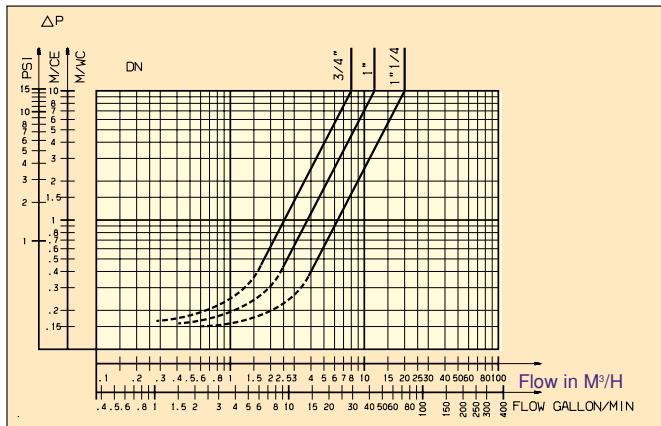
HEADLOSS CHART

TYPE TJO



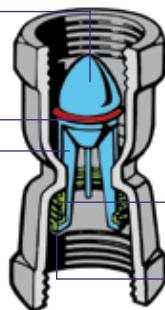
HEADLOSS CHART

TYPE 104



NON-RETURN VALVE

Low headloss flat closing system except 1"



Stainless steel spring allows valve to work in any position

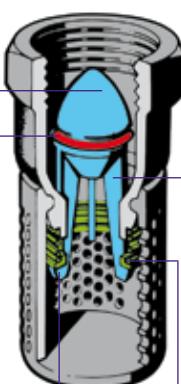
Watertightness provided by toric seal allowing many different applications

Axial guide system upstream

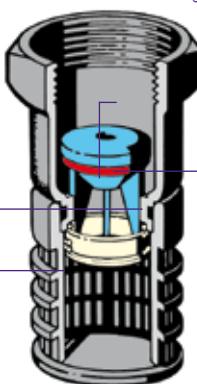
Washer for spring

FOOT VALVE

Low headloss hydraulic design except 1"



Tightness with flat seal



Tightness with O-ring

Upstream axial guiding system

Spring stop washer

Stainless steel spring to allow any fitting position

TYPE	BRASS CASING	POM CASING	PP CASING	STAINLESS STEEL CASING	BRONZE CASING	PPO CASING	NON RETURN VALVE	FOOT VALVE
290	●						●	
297	●						●	
290D				●			●	
297D			●	●			●	
290P				●			●	
290X					●		●	
209	●						●	
190	●							●
190D			●					●
190P				●				●
190X					●			●
193D			●					●
193/114	●							●
60S						●		●
104	●							●
104P		●		●			●	

HOUSING, WATER DISTRIBUTION,
PUMPING

290



PRESSURE PFA/PS in bar Θ 80°

CASING : brass

CLOSING SYSTEM :

DN1/4 to 1/2 PA (Polyamid),
DN3/4 to 2" POM (Polyacetal)

SEALS : EPDM O'ring

SPRING : stainless steel

APPROVALS : ACS

BUREAU
VERTAS

female/female

DN	PFA	PS		Cat	Ref.	U	V	€	
"	water	L1	L2	G1	G2				
1/4	10	10	10	10	3,3	149B 3118	10	28,09	
3/8	10	10	10	10	3,3	149B 3119	10	26,39	
1/2	10	10	10	10	3,3	149B 3120	10	27,78	
3/4	10	10	10	10	3,3	149B 3121	10	35,30	
1	10	10	10	10	3,3	149B 3122	10	44,30	
1 1/4	10	10	10	x	10	3,3	149B 3123	10	62,67
1 1/2	10	10	10	x	10	3,3	149B 3124	6	84,59
2	10	10	10	x	10	3,3	149B 3125	6	128,82

HOUSING, WATER DISTRIBUTION,
PUMPING

290D



PRESSURE PFA/PS in bar Θ 80°

CASING : POM (polyacetal)

CLOSING SYSTEM :

DN3/8 - 1/2, PA (Polyamid),
DN3/4 - 1", POM (Polyacetal)

SEAL : EPDM O'ring

SPRING : stainless steel

APPROVALS : ACS

BUREAU
VERTAS

female/female

DN	PFA	PS		Cat	Ref.	U	V	€	
"	water	L1	L2	G1	G2				
3/8	10	10	10	10	10	3,3	149B 3319	10	13,23
1/2*	10	10	10	10	10	3,3	149B 3320	10	13,62
3/4	10	10	10	10	10	3,3	149B 3321	10	14,22
1	10	10	10	10	10	3,3	149B 3322	10	21,57

*PA 11

INDUSTRY, CHEMICAL
AND FOOD INDUSTRIES

290P



PRESSURE PFA/PS in bar Θ 80°

CASING : PP (polypropylene)

CLOSING SYSTEM : PP (polypropylene)

SEAL : FKM O'ring

SPRING : stainless steel

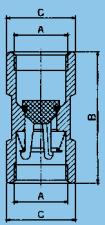
APPROVAL :

BUREAU
VERTAS

female/female

DN	PFA	PS		Cat	Ref.	U	V	€	
"	water	L1	L2	G1	G2				
3/8	10	10	10	10	10	3,3	149B 1129	1	29,47
1/2	10	10	10	10	10	3,3	149B 14066	1	31,47
3/4	10	10	10	10	10	3,3	149B 1502	1	33,37

A	B	C	Kg	KV	ζ
"	mm	mm	mm	m³/H	
1/4	8/13	52,5	19	0,080	2,00
3/8	12/17	54,0	19	0,080	3,13
1/2	15/21	66,0	27	0,130	5,00
3/4	20/27	73,0	30	0,220	8,23
1	26/34	94,0	38	0,370	12,07
1 1/4	33/42	105,0	47	0,470	23,00
1 1/2	40/49	127,0	53	0,750	31,00
2	50/60	156,0	66	1,010	46,60

Type 290X
female/female

WATER DISTRIBUTION,
BUILDING, HEATING

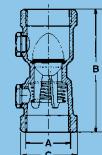
PRESSURE PFA/PS in bar $\theta 80^\circ$
CASING : brass
2 tapped bosses, POM (polyacetal) plugs
CLOSING SYSTEM :
 DN1/2" : PA (polyamid)
 DN3/4" to 2" : POM (polyacetal)
SEAL : EPDM O'ring
SPRING : stainless steel
APPROVAL : ACS

209

female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/2	10	10	10	10	10	10	3.3	149B 3250	10	27,48	
3/4	10	10	10	10	10	10	3.3	149B 3251	10	35,14	
1	10	10	10	10	10	10	3.3	149B 3252	10	44,83	
1 1/4	10	10	10	x	10	3.3	149B 3253	10	83,01		
1 1/2	10	10	10	x	10	3.3	149B 3254	6	105,56		
2	10	10	10	x	10	3.3	149B 3255	6	140,91		

TECHNICAL INFORMATION

Type 209
female/female

A	B	C	Kg	KV	ζ
1/2	15/21	66	26	0,160	5,00
3/4	20/27	73	30	0,185	8,23
1	26/34	94	38	0,295	12,07
1 1/4	33/42	105	47	0,420	23,00
1 1/2	40/49	127	53	0,590	30,00
2	50/60	156	66	1,090	46,60

Foot valves

HOUSING, PUMPING

190



PRESSURE PFA/PS in bar $\theta 60^\circ$
CASING : brass
CLOSING SYSTEM :
 POM (polyacetal)
SEAL : EPDM
SPRING : stainless steel
STRAINER : PE (polyethylene)
APPROVALS : ACS



female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water										
1 1/2	10	10	10	x	x	3.3	149B 3924	6	60,99		
2	10	10	10	x	x	3.3	149B 3925	6	99,17		

PUMPING OF SPECIAL FLUIDS
(CHEMICAL AND HYDROCARBONS)

190P



PRESSURE PFA/PS in bar $\theta 60^\circ$
CASING : PP (polypropylene)
CLOSING SYSTEM : PP (polypropylene)
SEAL : FKM
SPRING : stainless steel
STRAINER : PP (polypropylene)
APPROVAL :



female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water										
3/8	10	10	10	x	x	3.3	149B 2017	1	13,70		
1/2	10	10	10	x	x	3.3	149B 14065	1	18,99		
3/4	10	10	10	x	x	3.3	149B 1128	1	24,26		

TECHNICAL INFORMATION

190

A	B	C	Kg	KV	ζ
" mm	mm	mm	Kg	m ³ /H	
1 1/2	40/49	148	53	0,320	30,6

*1

*2

50/60

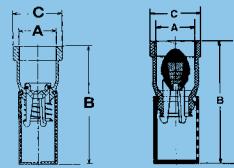
179

66

0,820

48,5

4,1

Types 190/190X
female

190X

A	B	C	Kg	KV	ζ
" mm	mm	mm	Kg	m ³ /H	
*3/4	20/27	75	31	0,120	7,9

*3/4

20/27

97

36

0,210

11,9

4,3

*1

26/34

119

47

0,360

23,0

3,1

*1 1/4

33/42

148

53

0,530

27

5,5

*1 1/2

40/49

148

53

0,820

42

5,5

*2

50/60

179

66

0,820

42

5,5

190P

A	B	C	Kg	KV	ζ
" mm	mm	mm	Kg	m ³ /H	
3/8	12/17	56	23	0,015	2,8

*3/4

15/21

56

27

0,020

2,8

10,8

*1

20/27

75

31

0,044

7,4

4,6

*1 1/4

33/42

119

49

0,125

23,0

3,1

*1 1/2

40/49

148

56

0,170

30,6

4,3

*2

50/60

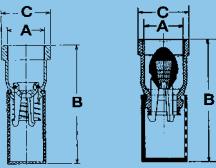
180

66

0,190

48,5

4,1

Types 190P/190X
femaleDrawing 1* : Ø 3/4 - 1 1/4 - 1 1/2 - 2
Drawing 2 : Ø 3/8 - 1/2 - 1

HOUSING, PUMPING,
HYDROCARBONS...PRESSURE PFA/PS in bar $\theta 60^\circ$

CASING : POM (polyacetal)

CLOSING SYSTEM :

DN3/8" to 1/2" : PA (polyamid)

DN3/4" to 2" : POM (polyacetal)

SEAL : FKM

SPRING : stainless steel

STRAINER : PE (polyethylene)

APPROVAL :



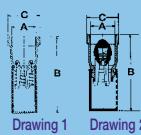
193D



female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water										
3/8	10	10	10	x	x	3.3	149B 3619	10	7,44		
1/2	10	10	10	x	x	3.3	149B 3620	10	7,97		
3/4	10	10	10	x	x	3.3	149B 3621	10	12,10		
1	10	10	10	x	x	3.3	149B 3622	10	20,14		
1 1/4	10	10	10	x	x	3.3	149B 3623	10	26,04		
1 1/2	10	10	10	x	x	3.3	149B 3624	6	37,06		
2	10	10	10	x	x	3.3	149B 3625	6	55,04		

TECHNICAL INFORMATION

Type 193D
female

A	B	C	Kg	KV m³/H	ζ
"	mm	mm	mm		
3/8	12/17	59,0	23	0,060	2,5
1/2	15/21	59,0	24	0,050	2,5
3/4	20/27	64,5	30	0,085	8,0
1	26/34	78,5	37	0,115	11,9
1 1/4	33/42	97,0	47	0,240	20,0
1 1/2	40/49	148,0	53	0,530	24,0
2	50/60	179,0	66	0,820	37,3

Drawing 1 : Ø 3/4" - 1 1/4" - 1 1/2" - 2

Drawing 2 : Ø 3/8" - 1/2" - 1

HOUSING, PUMPING,
HYDROCARBONS...PRESSURE PFA/PS in bar $\theta 65^\circ$

CASING : brass

CLOSING SYSTEM :

DN3/8" to 1/2" : PA (polyamid)

DN3/4" to 2" : POM (polyacetal)

SEAL : FKM

SPRING : stainless steel

STRAINER : PE (polyethylene)

APPROVAL :



193/114

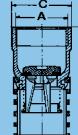


female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
"	water										
3/8	10	10	10	x	x	3.3	149B 3819	10	27,14		
1/2	10	10	10	x	x	3.3	149B 3820	10	27,14		
3/4*	10	10	10	x	x	3.3	149B 2371 V	10	20,28		
1*	10	10	10	x	x	3.3	149B 2372 V	10	27,35		
1 1/4 *	10	10	10	x	x	3.3	149B 2373 V	10	41,06		
1 1/2	10	10	10	x	x	3.3	149B 3824	6	93,65		
2	10	10	10	x	x	3.3	149B 3825	6	151,60		

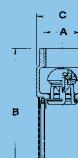
* Type 114

TECHNICAL INFORMATION

Type 114
female

A	B	C	Kg	KV m³/H	ζ
"	mm	mm	mm		
3/8	12/17	57	23	0,015	2,5
1/2	15/21	57	27	0,020	2,5
*3/4	20/27	75	31	0,044	6,6
*1	26/34	95	40	0,073	9,7
*1 1/4	33/42	119	49	0,125	18,4
*1 1/2	40/49	148	56	0,170	24,0
2	50/60	180	66	0,190	37,3

TECHNICAL INFORMATION



Type 60S female

A	B	C	Kg	KV m³/H	ζ
"	mm	mm	mm		
3/4	20/27	90	33	0,14	6,5
1	26/34	125	49	0,36	16,5
1 1/4	33/42	127	57	0,45	26,0
1 1/2	40/49	138	65	0,73	34,0
2	50/60	146	77	0,95	3,60
2 1/2	66/76	198	93	2,80	75,0
3	80/90	243	116	5,00	111,0
4	102/114	315	156	8,60	171,0

Types 104 - 104P female

A	B	C	Kg	KV m³/H	ζ
"	mm	mm	mm		
3/4	20/27	64,5	34	0,03	8,0
1	26/34	78,5	40	0,04	4,30
1 1/4	33/42	97,0	49	0,07	20,0

HOUSING, DOMESTIC
PUMPING

104

PRESSURE PFA/PS in bar $\theta 65^\circ$

CASING : brass

CLOSING SYSTEM : POM
(polyacetal)

SEAL : EPDM

SPRING : stainless steel

STRAINER and screws : stainless steel

APPROVALS :



ACS

HOUSING, DOMESTIC
PUMPING

104P

PRESSURE PFA/PS in bar $\theta 65^\circ$

CASING : PPO (polyphenylene oxide)

Except for DN 1" : POM (polyacetal)

CLOSING SYSTEM : POM (polyacetal)

SEAL : EPDM

SPRING : stainless steel

STRAINER : PE (polyethylene)

APPROVALS :



ACS

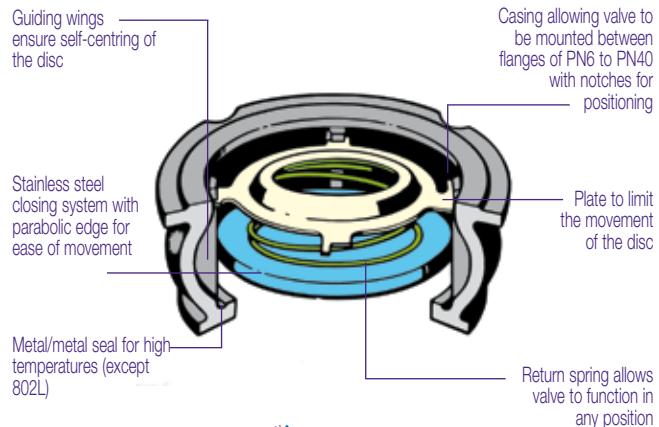
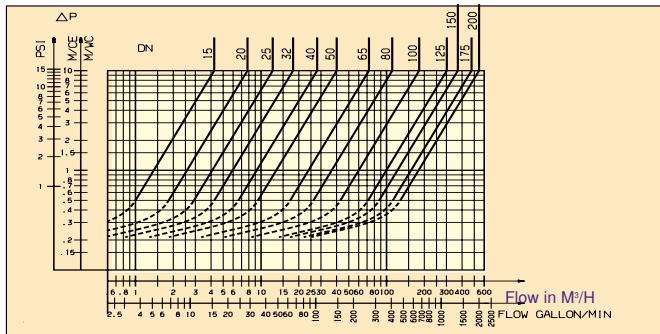


W SYSTEM

- Excellent performance at high pressure and temperature
- Easy to connect
- Space-saving

HEADLOSS CHART

TYPE 802



Return spring allows valve to function in any position

HEATING, INDUSTRIAL PROCESS

PRESSURE PFA/PS in bar $\Theta 200^\circ$
65 to 200 mm $\Theta 100^\circ$

CASING : DN 32 to 50 : DZR brass

DN 65 to 100 : cast iron GJL ext. epoxy coated
DN 125 to 200 : ductile iron GJS ext. epoxy coated

CLOSING SYSTEM: stainless steel (316L)

DN 125 to 200 : all cast iron closing system

GUIDE : austenitic steel

SPRING : austenitic steel

APPROVALS :

802

between flanges PN6-10-16-ASA150

DN	PFA	PS		Cat	Ref.	U	V	€	
"	mm	water	L1	L2	G1	G2			
1 1/4	32	16	16	16	16	16	I	149B 2413	1 111,98
1 1/2	40	16	16	16	16	16	I	149B 2414	1 113,66
2	50	16	16	16	16	16	I	149B 2415	1 116,60
2 1/2	65	16	16	16	15	16	I	149B 2416	1 143,44
3	80	16	16	16	12	16	I	149B 2417	1 190,66
4	100	16	16	16	10	16	I	149B 2418	1 270,32
5	125	16	16	16	0,5	16	I	149B 2439	1 387,04
6	150	16	13	16	0,5	16	I	149B 2440	1 529,31
8	200	16	10	16	0,5	16	I	149B 2441	1 890,85

*DN 125 to 200 : assembling PN 10/16

TECHNICAL INFORMATION

Types 802 - 802L - 802Z - 812 - 812X

- 812XL
between flanges

A	B	C	PIN / H	Kg	KV	
"	mm	mm	mm	mm	m³/H	ζ
1/2	15	16,0	44	53	0,10	4,24
3/4	20	19,0	54	63	0,14	7,80
1	25	22,0	64	73	0,23	12,40
1 1/4	32	28,0	78	84	0,35	18,00
1 1/2	40	31,5	88	94	0,52	28,00
2	50	40,0	98	109	0,73	40,10
2 1/2	65	46,0	118	129	1,52	72,50
3	80	50,0	134	144	2,17	111,00
4	100	60,0	154	162	3,35	182,00
5	125	90,0	192	198	5,55	302,00
6	150	106,0	218	227	12,70	370,00
8	200	140,0	273	285	23,40	546,00

812X

INDUSTRY, CORROSIVE FLUIDS, HIGH PRESSURE AND TEMPERATURE

PRESSURE PFA 40 bar / PS in bar $\Theta 350^\circ$

CASING : stainless steel (304) / DN80-100 (316L)

Mounting between two flanges with centering collar

CLOSING SYSTEM : stainless steel 316L for
DN 15 to 100 / stainless steel 304 above

GUIDE : stainless steel

DN15 (316L) / DN20 to 100 (304L),
DN125 to 150 (316L) / DN175 to 200 (304)

SPRING : stainless steel

APPROVALS :

812

between flanges PN6-10-16-25-40-ASA150-ASA300

DN	PFA	PS		Cat	Ref.	U	V	€	
"	mm	water	L1	L2	G1	G2			
1/2	15	40	40	40	40	3,3	I	149B 2420	1 49,82
3/4	20	40	40	40	40	3,3	I	149B 2421	1 51,80
3/4	20	40	40	40	40	II	I	149B 027054*	1 122,86
1	25	40	40	40	40	3,3	I	149B 2422	1 58,37
1	25	40	40	40	40	II	I	149B 2422C2*	1 141,34
1 1/4	32	40	40	30	40	I	I	149B 2423	1 75,70
3/2	40	40	40	40	40	II	I	149B 2423C2*	1 198,16
1 1/2	40	40	40	25	40	I	I	149B 2424	1 79,68
1 1/2	40	40	40	40	40	II	I	149B 2424C2*	1 201,89
2	50	40	40	40	20	I	I	149B 2425	1 100,41
2	50	40	40	40	40	II	I	149B 2425C2*	1 226,56
2 1/2	65	40	30	40	15	I	I	149B 2426	1 155,99
2 1/2	65	40	40	40	40	II	I	149B 2426C2*	1 290,48
3	80	25	40	12	40	I	I	149B 2427	1 292,90
3	80	40	40	40	40	II	I	149B 2427C2*	1 447,94
4	100	40	20	40	10	I	I	149B 2428	1 368,61
4	100	40	40	40	40	II	I	149B 2428C2*	1 534,99
5	125	40	16	40	0,5	I	I	149B 2429	1 752,97
5	125	40	40	28	40	I	I	149B 2429C2*	1 977,00
6	150	40	13	40	0,5	I	I	149B 2430	1 1159,32
6	150	40	40	23	33	II	I	149B 2430C2*	1 1444,34
8	200	16	16	16	16	I	I	149B 2431*	1 1732,98
8	200	40	40	17	25	I	I	149B 2432*	1 1872,44

* Conformed to the Directive 94/9/CE (products or systems used in a explosive atmosphere)

INDUSTRY, PROCESS LIQUIDS, HIGH PRESSURE AND TEMPERATURE, STEAM SERVICE

PRESSURE PFA 40 bar / PS in bar $\Theta 350^\circ$

All stainless steel (316L)

Between flanges

APPROVALS :



* Conformed to the Directive 94/9/CE (products or systems used in a explosive atmosphere)

between flanges PN6-10-16-25-40-ASA150-ASA300

DN	PFA	PS		Cat	Ref.	U	V	€		
"	mm	water	L1	L2	G1	G2				
1/2	15	40	40	40	40	40	3,3	I	149B 2420X	1 80,68
3/4	20	40	40	40	40	40	3,3	I	149B 2421X	1 101,60
3/4	20	40	40	40	40	40	II	I	149B 027054*	1 179,87
1	25	40	40	40	40	40	3,3	I	149B 2422X	1 104,58
1	25	40	40	40	40	40	II	I	149B 027055*	1 203,17
1 1/4	32	40	40	40	40	40	40	I	149B 2423X	1 116,53
1 1/4	32	40	40	40	40	40	II	I	149B 018819*	1 245,13
1 1/2	40	40	40	40	25	40	I	I	149B 2424X	1 119,51
1 1/2	40	40	40	40	40	40	II	I	149B 018820*	1 248,55
2	50	40	40	40	40	20	I	I	149B 2425X	1 161,36
2	50	40	40	40	40	40	II	I	149B 018821*	1 296,67
2 1/2	65	40	30	40	15	40	I	I	149B 2426X	1 199,18
2 1/2	65	40	40	40	40	40	II	I	149B 018822*	1 340,17
3	80	40	25	40	12	40	I	I	149B 2427X	1 336,76
3	80	40	40	40	40	40	II	I	149B 018823	1 498,23
4	100	40	20	40	10	40	I	I	149B 2428X	1 418,31
4	100	40	40	40	40	40	II	I	149B 018824*	1 592,17
5	125	40	16	40	0,5	28	I	I	149B 2429X	1 948,16
5	125	40	40	40	28	40	II	I	149B 018825*	1 1201,50
6	150	40	13	40	0,5	23	I	I	149B 2430X	1 1195,18
6	150	40	40	40	23	33	II	I	149B 018826*	1 1485,55
8	200	16	16	16	16	16	I	I	149B 2431X(*)	1 2291,69
8	200	40	40	40	17	25	II	I	149B 2432X(*)	1 2451,06

(1) PN16-ASA150 - (2) PN25/40-ASA300

PROTECTION OF PUMPS, VALVES, PRESSURE REDUCING VALVE

PRESSURE PFA/PS in bar **Ø 100°**

WATER FILTERS :

GJL cast iron epoxy coated int/ext. : DN40 to 50
GJS ductile iron epoxy coated int/ext. : DN65 to 400

STRAINER : stainless steel

Internal / external epoxy coating

MESH Ø :

DN 40-50 : 500 microns - DN 65 : 800 microns
DN 80-200 : 1250 microns - DN 250-400 : 1600 microns

Delivered with plug G 1/2" (DN40 to 150) and G 3/4" (DN200 to 400)

APPROVALS :  PED 97/23/CE ACS *WRAS

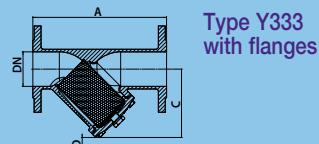
Y333



with PN10 flanges

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1½	40	16	16	x	x	3.3	149B 3260	1	78,88		
2	50	16	16	x	x	3.3	149B 3261	1	91,37		
2½	65	16	16	x	x	3.3	149B 3262	1	119,83		
3	80	16	16	16	x	x	3.3	149B 3263	1	155,12	
4	100	16	16	16	x	x	3.3	149B 3264	1	204,89	
5	125	16	16	16	x	x	3.3	149B 3265	1	319,52	
6	150	16	13	16	x	x	3.3	149B 3266	1	427,11	
8	200*	10	10	10	x	x	3.3	149B 3267	1	854,77	
10	250*	10	10	10	x	x	1	149B 3268	1	1745,52	
12	300*	10	10	10	x	x	1	149B 3269	1	1938,02	
14	350	10	10	10	x	x	1	149B 3794	1	3536,61	
16	400	10	10	10	x	x	1	149B 3797	1	4523,81	

TECHNICAL INFORMATION



Type Y333
with flanges

Ø mm	A mm	C mm	D mm	Mesh	Kg	KV m³/H	ζ
40	200	130	35	0,50	6,5	42,70	2,20
50	230	145	50	0,50	8,5	66,70	2,20
65	290	192	65	0,80	11	89,00	3,50
80	310	159	75	1,25	13,5	127,00	4,00
100	350	187	90	1,25	18	200,00	3,90
125	400	249	125	1,25	27,5	364,00	2,60
150	480	326	145	1,25	43	494,00	3,30
200	600	403	220	1,25	83	937,00	2,90
250	730	472	200	1,60	112	1137,00	4,80
300	850	508	250	1,60	160	1844,00	3,80
350	980	587	315	1,60	297	1137,00	4,80
400	1100	658	370	1,60	406	1844,00	3,80

PROTECTION OF PUMPS, VALVES, PRESSURE REDUCING VALVE

PRESSURE PFA 25 bar **Ø 110°**

WATER FILTER : brass

STRAINER : stainless steel

MESH : 500 microns

FEATURE :
cap delivered with plug (nylon 66) 1/4" G

APPROVAL : ACS

Y222



female/female

DN	"	Ref.	U	V	€
1/2		149B 6520	1		24,28
3/4		149B 1769	1		24,28
1		149B 1770	1		33,43
1 1/4		149B 1771	1		43,39
1 1/2		149B 1772	1		69,24
2		149B 1773	1		102,25

TECHNICAL INFORMATION



Type Y222
female/female

DN	"	A mm	B mm	Kg
1/2		61,0	38	0,180
3/4		68,0	45	0,280
1		86,5	57	0,450
1 1/4		105,0	69	0,800
1 1/2		117,0	80	0,900
2		147,0	99	1,200

INDUSTRIAL PROCESS, CORROSIVE LIQUIDS, HIGH PRESSURE, HIGH TEMPERATURE

PRESSURE PFA 40bar / PS in bar **Ø 175°**

FILTER : AISI 316 stainless steel

Threaded with purge plug

MESH : 600 microns

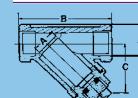
Y666



female/female

DN	PFA	PS	L1	L2	G1	G2	Cat	Ref.	U	V	€
1/4	40	40	40	x	x	3.3	149B 5271	1	97,28		
3/8	40	40	40	x	x	3.3	149B 5272	1	97,28		
1/2	40	40	40	x	x	3.3	149B 5273	1	105,52		
3/4	40	40	40	x	x	3.3	149B 5274	1	127,79		
1	40	40	40	x	x	3.3	149B 5275	1	144,46		
1 1/4	40	40	40	x	x	3.3	149B 5276	1	188,90		
1 1/2	40	40	40	x	x	3.3	149B 5277	1	255,57		
2	40	40	40	x	x	3.3	149B 5278	1	350,43		

TECHNICAL INFORMATION



Type Y666
female/female

A	B	C	D	Kg	KV m³/H	ζ
1/4	57	32	0,150	0,50	1,00	
3/8	57	32	0,150	0,65	3,00	
1/2	61	36	0,210	1,03	3,80	
3/4	70	41	0,280	5,30	7,40	
1	86	44	0,460	8,70	8,70	
1 1/4	100	51	0,680	13,30	9,00	
1 1/2	111	59	0,920	19,34	8,80	
2	138	72	1,450	30,21	11,5	

PRESSURE PFA 10 bar **Ø 70°**

Nipple for flexible hose

Nipples



male

DN	Flexible	Ref.	U	V	€
3/8	9/12	149F 007 311	10*		1,70
3/8	9/12	149F 007 313	10**		1,76
1/2	13/15	149F 007 312	10*		2,08
3/4	20/24	149F 007 307	10**		2,60
3/4	13/15	149F 007 314	10**		2,49
1	23/27	149F 007 308	10**		2,88
1 1/4	30/32	149B 5188	10***		7,71
1 1/4	37/40	149B 157 05	10***		7,71
1 1/2	44/47	149F 007 310	10*		9,91

TECHNICAL INFORMATION



Type nipple
male/male

A	B	C	D	Kg
3/8	41	8	13	0,005
3/8	41	8	13	0,003
1/2	42	10	16	0,005
3/4	62,5	13	19,8	0,012
3/4	41	9,5	16	0,010
1	57	19	28	0,021
1 1/4	65	24	32	0,035
1 1/4	65	31	40	0,030
1 1/2	74	37	48	0,045

STRAINERS

PUMPING

$\Theta 60^\circ$

Male CONNECTION : PA6 (polyamid)

STRAINER : AISI 304 stainless steel

MESH Ø : Ø 1,2

APPROVAL :

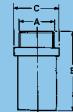


101



TECHNICAL INFORMATION

Type 101
male



A "	B mm	C mm	Kg
3/8	42,0	26	0,030
1/2	47,5	30	0,040
3/4	58,0	32	0,055
1	70,0	40	0,080
1 1/4	75,5	48	0,120
1 1/2	83,0	54	0,180
2	99,0	65	0,185

PUMPING

$\Theta 60^\circ$

CASING : 3/8 to 2" : POM (polyacetal)

except 3/4 and 1 1/4" : PPO (polyphenylene oxide)

STRAINER : 3/8 and 1/2 : POM (polyacetal)

3/4 to 2" : PE (polyethylene)

APPROVALS :



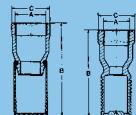
ACS

191D



TECHNICAL INFORMATION

Type 191D
female



A "	B mm	C mm	Kg
3/8	12/17	57,0	0,010
1/2	15/21	57,0	0,015
3/4	20/27	64,5	0,028
1	26/34	78,5	0,040
1 1/4	33/42	97,0	0,063
1 1/2	40/49	149,0	0,108
2	50/60	180,0	0,130

PUMPING, IRRIGATION

$\Theta 80^\circ$

FLANGE : cast iron epoxy coated

STRAINER : PP (polypropylene)

APPROVALS :



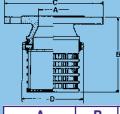
ACS

46



TECHNICAL INFORMATION

Type 46
with flange



A "	B mm	C mm	D mm	Kg
2	50	127	165	2,05
2 1/2	65	149	185	2,75
3	80	179	200	3,75
4	100	215	220	4,84

PUMPING, IRRIGATION

$\Theta 100^\circ$

FLANGE : cast iron epoxy coated

STRAINER : galvanised steel

APPROVALS :



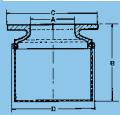
ACS

46G



TECHNICAL INFORMATION

Type 46G
with flange



A "	B mm	C mm	D mm	Kg
2	50	100	165	2,15
2 1/2	65	120	185	2,93
3	80	140	200	3,99
4	100	167	220	5,81
5	125	217	250	7,00
6	150	250	285	9,50
7	175	281	315	14,00
8	200	326	340	20,00
10	250	366	395	25,00
12	300	414	445	36,50
14	350	444	505	55,00
16	400	464	565	75,50

PUMPING, PUMPING OF CORROSIVE MEDIUMS, SEA WATER... INDUSTRIAL PROCESS

$\Theta 350^\circ$

FLANGE : 304L stainless steel

STRAINER : 304L stainless steel

MESH : Ø 40 to Ø 300 : Ø 6 on 8,5 mm centres

Ø 350 to Ø 1000 : Ø 10 on 13 mm centres

APPROVALS :



ACS



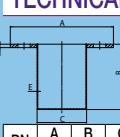
OPTIONS : special adaptations in 316L stainless
steel on request

46 X



TECHNICAL INFORMATION

Type 46X
with flange



DN mm	A mm	B mm	C mm	D mm	E mm	kg
40	150	95	72	5	1	0,63
50	165	87	87	5	1	0,73
65	185	106	107	5	1	0,91
80	200	126	122	5	1	1,01
100	220	154	142	5	1	1,23
125	250	194	172	5	1,5	1,91
150	285	217	195	5	1,5	2,46
175	315	235	240	8	1,5	2,46
200	340	254	250	8	1,5	4,35
250	395	352	305	8	2	9,34
300	445	382	355	8	2	11,62
350	505	402	425	8	2	14,03
400	565	430	465	8	2	17,25
450	615	480	513	8	2	20,60
500	670	548	568	8	2	25,16
600	780	654	667	8	3	48,15
700	895	822	782	10	3	70,32
800	1015	918	892	10	3	89,63
900	1115	1044	992	10	3	110,42
1000	1230	1158	1092	10	3	135,05

TEL. +33 3 85 97 42 42

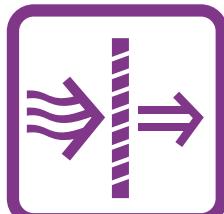
SOCIA



Controlling water distribution

Water distribution in networks is becoming more and more complex, because of urbanisation ; the quality service owed to the consumer and the wish to improve efficiency by lowering energy consumption.

Socla proposes in this Regulation category a wide range of stabilisers ; but also different air control devices (air valves, pulsairs, injectors).

	Pages	
		
	General guide / Operating principles	56
	Technical information - standard valve	57
	Downstream stabilisers / Upstream stabilisers Upstream - Downstream stabilisers	58
	Differential Stabilisers	58
	Altitude valves electrical, pilot or float operated	59
	Anti-water hammer protection	60
	Pump protection On/off option - overspeed protection	60
	Flow rate control	60
	Valve : options	61
	Safety valves - Pressure reducing valves	62 to 63
	Desbordes pressure reducing valves Anti water hammer valves	64 to 68
	Pressure gauges and accessories	69
	Services to pump	70
	Solenoid valves	71
	Air valves - air control	72 to 73



Choosing a specific control system

Required to equalise, at different levels, the circulation of water in distribution systems, control valves fulfil multiple functions. The tables below allow you to make a preliminary selection in line with your specific needs.

PRESSURE CONTROL

	C 101	C 101 C	C 101 DS	C 102	C 104	C 104 C	C 108	C 108 C	C 301	C 301 C	C 301 DS	C 306	C 306 C	C 401	C 401 C	C 1001
Modulating*	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Downstream reducing and stabilizing	■	■	■		■	■	■	■		■	■					
Downstream reducing and stabilizing with 2 settings				■												
Upstream sustaining					■	■	■	■	■	■	■	■	■	■	■	■
Holding a differential pressure												■	■	■		
Backflow prevention feature		■				■		■		■		■			■	
Backflow prevention on the discharge circuit																
Double direction flow if upstream P. <downstream P.			■								■					
Full opening at a preset upstream pressure							■	■								

FAVOUR FUNCTION

	C 801	C 802
Fully closed or fully open* (non modulating)	■	■
Adjustable opening or closing		■
Normally closed when switched off	■	
Normally open when switched off		■
Electrically operated	■	■

*A "modulating" valve holds a certain level of opening allowing to maintaining the preset function parameters.

FLOW AND LEVEL CONTROL

	C 901	C 901 C	C 902	C 902 C	C 903	C 903 C	C 904	C 904 C	C 907	C 907 C
Modulating*	■	■	■	■	■	■	■	■	■	■
Maintaining a maximum flow	■	■	■	■	■	■	■	■	■	■
Reducing and stabilizing flow downstream			■	■					■	■
With upstream pressure sustaining in addition					■	■	■	■	■	■
Controlling the upper level				■	■					
Backflow prevention feature		■		■	■		■	■	■	■

PROTECTION AND CONTROL

	C 501	C 502	C 503	C 601	C 906	AB 900
Against water hammer	■					
Against electrical failures		■	■			
Pump protection				■		
Slow opening and closing				■		
Electrically operated (3 ways solenoid valve)		■	■	■		
Against "overspeed flow"					■	
Against downstream pipe breakage						■

RESERVOIR CONTROL

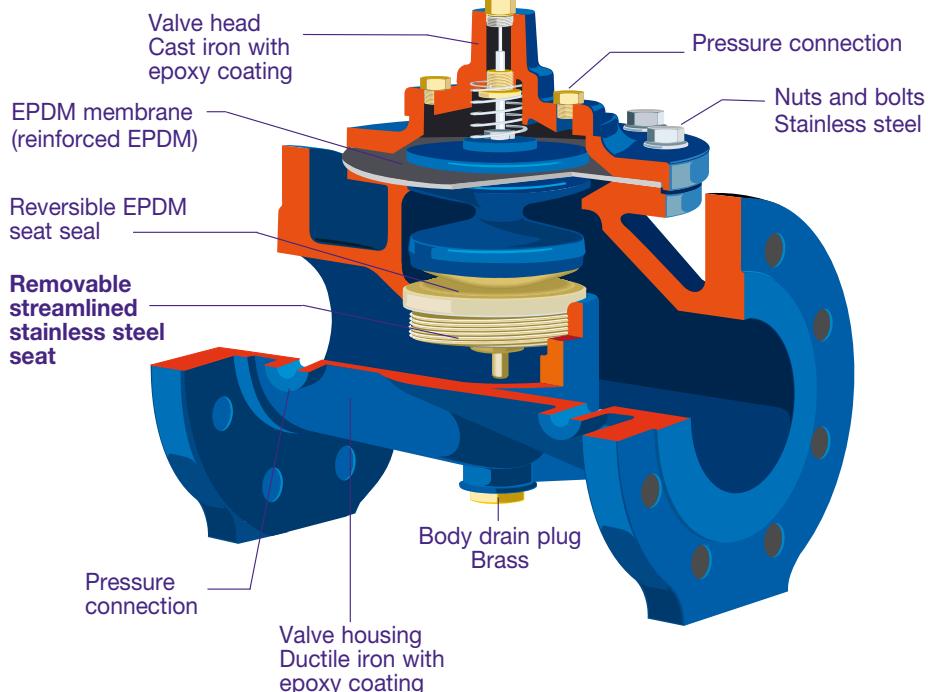
	C 201	C 201 C	C 201 DS	C 221	C 701	C 702	C 707	C 707 C	C 727	C 717	C 737
Modulating*	■	■	■	■	■	■					
Non modulating (fully open or fully closed)						■	■	■	■	■	■
Controlling the upper level	■	■	■	■	■	■					
Opens at low level - Closes at upper level						■	■	■	■	■	■
With upstream sustaining				■		■			■		
With backflow prevention feature		■					■				
Upstream double direction flow if P< Tank P.			■								
Levels set by floats or sensors					■	■	■	■			
Float operated				■	■				■	■	
Mechanically operated				■	■				■	■	
Electrically operated (2 ways solenoid valve)						■	■	■	■		

AIR CONTROL

	VE 120	VE 320	VE 330
Clear water			
Releasing air under pressure	■	■	
Fast release of air		■	
Fast influx of air		■	
Waste water			
Releasing air under pressure			■
Fast release of air			■
Fast influx of air			■



CE PED 97/23/CE
for all control valves
PN10/16 and PN25
DN 40 to 200 : cat 3.3
DN 250 and 300 : cat. I



PN according to EN 1092-2

PRESSURE TABLE FOR CONTROL VALVES

DN	PN	PFA	PS				Cat
			bar	L1	L2	G1	
1 1/2"			10/16	16	16	x	x 3.3
	40 and 50		10/16	16	16	x	x 3.3
	65	10/16	16	16	16	x	x 3.3
	80	10/16	16	16	16	x	x 3.3
	100	10/16	16	16	16	x	x 3.3
	125	10/16	16	16	16	x	x 3.3
	150	10/16	16	16	16	x	x 3.3
	200	10	10	10	10	x	x 3.3
	250	10	10	10	10	x	x 1
	300	10	10	10	10	x	x 1
	200	16	16	10	16	x	x 3.3
	250	16	16	10	16	x	x 1
	300	16	16	10	16	x	x 1
1 1/2"			25	25	25	25	x x 3.3
	40 and 50		25	25	25	25	x x 3.3
	65	25	25	25	25	x	x 3.3
	80	25	25	25	25	x	x 3.3
	100	25	25	20	25	x	x 3.3
	125	25	25	16	25	x	x 3.3
	150	25	25	13	25	x	x 3.3
	200	25	25	10	25	x	x 3.3
	250	25	25	10	25	x	x 1
	300	25	25	10	25	x	x 1

INSTALLATION EXAMPLE TYPE C101 - C102 - C104 - C108



Butterfly valve
SOCLA
page 82



Filter Y333P
SOCLA
pages 7-52



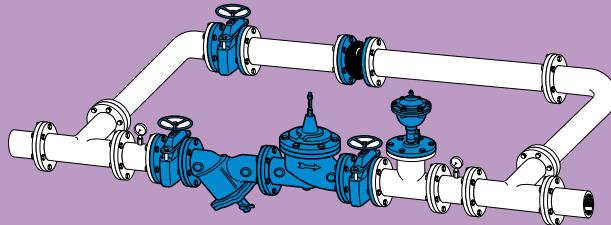
Rubber expansion joint
SOCLA
page 76



Pressure gauge
page 69



Air valve VE120
SOCLA
page 73



REGULATION MAINTENANCE

We recommend a maintenance control each 6 or 12 months according to the quality of the water.

Checking and cleaning filters of the pilot circuit and main piping system.

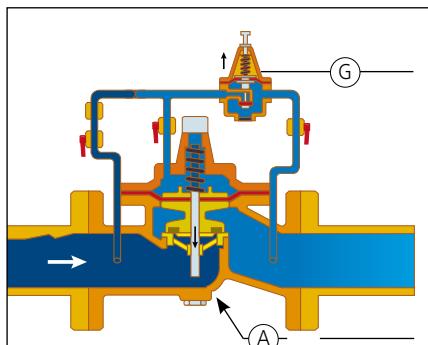
Purging the upper chamber by means of the visual position indicator.

Flushing the valves not frequently used.

Every 5 years, a general maintenance is advisable.

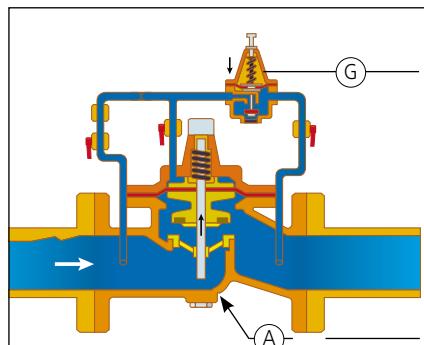
Working principle (Pressure reducing valve type C101)

CLOSING



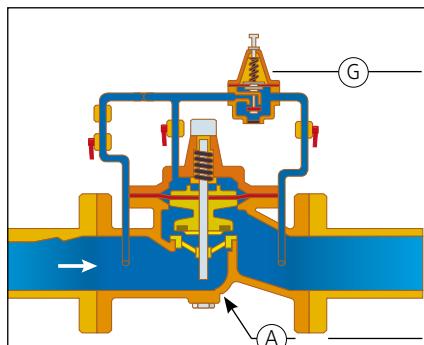
When the downstream pressure rises, the pilot valve G closes. Pressure in the upper chamber rises also and forces the membrane to close the main valve A which reproduces the movement of the pilot.

OPENING



When the downstream pressure is too low, no pressure is acting on the membrane and the pilot G opens. Pressure in the upper chamber is released and the valve A opens reproducing the movement of the pilot.

CONTROLLING



When the pilot G opens or closes, pressure in the upper chamber forces more or less on the membrane to open or close the main valve.



TECHNICAL INFORMATION

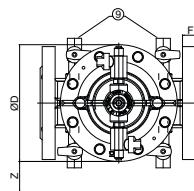
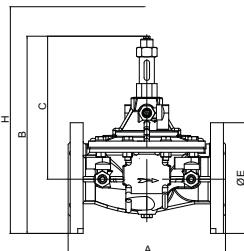
MINIMUM UPSTREAM PRESSURE : 1 BAR

TEMPERATURE MAX : 90° C

VERSION WITH FLANGES : PFA 25 IF NOT INDICATED

THREADED VERSION 1 1/2 F/F EXCEPT C 900

VERTICAL INSTALLATION : IN OPTION



H : MAX. VERTICAL
OVERALL DIMENSION
(including the pilot circuit)

(9) PRESSURE GAUGES

IMPORTANT

- Pilot circuit always mounted on the right hand side of valve, looking downstream direction of valve (for other execution, consult us).
- Control valve installed according to your parameters. These parameters are always required with the order : this is necessary to guarantee a correct functioning of your installation.

IT IS ADVISABLE TO USE A STRAINER UPSTREAM AND AN AIR RELIEF VALVE DOWNSTREAM

DIMENSIONS (except type 900)

DN	A mm	B mm	C mm	Ø D mm	Ø E mm	F mm	H mm Except C501	H mm C501	Z mm	Kg	9	10
1" 1/2(F/F)	230	267	210	170	6 pans (t)	-	400	800	254	8	1/4	1/4
40	230	285	210	170	152	23	400	800	254	12	1/4	1/4
50	230	285	210	170	161	23	400	800	254	13	1/4	1/4
65	290	352	257	200	185	24	470	770	254	21	3/8	1/4
80	310	372	272	217	200	26	500	790	254	26	3/8	3/8
100	350	423	302	241	235	28	510	810	254	39	3/8	3/8
125	400	506	371	296	270	30	570	870	254	59	3/8	3/8
150	480	551	401	363	300	20	650	1070	254	73	3/8	3/8
200	600	709	529	467	360	22	750	1150	254	122	3/8	3/8
250	730	844	631	587	425	24	900	1260	254	208	1/2	1/2
300	850	975	730	680	486	27	1100	1370	254	328	1/2	1/2

(1) 78 / flats

DIMENSIONS TYPES 901 - 902 - 903 - 904 - 906

DN	A mm	B mm	C mm	Ø D mm	Ø E mm	F mm	H mm	Z mm	Kg	9	10
40	274	285	210	170	152	23	400	254	15	1/4	3/8
50	274	285	210	170	161	23	400	254	16	1/4	3/8
65	314	352	257	200	185	24	470	254	24	3/8	1/4
80	334	372	272	217	200	26	500	254	29	3/8	3/8
100	374	423	302	241	235	28	510	254	42	3/8	3/8
125	430	506	371	296	270	30	570	254	63	3/8	3/8
150	512	551	401	363	300	20	650	254	77	3/8	3/8
200	626	709	529	467	360	22	750	254	127	3/8	3/8
250	760	844	631	587	425	24	900	254	218	1/2	1/2
300	880	975	730	680	486	27	1100	254	348	1/2	1/2

Connection : flanges drilled PN 10 - PN 16 - PN 25 : to be specified

HOW TO SELECT THE RIGHT SIZE

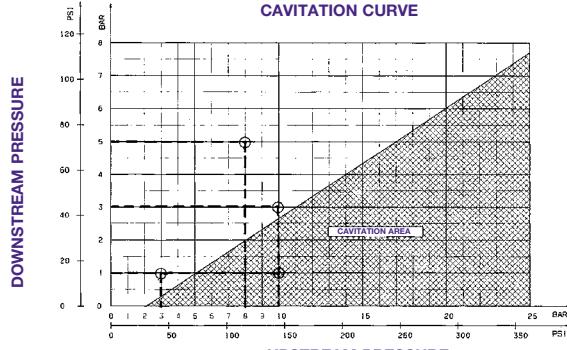
To size this valve correctly and avoid undesirable operating characteristics (noise, excessive wear, poor regulation) which result from oversizing (or undersizing), use the sizing guide and choose the smallest valve size compatible with the indicated flow rates.

NOTA :

- For a throttling valve application requiring a wide range of flows a dual valve installation should be used.
- The maximum flow rates listed above were calculated by using a velocity of 4,5 m/second. The throttling valve is capable of handling larger flows for short periods of time ; however, the increase in maximum flow should be limited to 25% of the above values.
- For C900 series : min. flow 1m/s.a

Sizes	Mini m ³ /h Except C 900	Maxi m ³ /h C 900	m ³ /h	L/s	ζ
1"1/2	0,520	-	20,34	26,35	5,78
40	0,675	5	32,00	45,66	12,68
50	0,675	7	32,00	45,66	12,68
65	0,855	14	54,00	57,75	16,08
80	1,600	18	82,00	80,00	22,22
100	2,720	28	127,00	136,00	37,78
125	4,400	44	199,00	220,00	61,11
150	5,280	64	286,00	264,00	73,33
200	13,500	113	509,00	600,00	166,67
250	25,000	177	795,00	900,00	250,00
300	40,900	255	1145,00	1224,00	340,00

CAVITATION

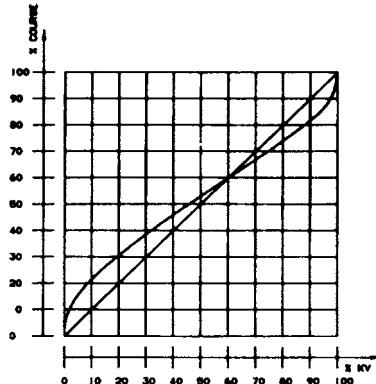


A too large differential pressure and a low downstream pressure may result in damage to the valve by cavitation. To avoid it, refer to the cavitation curve.

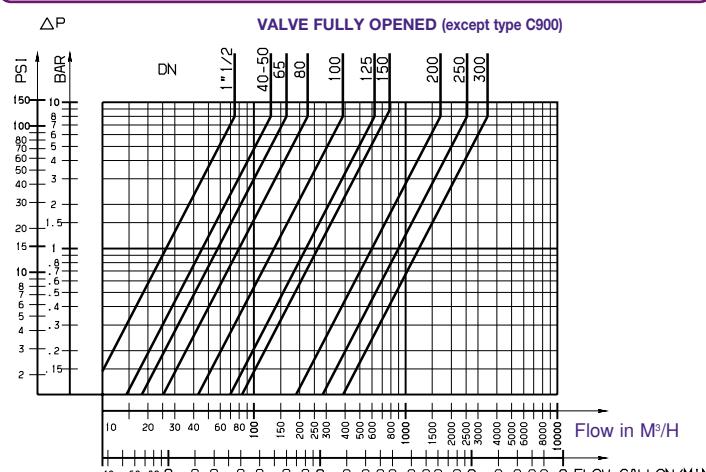
To avoid cavitation please refer to above diagram and if needed reduce the differential pressure by installing and connecting two or more control valves in same line (consult us). Stainless steel seat and counter seat are standard

KV FACTOR

FLOW RATE OPENING



HEADLOSS CHART





PRESSURE REDUCING VALVES



ACS
WRAS

Controls and maintains a constant preset reduced downstream pressure regardless of variations in downstream demand or upstream pressure.

C101



DN	€
1"1/2 (F/F)	1482,35
40 and 50	1482,35
65	1620,89
80	2213,61
100	2826,47
125	3498,52
150	4150,75
200	5534,39
250	7194,65
300	9744,35



ACS

C101C



DN	€
1"1/2 (F/F)	1680,07
40 and 50	1680,07
65	1818,47
80	2411,34
100	3024,22
125	3676,43
150	4348,34
200	5870,19
250	7510,91
300	10080,29



ACS
WRAS

Type C 101 equipped with two identical pilot valves. The addition of a second pilot allows uninterrupted working while servicing one of the pilots or ease the change of a different pressure setting.

C102



DN	€
1"1/2 (F/F)	2174,26
40 and 50	2174,26
65	2371,96
80	3024,22
100	3715,79
125	4447,20
150	5494,71
200	6127,10
250	9289,53
300	12056,80



ACS

C108



Type C 101 enables the main valve to fully open if the upstream pressure is below a preset level.

DN	€
1"1/2 (F/F)	2174,26
40 and 50	2174,26
65	2371,96
80	3024,22
100	3715,79
125	4447,20
150	5494,71
200	6127,10
250	9289,53
300	12056,80

COMBINED PRESSURE REDUCING VALVES



ACS
WRAS

Working with two pilots, maintains a preset upstream pressure and a preset downstream pressure reduction.

C104



DN	€
1"1/2 (F/F)	2055,54
40 and 50	2055,54
65	2233,44
80	2865,98
100	3458,84
125	4150,75
150	4743,63
200	6423,70
250	8301,35
300	10179,17



ACS

C104C



Type C 104 provided with a check valve feature.

DN	€
1"1/2 (F/F)	2273,09
40 and 50	2273,09
65	2431,18
80	3043,71
100	3676,43
125	4348,34
150	4941,37
200	6720,15
250	8597,94
300	10475,59

BACK PRESSURE VALVES



ACS
WRAS

Controls and maintains a preset upstream pressure, regardless of variations in downstream demand.

C301



DN	€
1"1/2 (F/F)	1522,03
40 and 50	1522,03
65	1759,10
80	2371,96
100	2964,69
125	3557,72
150	4348,34
200	5929,53
250	7708,32
300	10080,29



ACS

C301C



Type C 301 provided with a check valve feature.

DN	€
1"1/2 (F/F)	1719,59
40 and 50	1719,59
65	1936,99
80	2569,38
100	3083,40
125	3755,46
150	4545,89
200	6225,98
250	8103,79
300	10376,74

DIFFERENTIAL BACK PRESSURE



ACS
WRAS

Differential pressure valve : maintains a constant preset differential pressure across the valve or a pump.

C306



DN	€
1"1/2 (F/F)	1778,94
40 and 50	1778,94
65	1976,52
80	2411,34
100	2964,69
125	3557,72
150	4545,89
200	6127,10
250	8894,38
300	11621,81



ACS

C306C



Type C 306 provided with a check valve feature.

DN	€
1"1/2 (F/F)	1976,52
40 and 50	1976,52
65	2174,26
80	2569,38
100	3162,43
125	3755,46
150	4743,63
200	6423,70
250	9190,98
300	11957,95



ALTITUDE VALVES FLOAT OPERATED



C701

ACS
WRAS

Controls the level of a tank.
Maintains constant level by means of float tap regulation.
(Connecting pipe Ø10/12 mm from the pressure tap to the valve not included)

DN	€
1"1/2 (F/F)	2134,58
40 and 50	2134,58
65	2332,31
80	2846,30
100	3202,10
125	3873,83
150	4783,30
200	6483,07
250	8637,29
300	10534,80

C702

ACS
WRAS

Type C 701 provided with a preset sustaining upstream pressure feature.
(Connecting pipe Ø10/12 mm from the pressure tap to the valve not included)

DN	€
1"1/2 (F/F)	2450,98
40 and 50	2450,98
65	2826,47
80	2905,50
100	3518,21
125	4249,46
150	4822,65
200	7668,98
250	11542,79
300	15515,83



C717



ACS

Regulates mechanically water in a tank by a volume by means of a float with 2 positions.
Closes at a preset high water level, opens at a given low water level.
Maximum difference of level : 3,6 m.
(Connecting pipe Ø4/6 mm from the pressure tap to the valve not included)

DN	€
1"1/2 (F/F)	2885,65
40 and 50	2885,65
65	3281,13
80	3300,80
100	3617,08
125	4249,46
150	5059,93
200	7985,07
250	10613,81
300	15021,66

C737



Type C717 provided with a pre-set upstream pressure sustaining feature.
Maximum difference of level : 3,6 m.
Connecting pipe Ø4/6 mm from the pressure tap to the valve not included.

DN	€
1"1/2 (F/F)	5929,53
40 and 50	5929,53
65	5929,53
80	6324,84
100	6680,63
125	7392,20
150	7886,22
200	10376,74
250	12847,41
300	15523,64

ALTITUDE VALVES FLOAT OPERATED



C707



ACS

Regulates contents of a tank by volume of water using float regulation (not included) : closes at a preset high water level and opens at a given low water level.

DN	€
1"1/2 (F/F)	1522,03
40 and 50	1522,03
65	1759,10
80	2371,96
100	2964,69
125	3557,72
150	4348,34
200	5929,53
250	7708,32
300	10080,29

C727



ACS

Type C 707 provided with a preset upstream pressure sustaining feature.

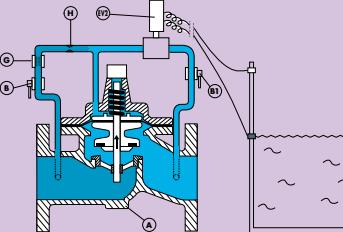
DN	€
1"1/2 (F/F)	2767,11
40 and 50	2767,11
65	3162,43
80	3182,26
100	3518,21
125	4190,27
150	5099,42
200	7906,06
250	12056,80
300	16148,21

WORKING PRINCIPLE

EXAMPLE : Type C707

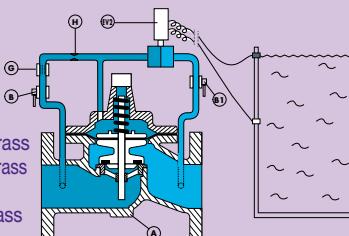
The low level sensor opens the solenoid valve, emptying the upper chamber.

The main valve opens.



The upper level sensor closes the solenoid valve, the upstream pressure in the upper chamber closes the main valve.

- Ⓐ Main valve housing : cast iron
- Ⓑ Upstream isolation valve : nickel-plated brass
- Ⓒ Downstream isolation valve : nickel-plated brass
- Ⓓ 2 ways solenoid valve - Ⓛ Filter : brass
- Ⓔ Orifice-needle valve : stainless steel or brass



ALTITUDE VALVES PILOT OPERATED



C201

ACS
WRAS

Prevents overflowing and maintains the level of water in a storage tank, pilot controlled exists in top-fill or bottom-fill versions. Minimum setting : 2 m

DN	€
1"1/2 (F/F)	2075,39
40 and 50	2075,39
65	2233,44
80	2846,30
100	3458,84
125	4150,75
150	4763,46
200	6403,88
250	8301,35
300	10574,47



C221



ACS

Same control valve as C201 but fitted with a preset upstream sustaining pressure function exists in top-fill or bottom-fill versions. Minimum setting : 2 m

DN	€
1"1/2 (F/F)	2713,93
40 and 50	2714,56
65	2983,24
80	3259,96
100	3858,82
125	4686,67
150	5173,19
200	7891,99
250	11673,88
300	15735,10

REGULATION



PROTECTION

OVERPRESSURE PROTECTION, DISCHARGE VALVE



ACS
WRAS

Installed for the protection against the excess of pressure

C401



DN	€
1"1/2 (F/F)	1522,03
40 and 50	1522,03
65	1759,10
80	2371,96
100	2964,69
125	3557,72
150	4348,34
200	5929,53
250	7708,32
300	10080,29



ACS

Type C401 provided with a check valve feature.

C401C



DN	€
1"1/2 (F/F)	1719,59
40 and 50	1719,59
65	1936,99
80	2569,38
100	3083,40
125	3755,46
150	4545,89
200	6225,98
250	8103,79
300	10376,74

ANTI-WATER HAMMER PROTECTION



ACS

Eliminates all pressure fluctuations which occur when pump starts, during electric power failure or pump failure.

C501



DN	€
1"1/2 (F/F)	2865,98
40 and 50	2865,98
65	3063,55
80	4348,34
100	4723,78
125	5672,62
150	6819,01
200	7570,09
250	9941,92
300	13954,13

PUMP PROTECTION



ACS

Eliminates pressure fluctuations and water hammer in the mains, when pump starts and shuts down, by slow and controlled opening and closing operation.

C601



DN	€
1"1/2 (F/F)	3083,40
40 and 50	3083,40
65	3320,48
80	3913,51
100	4545,89
125	5138,94
150	5810,99
200	7313,17
250	9171,14
300	11364,89

ON/OFF OPTION ELECTRICALLY CONTROLLED



ACS
WRAS
(C 801)

C801 : With solenoid valve normally closed. Opens when contact is on.
PN depending on solenoid valve.

C802 : With solenoid valve normally open. Closed when contact is on.

C801/C802



DN	€
1"1/2 (F/F)	1857,97
40 and 50	1857,97
65	2431,18
80	2431,18
100	2767,11
125	3557,72
150	4150,75
200	6720,15
250	8736,17
300	12906,76

OVERSPEED PROTECTION



ACS

Safety valve which closes when the flow speed exceeds a preset value. Protects against downstream pipe breakage.
Re-set manually.

C906



DN	€
40 and 50	4190,27
65	4486,70
80	4743,63
100	5138,94
125	6878,20
150	7115,61
200	11661,50
250	16207,40
300	19508,38

FLOW RATE CONTROL/FLOW LIMITER



ACS
WRAS

Controls and maintains a preset maximum flowrate at the delivery, regardless of changing upstream and downstream pressures.

C901



DN	€
40 and 50	1976,52
65	2174,26
80	2767,11
100	3360,17
125	4091,41
150	4822,65
200	6581,77
250	8597,94
300	11068,47



ACS
WRAS

Type C 901 + a control of high level of water in a tank by means of a regulating pilot.
(Exists in top-fill or bottom-fill versions).

C903



DN	€
40 and 50	3557,72
65	3735,62
80	4348,34
100	4941,37
125	5652,79
150	6364,51
200	8103,79
250	10139,50
300	12649,67



ACS
WRAS

Type C 901 provided with a preset downstream reduced pressure control feature.

C902



DN	€
40 and 50	2510,21
65	2668,26
80	3300,80
100	3913,51
125	4605,40
150	5316,83
200	7095,78
250	9092,10
300	11602,32



ACS
WRAS

Type C 901 provided with a preset sustaining upstream pressure feature.

C904



DN	€
40 and 50	2510,21
65	2668,26
80	3300,80
100	3913,51
125	4605,40
150	5316,83
200	7095,78
250	9092,10
300	11602,32



PRESSURE GAUGES



Pressure gauges with purge taps.
(10 bar, 16 bar, 25 bar)

OPTION 1

DN	€
1"1/2 (F/F)	138,37
40 and 50	138,37
65	142,28
80	142,28
100	142,28
125	142,28
150	142,28
200	150,26
250	150,26
300	150,26

SOLENOID VALVE

(Mounting position)



OPTION 3

	€
Normally closed	
DC 12V/CC	342,50
DC 24V/CC	342,50
AC 24V/50Hz	342,50
AC 220V/50Hz	342,50
Normally open	
DC 12V/CC	433,03
DC 24V/CC	433,03
AC 24V/50Hz	433,03
AC 220V/50Hz	433,03

2 way solenoid valve PN25 (on certain versions)
Others : consult us - IP65

POSITION INDICATOR



Mechanical position indicator (maxi 6 A,
300 V).
1 N.O. contact and 1 N/C contact - IP67

OPTION 4

DN	€
1"1/2 (F/F)	672,05
40 and 50	672,05
65	818,42
80	818,42
100	830,12
125	806,37
150	806,37
200	652,22
250	652,22
300	652,22

MOTORIZATION



OPTION 5

TYPE C900 EXCEPT C906
MOTORIZATION of regulating pilot
- Remote signal : 0-20 mA - 0-10 volt
- Supply voltage : 24 volts/50Hz
- Controllable flow rate by intensity variation
- Selection by switch

	€
	1792,76

PILOT INTERFACE FOR TYPE C101



Connecting box for hydro-electronic control. To be connected to the pilot for transfer of information from electronic memory (Electronic control not included).

OPTION 6

Ref.	€
149B 352901	236,59

In case of modification of an existing valve, consult us.

CONTROL VALVES type CL : a complete range



In addition to the standard control valves range, Socla proposes a range of control valves type CL for various applications.

- . Pressure reducing valves : CL101 - CL102
- . Back pressure valves : CL301 - CL306
- . Altitude valves float operated : CL701 - CL717
- CL707 - CL201

Our price list is available, on request.

VERTICAL MOUNTING

Changing of the main valve spring for a vertical mounting

	Spring	€
DN 40	NO	
DN 50		
DN 60/65	YES	93,98
DN 80		
DN 100		
DN 125		
DN 150		
DN 200	YES	230,57
DN 250		
DN 300		

OPTION 7

PN DIFFERENT FROM THE STANDARD

Flanges drilled for PN different from standard

	PN standard	€
1"1/2 F/F	10/16/25	116,60
40/50	10/16/25	116,60
65	10/16/25	116,60
80	10/16/25	140,32
100	10/16	164,07
125	10/16	197,75
150	10/16	235,30
200	10	310,26
250	10	415,13
300	10	533,69

OPTION 8

● STAINLESS STEEL PILOT PIPING ASSEMBLY
Stainless steel connections and pilot on some models

(Consult us)

OTHER OPTIONS

- FKM seals
Pilot + main valve
(Consult us)

TO PLACE AN ORDER / CHECK LIST

Please complete the details below necessary to process your order correctly :

Type : _____ Size : _____ End connections PN 10 PN 16 PN 25

Inlet pressure (min/max) : PFA or PS _____ Upstream pressure setting : _____

Outlet pressure : PFA or PS _____ Downstream pressure setting : _____

Differential pressure setting : _____ Flow pressure setting : _____

Difference between the level of the horizontal axis of the valve and that required in the tank : _____

Difference between high level and low level (for regulation between top and bottom in a reservoir) : _____

Distance of the valve from the reservoir : _____ Top-filled : Bottom-filled :

Maximum flow rate : _____ Minimum flow rate : _____

Voltage : _____ Current : Direct Alternating

Normal pump discharge pressure : _____ Pump shut off head : _____

Should valve be open or closed when power is switched off (electrically controlled valves) : _____

Installed position of valve : horizontal vertical other : _____

Other requirements : _____

TOOLS

ANIMATION TOOL :

Animation tool for discovering, step by step, the control valve operating principle and the diversity of the range.

Available on simple request or on downloading from our website <http://www.socla.com>

THE BEST WAY TO UNDERSTAND THE FUNCTION OF THE CONTROL VALVES.





OVERPRESSURE PROTECTION



WATER DISTRIBUTION

PFA PRESSURE 16 bar*
ACS

Safety valve to protect pipe systems from water hammering.
Cast iron or C-steel cap, C-steel flange, polyurethane seal, steel spring.

* DN200, 2 settings : 149B5897A (PN10) - 1 to 10 bar
149B5897C (PN16) - 9 to 16 bar

AB900

PN 16*

Ref. PN 16	DN	€
149B 5891	60	2903,11
149B 5892	65	2903,11
149B 5893	80	3034,31
149B 5894	100	3430,72
149B 5895	125	4879,47
149B 5896	150	8178,98
149B 5897*	200	8837,77

3 settings available
A : 1 to 7 bar - B : 6 to 12 bar
C : 10 to 16 bar



WATER DISTRIBUTION

AB900

PN 25

PFA PRESSURE 25 bar
ACS

Relief valve for protecting the pipes against water hammering. Cast iron or steel cap, steel flange, polyurethane valve seal, steel spring.

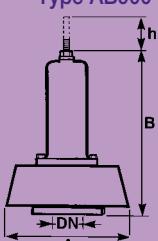
Spring : 16 to 25 bar

Ref. PN 25	DN	€
149B 009172	60	3165,49
149B 009174	65	3165,49
149B 009175	80	3494,88
149B 009176	100	3626,12
149B 009178	125	4815,27
149B 009179	150	7991,96

TECHNICAL INFORMATION

DN	A mm	B mm	h mm	Kg
60	380	510	120	30
65	380	510	120	30
80	380	510	120	32
100	400	520	120	36
125	570	550	130	65
150	570	550	150	80
200	690	700	180	120

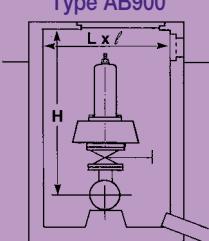
Type AB900



INSTALLATION

DN	H mm	L x I mm
60-65	1200	1500 x 1500
80	1200	1500 x 1500
100	1200	1500 x 1500
125	1500	1700 x 1700
150	1500	1700 x 1700
200	1700	1700 x 1700

Type AB900



WATER DISTRIBUTION AND HOT WATER HEATING SYSTEMS

SAFETY VALVE WITH PROGRESSIVE OPENING $\theta 80^\circ\text{C}$

CASING : bronze - brass

SPRING : stainless steel

14BIS HP : delivered unset and not safety sealed, settings from 2 to 15 bar

14BIS HP PL : delivered preset and safety sealed, settings from 2 to 15 bar (requested setting to be specified while ordering).

APPROVAL : ACS

14BIS BP : delivered unset and not safety sealed, setting from 0.5 to 1.9 bar

14BIS BP PL : delivered preset and safety sealed, settings from 0.9 to 1.9 bar (requested setting to be specified while ordering).

APPROVAL : ACS

14BIS HPT and 14BIS BPT : fitted with a PTFE coated disc for temperature higher than 80°C, up to 200°C

This valve is never preset or safety sealed

APPROVAL : ACS

14BIS HP



TECHNICAL INFORMATION

Types 14BIS HP - 14BIS HP PL
14BIS BP - 14BIS BP PL
14BIS HPT - 14BIS BPT
male/female

male/female

Ref.	DN	€
149B7089	3/8"	28,40
149B7095	1/2"	28,40
149B7105	3/4"	49,77
149B7113	1"	69,89

14 BIS HP PL

Ref.	DN	€
149B7255	3/8"	31,85
149B7096	1/2"	31,85
149B7106	3/4"	54,74
149B7114	1"	76,15

14BIS BP

male/female

Ref.	DN	€
149B7077	3/8"	28,40
149B7079	1/2"	28,40
149B7081	3/4"	49,77
149B7083	1"	69,89

14 BIS BP PL

Ref.	DN	€
149B7078	3/8"	31,85
149B7080	1/2"	31,85
149B7082	3/4"	54,74
149B7084	1"	76,15

14BIS HPT

male/female

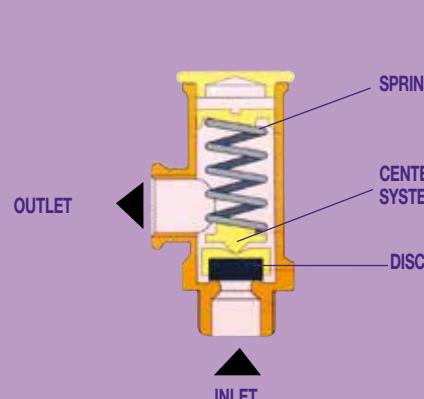
Ref.	DN	€
149B7121	3/8"	46,99
149B7122	1/2"	46,99
149B7123	3/4"	72,53
149B7124	1"	97,08

14BIS BPT

male/female

Ref.	DN	€
149B7085	3/8"	46,99
149B7086	1/2"	46,99
149B7087	3/4"	72,53
149B7088	1"	97,08

DN	$\varnothing B$ mm	$\varnothing A$ mm	C mm	D mm	F mm	G mm	kg
3/8"	12/17	12/17	40	71	24	20	0,165
1/2"	15/21	12/17	40	71	24	20	0,170
3/4"	20/27	15/21	48	83	28	26,5	0,290
1"	26/34	20/27	57	95	33	31,5	0,450





EVACUATES PRESSURE FOR WATER APPLICATION

ELIMINATING
PRESSURE FOR WATER

SV1821



θ 75°C

Settings : 1 to 12 bar maximum

No pre-setting in standard (on request, possibility to pre-set)

BODY : brass

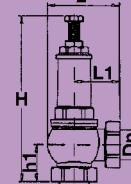
SPRING : carboxylated steel C72

SEAL SEAT : NBR

female/female

Ref.	DN	€
149B6834	3/8"	37,86
149B6835	1/2"	41,58
149B6836	3/4"	55,66
149B6837	1"	76,16
149B6838	1 1/4"	128,98
149B6839	1 1/2"	171,98
149B6840	2"	238,82
149B6841	2 1/2"	574,32
149B6842	3"	751,88

TECHNICAL INFORMATION

Type SV1821
female/female

DN	L mm	L1 mm	H mm	h1 mm
3/8"	45	24	118	25
1/2"	55	36	124	30
3/4"	64	40	148	32
1"	75	48	163	40
1 1/4"	89	56	193	43
1 1/2"	100	62	212	47
2"	123	75	238	60
2 1/2"	146	87	300	75
3"	150	85	325	86

WATER DISTRIBUTION

RP204



GUARANTEED UPSTREAM PRESSURE 40 bar θ 80°C

Pressure gauge 1/4" connection

Spring : 1 to 7 bar

Preset : 3 bar

Membrane : EPDM

BODY : brass - Bronze DN 2" 1/2 to 4"

SEAT SEAL : EPDM

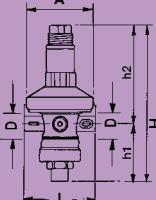
SEAT AND SPRING : stainless steel

APPROVAL : ACS

female/female

Ref.	DN	€
149B6670	15	97,67
149B6671	20	150,44
149B6672	25	199,08
149B6664	32	353,29
149B6665	40	527,56
149B6666	50	665,45
149B6667	65	1540,68
149B6668	80	1994,89
149B6673	100	5387,64

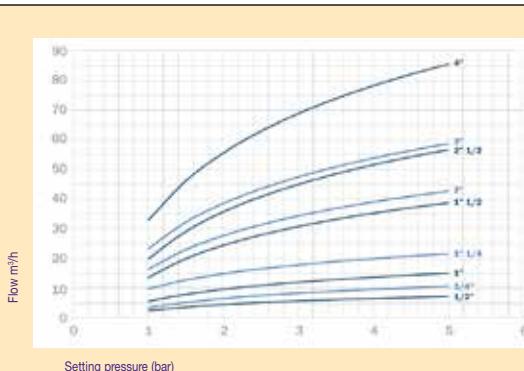
TECHNICAL INFORMATION

Type RP 204
female/female

DN	D		L	A	H	h1	h2
	mm	"					
15	15/21	1/2"	76	73	155,5	67,5	88
20	20/27	3/4"	91	89	196	73	123
25	26/34	1"	105	101	201	81	120
32	33/42	1 1/4"	138	124	235	82,5	152,5
40	40/49	1 1/2"	170	154	256	95	161
50	50/60	2"	184	169	270	92,5	177,5
65	66/76	2 1/2"	206,5	180	330	121,5	208,5
80	80/90	3"	204	192	374	143	231
100	102/114	4"	274	262	495,5	175	320,5

HEADLOSS CHART

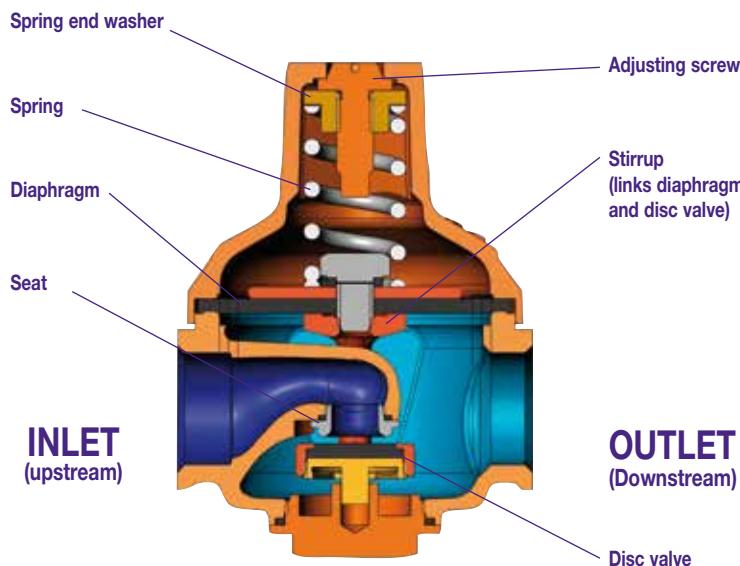
TYPE RP204





PRESSURE REDUCING VALVES

All pressure reducing valve bodies are made of bronze. Due to their design, they are **not affected by scale or dirt**, and do not need **any maintenance**. They are suitable for cold and hot water up to 80°C for a maximum upstream pressure of 25 bar and reduce pressure between 0.5 and 6 bar. They can be installed in any position if flow direction stipulated by the arrow is respected. They can be fitted on compressed air, neutral gases and fuel oil at ambient temperature circuits. Consult us for starting DN50 on compressed air and neutral gases applications. The ranges of figures 7, 8, 9, 10 and 11 are in accordance with the **european standard EN1567**. Serie 11 fulfils higher specification controlled by **NF** label. All pressure reducing valve bodies are **guaranteed for 5 years**.



The outlet pressure acts on the bottom face of the diaphragm, compressing the spring when it exceeds the pre-set value and thus closing the valve.

As long as no water is drawn off on the downstream side (no flow condition), the outlet pressure is thus kept at the pre-set value.

When water is drawn off on the downstream side, the outlet pressure decreases and the spring pushes against the diaphragm, opening the valve. Under prolonged flow conditions, a self-damping effect occurs in the valve opening instead of a series of pulsating opening and closing movements.

The DESBORDES pressure **reducing valve** is also a pressure **regulating valve**.

INSTALLATION



In domestic water supply, the DESBORDES pressure reducing valves are fitted just after the water meter and thus protect the whole installation

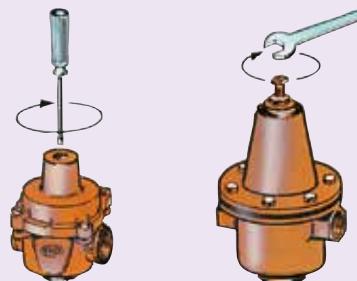
If there is a frost risk, they should be drained.

They can be fitted in any position (horizontal, upside down, fluid ascending or reversed and inclined) but the direction of flow indicated by the engraved arrow on the valve body, must be respected.

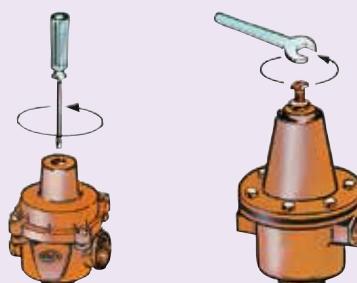


SETTING THE PRESSURE REDUCING VALVE

To increase downstream pressure :



To decrease downstream pressure :



The setting of the Desbordes pressure reducing valve must be operated under no flow condition. Downstream isolating valve must be shut. The static pressure will be adjusted.

To increase downstream pressure : tighten adjusting screw (clockwise).

To decrease downstream pressure :

- Slacken the adjusting screw (anticlockwise).

- Release the pressure by slightly opening a tap on the downstream side. Close the tap.

- Tight the adjustment screw again until requested pressure is reached.

A slight pressure drop on the downstream side is normal : it corresponds to the head loss of the valve itself.



FOR WATER DISTRIBUTION DOMESTIC AND INDIVIDUAL

MAXIMUM UPSTREAM PRESSURE 25 bar Θ 80°C

10 : Pressure gauge connection at the bottom of the casing
 10 BIS : With 1/4" plugs on both sides to allow pressure gauge connection

Possibility of assembly of compensating spring (except for 4" size) to obtain settings at 0.5 bar

Setting : from 1 to 6 bar (indicative value according to EN1567 standard)

Pre-set at 3 bar

CASING : bronze

APPROVALS : ACS

10 - 10BIS : WRAS ✓

10



male/male

10RC		
DN	Ref.	€
15	149B7000	146,42
15	149B7004	148,33
20	149B7001	194,14
25	149B7002	264,45
	149B7029	152,81
	149B7030	194,14
	149B7031	277,02

10BIS



female/female

DN	Ref.	€
10	149B7003	127,73
15	149B7004	127,73
20	149B7005	164,32
25	149B7006	228,91
32	149B7007	422,09
40	149B7008	594,83
50	149B7009	827,16
65	149B7011	1372,08
80	149B7012	1803,43
100	149B7225	3277,90
	149B7019	133,61
	149B7020	133,61
	149B7021	174,10
	149B7022	240,14
	149B7023	433,52
	149B7024	607,49
	149B7025	841,40
	149B7027	1396,57
	149B7028	1833,12
	-	-

10TER



With flanges

DN	Ref.	€
32	149B7032	1020,16
40	149B7033	1263,05
50	149B7034	1627,25
65	149B7036	2496,18
80	149B7037	3108,54
100	149B7226	4570,09
	149B7038	1031,61
	149B7039	1275,70
	149B7040	1641,53
	149B7042	2520,66
	149B7043	3138,28
	-	-

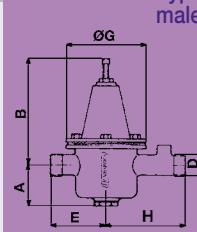
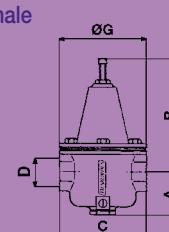
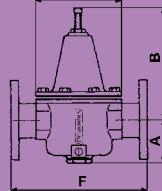
10 BIS BZ



female/female

Ref.	DN	€
149B7013	25	259,67
149B7014	32	478,92
149B7015	40	674,88
149B7016	50	938,42
149B7017	65	1556,75
149B7018	80	2046,14

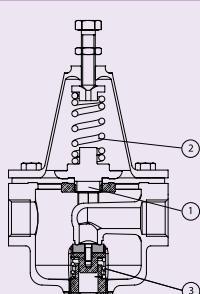
TECHNICAL INFORMATION

Type 10
male/maleTypes
10BIS
10BIS BZ
female/
femaleType 10TER
with flanges

DN	D	A	B	C	E	F	G	H	Kg	10	10BIS	10TER	10BIS BZ
mm	"	mm	mm	mm	mm	mm	mm	mm					
10	3/8	12/17	48	120	92	65	-	92	95	1,3	1,25	-	-
15	1/2	15/21	48	120	92	65	-	92	95	1,3	1,25	-	-
20	3/4	20/27	55	130	108	78	-	108	102	1,90	1,75	-	-
25	1	26/34	60	160	123	88	-	123	116	2,6	2,70	-	2,70
32	1 1/4	33/42	77	180	155	-	240	155	-	-	4,80	8,50	4,80
40	1 1/2	40/49	84	205	172	-	260	172	-	-	6,50	10,9	6,50
50	2	50/60	105	235	198	-	288	198	-	-	9,80	14,3	9,80
65	2 1/2	66/76	118	270	215	-	305	215	-	-	13,5	21,3	13,5
80	3	80/90	143	300	234	-	330	234	-	-	17,9	27,9	17,9
100	4	102/114	120	350	250	-	385	260	-	-	33,6	50,0	-

SPARE PARTS

for pressure reducers Ref. 10, 10 BIS and 10 TER



* The complete stirrup includes :
 the stirrup, the stirrup plug, the diaphragm, the seal and the counter seat, fully assembled.
 DN100 : membrane (ref. 149F023362)

DN	mm	"	1. Complete stirrup*	2. Setting spring	3. Compensating spring
ref.			ref.	ref.	ref.
10	12/17	3/8	149B7045	39,50	149B7285
15	15/21	1/2	149B7045	39,50	149B7285
20	20/27	3/4	149B7046	47,75	149B7286
25	26/34	1	149B7047	64,51	149B7287
32	33/42	1 1/4	149B7048	92,73	149B7288
40	40/49	1 1/2	149B7049	116,71	149B7289
50	50/60	2	149B7050	189,45	149B7290
65	66/76	2 1/2	149B7052	319,50	149F025528
80	80/90	3	149B7053	389,02	149B7293
100	102/114	4			consult us

PRESSURE
GAUGE NIPPLE

487



female/male

Ref.	DN	€
149B7179	1/2	15/21
149B7180	3/4	20/27
149B7181	1	26/34
149B7182	1 1/4	33/42
149B7183	1 1/2	40/49
149B7184	2	50/60
149B7185	2 1/4	60/70
149B7186	2 1/2	66/76
149B7187	3	80/90

Female/male with 1/4" plug

Casing in bronze

PRESSURE GAUGES

FULL RANGE OF PRESSURE GAUGES
WITH CENTERED NEEDLE AND GLYCERINE FILLED

See page 69



FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 25 bar Θ 80°C

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility of assembly of compensating spring to obtain settings at 0.5 bar

With 1/4" plugs on both sides to allow pressure gauge connection

Pre-set at 3 bar

CASING : bronze

SEAT : stainless steel DN 15 and 20

11 : male/male

11 BIS : female/female

11 EP : union-nut/male

APPROVALS : ACS NF : DN15-20-25
WRAS : (11-11BIS)

11



male/male

DN	Ref.	€
15	149B7054	112,02
20	149B7055	143,47
25	149B7489	197,75
32	149B7548	263,84
40	149B7567	459,09
50	149B7565	507,91

11RC

Ref.	€
149B7068	117,19
149B7069	149,77

11BIS



female/female

DN	Ref.	€
15	149B7056	99,62
20	149B7057	131,20
25	149B7314	182,21
32	149B7549	257,24
40	149B7558	428,75
50	149B7561	468,33

11BIS RC

Ref.	€
149B7063	104,76
149B7064	137,59

11EP

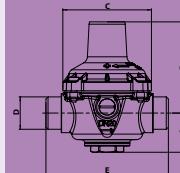


female/male

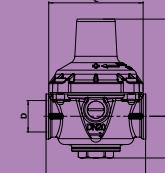
DN	Ref.	€
20	149B7511	143,47

TECHNICAL INFORMATION

Type 11
male/male



Type 11BIS
female/female



DN	D		A	B	C	E Ref. 11 mm	E Ref. 11bis mm	kg Ref. 11	kg Ref. 11bis
	mm	"							
15	15/21	1/2	31	60	59	85	66	0,70	0,70
20	20/27	3/4	32	75	73	100	76,5	0,90	0,90
25	26/34	1	40	102	94	122	98	2,00	1,90
32	33/42	1 1/4	51	179	104	132	126	3,90	3,90
40	40/49	1 1/2	46	185	104	132	132	5,00	4,20
50	50/60	2	54	194	104	146	146	5,30	5,20

Type 11EP
female/male

DN	D		A	B	E	F	C	kg
	mm	"						
20	20/27	3/4	31	75	112	50	73	0,88

FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 25 bar Θ 80°C

Settings : from 1 bar to 5.5 bar (indicative value according to EN1567 standard)

Delivered pre-set at 3 bar

Equipped with 2 plugs 1/4" on each side to allow the mounting of a pressure gauge and 2 fittings removable

CASING : bronze

COVER : Bronze
(*cover : composite material)

SEAT : stainless steel

APPROVALS : ACS WRAS NF : DN15-20-25

11 DO



male/male

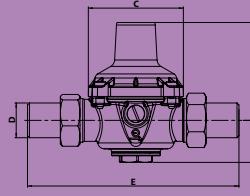
DN	Ref.	€
15	149B7640	119,66
20	149B7641	144,24
25	149B7228	190,96
32	149B7550	271,10
40	149B7559	467,27
50	149B7562	541,03

male/male

DN	Ref.	€
20*	149B7218	144,24

TECHNICAL INFORMATION

Type 11DO
male/male



DN	D		A	B	C	E	kg
	mm	"					
15	15/21	1/2	31	60	59	140	0,90
20	20/27	3/4	32	75	73	160	1,30
25	26/34	1	40	102	94	180	2,50
32	33/42	1 1/4	51	179	104	200	4,60
40	40/49	1 1/2	46	185	104	220	5,00
50	50/60	2	54	194	104	250	5,50

VERY LOW PRESSURE, AGRICULTURE, IRRIGATION, LABORATORY

MAXIMUM UPSTREAM PRESSURE 10 bar Θ 80°C

Settings : from 0.1 bar to 0.6 bar

With 1/4" plugs on both sides to allow pressure gauge connection

Table of flow available on request

CASING : bronze

SEAT : stainless steel

APPROVAL : ACS

11BIS RCBP

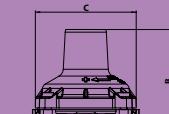


female/female

DN	Ref.	€
20	149B7065	149,82

TECHNICAL INFORMATION

Type 11BIS RCBP
female/female



DN	D		A	B	C	E	kg
	mm	"					
20	20/27	3/4	32	75	73	76,5	0,92

**MULTI 7****FLATS AND HOUSES
INDIVIDUAL WATER SUPPLY**

MAXIMUM UPSTREAM PRESSURE 16 bar Θ 80°C

With 1/4" plugs on both sides to allow pressure gauge connection

CASING : Bronze - Pre-set at 3 bar

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Delivered with 3 nuts allowing 16 different connecting possibilities in 1/2" and 3/4"

MULTI 7**multi connections**

Ref.	DN	€
149B7540	20	76,18

APPROVAL : ACS

JUNIOR**FLATS AND HOUSES
INDIVIDUAL WATER SUPPLY**

MAXIMUM UPSTREAM PRESSURE 16 bar Θ 80°C

With 1/4" plugs on both sides to allow pressure gauge connection

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard)

Possibility to set-up pre-set at 3 bar downstream

CASING : bronze

APPROVAL : ACS

7BIS : female/female

7EP : union-nut/male

7SP : male/union-nut

7BIS**female/female**

Ref.	DN	€
149B7209	15	57,74
149B7210	20	66,37
149B7552	25	92,91
149B7553	32	171,89
149B7554	40	244,06
149B7555	50	366,16

7EP**female/male**

Ref.	DN	€
149B7211	15	70,98
149B7212	20	81,93

7SP**male/female**

Ref.	DN	€
149B7248	20	81,93

SECUR**PROTECTION OF INDIVIDUAL DEVICE,
WATER HEATER**

MAXIMUM UPSTREAM PRESSURE 16 bar Θ 80°C

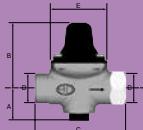
1/4" pressure gauge connection and drain at the bottom of the casing

Downstream setting : 1 to 5.5 bar (indicative value according to EN1567 standard) - Possibility to set-up pre-set at 3 bar downstream

CASING : chrome plated bronze

Upstream connection : male, downstream : with union nut

APPROVAL : ACS

5 SP**TECHNICAL INFORMATION**Type 5 SP
male/female

DN	D	A	B	C	E	kg
20	20/27	3/4	29	58	82	0,4

REDUNEUF**WATER SUPPLY OF HOUSE BLOCKS,
COLLECTIVE HOUSING**

MAXIMUM UPSTREAM PRESSURE 25 bar Θ 80°C

Non-adjustable set at 3 bar

With 1/4" plugs on both sides to allow pressure gauge connection

CASING : bronze

Seat in stainless steel

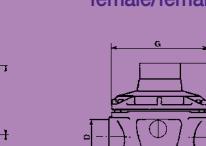
APPROVALS : ACS

9**male/male**

Ref.	DN	€
149B7219	15	91,14
149B7220	20	114,64
149B7221	25	192,61

9BIS**female/female**

Ref.	DN	€
149B7222	15	83,29
149B7223	20	106,22
149B7224	25	175,58

TECHNICAL INFORMATIONType 9
male/maleType 9BIS
female/female

DN	D	A	B	E	C	G	kg	kg
15	15/21	1/2	31	53	66	85	59	0,55
20	20/27	3/4	31	59	76,5	100	73	0,78
25	26/34	1	43	66	98	122	94	1,45



PRESSURE REDUCING VALVE QUATRO

MAXIMUM UPSTREAM PRESSURE 25 bar θ 80°C

- Pressure reducing valve - setting from 1 to 5.5 bar (indicative value according to EN1567 standard)
- Antipollution check valve
- Drain valve to allow the emptying of the downstream installation

Pre-set at 3 bar

With 1/4" plugs on both sides to allow pressure gauge connection

APPROVAL : ACS

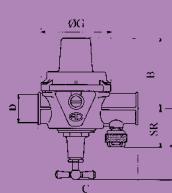
12 BIS SR



female/female

Ref.	DN	€
149B7076	20	174,35

TECHNICAL INFORMATION



Type 12BIS
female/female

DN	D		A	B	C	G	SR	kg
	mm	"	mm	mm	mm	mm	mm	
20	20/27	3/4	78	75	104	73	44	1,05

WATER HAMMER ARRESTORS

PLUMBING

COLD or HOT WATER θ 80°C

Shown in chrome plated version

To be placed at the closest point to the water hammer generating area

Operating pressure 3 bar, maxi 5 bar (for upper pressure, see industrial anti-water hammer devices)

APPROVAL : ACS

21 : WATER HAMMER ARRESTOR FOR STRAIGHT LINE

21BIS D : WATER HAMMER ARRESTOR FOR STRAIGHT LINE

21BIS E : ANGLE WATER HAMMER ARRESTOR

21BIS EB : VERTICAL DEAD END WATER HAMMER ARRESTOR

21BISFLEX : STRAIGHT LINE WATER HAMMER ARRESTOR WITH FLEXIBLE HOSE

21



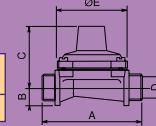
male/male

Ref.	DN	€
149B7138	20	73,69

TECHNICAL INFORMATION

Type 21
male/male

DN	D	A	B	C	E	kg
mm	"	mm	mm	mm	mm	
20	20/27	3/4	100	18,0	61,0	72,5



21BIS D

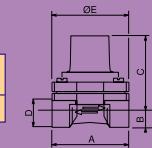


female/female

Ref.	DN	€
149B7243	15	55,16

Type 21BIS D
female/female

DN	D	A	B	C	E	kg
mm	"	mm	mm	mm	mm	
15	15/21	1/2	59,0	13,5	59,0	59,0



21BIS E

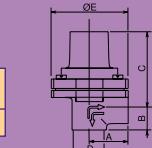


female/female

Ref.	DN	€
149B7244	15	55,16

Type 21BIS E
female/female

DN	D	A	B	C	E	kg
mm	"	mm	mm	mm	mm	
15	15/21	1/2	29,5	17,0	59,0	59,0



21BIS EB

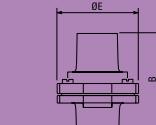


female

Ref.	DN	€
149B7245	20	48,71

Type 21BIS EB
female

DN	D	E	B	kg
mm	"	mm	mm	
20	20/27	3/4	59,0	66,0



21BIS FLEX

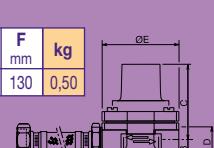


femelle/femelle

Ref.	DN	€
149B7246	15	63,35

Type 21BIS FLEX
femelle/femelle

DN	D	A	B	C	E	F	kg
mm	"	mm	mm	mm	mm	mm	
15	15/21	1/2	59,0	13,5	59,0	59,0	0,50





PRESSADE

212AD



«PRESSADE» gauge
for quick inspection
of pressure on any orifice
from 8 to 20 mm
Rubber connection
Dial from 0 to 10 bar

Ref.	€
149B7145	49,43

2212 B



GAUGE WITH CENTRAL NEEDLE

ABS casig

Male thread 1/4" vertical

Diameter 50 mm

male

Scale in bar	Ref.	€
1	149B7157	11,31
4	149B7161	11,31
6	149B7162	11,31
10	149B7158	11,31
16	149B7159	11,31
25	149B7160	11,31

212G



male

Scale in bar	Ref.	€
1	149B7139	29,07
4	149B7143	29,07
6	149B7144	29,07
10	149B7140	29,07
16	149B7141	29,07
25	149B7142	29,07

312G



male

Scale in bar	Ref.	€
1	149B7678	29,07
4	149B7682	29,07
6	149B7683	29,07
10	149B7679	29,07
16	149B7680	29,07
25	149B7681	29,07

3212 B



male

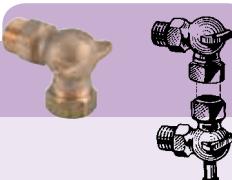
Scale in bar	Ref.	€
4	149B7176	11,31
6	149B7177	11,31
10	149B7174	11,31
16	149B7175	11,31

LEVEL INDICATORS / MISCELLANEOUS

Level indicator in bronze for 15 mm tube. Rhodoid tube, transparent and unbreakable. Maxi $\theta = 60^\circ\text{C}$. Maxi pressure = 20 bar

LEVEL INDICATOR

155



LEVEL INDICATOR

Ref. 155 H : loose upper angled part

Ref. 155 B : loose lower angled part

Type	Ref.	DN	€
ref.155	149B7132	3/8	65,01
ref.155	149B7133	1/2	65,01
ref.155B	149B7134	3/8	35,49
ref.155B	149B7135	1/2	35,49
ref.155H	149B7136	3/8	29,52
ref.155H	149B7137	1/2	29,52

485

Lenght	Ref.	€
1 M	149B7178	21,70

1485JT

O'RING SEAL IN NITRILE
for level indicator ref 155

extrenal diameter 20 mm - internal diameter : 13 mm

Type	Ref.	€
1485JT	149B7340	0,89

115 AD



DRAINING COCK, easy to operate

Sold by 10 piece-bag

Ref.	DN	€
149B7073	1/4	7,01
149B7070	3/8	7,01

274 BIS



Sold by bag including :

- . 100 pieces for DN1/4 to 1"
- . 50 pieces for DN1^{1/4} to 1^{1/2}
- . 25 pieces for DN2"

Ref.	DN	€
149B7172	1/4	3,77
149B7163	3/8	2,89
149B7164	1/2	3,63
149B7165	5/8	6,92
149B7166	3/4	6,70
149B7167	7/8	10,82
149B7168	1	10,82
149B7169	1 1/4	9,23
149B7170	1 1/2	12,54
149B7171	2	12,54



PRESSURE SWITCH CS

θ max 60°

Pressure switch CS - Pressure switch triphased and monophased.
2 to 20 bar, 12 amperes,
220-415 volt, IP43, 1/2" connections.
For control of boosting pumps,
hydrophobic groups

Setting range (°) (bar)	Ref. without valve	Ref. with valve compression
2 - 6	149B 5906	149B 5909
4 - 12	149B 5907	149B 5910
€	59,67	69,21
UV	1	1
*Air pressure		

ACCESSORIES

Ref.	U	V	€
149B 5905	1		14,14

DECOMPRESSION VALVE

To be monted on pressure switch cs



PRESSURE PFA 10 bar
Air supply valve. For submersible pump without foot valve.
Brass casing, PA 12 (polyamid)
check valve, EPDM O-ring seal.



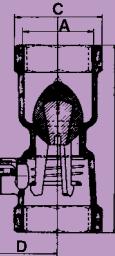
Purge valve to be mounted on TEE

PULSAIR 3 + 3A

TJO - female/female

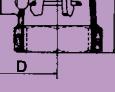
DN	Ref.	U	V	€
"				
1	149B 123	1		78,70
1 1/4	149B 133	1		90,23
1 1/2	149B 143	1		115,07
2	149B 153	1		156,79
DN	Ref.	U	V	€
"				
1/2	149F 0135 52	1		35,19

TECHNICAL INFORMATION



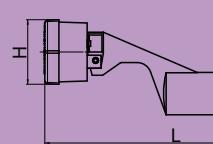
A	B	C	D	Kg
" mm	mm	mm	mm	
1	26/34	94	38	39,0
1 1/4	33/42	110	47	42,0
1 1/2	40/49	120	53	47,5
2	50/60	150	66	52,5
				1,200

Pulsair Type 3



A	B on flat	C	Kg
" mm	mm	mm	
1/2 male	15/21	23	20
			0,040

Pulsair Type 3A



PULSAIR 4

DN	Ref.	U	V	€
"				
1 1/4	149B 33	1		46,21

TECHNICAL INFORMATION

Ref. Fig. 4	L	H	Kg	Gauge plug
N° 33	172	46	0,100	without



INSUFLAIR 65 + 300

Tank	Type	Ref.	U	V	€
300 L	65	149B 5371	1		71,37
750 L	300	149B 5372	1		151,66

PRESSURE PFA 5 bar θ max 40°

Membrane air injector. For water tanks up to 300 l (type 65) and up to 750 l (type 300). 1m stainless braided pipe 5/7 and connection provided.

Note : the functionning of insuflairs 65 and 300 needs at least 2 meters of suction height.



INSUFLAIR 600 + SURPRESS 2

Ø	Ref.	U	V	€
Tank				
1000 L	600	149B 5373	1	197,57
Surpress				
2000 L	2	149B 5374	1	280,51

PRESSURE PFA 10 bar θ max 40°

Float air injector for water tanks up to 1000 l (type 600) and up to 2000 l (type Surpress 2). Provided with 1,5 m of stainless braided pipe 8/10 (type 600) or 0,3 m of stainless braided pipe 10/12 (Surpress 2).

Note : functioning with or without suction.



DOSING DEVICE INSUFLAIR

DN	Ref.	U	V	€
" mm				
1	26/34	149B 5376	1	46,49



PRESSURE PFA 10 bar θ max 40°

Float air injector for water with electronical operation. For pressure tank of 500 to 10 000 liters, whatever their feeding system. Provided with 1m of PA 12 (polyamid) 8/10, solenoid valve and programmer.

Tank	Type	Ref.	U	V	€
500 to 10000L	electro	149B 5375	1		778,48


**INDIRECT ACTION
NORMALLY CLOSED**

Membrane solenoid valve, indirect action (pilot) normally closed. 2 ways. Brass body. Brass and stainless steel inner system.
EPDM membrane (-30°C +100°C).
Operating pressure : please consult us
FKM membrane (0°C +100°C).
Operating pressure : please consult us
Protection : IP 65 with connection
Option : manual action on request

Approval : **WRAS** (EPDM version)
ACS

WKB2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
3/8 12	149B 6699	149B 6706	149B 6713	1	135,36
1/2 15	149B 6700	149B 6707	149B 6714	1	135,36
3/4 20	149B 6701	149B 6708	149B 6715	1	208,54
1 25	149B 6702	149B 6709	149B 6716	1	272,54
1 1/2 32	149B 6703	149B 6710	149B 6717	1	391,44
2 40	149B 6704	149B 6711	149B 6718	1	446,31
2 1/2 50	149B 6705	149B 6712	149B 6719	1	552,42
3/8 12	149B 6699V	149B 6706V	149B 6713V	1	171,96
1/2 15	149B 6700V	149B 6707V	149B 6714V	1	171,96
3/4 20	149B 6701V	149B 6708V	149B 6715V	1	245,12
1 25	149B 6702V	149B 6709V	149B 6716V	1	309,14
1 1/2 32	149B 6703V	149B 6710V	149B 6717V	1	428,02
2 40	149B 6704V	149B 6711V	149B 6718V	1	482,89
2 1/2 50	149B 6705V	149B 6712V	149B 6719V	1	588,98

FKM

**INDIRECT ACTION
DIRECT ACTION 1/8", 1/4"**

Membrane solenoid valve, indirect action (pilot) except 1/8", 1/4" direct action normally closed. 2 ways. 316 stainless steel body and stainless steel inner system.
FKM membrane (0°C +100°C).
DN 1/8-1/4 (-10°C to +100°C).
Operating pressure : please consult us.
Protection IP65 with connection.
Option : manual action on request except 1/4", 1/8"

Approval : **WRAS**
ACS

WBI2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
1/8 3	149B 6741	149B 6749	149B 6757	1	166,89
1/4 4,5	149B 6742	149B 6750	149B 6758	1	190,70
3/8 8	149B 6743	149B 6751	149B 6759	1	540,38
1/2 15	149B 6744	149B 6752	149B 6760	1	540,38
3/4 20	149B 6745	149B 6753	149B 6761	1	762,87
1 25	149B 6746	149B 6754	149B 6762	1	781,95
1 1/2 32	149B 6747	149B 6755	149B 6763	1	1129,66
2 40	149B 6748	149B 6756	149B 6764	1	2765,41

**ASSISTED LIFT OPERATED
NORMALLY CLOSED**

Solenoid valve with direct action, assisted lift operated, normally closed. 2 ways. DZR brass body. Brass and stainless steel inner system.
EPDM membrane (-30°C +100°C).
Operating pressure : please consult us
Protection : IP 65 with connection.

Approval : **WRAS**
ACS

HK2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
3/8 10	149B 6789	149B 6793	149B 6797	1	157,28
1/2 12	149B 6790	149B 6794	149B 6798	1	168,30
3/4 18	149B 6791	149B 6795	149B 6799	1	234,14
1 22	149B 6792	149B 6796	149B 6800	1	263,39

**DIRECT ACTION FOR GAS OIL,
NORMALLY CLOSED**

Solenoid valve with direct acting, for gas oil, normally closed. 2 ways. Brass body. Brass and stainless steel inner system.
FKM Membrane : -10°C +100°C.
Operating pressure : please consult us
Protection : IP 65 with connection

AKB2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
1/8 3	149B 6774	149B 6779	149B 6784	1	89,64
1/4" 3	149B 6775	149B 6780	149B 6785	1	89,64
1/4 4,5	149B 6776	149B 6781	149B 6786	1	89,64
3/8 4,5	149B 6777	149B 6782	149B 6787	1	89,64
1/2 8	149B 6778	149B 6783	149B 6788	1	109,74

COIL**Ø max ambient 40°C**

Tension	U V	Ref.	€
220/230V 50Hz 9W	1	149B 5290	43,90
380/400V 50Hz 9W	1	149B 5291	43,90
24V 50Hz 9W	1	149B 5292	43,90
12V 50Hz 9W	1	149B 5293	43,90
110V 50Hz 9W	1	149B 5294	43,90
12V d.c 15W	1	149B 5295	43,90
24V d.c 15W	1	149B 5296	43,90
48V 50Hz 9W	1	149B 5583	76,19

Coil without connection for solenoid valve :
WZB2 - WKB2 - WKE2 - WB12 -
HK2 - AKB2
(IP65 with connection)

**INDIRECT ACTION
NORMALLY OPEN**

Membrane solenoid valve, indirect action (pilot) normally open. 2 ways. Brass body. Brass and stainless steel inner system.
EPDM membrane (-30°C +100°C).
Operating pressure : please consult us
FKM membrane (0°C +100°C).
Operating pressure : please consult us
Protection : IP 65 with connection

Approval : **WRAS** (EPDM version)
ACS

WZB2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
3/8 12	149B 6720	149B 6727	149B 6734	1	133,53
1/2 15	149B 6721	149B 6728	149B 6735	1	179,25
3/4 20	149B 6722	149B 6729	149B 6736	1	259,75
1 25	149B 6723	149B 6730	149B 6737	1	332,92
1 1/2 32	149B 6724	149B 6731	149B 6738	1	433,51
2 40	149B 6725	149B 6732	149B 6739	1	526,79
2 1/2 50	149B 6726	149B 6733	149B 6740	1	612,76
3/8 12	149B 6720V	149B 6727V	149B 6734V	1	170,10
1/2 15	149B 6721V	149B 6728V	149B 6735V	1	215,84
3/4 20	149B 6722V	149B 6729V	149B 6736V	1	296,32
1 25	149B 6723V	149B 6730V	149B 6737V	1	369,48
1 1/2 32	149B 6724V	149B 6731V	149B 6738V	1	470,08
2 40	149B 6725V	149B 6732V	149B 6739V	1	563,37
2 1/2 50	149B 6726V	149B 6733V	149B 6740V	1	649,36

FKM

WKE2

female/female

**Ø max 100°C**

Ø " mm	220V/50Hz	24V/50Hz	24VDC	U V	€
3/8 10	149B 6765	149B 6768	149B 6771	1	100,60
1/2 10	149B 6766	149B 6769	149B 6772	1	126,21
3/4 18	149B 6767	149B 6770	149B 6773	1	186,58

TECHNICAL INFORMATION
IMPORTANT

- All technical information concern standard coils
- All solenoid valves can be delivered with a standard coil 220 V / 50 Hz ref. 5290 or 24 V / 50 Hz ref. 5292 or 24 V DC ref. 5296 and a connector
- All our solenoid valves can be delivered ON DEMAND with a different coil at the same price as the standard.

Types WKB2 - WZB2 - WB12

Connect. FF	Pas-sage mm	A mm	B mm	C mm	kg	Kv m³/H	T _{on} ms	T _{off} ms
3/8	15	52	109	80	0,96	2,5	40	350
1/2	15	52	109	80	0,96	4	40	350
3/4	20	58	116	90	1,16	8	40	1000
1	25	70	130	109	1,56	11	300	1000
1 1/2	32	82	142	120	2,16	18	1000	2500
2	40	95	156	130	3,36	24	1500	4000
2 1/2	50	113	167	162	4,46	40	5000	10000

Type WB12

3/8	10	48	90	51,5	0,45	1,5	50	300
1/2	10	54	90	51,5	0,45	1,5	50	300
3/4	18	62	101	90	0,81	6	200	500

Type WKE2

3/8	10	52,5	103,5	58	0,76	2,5	100	100
1/2	12	52,5	103,5	58	0,76	4	100	100
3/4	18	58	110	90	0,96	6	150	100
1	22	56	118,6	90	1,26	7	150	100

Type AKB2

1/8	3	34	84	38	0,36	0,30	20	20

<tbl_r cells="9" ix="2"



AIR CONTROL WATER DISTRIBUTION SYSTEMS

All water pipes carry air... This air may have been introduced at the time the water system was filled, or during maintenance work, but can also arise from the working of pumps or dissolved air in reservoirs... Depending upon its source and upon the pressure in the network, the air can arise in the form of bubbles or in emulsion. Indeed the higher the water pressure the greater the quantity of air dissolved in it. Decompression resulting from fluctuations in flow along the network (bends, junctions...) encourages the air to degasify. It will naturally rise and accumulate at high points.

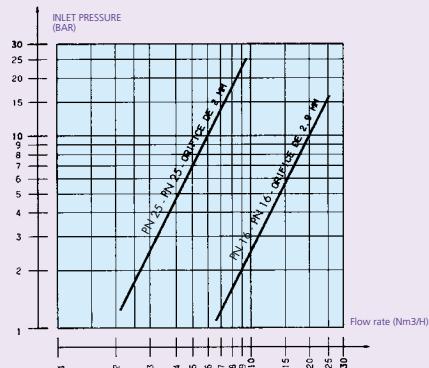
The installation of automatic equipment such as air valves and anti-water hammer valves allows most of the problems caused by air to be solved.



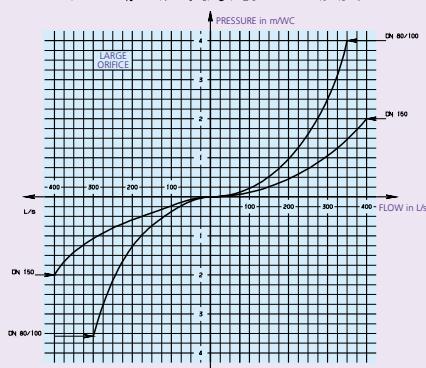
TECHNICAL PARAMETERS FLOW/PRESSURE GRAPHS

These flow chart indicate the flow of air evacuated or sucked in by the large orifice of the air valves. The choice of present flow rate of the air valve is a function of the loss of pressure which can be sustained by the system.

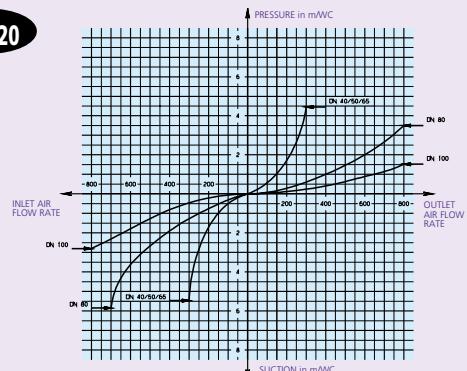
VE 120



VE 330



VE 320



TRIPLE FUNCTION FOR CLEAR WATER

VE320



with flange PN16

Ref.	DN	€
149B 5884	40-50-60	1055,19
149B 5885	65	1143,11
149B 5886	80	1641,39
149B 5887	100	2432,76
With stop valve*		
149B 5884 R	40-50-60	1113,77
149B 5885 R	65	1172,41

*Other Ø consult us

TRIPLE FUNCTION FOR CLEAR WATER

VE320



with flange PN25

Ref.	DN	€
149B 0091 66	40-50-60	1084,46
149B 0091 68	65	1553,46
149B 0091 70	80	1787,96
149B 0091 71	100	3751,72
With stop valve*		
149B 0091 67	40-50-60	1143,11
149B 0091 69	65	1612,05

*Other Ø consult us

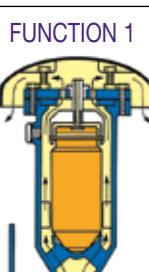
TECHNICAL INFORMATION

DN	For pipe Ø mm	A mm	B mm	Kg
40/50/60	≤ 200	196	380	12
65	≤ 200	196	375	12
80	≤ 500	224	350	19
100	≤ 1000	224	400	22

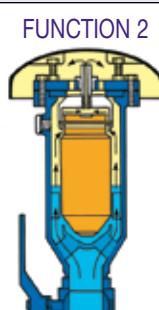
WITH STOP VALVE

DN	For pipe Ø mm	A mm	B mm	Kg
40/50/60	≤ 200	196	465	13
65	≤ 200	196	456	13

Type VE320

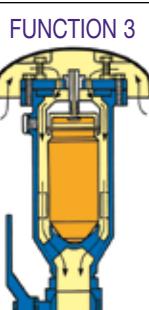


FUNCTION 1



FAST RELEASE OF AIR

FUNCTION 2



RAPID INFLUX OF AIR

FUNCTION 3

RELEASING AIR UNDER PRESSURE

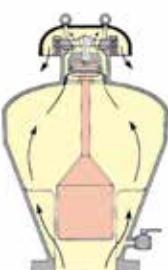


3 FUNCTION AIR VALVES FOR WASTE WATER

This model works in the same way as VE 320.

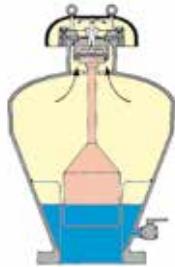
The body of the valve is simply over-sized to avoid contact between waste water and the top part of the moving section.

1. FUNCTION



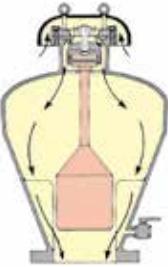
FAST RELEASE OF AIR

2. FUNCTION



RELEASING AIR UNDER PRESSURE

3. FUNCTION



RAPID INFLUX OF AIR

TRIPLE FUNCTION FOR WASTE WATER

VE330



with flange PN16

Ref.	DN	€
149B 5888	80	2549,96
149B 5889	100	2725,85
149B 5890	150	4016,89

Air valve with stop valve : consult us

PRESSURE PFA 16 bar Θ 60°

Delivered with set pin.

SEAL in polyurethane.

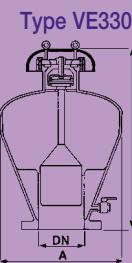
CASING : DN80 and 100, GJS ductile iron

DN150 in Steel

SPINDLE : Polyamid (PA66).

TECHNICAL INFORMATION

DN	For pipe Ø mm	A mm	B mm	Kg
80	80 to 200	325	580	33,0
100	200 to 600	325	580	33,0
150	> 600	360	650	55,0

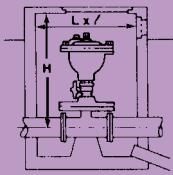


TECHNICAL INFORMATION

Type VE120

DN	H mm	L X I mm	*
40 - 50 - 60	900	600 x 600	150 x 150

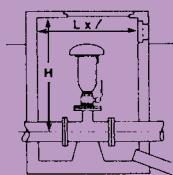
*Minimum air entrance section of air at top of manhole



Type VE320

DN	H mm	L X I mm	*
50-40/60-65	1100	600x600	150 x 150
80	1200	600x600	200 x 200
100	1300	600 x 600	300 x 300

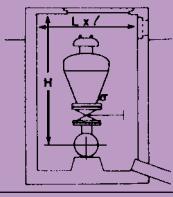
*Minimum air entrance section of air at top of manhole



Type VE330

DN	H mm	L X I mm	*
80/100	1200	1000 x 1000	300 x 300
150	1500	1200 x 1200	300 x 300

*Minimum air entrance section of air at top of manhole



MAINTENANCE OF AIR VALVES

To check that an air valve works correctly, simply unscrew the screw in the middle of the air valve cover's :

- a jet of water indicates that the apparatus works correctly.
- pressure air jet indicates that the air valve is doesn't perform correctly and should be cleaned.

SINGLE FUNCTION FOR CLEAR WATER

VE120



PRESSURE PFA 16 bar Θ 100°

Ductile iron casing, NBR (nitrile) seal.

Drain valve : nickel plated brass.

APPROVAL : ACS

Designation	Ref.	€
Air valve alone F1"	149B 2867	224,62
Air valve with flange with connection*	149B 2867 BR	267,11
Air valve with connection M1"	149B 2867 RM	231,27
Air valve with stop valve M1"	149B 2867 VA	231,27
Air valve with stop valve + with flange*	149B 2867 VB	267,11

*Flange DN 40 / 50 / 60

SINGLE FUNCTION FOR CLEAR WATER

VE120



with flange PN25

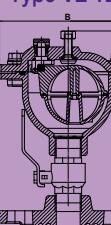
Designation	Ref.	€
Air valve alone F1"	149B 2868	236,37
Air valve with flange with connection*	149B 2868 BR	292,35
Air valve with connection M1"	149B 2868 RM	243,96
Air valve with stop valve M1"	149B 2868 VA	243,96
Air valve with stop valve + with flange*	149B 2868 VB	292,35

*Flange DN 40 / 50 / 60

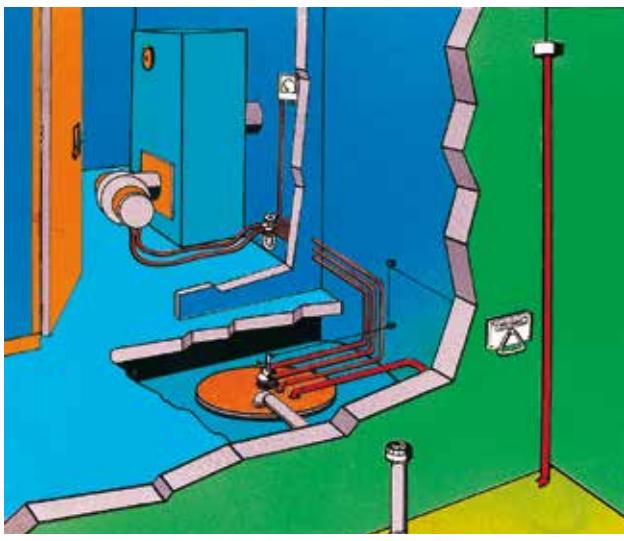
TECHNICAL INFORMATION

	A mm	B mm	Total length mm	Kg
Air valve alone F 1"		175	158	5,00
Air valve with flange with connection 40/50/60	185	175	214	8,10
Air valve with connection M1"		175	180	5,00
Air valve with stop valve M1"		175	218	5,30
Air valve with stop valve + with flange 40/50/60	185	175	246	8,40

Type VE 120



ACCESSORIES FOR EQUIPMENT FOR FUEL AND HOT WATER HEATING CIRCUITS



COMBIFUEL

A TRADE NAME THAT HAS BECOME GENERIC : THE PRICE OF SUCCESS A VAST NUMBER OF SERVICES AND UNEQUALED POSSIBILITIES



Transparent cap to check the priming of the suction side.

Safety valve (remote handling).

Can be used with 10/12 or 8/10 pipes.

COMBIFUEL



Suction device available with antisiphon cartridge.
For installation up to 100 000 K/cal (3/8).
For installation of 100 000 to 1 000 000 K/cal (1/2).

Ref.	€
149B 3107 3/8 : - 100 000 Kcal/h Qty per box : 10	99,77
149B 3108 1/2 : - 100 000 - 1 000 000 Qty per box : 1	117,75

INSERT CHECK VALVE



Insert check valve (standard or anti-siphon). For Combifuel.

For Combif.	Nature	Color	Ref.	U	V	€
149B 3107	Stand.	white	149B 3100	1	6,90	
149B 3108	Stand. anti-siphon	red	149B 3101	1	6,90	
149B 3108	Stand. anti-siphon	red	149B 3102	1	8,63	
	2,50 m	red	149B 3208	1	8,63	
	3 m	blue	149B 3308	1	8,63	
	3,50 m	green	149B 3408	1	8,63	

HOSES + PLUNGERS



SUCTION HOSE*

With nipple and strainer.

GAUGE PLUNGER**

For	Lenght mm	Ref.	U	V	€
*					
149B 3107	1710	149B 3110	10		24,62
149B 3107	1910	149B 3111	10		24,66
149B 3108	3076	149B 3117	10		36,06
**					
149B 3107	1780	149B 3112	10		45,42
149B 3107	1980	149B 3113	10		49,65

TANK CAP* + AIRVENT**



TANK CAP*

Reversible male and female.

AIRVENT**

For pipes size 1" or 1 1/4".

Ø "	mm	Ref.	U	V	€
*	2	50/60	149B 3115	10	30,61
**	1 1/4	25-33	149B 413	10	10,35

KIT COMBIFUEL



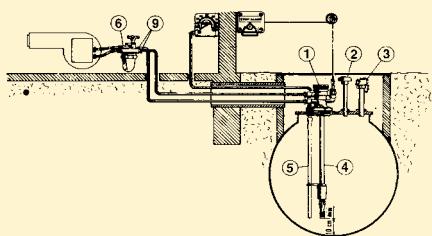
Kit of accessories for Combifuel depending on installation possibilities or technical solutions.

COMPONENTS										
Ref.	€	Combi-fuel 3107	Mure-vent	Cock 3115	Hose plunger	Gauge plunger	Non-return valve strainer +valve	Non-return valve	Stop valve	Fittings
149B 11	242,46	○	○	○	○	○	○			○
149B 12	222,25	○	○	○	○		○			○
149B 14	212,19	○	○	○	○			○	○	○
149B 16	188,91	○	○	○				○	○	○

Packing : 1 kit box

KIT COMBIFUEL

WHAT YOU NEED TO HAVE A GOOD INSTALLATION



FIX MATIC 548



PRESSURE PFA and PS : 10 bar
Automatic air purger for heating.
Brass casing and cap,
plastic float with
stop-valve for
dismantling.

θ max 110°

DN	"	Ref.	U	V	€
3/8 male		149B 5106	12	21,53	

FILTERS

FUEL FILTERS IN BRASS

*Single tube with gate inserted.

Plastic connection 4/6.

**Double tubes with gate and

check-valve inserted.

Plastic connection

6/8/10-10/12

Filtration

300 microns.



Ref. U V €

* 149B 5033 1 45,23

** 149B 5036 1 60,28

**Recycling - With gate and manual air purger.
Plastic connection 6/8 - 8/10 - 10/12.
Filtration 300 microns.

GAUGES



MECAMENSOR GAUGE
Mechanical float gauge,
reading in cm from 0 to 200.



TELEMARK GAUGE :
Pneumatic gauge with Telemark
adjustment range 0,8 to 3 mm.

GAUGE INDICATORS

Graduation in litres
from 1500 to
50 000 litres

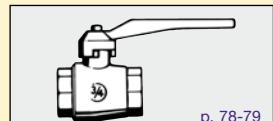


θ max *70°

Recto	Verso	Ref.	U	V	€
1500	2500	149B 5341	1	3,38	
2000	4000	149B 5342	1	3,38	
3000	5000	149B 5343	1	3,38	
6000	7000	149B 5344	1	3,38	
10000	12000	149B 5345	1	3,38	
15000	25000	149B 5346	1	3,38	
20000	40000	149B 5347	1	3,38	
30000	50000	149B 5348	1	3,38	

ADDITIONAL EQUIPMENTS FOR HEATING INSTALLATIONS

BRASS BALL VALVES



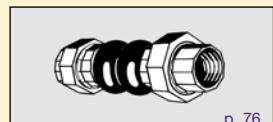
p. 78-79

STEEL BALL VALVES



p. 80-81

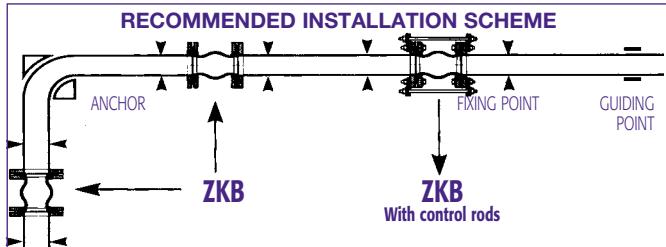
EXPANSION JOINTS



p. 76

RUBBER EXPANSION JOINTS

Mounted on piping installations, the ZKT joint absorbs expansions, contractions, oscillations and vibrations, diminishes hammering, reduces noise and prevents electric currents from spreading.



ZKB

PRESSURE PFA/PS in bar

See pressure/ θ curve

Rubber expansion joint with galvanised steel flanges.

Stainless steel flanges : consult us
 \varnothing 28" to 36" : consult us
OPTION : with vacuum ring

with PN10 flanges

DN "	PFA mm water	PS L1 L2	G1 G2	Cat	EPDM			NBR				
					Ref.	U V	€	Ref.	U V	€		
1 1/4	32	16	16	0,5	16	3,3	149B 5141 C	1	39,90	149B 5141 N	1	41,89
1 1/2	40	16	16	0,5	16	3,3	149B 5142 C	1	40,93	149B 5142 N	1	42,97
2	50	16	16	0,5	16	3,3	149B 5143 C	1	44,78	149B 5143 N	1	47,05
2 1/2	65	16	16	0,5	15	3,3	149B 5144 C	1	52,24	149B 5144 N	1	54,85
3	80	16	16	0,5	12	3,3	149B 5145 C	1	63,31	149B 5145 N	1	66,47
4	100	16	16	0,5	10	3,3	149B 5146 C	1	78,29	149B 5146 N	1	82,21
5	125	16	16	0,5	8	3,3	149B 5147 C	1	100,73	149B 5147 N	1	105,77
6	150	16	16	0,5	6	3,3	149B 5148 C	1	129,50	149B 5148 N	1	135,96
8	200	10	10	0,5	5	3,3	149B 5149 C	1	180,01	149B 5149 N	1	189,00
10	250	10	8	0,5	4	3,3	149B 5150 C	1	270,42	149B 5150 N	1	283,93
12	300	10	6	0,5	3	3,3	149B 5151 C	1	341,15	149B 5151 N	1	358,21
14	350	8	5	0,5	2	3,3	149B 5152 C	1	514,00	149B 5152 N	1	539,70
16	400	8	5	0,5	2	3,3	149B 5153 C	1	667,34	149B 5153 N	1	700,72
18	450	8	4	0,5	2	3,3	149B 5154 C	1	783,46	149B 5154 N	1	822,63
20	500	8	4	0,5	2	3,3	149B 5155 C	1	936,79	149B 5155 N	1	983,63
24	600	8	3	0,5	1	3,3	149B 5156 C	1	1595,53	149B 5156 N	1	1675,30

PRESSURE PFA/PS in bar

See pressure/ θ curve

Rubber expansion joint with galvanised steel flanges.

Stainless steel flanges : consult us

with PN16 flanges

DN "	PFA mm water	PS L1 L2	G1 G2	Cat	EPDM			NBR		
					Ref.	U V	€	Ref.	U V	€
8	200	16	10	16	0,5	5	3,3	149B 008285	1	188,96
10	250	16	8	16	0,5	4	3,3	149B 008287	1	283,92
12	300	16	6	16	0,5	3	3,3	149B 008291	1	358,39
14	350	8	5	8	0,5	2	3,3	149B 008294	1	539,70
16	400	8	5	8	0,5	2	3,3	149B 008301	1	700,69
18	450	8	4	8	0,5	2	3,3	149B 008303	1	822,63
20	500	8	4	8	0,5	2	3,3	149B 008312	1	983,63
24	600	8	3	8	0,5	1	3,3	149B 008314	1	1674,88

PRESSURE PFA/PS in bar

See pressure/ θ curve

Rubber expansion joint with galvanised ductile iron union nut connections.

OPTION :
Bronze connection in case of electrolytic risk.

ZKT

PRESSURE PFA/PS in bar

See pressure/ θ curve

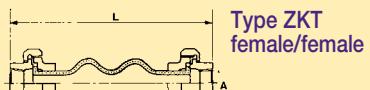
Rubber expansion joint with galvanised ductile iron union nut connections.

OPTION :
Bronze connection in case of electrolytic risk.

female/female

DN "	PFA mm water	PS L1 L2	G1 G2	Cat	EPDM			NBR				
					Ref.	U V	€	Ref.	U V	€		
3/4	10	10	10	10	3,3	149B 5126	1	23,00	149B 5126 N	1	24,16	
1	10	10	10	10	3,3	149B 5127	1	25,69	149B 5127 N	1	26,99	
1 1/4	10	10	10	0,5	3	3,3	149B 5128	1	31,07	149B 5128 N	1	32,59
1 1/2	10	10	10	0,5	10	3,3	149B 5129	1	38,25	149B 5129 N	1	40,18
2	10	10	10	0,5	10	3,3	149B 5130	1	42,74	149B 5130 N	1	44,89
2 1/2	10	10	10	0,5	10	3,3	149B 5131	1	80,99	149B 5131 N	1	85,04
3	10	10	10	0,5	10	3,3	149B 5132	1	122,12	149B 5132 N	1	128,23

TECHNICAL INFORMATION



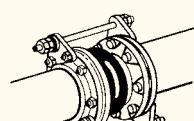
Type ZKT female/female

A "	mm	L mm		Kg
		mm	mm	
3/4	20	200	200	0,775
1	25	200	200	0,685
1 1/4	32	200	200	1,585
2	50	200	200	2,980
2 1/2	65	225	225	2,335
3	80	225	225	2,600

CONTROL RODS

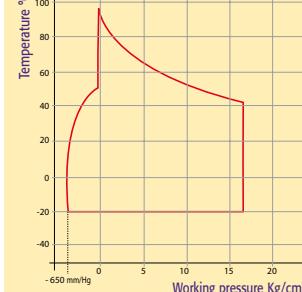
Galvanised steel

Control rods.



for flanges PN10 and PN16

DN "	U mm	Ref. PN10	€	Ref. PN16	€
				Ref.	U mm
1 1/4	32	1	149B 5436	73,00	
1 1/2	40	1	149B 5437	73,00	
2	50	1	149B 5438	101,07	
2 1/2	65	1	149B 5439	101,07	
3	80	1	149B 5440	105,17	
4	100	1	149B 5441	105,17	
5	125	1	149B 5442	110,28	
6	150	1	149B 5443	123,86	
8	200	1	149B 5444	134,09	149B 0089 40
10	250	1	149B 5445	144,21	149B 0089 41
12	300	1	149B 5446	144,21	149B 0089 42
14	350	1	149B 5447	176,44	149B 0089 43
16	400	1	149B 5448	188,28	149B 0089 44
18	450	1	149B 5449	188,28	149B 0089 45
20	500	1	149B 5450	196,82	149B 0089 47
24	600	1	149B 5451	256,20	149B 0089 48



PRESSURE TEMPERATURE CURVES

for water application

EPDM





Closing systems

The different closing systems in the fluid circulation chain are as many and varied as the specific problems to be resolved.

The Socla product falls into 3 distinct systems (see following pages).

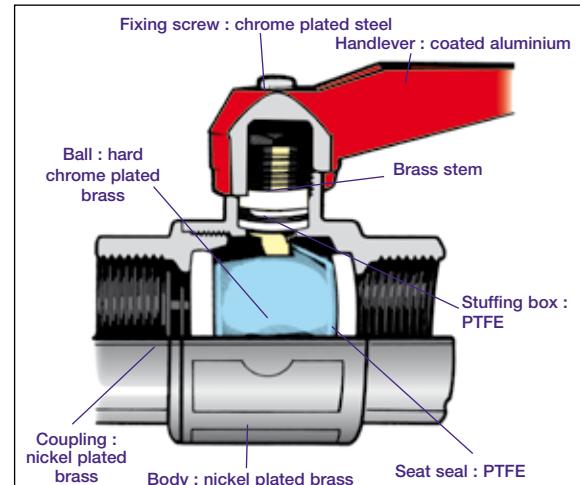
As for with other product ranges, quality and technical efficiency have been our priority.

▼		Pages
	 Ball valves DN 1/4 to 5"	78 to 81
	 Butterfly valves DN 25 to 1200 mm	82 to 113
	 Actuation systems and options Technical Information	114 to 128



In addition to the butterfly valves chosen for their easy mounting and the saving of space in larger diameters (pages 82 to 127), Socla also offer a range of ball valves particularly suitable for smaller sizes.

In brass, cast iron or stainless steel, they can equip all types of installations from heating systems, home water installations to heavy duty industrial applications at high pressure and temperature.



Threaded male/female

GENERAL PROCESSES, HEATING AND ALL FLUID APPLICATIONS COMPATIBLE WITH BRASS

PRESSURE PFA in bar	θ 90°C
BALL VALVE : brass	
Standard passage	
BALL : hard chrome-plated brass	
SEALS : PTFE	
Handlever : PA 66 (polyamid)	
APPROVAL : ACS	

Mini ball valves

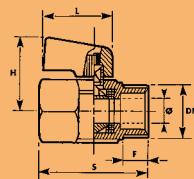


male/female

DN	PFA water	Ref.	U V	€
1/4	8	16 149B 5368	10	10,98
3/8	10	16 149B 5369	10	10,98
1/2	15	16 149B 5370	10	10,98

TECHNICAL INFORMATION

Mini ball valves
male/female



DN	Ø mm	F mm	S mm	H mm	L mm	Kg
1/4	5	8	38,5	24,3	30,5	0,06
3/8	8	9	40	26	30	0,07
1/2	10	11	45	28	30	0,10

GENERAL PROCESSES, HEATING AND ALL FLUID APPLICATIONS COMPATIBLE WITH BRASS

PRESSURE PFA in bar	θ 120°C
BALL VALVE : brass	
Standard passage from 3/8" to 1"	
Full bore from 1"1/4 to 2"	
BALL : hard chrome-plated brass	
SEALS : PTFE	
APPROVAL : ACS	

V3000MF

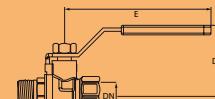


male/female

DN	PFA water	Ref.	U V	€
3/8	10	32 149B 5351	30	12,08
1/2	15	25 149B 5352	25	13,90
3/4	20	25 149B 5353	15	20,21
1	25	149B 5354	12	27,70
1 1/4	32	20 149B 5355	9	44,31
1 1/2	40	20 149B 5356	3	70,17
2	50	20 149B 5357	2	103,76

TECHNICAL INFORMATION

Type V3000MF
male/female



DN	B mm	D mm	E mm	Kg
3/8	12/17	47	32	0,108
1/2	15/21	53	47	0,155
3/4	20/27	58	50	0,204
1	26/34	67	56	0,315
1 1/4	33/42	85	66	0,520
1 1/2	40/49	98	74	0,903
2	50/60	119	81	1,312

Threaded female/female

GENERAL PROCESSES, HEATING AND ALL MULTI-FLUID APPLICATIONS COMPATIBLE WITH BRASS

PRESSURE PFA in bar	θ 80°C
BALL VALVE : brass	
Full bore	
BALL : hard chrome-plated brass	
SEALS : PTFE	
With drain off cock and plug	
APPROVAL : ACS	

V3000B

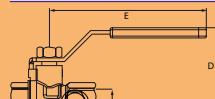


female/female

DN	PFA water	Ref.	U V	€
1/2	15	25 149B 5328	20	20,97
3/4	20	25 149B 5329	12	27,34
1	25	25 149B 5330	12	35,53
1 1/4	32	20 149B 5331	10	50,47
1 1/2	40	20 149B 5332	5	81,21
2	50	20 149B 5333	2	116,99

TECHNICAL INFORMATION

Type V3000B
female/female



DN	B mm	D mm	E mm	Kg
1/2	55	49	93	0,246
3/4	63	53	93	0,316
1	73	61	113	0,509
1 1/4	86	65	115	0,750
1 1/2	93	83	150	1,060
2	109	94	180	1,805



GENERAL PROCESS, HEATING AND MULTI-FLUID APPLICATIONS

PRESSURE PFA in bar **Ø 140°C**

BALL VALVE : brass

Full bore

BALL : hard chrome-plated brass

SEALS : PTFE

APPROVAL : ACS

female/female

DN "	DN mm	PFA water	Ref.	U	V	€
3/8	10	20	149B 5039	30		9,97
1/2	15	20	149B 5040	20		12,84
3/4	20	20	149B 5041	15		16,53
1	25	20	149B 5042	10		25,30
1 1/4	32	16	149B 5043	10		37,24
1 1/2	40	16	149B 5044	5		52,36
2	50	16	149B 5045	2		86,12
2 1/2	65	10	149B 5054	1		179,97
3	80	10	149B 5055	1		242,41
4	100	10	149B 5056	1		455,73

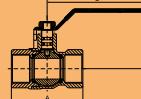
Approval :

Consult us.

V3000



TECHNICAL INFORMATION



Type V3000
female/female

DN "	A mm	B mm	C mm	Kg
3/8	44	40	70	0,115
1/2	48	49	93	0,184
3/4	57	53	93	0,260
1	67	61	113	0,440
1 1/4	76	66	113	0,616
1 1/2	90	74	153	0,884
2	107	81	153	1,407
2 1/2	134	90	173	2,562
3	152	116	238	3,631
4	169	124	238	4,600

GENERAL PROCESS AND HEATING

PRESSURE PFA in bar **Ø 120°C**

BALL VALVE : died-nickel plated brass

Standard passage

BALL : hard chrome-plated brass

SEALS : PTFE

APPROVAL : ACS

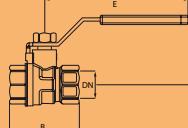
female/female

DN "	DN mm	PFA water	Ref.	U	V	€
1/4	8	20	149B 5046	40		11,12
3/8	10	20	149B 5047	30		10,14
1/2	15	20	149B 5048	30		10,78
3/4	20	20	149B 5049	20		14,27
1	25	20	149B 5050	20		20,48
1 1/4	32	16	149B 5051	12		28,27
1 1/2	40	16	149B 5052	10		38,42
2	50	16	149B 5053	3		63,14
2 1/2	65	10	149B 5194	2		119,17

V665



TECHNICAL INFORMATION



Type V665
female/female

DN "	A mm	B mm	D mm	E mm	Kg
1/4	8/13	40	32	70	0,111
3/8	12/17	41	32	70	0,099
1/2	15/21	46	47	93	0,147
3/4	20/27	51	50	93	0,200
1	26/34	63	56	113	0,299
1 1/4	33/42	74	62	113	0,590
1 1/2	40/49	80	68	153	0,688
2	50/60	93	73	153	1,054
2 1/2	66/76	120	83	173	2,018

GENERAL PROCESS, HEATING AND MULTI-FLUID APPLICATIONS

PRESSURE PFA 20 bar **Ø 120°C**

BALL VALVE : died-nickel plated brass

Standard passage

BALL : hard chrome-plated brass

SEALS : PTFE

APPROVAL : ACS

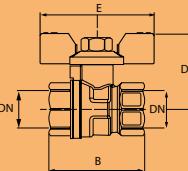
female/female

DN "	DN mm	Ref.	U	V	€
1/4	8	149B 5112	50		11,12
3/8	10	149B 5113	20		10,14
1/2	15	149B 5114	40		10,78
3/4	20	149B 5115	30		14,27
1	25	149B 5116	15		20,48

V665PAP



TECHNICAL INFORMATION



Type V665PAP
female/female

DN "	A mm	B mm	D mm	E mm	Kg
1/4	8/13	40	32	49	0,084
3/8	12/17	41	32	49	0,084
1/2	15/21	46	39	56	0,124
3/4	20/27	51	41	56	0,187
1	26/34	63	46	80	0,280

Threaded male/male

PUMPING AND ALL FLUID APPLICATIONS

PRESSURE PFA 10 bar **Ø 50°C**

Ball bib cock with nose connection

BODY : died-nickel plated brass

BALL : hard chrome-plated brass

SEALS : PTFE

APPROVAL : ACS

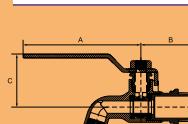
male/male

DN "	DN mm	Ref.	U	V	€
1/2	15	149B 5325	20		16,53
3/4	20	149B 5326	10		23,20
1	25	149B 5327	5		35,29

V2500



TECHNICAL INFORMATION



Type V2500
male/male

DN "	Ø ext hose connection	A mm	B mm	C mm	Kg
1/2	15/21	95	31	45	0,188
3/4	20/27	95	35	47	0,256
1	26/34	95	45	48	0,378



3-PIECE BALL VALVES

INDUSTRY, HIGH TEMPERATURE,
HIGH PRESSURE

PRESSURE PFA/PS in bar

BODY : 316 stainless steel

Full bore

BALL : 316 stainless steel

SEALS : PTFE reinforced with 25% of glass fibre

HANDLE : with locking system

APPROVAL : PED 97/23/CE

X3777



X3777S



X3777B



female/female

DN "	PFA mm water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/4	8	63	63	63	63	3,3	149B 6041	1	34,16
3/8	10	63	63	63	63	3,3	149B 6042	1	34,16
1/2	15	63	63	63	63	3,3	149B 6043	1	44,11
3/4	20	63	63	63	63	3,3	149B 6044	1	56,91
1	25	63	63	63	63	3,3	149B 6045	1	69,74
1 1/4	32	63	63	63	63	3,3	149B 6046	1	93,91
1 1/2	40	63	63	63	63	3,3	149B 6047	1	125,21
2	50	40	40	40	40	40	149B 6048	1	173,57
2 1/2	65	25	25	25	25	25	149B 6049	1	361,54
3	80	25	25	25	25	25	149B 6050	1	523,61
4	100	25	25	25	25	25	149B 6051	1	876,47

BSP female threaded connection

Socket welding connection ends

Ref.	U V	€
149B 6041S	1	34,16
149B 6042S	1	34,16
149B 6043S	1	44,11
149B 6044S	1	56,91
149B 6045S	1	69,74
149B 6046S	1	93,91
149B 6047S	1	125,21
149B 6048S	1	173,57
149B 6049S	1	361,54
149B 6050S	1	523,61
149B 6051S	1	876,47

Socketwelding

Butt welding connection ends

Ref.	U V	€
149B 6041B	1	34,16
149B 6042B	1	34,16
149B 6043B	1	44,11
149B 6044B	1	56,91
149B 6045B	1	69,74
149B 6046B	1	93,91
149B 6047B	1	125,21
149B 6048B	1	173,57
149B 6049B	1	361,54
149B 6050B	1	523,61
149B 6051B	1	876,47

Buttwelding

FOR STEAM AND HIGH TEMPERATURE HIGH PERFORMANCE, INDUSTRIAL APPLICATIONS

X3777V



PRESSURE PFA/PS in bar

BODY : 316 stainless steel

Full bore

BSP female threaded connection

BALL : 316 stainless steel

SEALS : PTFE reinforced with 25% of carbon fibre

HANDLE : with locking system

APPROVAL : PED 97/23/CE

female/female

DN "	PFA mm water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/4	8	63	63	63	63	3,3	149B 6041V	1	41,85
3/8	10	63	63	63	63	3,3	149B 6042V	1	41,85
1/2	15	63	63	63	63	3,3	149B 6043V	1	53,21
3/4	20	63	63	63	63	3,3	149B 6044V	1	68,89
1	25	63	63	63	63	3,3	149B 6045V	1	82,51
1 1/4	32	63	63	63	63	3,3	149B 6046V	1	111,00
1 1/2	40	63	63	63	63	3,3	149B 6047V	1	151,38
2	50	40	40	40	40	40	149B 6048V	1	210,57
2 1/2	65	25	25	25	25	25	149B 6049V	1	492,44
3	80	25	25	25	25	25	149B 6050V	1	700,03
4	100	25	25	25	25	25	149B 6051V	1	1166,72

INDUSTRY, HIGH TEMPERATURE,
HIGH PRESSURE

X3444



X3444S



X3444B



female/female

DN "	PFA mm water	PS L1	L2	G1	G2	Cat	Ref.	U V	€
1/4	8	63	63	63	63	3,3	149B 6052	1	29,59
3/8	10	63	63	63	63	3,3	149B 6053	1	32,20
1/2	15	63	63	63	63	3,3	149B 6054	1	42,98
3/4	20	63	63	63	63	3,3	149B 6055	1	54,06
1	25	63	63	63	63	3,3	149B 6056	1	64,05
1 1/4	32	63	63	63	63	3,3	149B 6057	1	82,51
1 1/2	40	63	63	63	63	3,3	149B 6058	1	116,66
2	50	40	40	40	40	40	149B 6059	1	162,22
2 1/2	65	25	25	25	25	25	149B 6060	1	335,77
3	80	25	25	25	25	25	149B 6061	1	483,78
4	100	25	25	25	25	25	149B 6062	1	805,46

BSP female threaded connection

Socket welding connection ends

Ref.	U V	€
149B 6052S	1	29,59
149B 6053S	1	32,20
149B 6054S	1	42,98
149B 6055S	1	54,06
149B 6056S	1	64,05
149B 6057S	1	82,51
149B 6058S	1	116,66
149B 6059S	1	162,22
149B 6060S	1	335,77
149B 6061S	1	483,78
149B 6062S	1	805,46

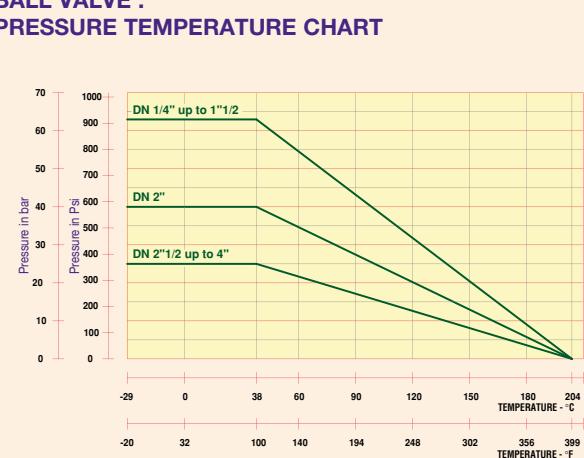
Socketwelding

Butt welding connection ends

Ref.	U V	€
149B 6052B	1	29,59
149B 6053B	1	32,20
149B 6054B	1	42,98
149B 6055B	1	54,06
149B 6056B	1	64,05
149B 6057B	1	82,51
149B 6058B	1	116,66
149B 6059B	1	162,22
149B 6060B	1	335,77
149B 6061B	1	483,78
149B 6062B	1	805,46

Buttwelding

BALL VALVE : PRESSURE TEMPERATURE CHART





3-PIECE BALL VALVE

INDUSTRY, HIGH PRESSURE,
HIGH TEMPERATURE

PRESSURE PFA/PS in bar

CASING : stainless steel 316 - Full bore

BALL : stainless steel 316 - SEALS : PTFE

HANDLE : with locking system

SPECIAL : ISO EN 5211 top connection, actuation possible

APPROVAL : PED 97/23/CE

X3900



X3900B



2-PIECE BALL VALVE

INDUSTRY, HIGH PRESSURE,
HIGH TEMPERATURE

PRESSURE PFA/PS in bar

CASING : stainless steel 316 - Full bore

BALL : stainless steel 316 - SEALS : PTFE

HANDLE : with locking system

SPECIAL : ISO EN 5211 top connection, actuation possible

TYPE X2900 : PN 100

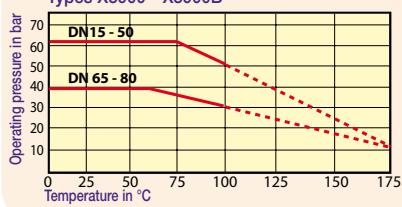
X2900F



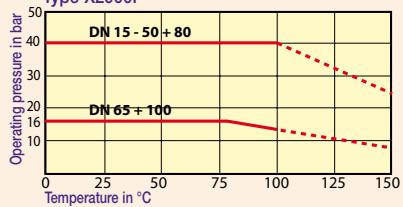
X2900



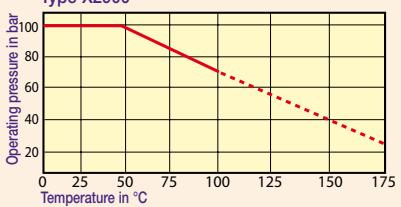
Types X3900 - X3900B



Type X2900F



Type X2900



PRESSURE TEMPERATURE CHART

--- Consult us

BALL VALVES WITH PNEUMATIC AND ELECTRIC ACTUATOR DN 1/2" TO 4"

General features of ball valves : 3-piece ball valve, full bore, casing and ball in stainless steel 316, PTFE seal, BSP female threaded connection and butt welding, ISO 5211, PS 16 - 40 - 63 - 100 bar. Ask for our price list.



2-PIECE BALL VALVE

INDUSTRY, HIGH TEMPERATURE,
HIGH PRESSURE

PRESSURE PFA/PS in bar

BODY : stainless steel 316

Full bore

BSP female threaded connection

BALL : stainless steel 316

SEALS : PTFE reinforced with 25% of glass fibre

HANDLE : with locking system

1-PIECE BALL VALVE

INDUSTRY, HIGH TEMPERATURE,
HIGH PRESSURE

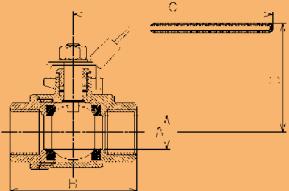
X1666



female/female

DN	PFA	PS	Cat	Ref.	U	V	€
"	mm	water	L1	L2	G1	G2	
1/4	8	63	63	63	3.3	149B 5209	1 25,31
3/8	10	63	63	63	3.3	149B 5210	1 27,05
1/2	15	63	63	63	3.3	149B 5211	1 31,30
3/4	20	63	63	63	3.3	149B 5212	1 35,61
1	25	63	63	63	3.3	149B 5213	1 48,38
1 1/4	32	63	63	63	3.3	149B 5214	1 68,30
1 1/2	40	63	50	63	0.5	25	3.3 149B 5215 1 82,51
2	50	63	40	63	0.5	20	3.3 149B 5216 1 113,83

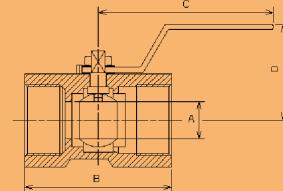
TECHNICAL INFORMATION

female/female
Type X2777

TECHNICAL INFORMATION

female/female
Type X1666

DN	A	B	C	D	Kg
"	mm	mm	mm	mm	
1/4	8	5	39	68	0,09
3/8	10	7	44	79	0,11
1/2	15	9,2	56	90	0,19
3/4	20	12,5	59	90	0,26
1	25	16	71	104	0,41
1 1/4	32	20	77	104	0,56
1 1/2	40	25	83	126	0,88
2	50	32	100	126	1,42





Butterfly valves

A product which is simple but rich in technology, essential in the chain of fluid circulation.

Our butterfly valves bring reliability, a comprehensive range and a high level of safety.



▼		Pages
	The approvals	83
	Products conformity with requirements of European (PED) Directive.	84
	Choice of technologies	85
	SYLAX	86 to 102
	SYLAX FM/CNPP	103
	SYLAX GAS	104
	XYLIA	105 to 106
	TILIS	107 to 108
	LYCÈNE	109 to 110
	EMARIS	111 to 113
	Options and spare parts	114 to 124
	Technical features	125 to 127

REGULATION

MACHINERY DIRECTIVE 2006/42/CE regarding machineries and modifying the 95/16/CE Directive

Motorised butterfly valves (with electric, pneumatic or hydraulic actuators) are conform to the Machinery Directive 2006/42/CE.

- According to this Directive, these sets are "Partly Completed Machineries" designed for being integrated into a machine.
- "Partly Completed Machinery" means an assembly which is almost machinery but which cannot in itself perform a specific application (therefore, manually actuators are excluded of application fields).

A drive system is partly completed machinery.

Partly completed machinery is only intended to be incorporated into or assembled with other machinery or other partly completed machinery or equipment, thereby forming machinery to which this Directive applies.

FLANGE CONNECTION OF BUTTERFLY VALVES

Only flanges of standard type 11, 21 and 34 according to EN 1092-1 norm are perfectly compatible with rubber lined butterfly valves.

For other type of flanges, reservations are given about the good functioning of this technology of butterfly valves.

This type of connection can lead to a suspension of our guarantee.



The approvals and tests

Organisations	N°	Products	Sector	Organisations	N°	Products	Sector
	P-14574 P-14575	SYLAX - TILIS SYLAX DN 400 to 1200	SHIPBUILDING	WRAS <small>Water Regulations Advisory Scheme</small>	0510107 0510104	SYLAX 25 to 350 SYLAX 400 to 1200	WATER
	14-GD1155021-PDA	SYLAX DN 25 to 350 TILIS DN 32 to 300 SYLAX DN 400 to 1200	SHIPBUILDING		DW - 6201 CO 0390	SYLAX DN 25 to 350	WATER
	94/30008 (E3)	SYLAX DN 25 to 350 TILIS DN 32 to 300 SYLAX 400 to 1200 LYCENE 50 to 300 EMARIS 65 to 150	SHIPBUILDING		S61/00014	BUTTERFLY VALVES	BUILDING CDCII/C7/105/90 BUILDING ORGANISATION IN BELGIUM
	03925163 13926/A0 BV 13927/A1 BV	SYLAX DN 25 to 350 SYLAX 400 to 1200 LYCENE 32 to 300 EMARIS 65 to 200	SHIPBUILDING		WE92413/29	SYLAX DN 50 to 300	SANITARY NETWORKS
	MAC/135205CS/1 MAC/135205CS/3 MAC/135205CS/2 MAC/135205CS/4 MAC/135205CS/5	SYLAX DN 25 to 350 TILIS DN 32 to 300 SYLAX 400 to 1200 LYCENE 50 to 300 EMARIS 65 to 200	SHIPBUILDING		HS98/068 HS99/069 HS00/044	SYLAX DN 50 to 300	BUILDING
	011209	SYLAX DN 40 to 350 SYLAX DN 400 to 600 TILIS DN 32 to 300	TRANSPORT		YO/AL/12/037 PCA/GIS/PCA	SYLAX CNPP DN 32/40 to 300 up to PN20 with gear box	FIREFIGHTING NETWORKS
	ROB 060-R4	SYLAX GAS DN 32 to 300	GAS		PV N° 81	SYLAX 25 to 350 SYLAX 400 to 1200	SOCIETE DU CANAL DE PROVENCE
	08.96.0273/0220	BUTTERFLY VALVES DN 32 to 350	GAS		R09/62/86 R09/62/37	BUTTERFLY VALVE WITH ELASTOMER LINER	LF Antar France ELF Aquitaine production ELF Atochem Petroleum Petro chemical Chemical industry
	10 ACC NY 126 10 ACC NY 126 08 ACC NY 279	SYLAX 25 to 350 SYLAX 400 to 1200 EMARIS 50 to 250	WATER		03/1992	SYLAX, TILIS, LYCENE	CAR INDUSTRY
	9005-2445	SYLAX DN 32 to 350 SYLAX DN 400 to 600	WATER		DA/PGIO 88.986	SYLAX, TILIS, LYCENE	CAR INDUSTRY
		SYLAX DN 25 to 1200	WATER		PED 97/23/CE ATEX 94/9/CE 200642.CE	See pages 2-82-84	
	K 82439/01	SYLAX DN 25 to 1200	WATER				



SHUT OFF



DIRECTIVE 97/23/CE : Pressure Equipment Directive

Manufacturing in accordance with the directive requirements for pressure, DN and fluid (see pages 2 and 3).

ATTENTION

Gas G1 and G2 : The maximum pressure is 6 bar when using cast iron 5.1301 (EN-GJL-250) - (except for sylax gas)

FAMILY		LINERS		DN mm	Cat.	MOUNTING	PFA water	PS		
SYLAX DN25 to 350 mm	6 bar	EPDM, Nitrile (CC333G disc), White EPDM	32 to 150	3.3	Flanges	6	6	6	6	
			200 to 350	I	End of line	4	4	4	4	
		Nitrile (except CC333G disc), Neoprene, Butyl, CSM, Natural rubber, White Natural rubber	32 to 100	I	Flanges	6	6	6	6	
			125 to 350	II	End of line	4	4	4	4	
			25 to 100	3.3	Flanges	10	10	10	10	
			125 - 150	I	End of line	6	6	6	6	
	10 bar	Nitrile (except CC333G disc), FKM	200 to 350	I	Flanges	10	10	10	10	
			25	3.3	End of line	6	6	6	6	
			32 to 100	I	Flanges	10	10	10	10	
			125 to 350	II	End of line	6	6	6	6	
		Silicone	32 to 100	I	Flanges	10	10	10	10	
			125 to 150	II	End of line	6	6	6	6	
			200 to 350	II	End of line	6	6	6	6	
			32 to 100	3.3	Flanges	16	16	16	10	
	16 bar	EPDM, Nitrile (CC333G disc)	125	I	End of line	12	12	12	10	
			150	I	Flanges	16	16	16	10	
			200 to 300	I	End of line	10	6	10	10	
			350	I	Flanges	16	10	16	10	
		Nitrile (except CC333G disc), Neoprene, Butyl, CSM, Natural rubber, White natural rubber	32 to 100	I	Flanges	16	16	16	10	
			125 - 150	II	End of line	12	12	12	12	
			200 to 300	II	Flanges	16	16	16	10	
			350	II	End of line	8	8	8	8	
	20 bar	EPDM, Nitrile (CC333G disc)	32 to 250	3.3	Flanges	20	20			
			300 - 350	I	End of line	12	12			
		Nitrile (except CC333G disc), Neoprene, Butyl, Natural rubber, White natural rubber	32 to 100	3.3	Flanges	20	20			
			125 to 350	II	End of line	12	12			
			32 to 150	3.3	Flanges	25	25			
			32 to 80	3.3	End of line	16	16			
	25 bar	Nitrile (except CC333G disc)	100 to 150	II	Flanges	25	25			
			400 to 500	I	End of line	6	6			
		EPDM, Nitrile, White EPDM, White Nitrile, Carboxylated nitrile	600	I	Flanges	6	6	6	5	
			700 to 800	I	End of line	4	4			
			900 to 1000	I	Flanges	6	6	6	3.5	
			1200	I	End of line	4	4		2.5	
	30 bar	Silicone, Neoprene, Butyl, CSM, FKM, Natural rubber, White natural rubber	400 to 500	I	Flanges	6	6	6	6	
			600 to 800	II	End of line	4	4			
			900 to 1000	II	Flanges	6	6	6	5	
			1200	II	End of line	4	4		4	
		EPDM, Nitrile, White EPDM	400 to 1200	I	Flanges	10	10	10		
			400 to 1200	I	End of line	6	6	6		
	40 bar	CSM, FKM	400 to 1200	I	Flanges	10	10	10		
			400 to 1200	I	End of line	6	6	6		
		EPDM, Nitrile	400 to 1200	I	Flanges	16	16			
			400 to 1200	I	End of line	8	8			
		Neoprene, Butyl, Natural rubber, White natural rubber	400 to 600	I	Flanges	16	16			
			400 to 600	I	End of line	8	8			

FAMILY		LINERS		DN mm	Cat.	MOUNTING	PFA water	PS		
SYLAX FM/CNPP	6 bar	EPDM (CNPP approval), EPDM (FM approval)	32 to 300	3.3	Flanges	16	16			
			End of line		12	12				
		Nitrile	32 to 100	I	Flanges	6	6	6	4	
			125 to 300	II	Flanges	6	6	6	4	
			32 to 100	I	End of line	4				
			125 to 300	II	Flanges	8	8	8	8	
SYLAX GAS	8 bar	Nitrile	40 to 100	3.3	Flanges	16	16	16		
			End of line		12	12				
			125	3.3	Flanges	16	16	16		
			150	3.3	Flanges	16	16	16		
		EPDM	200 to 300	3.3	Flanges	16	16	16		
			End of line		10	10				
XYLIA Cascade arrangements	6 bar	EPDM	40 to 150	3.3	Flanges	6	6			
			End of line		4	4				
			50 to 100	I	Flanges	10	10	10	10	
			End of line		6	6	6	6		
		PTFE	125 - 150	II	Flanges	10	10	10	10	
			End of line		6	6	6	6		
LYCENE	20 bar	PTFE/Silicone	40 to 100	I	Flanges	10	10	10	10	
			End of line		6	6	6	6		
			125 to 300	II	Flanges	10	10	10	10	
			End of line		6	6	6	6		
		EMARIS	50 to 100	II	Flanges	50	50	50	50	
			End of line		36	36	36	36		
EMARIS	25 bar	PTFE reinforced	125	II	Flanges	50	50	28	40	
			End of line		36	36	36	36		
			150	II	Flanges	50	50	50	23	
			End of line		36	36	36	33		
		25 bar	200	II	Flanges	25	25	25	25	
			End of line		18	18	18	18		
		250	250	II	Flanges	25	25	25	20	
			End of line		18	18	18	18		
		300	300	II	Flanges	25	25	25	11.5	
			End of line		18	18	18	16.5		

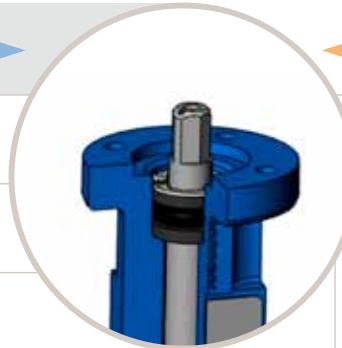
For end of line use, the indicated pressures have been de-rated and are shown on the valve identification plate. Butterfly valves are not designed for use on the end of line for gas.

Important notice : the indicated temperature and pressure for the different category of fluids (L1/L2/G1/G2) are not a guarantee of use. Therefore, it is essential to validate the use of the products under given operating conditions with our technical department.



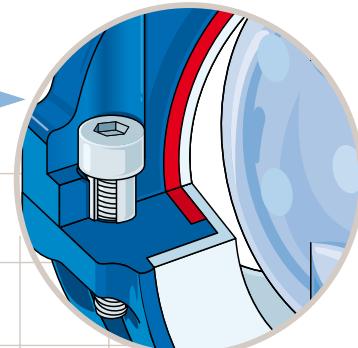
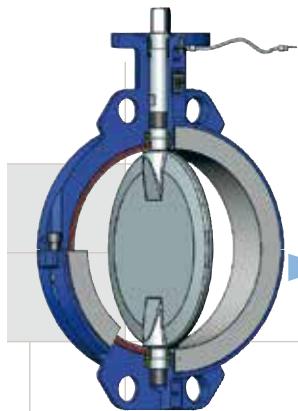
A choice of the highest performance technologies for the 25 to 1200 mm range

By concentrating the technologies in the field and by integrating technical solutions of the highest standard, **Socla** is realising its ambition : the competitiveness of a standard range, reliability and a comprehensive approach, offering a multiplicity of solutions.



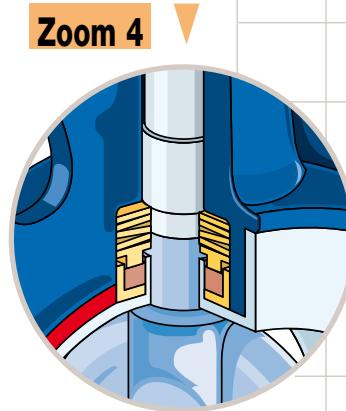
Zoom 1

- Safety anti-ejection circlip keeps shaft in place and allows easy maintenance.
- Safety reinforced by double watertightness.
- Spline driven one piece shaft connected to floating disc guarantees high reliability of tightness and torque transmission in the long term.

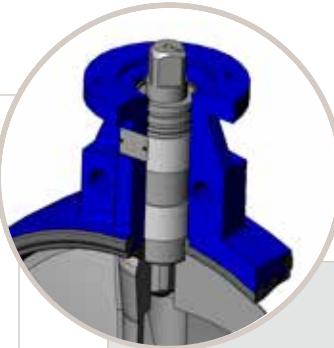


Zoom 3

- Very high level of working safety for chemical media, food processing industries and pure water tanks to quality components :
 - . PTFE liner (3 mm thick).
 - . Stainless steel 316L mirror polished and SS 316L PFA coated (2,5 mm thick).
- Liner back-up enclosed in the body ensures perfect disc tightness.



- PFA moulding up the stem ensuring zero leakage
- Tightness at shaft location with bearing and spring



Zoom 2

- High power transmission with robust squared connection between the shaft and the disc.
- Complete protection of the shaft and valve body from fluids.
- Reliability of movement with self-lubricating bearings.



Traceability

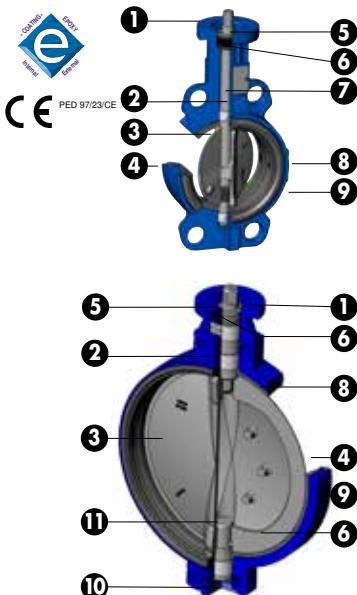
- Identification and traceability ensured by riveted metal tag.





SYLAX DN 25 to 1200 mm

- Multiple combinations
- Short listed in industry
- Easy maintenance
- Reliability - Robustness



Main technical features

Designed in accordance with EN593

1	Top connection according to ISO5211 standard.
2	Anti-friction bearings
3	Squared driven shaft connected to spherically machined disc. Floating disc allows self centering thus preventing stress on the liner during operation
4	Tongue and groove seat design allows perfect tightness.
5	Circlip preventing ejection of shaft
6	Secondary sealing
7	One piece shaft
8	Replaceable elastomer liner ensures full protection of shaft and body
9	Face to face dimensions according to : ISO 5752 class 20 NFEN 558 class 20 API609 table 2 (except DN>350mm)
10	Access plate for dismantling of shaft
11	Two part shaft equipped with anti friction bearings

Dimensions see pages 88-126-127

Sylax butterfly valves are designed for industrial processes and general services.

Sylax are designed to operate in many different fields including metallurgical, mining, paper-making, shipbuilding, nuclear, environmental and mechanical industries.

Sylax is well recognised in the car, chemical, food industries, water plants...

For special applications, especially for particularly difficult media, contact our technical back office team.

On request : we can supply butterfly valves type SYLAX conformed to the Directive 94/9/CE (products or systems used in a explosive atmosphere : see the extra price table page 87)

SYLAX

EPDM : Torques for water at 20°C

For others elastomers (FKM, Silicone, Carboxylated Nitrile, white EPDM, ...) : consult us

DN mm	25	32	40	50	65	80	100	125	150	200	250	300	350
ISO PN 6	10	10	10	10	10	20	22	40	45	100	200	280	400
ISO PN 16	10	10	10	10	18	25	46	50	60	180	280	430	500
ISO PN 20	-	20	20	25	35	45	70	130	190	350	560	850	1250

DN mm	400	450	500	600	700	800	900	1000	1200
ISO PN 6	400	550	800	1200	2000	3000	4000	5000	7500
ISO PN 16	600	850	1200	2000	3200	5200	6500	7500	8500
ISO PN 20	2200	2400	3600	3800	-	-	-	-	-

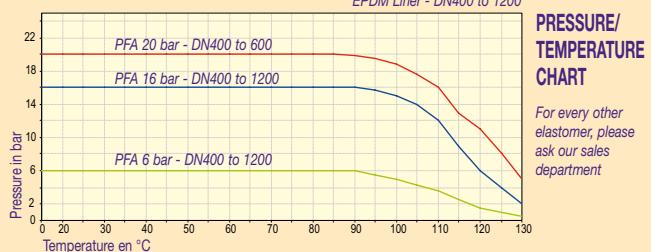
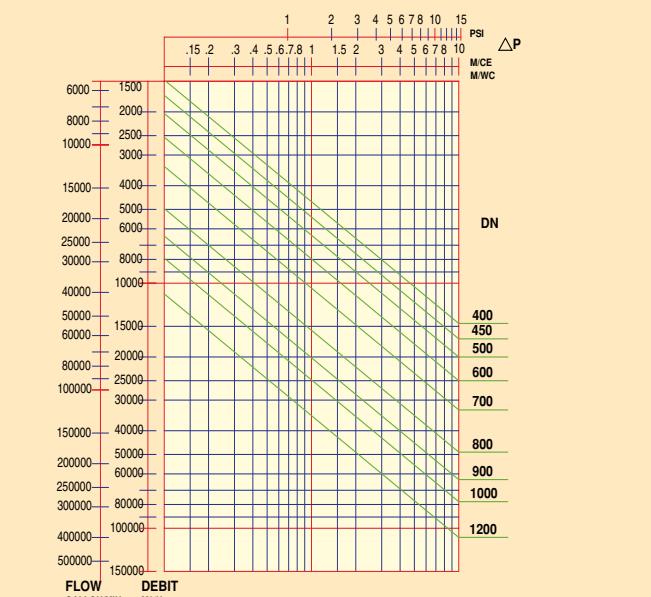
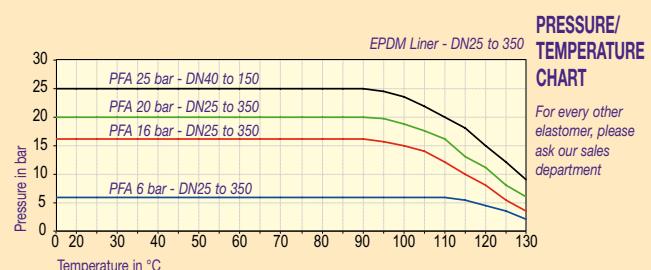
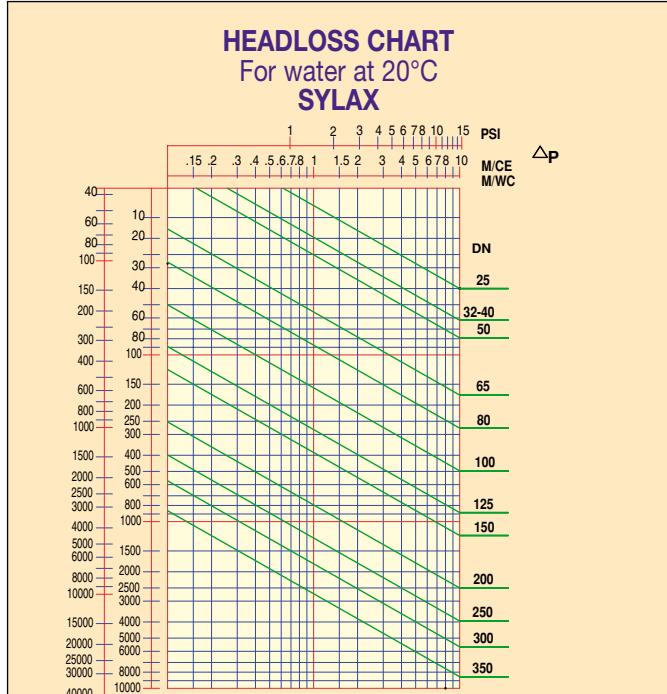
SYLAX

NITRILE : Torques for water at 20°C

For others elastomers (FKM, Silicone, Carboxylated Nitrile, white EPDM, ...) : consult us

DN mm	25	32	40	50	65	80	100	125	150	200	250	300	350
ISO PN 6	10	12	12	12	20	22	30	55	85	150	255	380	560
ISO PN 10/16	10	12	12	12	28	32	55	80	100	220	340	500	720

DN mm	400	450	500	600	700	800	900	1000	1200
ISO PN 6	600	800	1200	1500	3000	4000	6000	7000	11900
ISO PN 16	930	1300	1500	2200	4000	6000	7500	8200	13000





Nota : special executions for special flange connections on tanks, food tanks, road and rail tankers or appliances for public works.

Extra-price

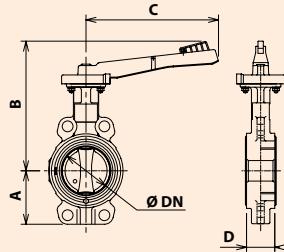
SYLAX	EXTRA PRICE	Ø	25	32	40	50	65	80	100	125	150	200	250	300	350	
		€ * Consult us														
BODY Coating on body	1 Decontamination coating 120 µm		*	*	*	*	*	*	*	*	*	*	*	*	*	
	2 Marine coating Brai - epoxy polyamide 250 µm		*	*	*	*	*	*	*	*	*	*	*	*	*	
	3 Rilsan coating 120 µm		*	*	*	*	*	*	*	*	*	*	*	*	*	
	4 Epoxy coating 250 µm	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Base Centering lugs/Tapped lugs GJS body	5 Two part body in GJS		35,76	35,76	35,76	36,33	38,11	39,57	41,05	53,93	123,09	139,52	201,65			
Base Centering lugs Steel body	6 Two part body in STEEL		257,94	257,94	257,94	257,94	257,94	328,29	328,29	328,29	398,65	696,42	696,42			
Base Centering lugs/Tapped lugs Stainless steel body	7 Two part body in STAINLESS STEEL		257,94	257,94	257,94	257,94	257,94	328,29	328,29	328,29	398,65	696,42	696,42			
SHAFT	8 STAINLESS STEEL 316L or 630 SHAFT for ISO PN10 (Ø 400 to 1200)		2,63	2,63	3,81	4,69	5,01	9,67	10,85	12,30	25,48	66,22	104,95	130,72		
DISC Base : GJS ductile iron polyamide	9 GJS DUCTILE IRON Rilsan coated 120 µm				*	*	*	*	*	*	*	*	*	*	*	
	10 STAINLESS STEEL Halar coated 600 µm			*	*	*	*	*	*	*	*	*	*	*	*	
	11 GJS DUCTILE IRON decontamination coated 120 µm				*	*	*	*	*	*	*	*	*	*	*	
	12 Surface treatment KOLSTERISING 33 / NIVOX 400 (Ø 50 to 200) (Ø 250 to 1200)				*	*	*	*	*	*	*	*	*	*	*	
Base : Stainless steel <i>On request</i> TITANE T40 URANUS B6 HASTELLOY C 276 MONEL 400	13 MIRROR POLISHED		*	*	*	*	*	*	*	*	*	*	*	*	*	
	14 STAINLESS STEEL 316L		*	*	*	*	*	*	*	*	*	*	*	*	*	
LINER	15 WHITE NITRILE		7,03	7,03	9,95	9,95	9,95	10,55	11,44	14,96	15,25	16,45	17,59	18,77		
Base EPDM or nitrile	16 LINER GLUED ONTO VALVE BODY for vacuum and operating frequency > 1 cycle/mn	4,09	4,09	4,09	9,66	16,46	24,62	33,40	38,71	43,37	50,43	59,82	66,81	87,91		
BUTTERFLY VALVES	17 Grease and silicone free Bare shaft or notched ductile iron handlever Actuation and gear box : consult us Butterfly valve with FKM liner : Two part body		73,49	73,49	73,49	73,49	73,49	73,49	88,16	88,16	102,88	117,56	139,62	139,62		
BUTTERFLY VALVES DN 25 up to 350	18 ATEX in accordance to Directive 94/9/CE (Except Sylax with manual actuators, handlever or gear box, excludes from the directive scope)		149,98	149,98	149,98	149,98	149,98	149,98	163,95	163,95	191,84	294,72	294,72	294,72		
		€ * Consult us														
	EXTRA PRICE	Ø	400	450	500	600	700	800	900	1000	1200					
BODY Coating on body with manual actuation	19 Decontamination coating 120 µm		*	*	*	*	*	*	*	*	*				*	
	20 Marine coating Brai - epoxy polyamide 250 µm		*	*	*	*	*	*	*	*	*				*	
	21 Rilsan coating 120 µm		*	*	*	*	*	*	*	*	*				*	
	22 Epoxy coating 250 µm		*	*	*	*	*	*	*	*	*				*	
SHAFT	23 STAINLESS STEEL 630 shaft for ISO PN10 (Ø 400 to 1200)	153,32	176,02	210,19	297,79	503,22	524,36	1320,13	1320,13	1394,13						
DISC Base : GJS ductile iron epoxy	24 STAINLESS STEEL Halar coated 600 µm	*	*	*	*	*	*	*	*	*	*				*	
	25 GJS DUCTILE IRON Decontamination coating 120 µm	*	*	*	*	*	*	*	*	*	*				*	
	26 Surface treatment NIVOX 400	*	*	*	*	*	*	*	*	*	*				*	
	27 CSM	59,80	186,44	212,21	420,88	502,96	1488,95	2520,68	2755,17	6805,59						
Base EPDM or nitrile	28 Liner glued onto valve body	87,89	87,89	87,89	87,89	87,89	87,89	144,66	144,66	144,66	366,89					
BUTTERFLY VALVES DN 400 up to 1200	29 ATEX in accordance to Directive 94/9/CE (Except Sylax with manual actuators, handlever or gear box, excludes from the directive scope)	*	*	*	*	*	*	*	*	*	*				*	



SYLAX - Centering lugs GJL - GJS

DN	A	B	C	D	E
25	52	207	200	32	45
32	57	212	200	32	45
40	57	212	200	32	45
50	62	218	200	43	45
65	70	227	200	46	45
80	89	233	200	46	45
100	106	208	200	52	45
125	120	273	275	56	65
150	132	286	275	56	65

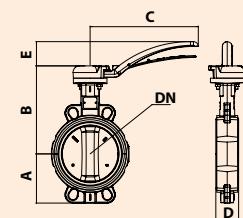
Liner :
EPDM,
Nitrile high
content,
Silicone,
Carboxylated
Nitrile



SYLAX - SYLAX GAS - Centering lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	223	290	56	65
150	131	236	290	56	65
200	164	293	450	60	86
250	200	318	450	68	86
300	235	343	450	78	86

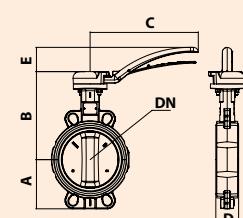
Liner :
EPDM,
Nitrile high
content,
Silicone,
Carboxylated
Nitrile



SYLAX - Centering lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	223	290	56	65
150	131	245	450	56	86
200	164	293	450	60	86
250	200	318	450	68	86

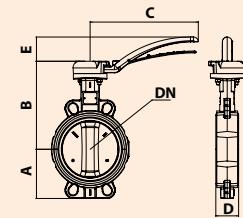
Liner :
FKM
CSM



SYLAX - Centering lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	232	450	56	86
150	131	245	450	56	86
200	164	293	450	60	86

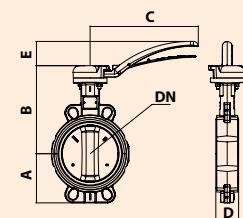
Liner :
White EPDM



SYLAX PS 20 - Centering lugs GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	232	450	56	86
150	131	245	450	56	86
200	164	293	450	60	86

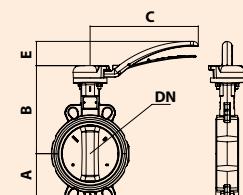
Liner :
EPDM
Nitrile high content



SYLAX PS 25 - Centering lugs GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	232	450	56	86
150	131	245	450	56	86
200	164	293	450	60	86

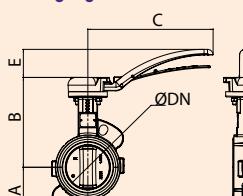
Liner :
EPDM



SYLAX STEEL OR STAINLESS STEEL - Centering lugs

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	223	290	56	65
150	131	236	290	56	65
200	164	293	450	60	86
250	200	318	450	68	86
300	235	343	450	78	86

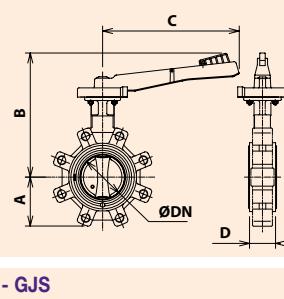
Liner :
EPDM
Nitrile high content
Silicone
Carboxylated Nitrile



SYLAX - Tapped lugs GJL - GJS

DN	A	B	C	D	E
32	57	212	200	32	45
40	57	212	200	32	45
50	62	218	200	43	45
65	70	227	200	46	45
80	89	233	200	46	45
100	106	208	200	52	45
125	120	273	275	56	65
150	132	286	275	56	65

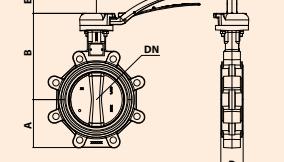
Liner :
EPDM,
Nitrile high
content,
Silicone,
Carboxylated
Nitrile



SYLAX - SYLAX GAS - Tapped lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	223	290	56	65
150	131	236	290	56	65
200	164	293	450	60	86
250	200	318	450	68	86
300	235	343	450	78	86

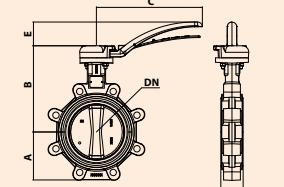
Liner :
EPDM,
Nitrile high
content,
Silicone,
Carboxylated
Nitrile



SYLAX - Centering lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	232	450	56	86
150	131	245	450	56	86
200	164	293	450	60	86
250	200	318	450	68	86
300	235	343	450	78	86

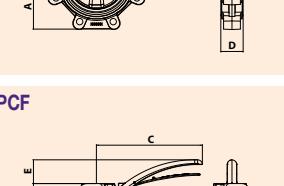
Liner :
FKM
CSM



SYLAX - Tapped lugs GJL - GJS

DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	200	52	45
125	120	232	450	56	86
150	131	245	450	56	86
200	164	293	450	60	86
250	200	318	450	68	86
300	235	343	450	78	86

Liner :
FKM
CSM



SYLAX - Centering lugs GJS

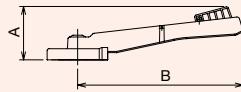
DN	A	B	C	D	E
25	50	158	200	32	45
32/40	57	163	200	32	45
50	62	169	200	43	45
65	70	178	200	46</	

SYLAX with notched handle lever polyamide made **CE** PED 97/23/CE

**DUCTILE
IRON
POLYAMIDE
COATED**

**NOTCHED HANDLEVER
5 POSITIONS PADLOCKABLE
INSULATING POLYAMIDE MATERIAL
CORROSION-PROOF**

Notched handle lever I.X.E.F.		
Actuation	A	B
DN 25 to 100	82	200
DN 125 to 150	85	275



EPDM θ -10°/+120° with CAST IRON GG25 body
θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE θ +5°/+85°

General and industrial services

General and industrial services, untreated water



**SYLAX
WAFER TYPE**



**SYLAX
LUG TYPE**

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	1 149G 010 895	2 149G 011 079	2,7	80,26
65	149G 010 910	149G 011 088	3,0	86,24
80	149G 010 929	149G 011 094	3,3	97,61
100	149G 010 956	149G 011 108	5,4	113,57
125	149G 059 145	149G 011 117	6,6	138,02
150	149G 011 006	149G 011 121	7,6	156,51

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	3 149G 011 568	4 149G 011 617	3,1	97,61
65	149G 011 571	149G 011 621	3,5	105,59
80	149G 011 577	149G 011 624	4,5	120,66
100	149G 011 586	149G 011 627	6,7	146,83
125	149G 026 578	149G 018 959	9,1	172,17
150	149G 011 596	149G 011 632	10,1	194,65

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	5 149G 038 369	6 149G 039 278	2,6	100,23
65	149G 039 274	149G 039 279	3,0	106,42
80	149G 012 167	149G 012 248	3,4	119,58
100	149G 039 275	149G 039 280	6,2	146,26
125	149G 039 276	149G 039 281	6,6	178,78
150	149G 039 277	149G 039 282	7,5	197,86

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	7 149G 036 801	8 149G 039 284	3,1	118,15
65	149G 036 800	149G 039 285	4,4	126,37
80	149G 036 799	149G 039 286	4,4	143,31
100	149G 036 797	149G 039 287	6,8	180,56
125	149G 039 283	149G 039 288	8,9	213,95
150	149G 024 019	149G 039 289	10,0	237,16

**DUCTILE
IRON EPOXY
COATED**

EPDM θ -10°/+90° with CAST IRON GG25 body
θ -15°/+90° with DUCTILE IRON GGG40 body

Drinking water



**SYLAX
WAFER TYPE**



**SYLAX
LUG TYPE**

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	Kg	€
50	9 149G 032 104	2,7	95,61
65	149G 032 114	3,0	105,29
80	149G 032 124	3,3	113,57
100	149G 032 134	5,4	151,14
125	149G 032 144	6,6	169,02
150	149G 032 154	7,6	204,33

Flange rating PN 10/16

DN mm	EPDM	Kg	€
50	10 149G 032 853	3,1	118,68
65	149G 032 863	3,5	129,48
80	149G 032 873	4,5	155,12
100	149G 032 883	6,7	198,04
125	149G 032 893	9,1	230,51
150	149G 032 903	10,1	258,96

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	Kg	€
50	11 149G 039 290	2,6	116,09
65	149G 039 291	3,0	126,03
80	149G 039 292	3,4	136,01
100	149G 039 293	6,2	184,97
125	149G 039 294	6,6	210,79
150	149G 039 295	7,5	247,11

Flange rating PN 10/16

DN mm	EPDM	Kg	€
50	12 149G 039 296	3,1	139,83
65	149G 039 297	4,4	150,96
80	149G 039 298	4,4	178,78
100	149G 039 299	6,8	233,31
125	149G 039 300	8,9	274,03
150	149G 058 930	10,0	303,43

**ALU
BRONZE**

EPDM θ -10°/+120° with CAST IRON GG25 body
θ -15°/+120° with DUCTILE IRON GGG40 body

Untreated water

Sea water



**SYLAX
WAFER TYPE**



**SYLAX
LUG TYPE**

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	13 149G 011 159	14 149G 011 209	2,9	120,49
50	149G 017 240	149G 011 214	2,8	124,59
65	149G 017 241	149G 011 219	3,1	138,66
80	149G 017 187	149G 016 521	3,3	149,79
100	149G 011 187	149G 011 227	5,4	203,16
125	149G 011 193	149G 011 230	6,9	227,47
150	149G 017 068	149G 011 234	7,7	274,03

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	15 149G 011 648	16 149G 019 011	3,1	149,49
65	149G 018 986	149G 019 014	3,6	164,73
80	149G 018 989	149G 019 017	4,5	196,38
100	149G 018 992	149G 019 020	6,7	252,97
125	149G 018 995	149G 019 023	9,4	291,43
150	149G 018 998	149G 019 026	10,2	330,52

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32	17 149G 039 331	18 149G 039 338	3,2	138,07
50	149G 065 243	149G 039 339	2,7	142,16
65	149G 039 333	149G 039 340	3,1	156,26
80	149G 039 334	149G 016 517	3,4	168,86
100	149G 039 335	149G 039 341	6,2	232,45
125	149G 039 336	149G 039 342	6,9	264,07
150	149G 039 337	149G 039 343	7,6	310,70

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32	19 149G 039 344	20 149G 039 352	4,5	152,15
40	149G 039 345	149G 039 353	3,7	152,15
50	149G 039 346	149G 039 354	3,1	167,09
65	149G 039 347	149G 039 355	4,5	182,30
80	149G 065 244	149G 039 356	4,4	215,45
100	149G 065 245	149G 039 357	6,8	282,22
125	149G 065 246	149G 039 358	9,2	328,01
150	149G 065 247	149G 039 359	10,1	367,34

SHUT OFF



SYLAX

SYLAX with notched handlever polyamide made PED 97/23/CE

316
STAINLESS
STEEL

EPDM θ -10°/+120° with CAST IRON GG25 body
 NITRILE θ -15°/+120° with DUCTILE IRON GGG40 body

General and industrial services

General and industrial services, hydrocarbons, untreated water



SYLAX
WAVER TYPE

(1) PFA = PS maxi
= 10 bar



SYLAX
LUG TYPE

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
25	149G 032 035 (1)	149G 035 533 (1)	1,8	80,26
32/40	149G 011 255	149G 018 769	1,9	80,26
50	149G 011 267	149G 011 379	2,7	103,32
65	149G 011 288	149G 011 388	3,1	104,16
80	149G 011 298	149G 011 395	3,4	119,51
100	149G 011 317	149G 011 400	5,4	146,00
125	149G 011 335	149G 011 405	6,8	196,35
150	149G 011 344	149G 011 410	8,3	258,13

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	149G 011 683	149G 046 562	3,1	120,66
65	149G 011 687	149G 019 077	3,5	128,64
80	149G 011 692	149G 019 080	4,5	159,35
100	149G 011 697	149G 019 083	6,7	187,53
125	149G 011 702	149G 019 086	9,3	255,53
150	149G 011 706	149G 019 089	10,8	310,61

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

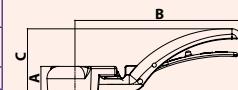
DN mm	EPDM	NITRILE	Kg	€
32/40	5	149G 039 302	6	149G 039 309
50		149G 039 303		149G 039 310
65		149G 039 304		149G 039 311
80		149G 039 305		149G 039 312
100		149G 039 306		149G 039 313
125		149G 039 307		149G 039 314
150		149G 039 308		149G 039 315

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32	7	149G 039 316	8	149G 039 323
40		149G 039 317		149G 039 324
50		149G 039 318		149G 039 325
65		149G 039 319		149G 039 326
80		149G 038 236		149G 039 327
100		149G 039 320		149G 039 328
125		149G 039 321		149G 039 329
150		149G 039 322		149G 039 330

Short notched ductile iron handlever

DN	A	B	C
25 to 80	33	165	60
100 to 125	33	200	78



CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
25	9	149G 039 882	10	149G 039 893
32/40		149G 039 883		149G 039 894
50		149G 039 884		149G 044 754
65		149G 039 885		149G 039 896
80		149G 039 886		149G 039 897
100		149G 011 316		149G 011 399
125		149G 039 888		149G 039 899

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	11	149G 039 906	12	149G 039 914
65		149G 039 907		149G 039 915
80		149G 039 908		149G 039 916
100		149G 011 696		149G 011 726
125		149G 039 910		149G 039 918

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	21	149G 039 954	22	149G 039 964
50		149G 039 955		149G 039 965
65		149G 039 956		149G 039 966
80		149G 039 957		149G 039 967
100		149G 059 541		149G 012 403
125		149G 039 959		149G 039 969

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32	15	149G 039 972	16	149G 061 169
40		149G 039 973		149G 039 984
50		149G 039 974		149G 039 985
65		149G 039 975		149G 039 986
80		149G 039 976		149G 039 987
100		149G 012 582		149G 012 602
125		149G 088 270		149G 039 989

SYLAX with short notched ductile iron handlever equipped with a thermometer

CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	21	149G 058732	18	149G 058738
50		149G 058733	3,3	205,17
65		149G 035356	4,8	214,55
80		149G 056765	5,1	230,38
100		149G 058734	5,1	257,66
125		149G 058735	7,5	314,62
150		149G 058736	9,2	378,27
200		149G 058737	16,9	628,35

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	19	149G 058748	20	149G 058754
65		149G 058496		149G 058755
80		149G 058749		149G 058756
100		149G 046743		149G 058757
125		149G 054689		149G 058758
150		149G 058750		149G 058759
200		149G 058751(1)		149G 058760(1)

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32	23	149G 058786	24	149G 058795
40		149G 058787		149G 058796
50		149G 058788		149G 058797
65		149G 058789		149G 058798
80		149G 058790		149G 058799
100		149G 058791		149G 058800
125		149G 058792		149G 058801
150		149G 058793		149G 058802
200		149G 058794 (2)		149G 058803 (2)
200		149G 058805 (1)		149G 058804 (1)

Flange rating PN 10/16

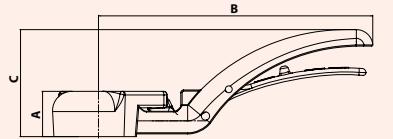
DN mm	EPDM	NITRILE	Kg	€
32	23	149G 058786	24	149G 058795
40		149G 058787		149G 058796
50		149G 058788		149G 058797
65		149G 058789		149G 058798
80		149G 058790		149G 058799
100		149G 058791		149G 058800
125		149G 058792		149G 058801
150		149G 058793		149G 058802
200		149G 058794 (2)		149G 058803 (2)
200		149G 058805 (1)		149G 058804 (1)

SHUT OFF



SYLAX with notched ductile iron handlelever C E PED 97/23/CE

Notched ductile iron handlelever	
EPDM - High content Nitrile Carboxylated nitrile - Silicone	FKM - CSM
DN 25 a 100	DN 32 a 100
DN 125 a 150	DN 125
DN 200 a 250	DN 150 a 250
DN 300	-



EPDM θ -10°/+120° with CAST IRON GG25 body
 θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE θ +5°/+85°

General and industrial services

General and industrial services, untreated water

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)



SYLAX
WAVER TYPE

(1) PFA = PS maxi
= 10 bar maxi and
PN 10

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50 1	149G 010 894	2 149G 011 078	3,3	80,26
65	149G 010 909	149G 011 087	3,6	86,24
80	149G 010 928	149G 011 093	4,0	97,61
100	149G 010 955	149G 011 107	6,3	113,57
125	149G 059 144	149G 011 116	7,5	138,02
150	149G 011 005	149G 011 120	8,5	156,51
200	149G 016 257	149G 016 275	16,8	280,05
250	149G 410 10	149G 016 276 (1)	23,1	530,16
300	149G 023 900	149G 41 031 (1)	32,9	626,97

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50 5	149G 012 151	6 149G 012 242	3,3	100,23
65	149G 012 159	149G 012 244	3,6	106,42
80	149G 012 166	149G 012 247	4,0	119,58
100	149G 012 180	149G 012 254	7,1	146,26
125	149G 016 116	149G 012 260	7,5	178,78
150	149G 012 197	149G 016 096	8,4	197,86
200	149G 026 175	149G 420 29	16,6	339,20
250	149G 420 10	149G 420 30 (1)	22,9	624,24
300	149G 026 474	149G 420 31 (1)	32,5	761,67

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
80 7	149G 044 968	8 149G 044 973	4,7	121,35
100	149G 093 317	149G 093 318	7,5	165,12
125	149G 044 970	149G 044 975	9,2	191,45
150	149G 044 971	149G 044 976	10,3	198,20
200	149G 044 972	149G 044 977	19,2	377,96

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50 3	149G 027 890	4 149G 011 616	3,7	97,61
65	149G 027 891	149G 011 620	4,1	105,59
80	149G 027 888	149G 059 316	5,1	120,66
100	149G 027 889	149G 011 626	7,6	146,85
125	149G 016 710	149G 018 958	10,0	172,17
150	149G 059 310	149G 011 631	11,0	194,65
200	149G 025 186 (1)	149G 025 187 (1)	23,0	369,36
250	149G 026 249 (1)	149G 414 30 (1)	29,7	633,65
300	149G 414 11 (1)	149G 414 31 (1)	39,5	796,26

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50 9	149G 012 491	10 149G 012 513	3,7	118,15
65	149G 012 493	149G 019 876	5,0	126,37
80	149G 019 826	149G 019 880	5,0	143,31
100	149G 012 497	149G 012 517	7,7	180,56
125	149G 019 834	149G 019 888	9,8	213,95
150	149G 012 500	149G 059 597	10,9	237,16
200	149G 424 12 (3)	149G 424 32 (3)	23,1	431,22
250	149G 424 13 (3)	149G 424 33 (2)	28,0	569,11
300	149G 424 14 (3)	149G 424 34 (2)	38,4	944,82
200	149G 424 09 (1)	149G 424 29 (1)	23,6	431,22
250	149G 424 10 (1)	149G 424 30 (1)	28,1	769,11
300	149G 424 11 (1)	149G 424 31 (1)	38,3	944,82



CARBOXYLATED NITRILE θ +5°/+110°

Powdery, abrasive fluids



SYLAX
WAVER TYPE

(1) PFA = PS maxi
= 6 bar

CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	CARBOXYLATED NITRILE	Kg	€
50 1	149G 041 693	3,3	130,72
65	149G 041 694	3,7	135,72
80	149G 026 512	3,9	148,03
100	149G 024 662	6,3	182,30
125	149G 041 695	7,5	211,34
150	149G 041 696	8,6	234,77
200	149G 025 065 (1)	16,8	373,26
250	149G 041 697 (1)	23,0	639,66
300	149G 041 698 (1)	32,3	811,38

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	CARBOXYLATED NITRILE	Kg	€
50 13	149G 038 008	3,2	137,19
65	149G 028 380	3,7	156,51
80	149G 027 995	7,1	205,45
100	149G 038 009	7,5	240,32
125	149G 038 010	11,1	265,87
200	149G 035 117 (1)	16,7	418,45
250	149G 038 012 (1)	22,8	768,84
300	149G 038 013 (1)	32,0	1234,10



SYLAX
LUG TYPE

(1) PFA = PS maxi
= 6 bar and PN10
(2) PFA = PS maxi
= 6 bar and PN16

Flange rating PN 10/16

DN mm	CARBOXYLATED NITRILE	Kg	€
50 12	149G 039 432	3,7	137,74
65	149G 039 433	4,2	151,84
80	149G 039 434	5,1	175,55
100	149G 039 435	7,6	215,71
125	149G 039 436	4,2	257,36
150	149G 039 437	11,1	275,82
200	149G 039 438 (1)	23,1	442,41
250	149G 039 439 (1)	29,6	798,06
300	149G 039 440 (1)	30,2	1119,50

Flange rating PN 10/16

DN mm	CARBOXYLATED NITRILE	Kg	€
50 14	149G 039 441	3,7	151,26
65	149G 039 442	5,1	160,92
80	149G 039 443	5,0	196,11
100	149G 039 444	7,7	241,27
125	149G 039 445	8,6	281,37
150	149G 039 446	11,0	311,81
200	149G 039 447 (2)	23,2	571,30
250	149G 039 448 (2)	27,0	1099,04
300	149G 039 449 (2)	36,7	1539,28
200	149G 039 450 (1)	22,5	571,30
250	149G 039 451 (1)	27,0	1099,04
300	149G 039 452 (1)	36,7	1539,28

SHUT OFF



SYLAX

SYLAX with notched ductile iron handlever PED 97/23/CE

DUCTILE
IRON EPOXY
COATED

EPDM θ -10°/+90° with CAST IRON GG25 body
 NITRILE θ -15°/+90° with DUCTILE IRON GGG40 body

Drinking water
Untreated water



SYLAX
WAVER TYPE

(1) PFA = PS maxi = 10 bar



SYLAX
CENTRAL
FLANGE



SYLAX
LUG TYPE

(1) PFA = PS maxi = 10 bar and PN10

(2) PFA = PS maxi = 10 bar and PN16

(3) PN16

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€
50	1	149G 032 103	2	149G 045 107
65		149G 032 113	3,6	105,29
80		149G 032 123	4,0	113,57
100		149G 032 133	6,3	151,14
125		149G 032 143	7,5	169,02
150		149G 032 153	8,5	204,33
200		149G 431 69	16,8	339,40
250		149G 431 70	23,1	525,00
300		149G 431 71	32,9	627,73

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€	
50	5	149G 036 113	6	149G 045 116	
65		149G 039 453	149G 045 117	3,6	126,03
80		149G 023 622	149G 045 118	4,0	136,01
100		149G 038 573	149G 045 119	7,1	184,97
125		149G 038 574	149G 045 120	7,5	210,79
150		149G 038 575	149G 045 121	8,4	247,11
200		149G 039 454	149G 045 122	16,6	400,39
250		149G 039 455	149G 045 123 (1)	22,9	624,50
300		149G 039 456	149G 045 124 (1)	32,5	730,29

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€	
80	7	149G 044 981	8	149G 045 089	
100		149G 044 982	149G 045 090	7,5	208,51
125		149G 044 983	149G 045 091	9,2	240,62
150		149G 044 984	149G 045 092	10,3	248,99
200		149G 044 985	149G 045 093	19,2	479,87

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€	
50	3	149G 032 852	4	149G 045 125	
65		149G 032 862	4,1	129,48	
80		149G 032 872	5,1	155,12	
100		149G 032 882	7,6	198,04	
125		149G 032 892	10,0	230,51	
150		149G 032 902	11,0	258,96	
200		149G 032 912 (1)	149G 045 131 (1)	23,0	434,91
250		149G 032 921 (1)	149G 045 132 (1)	29,7	670,55
300		149G 032 929 (1)	149G 045 133 (1)	39,5	892,80

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€	
50	9	149G 039 457	10	149G 045 134	
65		149G 039 458	149G 045 135	5,0	150,96
80		149G 039 459	149G 045 136	5,0	178,78
100		149G 039 460	149G 045 137	7,7	233,31
125		149G 039 461	149G 045 138	9,8	274,03
150		149G 039 462	149G 045 139	10,9	302,88
200		149G 039 463 (3)	149G 045 140 (3)	23,1	498,73
250		149G 039 464 (3)	149G 045 141 (2)	28,0	774,42
300		149G 039 465 (3)	149G 045 142 (2)	38,4	1003,31
200		149G 039 466 (1)	149G 045 143 (1)	23,6	498,73
250		149G 039 467 (1)	149G 045 144 (1)	28,1	774,42
300		149G 039 468 (1)	149G 045 145 (1)	38,3	1003,31

316
STAINLESS
STEEL

EPDM θ -10°/+120° with CAST IRON GG25 body
 NITRILE θ -15°/+120° with DUCTILE IRON GGG40 body

Drinking water, general services and industrial processes, swimming pool water
 General services and industrial processes, hydrocarbons



SYLAX
WAVER TYPE

(1) PFA = PS maxi = 10 bar

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€	
25	11	149G 059 712 (1)	12	149G 036 917 (1)	
32/40		149G 011 254	2,6	80,26	
50		149G 011 266	3,3	103,32	
65		149G 011 287	3,7	104,16	
80		149G 011 297	4,0	119,51	
100		149G 011 316	6,3	146,00	
125		149G 011 334	7,7	196,35	
150		149G 059 260	9,2	258,13	
200		149G 016 281	16,8	465,90	
250		149G 410 90	149G 016 284 (1)	23,4	738,19
300		149G 023 904	149G 411 11 (1)	25,6	1062,61

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€	
32/40	15	149G 012 313	16	149G 019 665	
50		149G 012 322	149G 026 594	3,9	124,01
65		149G 012 332	149G 012 399	3,7	124,86
80		149G 012 339	149G 012 401	4,0	142,16
100		149G 059 541	149G 012 403	7,1	179,68
125		149G 012 360	149G 012 406	7,7	238,90
150		149G 012 368	149G 012 409	9,1	302,59
200		149G 420 89	149G 421 09	16,6	530,65
250		149G 420 90	149G 421 10 (1)	23,2	844,07
300		149G 420 91	149G 421 11 (1)	25,2	1178,24

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€	
80	17	149G 044 978	18	149G 093 324	
100		149G 093 228	149G 093 322	7,5	213,26
125		149G 044 979	149G 093 323	9,4	281,37
150		149G 044 980	149G 044 989	11,0	320,45
200		149G 043 294	149G 044 990	19,2	623,07

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€
50	18	149G 028 008	19	149G 011 720
65		149G 011 686	4,2	128,64
80		149G 011 691	5,1	159,35
100		149G 011 696	7,6	187,53
125		149G 028 007	10,2	255,53
150		149G 028 006	11,7	310,61
200		149G 092 060 (1)	23,0	548,74
250		149G 414 90 (1)	30,0	870,34
300		149G 414 91 (1)	32,2	1328,99

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€	
32	19	149G 016 753	20	149G 016 755	
40		149G 016 754	149G 059 626	3,4	118,15
50		149G 016 219	149G 016 303	3,7	141,86
65		149G 012 574	149G 059 628	5,1	150,07
80		149G 012 577	149G 038 678	5,0	183,20
100		149G 012 582	149G 012 602	7,7	222,49
125		149G 012 584	149G 012 605	10,0	299,79
150		149G 012 586	149G 012 607	11,6	356,46
200		149G 424 92 (3)	149G 425 12 (3)	23,1	615,97
250		149G 424 93 (3)	149G 425 13 (2)	28,3	980,20
300		149G 424 94 (3)	149G 425 14 (2)	31,1	1452,60
200		149G 424 89 (1)	149G 425 09 (1)	23,6	615,97
250		149G 424 90 (1)	149G 425 10 (1)	28,4	980,20
300		149G 424 91 (1)	149G 425 11 (1)	31,0	1452,60

SHUT OFF

SYLAX with notched ductile iron handlever  PED 97/23/CE

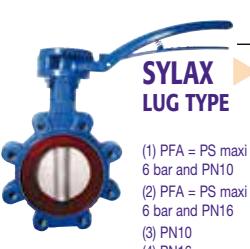
**316
STAINLESS
STEEL**

SILICONE θ -10°/+200° with CAST IRON GG25 body
FKM θ -25°/+200° with DUCTILE IRON GGG40 body
 θ +5°/+180°

Air or dry hot gas, ice-cold water, industrial process
 Industrial fluids, acids, bases, hydrocarbons

SYLAX
WAFER TYPE

(1) PFA = PS maxi = 6 bar

SYLAX
LUG TYPE

(1) PFA = PS maxi = 6 bar and PN10

(2) PFA = PS maxi = 6 bar and PN16

(3) PN10

(4) PN16

CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	SILICONE	Kg	€	FKM	Kg	€
32/40	■ 149G 039 474	2,6	150,66	■ 149G 027 936	3,8	269,37
50	149G 039 475	3,3	150,66	149G 022 723	4,0	274,95
65	149G 039 476	3,8	156,84	149G 013 493	6,4	406,73
80	149G 039 477	4,0	176,18	149G 045 768	7,9	551,31
100	149G 088 187	6,3	246,78	149G 045 768	17,2	1208,51
125	149G 039 479	7,8	291,99	149G 039 486	10,4	631,41
150	149G 039 480	9,3	375,44	149G 020 771	16,9	750,91
200	149G 039 481 (1)	17,1	703,45	149G 020 771	23,2	1285,75
250	149G 039 482 (1)	23,4	1207,31	149G 020 807 (1)	25,3	1978,87
300	149G 039 483 (1)	25,6	1900,14			

Flange rating PN 10/16

DN	SILICONE	Kg	€	FKM	Kg	€
50	■ 149G 039 490	3,7	185,56	■ 149G 039 529	3,7	282,49
65	149G 039 491	4,2	199,62	149G 039 530	4,3	288,64
80	149G 039 492	5,1	225,10	149G 039 503	5,2	323,81
100	149G 039 493	7,6	301,19	149G 039 504	7,7	475,64
125	149G 039 494	10,2	350,32	149G 039 531	10,4	631,41
150	149G 039 495	11,8	461,16	149G 073 769	12,1	754,84
200	149G 039 496 (1)	23,4	795,86	149G 046 218(3)	23,4	1336,67
250	149G 039 497 (1)	30,0	1217,34			
300	149G 039 498 (1)	32,3	2170,61			

White EPDM θ +8°/+80°

CSM

 θ +5°/+90°

Industrial processes, powdery

Industrial fluids with weak acids and bases

CAST IRON GG25 BODYPFA 16 bar (water) / PS (p.84)
10 bar for White EPDM

Flange rating PN 6/10/16/ASA 150

DN	White EPDM	Kg	€	CSM	Kg	€
32/40	■ 149G 028 186	2,6	130,72	■ 149G 044 779	2,6	143,05
50	149G 024 871	3,3	130,72	149G 056 721	3,3	146,87
65	149G 039 507	3,8	142,16	149G 060 133	4,6	159,45
80	149G 013 551	4,0	158,87	149G 060 134	4,0	168,55
100	149G 039 508	6,3	210,79	149G 046 845	6,4	234,77
125	149G 039 509	7,8	252,06	149G 027 782	8,3	277,59
150	149G 028 187	9,2	303,43	149G 060 135	8,7	318,50
200	149G 044 211	16,8	499,10	149G 045 785	16,9	525,63

Flange rating PN 10/16

DN	White EPDM	Kg	€	CSM	Kg	€
50	■ 149G 039 521	3,7	166,52	■ 149G 039 501	3,7	181,70
65	149G 039 522	4,3	187,27	149G 039 502	5,3	204,31
80	149G 039 523	6,3	197,56	149G 039 517	5,2	218,64
100	149G 039 524	7,6	265,30	149G 039 518	7,7	304,57
125	149G 039 525	9,0	335,23	149G 039 505	10,8	356,46
150	149G 039 526	11,7	391,90	149G 060 137	11,9	403,92
200	149G 045 786(1)	23,1	556,35	149G 045 787(1)	23,2	596,83

Flange rating PN 10/16

DN	White EPDM	Kg	€	CSM	Kg	€
32/40	■ 149G 018 249	2,9	143,91	■ 149G 038 688	2,9	154,76
50	149G 018 253	3,3	143,91	149G 014 581	3,3	160,05
65	149G 018 257	3,8	155,34	149G 014 584	3,8	172,64
80	149G 018 261	4,0	174,70	149G 026 605	4,0	184,36
100	149G 017 236	7,1	233,63	149G 026 604	7,1	257,66
125	149G 018 269	7,8	281,37	149G 038 685	8,3	306,78
150	149G 018 273	9,1	334,43	149G 060 136	9,2	349,77
200	149G 026 462	16,7	732,47	149G 045 780	16,8	761,29

Flange rating PN 10/16

DN	White EPDM	Kg	€	CSM	Kg	€
32	■ 149G 016 055	4,5	171,75	■ 149G 016 756	4,5	184,08
40	149G 016 764	4,5	171,75	149G 016 757	4,5	184,08
50	149G 016 765	3,7	179,68	149G 016 758	3,7	194,92
65	149G 016 766	5,2	200,49	149G 016 759	5,2	217,47
80	149G 016 767	5,1	213,39	149G 016 760	5,1	234,50
100	149G 016 768	7,7	288,07	149G 016 761	7,8	327,42
125	149G 016 770	10,1	364,58	149G 016 762	10,7	385,79
150	149G 016 769	11,6	422,89	149G 043 146	11,8	434,91
200	149G 045 789(2)	23,1	831,97	149G 045 791(2)	23,2	880,25
200	149G 045 788(1)	23,7	831,97	149G 045 790(1)	23,7	880,25

Flange rating PN 10/16

DN	CARBOXYLATED NITRILE	Kg	€
32/40	■ 149G 045 006	2,6	131,79
50	149G 045 007	3,3	131,79
65	149G 045 008	3,7	140,41
80	149G 045 009	4,0	150,43
100	149G 045 010	6,3	192,90
125	149G 045 011	7,8	225,55
150	149G 045 012	9,3	272,73
200	149G 045 014 (1)	16,9	548,80
250	149G 045 015 (1)	23,3	970,85
300	149G 045 017 (1)	25,0	1285,46

Flange rating PN 10/16

DN	CARBOXYLATED NITRILE	Kg	€
50	■ 149G 045 022	3,7	140,98
65	149G 045 024	4,2	159,16
80	149G 042 964	5,1	181,18
100	149G 045 025	7,6	229,45
125	149G 045 026	10,2	270,23
150	149G 045 027	11,8	313,48
200	149G 045 028 (1)	23,1	619,71
250	149G 045 029 (1)	29,9	1074,15
300	149G 045 030 (1)	31,7	1571,33

Flange rating PN 10/16

DN	CARBOXYLATED NITRILE	Kg	€
32	■ 149G 045 031	3,4	148,79
40	149G 045 032	3,4	148,79
50	149G 045 033	3,7	148,79
65	149G 045 034	5,1	168,34
80	149G 045 035	5,0	202,66
100	149G 045 036	7,7	255,41
125	149G 045 037	10,1	293,08
150	149G 045 038	11,7	327,45
200	149G 045 039 (2)	23,2	747,85
250	149G 045 040 (2)	28,2	1369,47
300	149G 045 041 (2)	30,5	1616,00

Flange rating PN 10/16

DN	CARBOXYLATED NITRILE	Kg	€
50	■ 149G 045 042	4,2	159,16
65	149G 045 044	5,1	181,18
80	149G 042 964	7,6	229,45
100	149G 045 045	10,2	270,23
125	149G 045 046	11,8	313,48
200	149G 045 048 (1)	23,1	619,71
250	149G 045 049 (1)	29,9	1074,15
300	149G 045 050 (1)	31,7	1571,33

Flange rating PN 10/16

DN	CARBOXYLATED NITRILE	Kg	€

<tbl_r cells="4" ix

SHUT OFF



SYLAX

SYLAX with notched ductile iron handle lever PED 97/23/CE

ALU
BRONZE

EPDM θ -10°/+120° with CAST IRON GG25 body
 θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE θ +5°/+85°

General and industrial services, swimming pool water
 Sea water, ship yards



SYLAX
WAVER TYPE

(1) PFA = PS maxi
 = 10 bar



SYLAX
CENTRAL
FLANGE



(1) PFA = PS maxi
 = 10 bar and PN10
 (2) PFA = PS maxi
 = 10 bar and PN16
 (3) PN16

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40 1	149G 011 158	149G 011 207	3,5	120,49
50	149G 011 172	149G 011 213	3,4	124,59
65	149G 011 177	149G 011 218	3,7	138,66
80	149G 011 181	149G 011 223	3,9	149,79
100	149G 011 186	149G 011 226	6,4	203,16
125	149G 011 192	149G 011 229	7,8	227,47
150	149G 011 195	149G 011 233	8,6	274,03
200	149G 016 277	149G 016 280	16,6	570,77
250	149G 410 50	149G 016 361(1)	22,4	879,72
300	149G 023 902	149G 023 903(1)	25,6	1380,33

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40 5	149G 012 273	149G 016 864	3,8	138,07
50	149G 016 135	149G 012 293	3,3	142,16
65	149G 019 541	149G 012 295	3,7	156,26
80	149G 016 136	149G 012 297	4,0	168,86
100	149G 019 549	149G 016 029	7,1	232,45
125	149G 019 553	149G 012 300	7,8	264,07
150	149G 012 282	149G 016 296	8,5	310,70
200	149G 420 49	149G 420 69	16,4	630,07
250	149G 420 50	149G 420 70(1)	22,2	958,94
300	149G 420 51	149G 420 71(1)	25,2	1515,32

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
80 7	149G 044 991	149G 044 996	4,7	177,25
100	149G 044 992	149G 044 997	7,6	257,94
125	149G 044 993	149G 044 998	9,5	296,73
150	149G 044 994	149G 044 999	10,4	312,96
200	149G 044 995	149G 045 000	19,0	753,14

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50 3	149G 018 982	149G 019 010	3,7	149,49
65	149G 018 985	149G 016 157	4,2	164,73
80	149G 018 988	149G 016 158	5,1	196,38
100	149G 018 991	149G 016 299	7,7	252,97
125	149G 018 994	149G 019 022	10,3	291,43
150	149G 018 997	149G 019 025	11,1	330,52
200	149G 414 49(1)	149G 414 69(1)	22,9	669,44
250	149G 414 50(1)	149G 414 70(1)	28,9	1030,71
300	149G 414 51(1)	149G 414 71(1)	32,2	1648,02

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32 9	149G 012 527	149G 019 968	4,5	152,15
40	149G 035 531	149G 019 972	4,3	152,15
50	149G 019 922	149G 058 955	3,7	167,09
65	149G 012 534	149G 044 002	5,1	182,30
80	149G 019 930	149G 019 984	5,0	215,45
100	149G 019 934	149G 019 988	7,8	282,22
125	149G 019 938	149G 019 992	10,1	328,01
150	149G 019 942	149G 019 996	11,0	367,34
200	149G 424 52(3)	149G 424 72(3)	22,9	919,86
250	149G 424 53(3)	149G 424 73(2)	27,3	1479,75
300	149G 424 54(3)	149G 424 74(2)	29,4	2072,57
200	149G 424 49(1)	149G 424 69(1)	23,5	919,86
250	149G 424 50(1)	149G 424 70(1)	27,4	1479,75
300	149G 424 51(1)	149G 424 71(1)	31,1	2072,57

316
STAINLESS
STEEL

EPDM θ -15°/+120°

NITRILE θ +5°/+85°

Drinking water, general services and industrial processes, swimming pool water
 General services and industrial processes, hydrocarbons

STEEL BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32/40 11	149G 041 699	149G 041 700	2,8	305,19
50	149G 016 771	149G 016 780	3,0	322,64
65	149G 016 772	149G 016 781	3,0	354,03
80	149G 016 773	149G 016 782	3,2	383,65
100	149G 016 774	149G 016 783	4,2	486,55
125	149G 016 775	149G 016 784	8,5	488,28
150	149G 016 776	149G 016 785	9,5	634,78
200	149G 016 777	149G 016 786	18,2	1076,00
250	149G 016 778	149G 016 797(1)	25,1	1442,20
300	149G 016 779	149G 016 798(1)	30,8	1797,93

(1) PFA = PS maxi
 = 10 bar



SYLAX
WAVER TYPE

STAINLESS STEEL BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32/40 13	149G 016 610	149G 018 560	2,8	305,19
50	149G 012 987	149G 016 818	3,0	340,06
65	149G 012 991	149G 016 819	3,0	401,10
80	149G 012 993	149G 016 820	4,3	483,06
100	149G 012 998	149G 016 816	4,2	519,67
125	149G 015 990	149G 016 821	8,5	648,71
150	149G 013 005	149G 016 817	9,5	727,22
200	149G 013 009	149G 016 822	18,2	1245,13
250	149G 016 814	149G 016 823(1)	25,1	1825,85
300	149G 016 815	149G 016 824(1)	30,8	2303,67



SYLAX
LUG TYPE

(1) ISO PN10
 and PN10
 (2) ISO PN10
 (3) ISO PN16

DN mm	EPDM	NITRILE	Kg	€
50 15	149G 020 660	149G 020 669	3,9	472,27
65	149G 020 661	149G 020 670	4,9	567,39
80	149G 020 662	149G 020 671	3,2	575,73
100	149G 020 663	149G 020 672	5,8	740,95
125	149G 063 722	149G 020 673	5,9	784,35
150	149G 020 665	149G 020 674	7,0	916,16
200	149G 020 666(3)	149G 020 675(3)	34,0	1952,47
250	149G 020 667(3)	149G 020 676(2)	44,0	2381,36
300	149G 020 668(3)	149G 020 677(2)	58,0	3035,52
200	149G 041 721(1)	149G 041 724(1)	34,0	1952,47
250	149G 041 722(1)	149G 041 725(1)	44,0	2381,36
300	149G 041 723(1)	149G 041 726(1)	58,0	3035,52

SHUT OFF



SYLAX with notched ductile iron handlever CE PED 97/23/CE

EPDM
NITRILEθ -10°/+90°
θ +5°/+85°

General and industrial services

General and industrial services, untreated water

SYLAX
WAVER TYPESYLAX
LUG TYPEALU
BRONZEEPDM
NITRILEθ -10°/+90°
θ +5°/+85°General and industrial services
Sea water, ship yards

DUCTILE IRON GGG40 BODY

PFA 20 bar (water) / PS (p.84)

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	149G 039 540	149G 046 105	3,3	114,33
65	149G 014 779	149G 046 106	3,7	129,55
80	149G 039 541	149G 046 107	3,2	133,08
100	149G 039 542	149G 046 781	7,1	172,35
125	149G 039 568	149G 046 108	7,6	194,61
150	149G 039 543	149G 046 109	9,7	247,68
200	149G 039 544	149G 046 110	16,7	370,42

DUCTILE IRON GGG40 BODY

PFA 25 bar (water) / PS (p.84)

Flange rating PN 25

DN mm	EPDM	Kg	€
50	5	149G 015 179	4,3
65		149G 026 507	3,9
80		149G 016 807	4,2
100		149G 028 957	7,7
125		149G 026 545	9,4
150		149G 026 546	10,2

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	5	149G 039 554	3,8	129,85
65	149G 039 555	149G 046 153	4,1	134,57
80	149G 039 556	149G 046 154	3,9	149,93
100	149G 039 557	149G 046 155	8,2	208,09
125	149G 039 569	149G 046 156	9,0	237,71
150	149G 039 558	149G 046 157	12,2	293,67
200	149G 039 559	149G 046 158	23,6	529,27

Flange rating PN 25

DN mm	EPDM	Kg	€
50	6	149G 046 571	3,8
65		149G 062 787	5,0
80		149G 060 016	5,2
100		149G 034 285	8,3
125		149G 034 288	11,2
150		149G 034 291	11,8

316 L
STAINLESS
STEELEPDM
NITRILEθ -10°/+90°
θ +5°/+85°Drinking water, general and industrial services
Sea water, general and industrial services

DUCTILE IRON GGG40 BODY

PFA 20 bar (water) / PS (p.84)

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
40	7	149G 039 545	3,8	135,14
50	149G 039 546	149G 046 136	3,3	139,23
65	149G 039 547	149G 046 137	2,9	153,32
80	149G 039 548	149G 046 138	3,2	164,44
100	149G 039 549	149G 046 139	7,2	217,81
125	149G 039 570	149G 043 396	7,8	242,09
150	149G 044 114	149G 044 657	9,8	288,07
200	149G 039 551	149G 046 140	16,5	614,13

DUCTILE IRON GGG40 BODY

PFA 25 bar (water) / PS (p.84)

Flange rating PN 25

DN mm	EPDM	Kg	€
40	11	149G 039 534	3,8
50		149G 016 808	4,3
65		149G 016 809	4,7
80		149G 021 130	3,4
100		149G 033 106	7,7
125		149G 033 109	9,6
150		149G 033 112	10,3

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
32	9	149G 039 560	2,6	164,13
40	149G 039 561	149G 046 167	3,7	164,13
50	149G 039 562	149G 046 168	3,8	164,13
65	149G 039 563	149G 046 169	4,3	179,37
80	149G 039 564	149G 046 170	3,9	211,04
100	149G 062 814	149G 046 171	8,2	267,64
125	149G 039 571	149G 058 929	9,0	305,93
150	149G 039 566	149G 046 173	9,9	345,31
200	149G 039 567	149G 046 174	20,6	717,41

Flange rating PN 25

DN mm	EPDM	Kg	€
32	12	149G 039 537	2,6
40		149G 039 538	4,3
50		149G 016 803	3,8
65		149G 016 804	5,8
80		149G 016 805	4,5
100		149G 034 306	8,3
125		149G 034 309	9,0
150		149G 034 312	12,6

SYLAX
WAVER TYPESYLAX
LUG TYPE

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
32	15	149G 048 642	2,6	124,50
40	149G 045 558	149G 046 159	2,9	124,50
50	149G 045 559	149G 046 160	3,8	131,21
65	149G 045 560	149G 046 161	4,2	154,38
80	149G 045 561	149G 046 162	3,9	156,30
100	149G 045 562	149G 046 163	8,5	242,58
125	149G 045 563	149G 046 164	10,3	277,44
150	149G 045 564	149G 046 165	12,9	349,20
200	149G 045 565	149G 046 166	23,9	946,31

Flange rating PN 25

DN mm	EPDM	Kg	€
32	18	149G 045 566	3,5
40		149G 045 567	3,5
50		149G 045 556	4,1
65		149G 016 079	5,8
80		149G 062 799	7,2
100		149G 045 572	8,8
125		149G 045 557	9,6
150		149G 045 574	10,2

TEL. +33 3 85 97 42 42

SOCLA

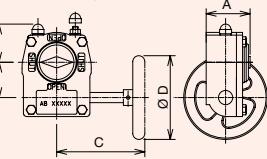


SYLAX with manual gear box

MANUAL GEAR BOX
LONGLIFE LUBRICATED
ACTUATED WITH GEAR

CE PED 97/23/CE

Dimensions see p. 117



EPDM θ -10°/+120° with CAST IRON GG25 body
NITRILE θ -15°/+120° with DUCTILE IRON GGG40 body

General and industrial services

NITRILE θ +5°/85° General and industrial services, untreated water



**SYLAX
WAVER TYPE**

(1) PFA = PS max
= 10 bar

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	1 149G079086	2 149G080005	3,6	242,16
65	149G079084	149G080006	4,0	251,55
80	149G079085	149G079453	4,3	261,23
100	149G079087	149G079730	6,3	287,83
125	149G079088	149G079960	7,4	305,72
150	149G079089	149G079341	8,5	342,03
200	149G079076	149G079404	16,5	458,91
250	149G079915	149G079961 (1)	22,9	741,04
300	149G079071	149G079962 (1)	34,3	846,58
350	149G079075 (1)	149G079516 (1)	41,4	1678,49

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	5 149G080012	6 149G080013	3,6	267,34
65	149G079923	149G080014	4,0	277,00
80	149G079839	149G080015	4,3	287,25
100	149G079094	149G079602	6,2	324,92
125	149G079297	149G079969	8,1	352,01
150	149G079095	149G079603	8,5	388,02
200	149G079298	149G079370	16,3	523,46
250	149G079968	149G079971 (1)	22,7	848,05
300	149G079188	149G079335 (1)	33,9	956,80
350	149G079207	149G080016	40,4	1844,48



**SYLAX
CENTRAL
FLANGE**



**SYLAX
LUG TYPE**

(1) PFA = PS max
= 10 bar and PN10
(2) PFA = PS max
= 10 bar and PN16
(3) PN16

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	3 149G079925	4 149G080010	4,0	266,35
65	149G080008	149G080011	7,6	277,25
80	149G079616	149G079215	5,4	302,73
100	149G079124	149G079902	7,9	335,77
125	149G079412	149G079170	9,9	368,33
150	149G079091	149G079966	11,9	396,77
200	149G079077 (1)	149G079168 (1)	22,9	555,71
250	149G079965 (1)	149G079433 (1)	29,6	894,87
300	149G079147 (1)	149G079967 (1)	41,3	1126,39
350	149G080007 (1)	149G080009 (1)	49,7	2185,18

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
50	9 149G080019	10 149G080023	4,0	296,18
65	149G080020	149G080024	4,5	296,18
80	149G080021	149G080025	5,4	336,08
100	149G079327	149G079977	7,7	379,65
125	149G079972	149G079978	9,9	409,52
150	149G079973	149G079737	8,0	445,25
200	149G079974 (1)	149G079486 (1)	22,5	623,15
250	149G079975 (1)	149G079540 (1)	29,0	1005,48
300	149G079787 (1)	149G079371 (1)	40,4	1243,67
350	149G079295 (1)	149G080026 (1)	49,2	2334,44
200	149G079288 (3)	149G079454 (3)	22,2	623,15
250	149G079976 (3)	149G079980 (2)	28,5	1005,48
300	149G079343 (3)	149G079981 (2)	39,9	1243,67
350	149G080022 (3)	149G080027 (3)	48,4	2334,44



CARBOXYLATED NITRILE θ +5°/+110°

Powdery, abrasive fluids



**SYLAX
WAVER TYPE**

(1) PFA = PS max
= 6 bar

CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	CARBOXYLATED NITRILE	Kg	€
50	11 149G080028	3,6	284,74
65	149G080029	4,1	289,47
80	149G080030	4,3	301,44
100	149G079893	7,9	326,90
125	149G079982	9,0	355,90
150	149G079983	10,1	379,10
200	149G079963 (1)	16,6	525,59
250	149G079965 (1)	25,4	792,01
300	149G079984 (1)	34,8	1040,57
350	149G080031 (1)	45,8	2153,94

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	CARBOXYLATED NITRILE	Kg	€
50	13 149G080037	3,6	290,87
65	149G080039	4,1	310,14
80	149G080036	4,3	317,93
100	149G079994	7,7	350,06
125	149G079953	9,6	384,94
150	149G079996	10,1	410,36
200	149G079995 (1)	16,3	570,77
250	149G079997 (1)	25,1	1004,96
300	149G079993 (1)	34,4	1463,51
350	149G080038 (1)	44,8	2534,92



**SYLAX
LUG TYPE**

(1) PFA = PS max
= 6 bar and PN10
(2) PFA = PS max
= 6 bar and PN16

Flange rating PN 10/16

DN mm	CARBOXYLATED NITRILE	Kg	€
50	14 149G080032	4,0	291,73
65	149G080033	4,6	305,69
80	149G080034	5,4	329,37
100	149G079954	9,4	360,10
125	149G079955	11,5	402,00
150	149G079956	11,9	420,40
200	149G079957 (1)	22,9	594,98
250	149G079958 (1)	32,0	1033,90
300	149G079959 (1)	41,7	1349,53
350	149G080035 (1)	54,0	2250,98

Flange rating PN 10/16

DN mm	CARBOXYLATED NITRILE	Kg	€
50	14 149G080040	4,0	304,81
65	149G080041	4,5	314,89
80	149G080042	5,5	350,06
100	149G079952	9,3	385,79
125	149G079985	11,5	425,97
150	149G079992	9,7	456,39
200	149G079989 (1)	22,6	723,90
250	149G079990 (1)	31,4	1334,88
300	149G079991 (1)	40,9	1768,72
350	149G080044 (1)	53,6	3036,05
200	149G079988 (2)	22,3	723,90
250	149G079987 (2)	31,4	1334,88
300	149G079988 (2)	40,9	1768,72
350	149G080043 (2)	52,6	3036,05



SYLAX/SYLAX with manual gear box

CE PED 97/23/CE

**DUCTILE
IRON EPOXY
COATED**

EPDM $\theta -10^\circ/+90^\circ$ with CAST IRON GG25 body
NITRILE $\theta -15^\circ/+90^\circ$ with DUCTILE IRON GGG40 body
PFA $\theta +5^\circ/+85^\circ$

Drinking water
Untreated water

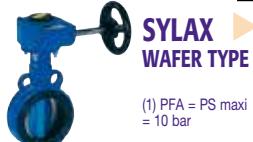


CAST IRON GG25 BODY

PFA 10/16 bar (water) / PS (p.84)

DUCTILE IRON GGG40 BODY

PFA 10/16 bar (water) / PS (p.84)

**SYLAX
WAVER TYPE**

(1) PFA = PS maxi = 10 bar

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€
50	1 149G079907	2 149G080104	3,6	243,31
65	149G079663	149G080105	4,0	252,70
80	149G079204	149G080106	4,3	261,23
100	149G079724	149G080070	6,3	288,92
125	149G079304	149G080071	7,4	306,78
150	149G079097	149G080072	8,5	342,03
200	149G079305	149G079489	16,5	460,28
250	149G080058	149G079050 (1)	22,9	742,07
300	149G079205	149G080073 (1)	34,3	847,64
350	149G079140 (1)	149G080074	41,4	1678,49

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€
50	5 149G080113	6 149G080117	3,6	277,00
65	149G080114	149G080118	4,1	277,89
80	149G080115	149G080119	4,3	288,07
100	149G079944	149G080082	6,3	326,90
125	149G080049	149G080083	8,1	352,56
150	149G080050	149G080084	10,1	388,85
200	149G079466	149G080085	16,3	523,46
250	149G080051	149G080086 (1)	22,7	848,05
300	149G079145	149G080087 (1)	33,9	956,80
350	149G079146	149G080052	40,5	1844,48

Flange rating PN 10

DN	EPDM	NITRILE	Kg	€
400	7 149G073186	8 149G082440	71,2	1974,95
450	149G073187	149G073189	89,0	3469,79
500	149G073188	149G073190	113,0	3573,08
600	149G082453	149G082502	174,3	5901,13
700	149G082362	149G082364	251,6	9002,44
800	149G082363	149G082365	296,6	10830,83
900	149G065431	149G065440	497,0	15004,07
1000	149G065432	149G082545	556,0	17209,33

Flange rating PN 16

DN	EPDM	NITRILE	Kg	€
400	9 149G082327	10 149G082443	71,2	1974,95
450	149G073192	149G073194	89,0	3469,79
500	149G070889	149G073195	113,0	3573,08
600	149G082454	149G082456	174,3	5901,13
700	149G081136	149G082366	251,6	9002,44
800	149G079805	149G085327	296,6	10830,83
900	149G065448	149G065456	501,0	15004,07
1000	149G065449	149G082546	556,0	17209,33

Flange rating PN 6/10/16/ASA 150

DN	EPDM	NITRILE	Kg	€
80	11 149G080120	12 149G080121	5,0	323,53
100	149G080062	149G080066	7,6	371,27
125	149G080063	149G080067	9,2	400,86
150	149G080064	149G080068	10,3	408,67
200	149G080065	149G080069	19,0	589,69

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€
50	13 149G080122	14 149G080125	4,0	291,99
65	149G080123	149G080126	4,4	303,16
80	149G080124	149G080127	5,4	330,78
100	149G080045	149G080092	7,7	375,17
125	149G080046	149G080093	9,9	415,93
150	149G080047	149G080094	8,0	445,25
200	149G080055 (1)	149G080089 (1)	22,5	623,15
250	149G080056 (1)	149G080090 (1)	28,9	1005,48
300	149G080057 (1)	149G080091 (1)	40,4	1243,67
350	149G080103 (1)	149G080088	49,2	2307,21

Flange rating PN 16

DN	EPDM	NITRILE	Kg	€
200	15 149G079184	16 149G080095	22,2	623,15
250	149G080048	149G080096 (2)	28,5	1005,48
300	149G080054	149G080097 (2)	39,9	1243,67
350	149G080128	149G080053	48,4	2334,44

Flange rating PN 10

DN	EPDM	NITRILE	Kg	€
400	17 149G082444	18 149G082445	90,6	2861,22
450	149G073197	149G073200	115,0	4231,84
500	149G073198	149G073201	159,0	5063,71
600	149G082420	149G082422	186,0	8728,63

Flange rating PN 16

DN	EPDM	NITRILE	Kg	€
400	19 149G082446	20 149G082447	90,6	2861,22
450	149G073202	149G073205	115,0	4231,84
500	149G073203	149G073206	160,0	5063,71
600	149G082421	149G082423	186,0	8728,63

Flange rating PN 10/16

DN	EPDM	NITRILE	Kg	€
150	21 149G079684	22 149G079799	8,5	313,33
200	149G079328	149G080099	20,8	601,64
250	149G079898	149G080100 (1)	30,7	931,24
300	149G079123	149G080101 (1)	49,6	1157,93
350	149G079142 (1)	149G080102 (1)	63,1	1888,65
350	149G079284 (2)	149G080098 (2)	62,9	1888,65

Flange rating PN 10

DN	EPDM	NITRILE	Kg	€
400	23 149G082328	24 149G082449	95,6	2524,58
450	149G073207	149G073209	111,0	3612,57
500	149G071106	149G073210	155,0	4344,64
600	149G082458	149G082505	227,0	7235,47
700	149G082368	149G082369	318,0	11069,39
800	149G081961	149G082370	434,0	12807,17
900	149G065476	149G065485	610,0	18398,46
1000	149G065477	149G082547	725,0	20447,38
1200	149G061911	149G061913	1037,5	37712,94

Flange rating PN 16

DN	EPDM	NITRILE	Kg	€
400	25 149G082328	26 149G082450	95,6	2524,58
450	149G073211	149G073213	111,0	3612,57
500	149G072882	149G073214	152,0	4344,64
600	149G082459	149G082509	227,0	7235,47
700	149G081137	149G082372	318,0	11069,39
800	149G082371	149G082373	434,0	12807,17
900	149G065494	149G065503	608,0	18398,46
1000	149G065495	149G082550	718,0	20447,38
1200	149G061912	149G061914	1037,5	37712,94

SHUT OFF

316
STAINLESS
STEEL

SYLAX/SYLAX with manual gear box

EPDM $\theta -10^\circ/+120^\circ$ with CAST IRON GG25 body
 NITRILE $\theta -15^\circ/+120^\circ$ with DUCTILE IRON GGG40 body

$\theta +5^\circ/+85^\circ$



CE PED 97/23/CE

SYLAX

Drinking water, general services and industrial processes, swimming pool water
 General services and industrial processes, hydrocarbons

CAST IRON GG25 BODY

PFA 10/16 bar [water] / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
25	1 149G079901 (1)	2 149G080168 (1)	2,8	253,57
32/40	149G079008	149G080165	2,9	253,57
50	149G079037	149G079723	3,6	253,57
65	149G079411	149G080166	4,0	256,99
80	149G079082	149G080167	4,3	273,45
100	149G079090	149G079006	6,3	308,15
125	149G079014	149G079005	7,7	343,90
150	149G079013	149G080131	8,9	408,65
200	149G079134	149G079447	16,5	664,37
250	149G080130	149G080132 (1)	23,2	1052,32
300	149G079120	149G079121 (1)	35,2	1304,50
350	149G079074 (1)	149G080188 (1)	42,1	2205,01

SYLAX
WAFER TYPE

(1) PFA = PS maxi
 = 10 bar



SYLAX
CENTRAL
FLANGE



SYLAX
LUG TYPE

(1) PFA = PS maxi
 = 10 bar and PN10
 (2) PFA = PS maxi
 = 10 bar and PN16



SYLAX
DOUBLE
FLANGED

(1) PFA = PS maxi
 = 10 bar and PN10
 (2) PN16



DUCTILE IRON GGG40 BODY

PFA 10/16 bar [water] / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	5 149G080175	6 149G080176	3,2	272,57
50	149G079065	149G080177	3,6	272,57
65	149G079400	149G080178	4,0	282,22
80	149G079334	149G080179	4,3	300,09
100	149G080139	149G079039	6,1	345,84
125	149G079096	149G080140	8,3	391,38
150	149G079311	149G079470	8,9	456,67
200	149G079080	149G079099	16,3	742,25
250	149G079562	149G080141 (1)	23,0	1172,68
300	149G079122	149G080142 (1)	34,8	1482,92
350	149G079906	149G080190	41,1	2293,51

Flange rating PN 10

400	7 149G082462	8 149G082465	71,2	2558,10
450	149G073229	149G073231	89,0	4392,95
500	149G070632	149G073232	116,0	4884,26
600	149G079240	149G082516	174,3	7983,53
700	149G082273	149G082374	251,6	10780,60
800	149G082151	149G082375	296,6	14147,08
900	149G065646	149G065654	519,0	22018,97
1000	149G065647	149G082561	582,0	23635,27

Flange rating PN 16

400	9 149G082467	10 149G082468	71,2	2558,10
450	149G073233	149G073235	89,0	4392,95
500	149G071143	149G073236	116,0	4884,26
600	149G082460	149G082521	174,3	7983,53
700	149G079446	149G082376	251,6	10780,60
800	149G079804	149G082377	296,6	14147,08
900	149G065662	149G065670	521,0	22018,97
1000	149G065663	149G082562	589,0	23635,27

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
80	11 149G080180	12 149G080181	5,1	331,62
100	149G080153	149G080156	7,6	384,39
125	149G080154	149G080157	9,4	449,44
150	149G080155	149G093288	10,7	486,83
200	149G080129	149G080159	19,0	790,94

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32	13 149G080182	14 149G080183	3,5	298,96
40	149G079643	149G080184	3,5	298,96
50	149G079357	149G080185	4,0	305,11
65	149G079156	149G080186	4,5	326,33
80	149G079578	149G080187	5,4	348,93
100	149G079137	149G080144	7,7	400,28
125	149G079367	149G080145	10,1	449,71
150	149G079358	149G091923	8,4	517,00
200	149G079359 (1)	149G080147 (1)	22,6	1046,40
250	149G080143 (1)	149G080148 (1)	29,3	1568,57
300	149G079678 (1)	149G080149 (1)	41,3	2070,73
350	149G079677 (1)	149G080191 (1)	49,9	3190,25

Flange rating PN 16

200	15 149G079423	16 149G080150	22,3	1046,40
250	149G079473	149G080151 (2)	28,8	1568,57
300	149G079472	149G080152 (2)	40,8	2070,73
350	149G080192	149G080193	49,1	3190,25

Flange rating PN 10

400	17 149G082469	18 149G082470	90,6	3444,66
450	149G073237	149G073240	115,0	5063,71
500	149G073238	149G073241	166,0	6113,29
600	149G082424	149G082426	186,0	11112,53

Flange rating PN 16

400	19 149G082471	20 149G082472	90,6	3444,66
450	149G073242	149G073245	115,0	5063,71
500	149G073243	149G073246	162,0	6113,29
600	149G082425	149G082427	186,0	11112,53

Flange rating PN 10/16

150	21 149G079458	22 149G080194	8,9	381,45
200	149G079081	149G079796	20,8	927,83
250	149G079452	149G080162	31,0	1466,18
300	149G079793	149G080163	50,6	1846,10
350	149G079320 (1)	149G080164 (1)	63,8	2685,14
350	149G080161 (2)	149G080160 (2)	63,6	2685,14

Flange rating PN 10

400	23 149G082477	24 149G082478	95,6	3369,04
450	149G073247	149G073249	111,0	4953,18
500	149G070498	149G073250	158,0	5657,15
600	149G079366	149G082463	227,0	9315,05
700	149G082378	149G082380	318,0	12399,66
800	149G082379	149G082381	434,0	16335,61
900	149G065703	149G065711	627,0	24076,30
1000	149G065704	149G082563	746,0	26641,62
1200	149G065972	149G065372	1037,5	48421,25

Flange rating PN 16

400	25 149G082479	26 149G082480	95,6	3369,04
450	149G073251	149G073254	111,0	4953,18
500	149G073252	149G073255	156,0	5657,15
600	149G082125	149G081546	227,0	9315,05
700	149G082119	149G082382	318,0	12399,66
800	149G079803	149G082383	434,0	16335,61
900	149G065719	149G065727	627,0	24076,30
1000	149G065720	149G082564	746,0	26641,62
1200	149G065973	149G065373	1037,5	48421,25



SYLAX/SYLAX with manual gear box

CE PED 97/23/CE

316
STAINLESS
STEEL

SILICONE θ -10°/+200° with CAST IRON GG25 body
FKM θ -25°/+200° with DUCTILE IRON GGG40 body
 θ +5°/+180°

Air or dry hot gas, ice-cold water, industrial processes
Industrial fluids, acids, bases, hydrocarbons



SYLAX
WAFER TYPE

(1) PFA = PS maxi = 6 bar

CAST IRON GG25 BODY

PFA 6/10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	SILICONE	Kg	€	FKM	Kg	€
32/40	149G080235	1,1	285,57	2		
50	149G080236	3,6	285,57			
65	149G080237	2,7	291,73	149G080239	4,2	403,92
80	149G080238	4,3	310,97	149G080240	4,4	409,79
100	149G080213	6,3	368,46	149G079812	6,4	528,44
125	149G080214	9,4	413,44	149G080210	9,3	673,02
150	149G080215	10,5	496,87	149G080211	10,8	847,19
200	149G079418 (1)	16,7	833,53	149G079406	16,9	1342,69
250	149G080216 (1)	24,0	1390,71	149G080212	23,7	1926,13
300	149G080217 (1)	30,2	2203,27	149G079776	36,4	3014,75
350	149G080266 (1)	42,4	3034,31	149G080267	43,3	3899,65

DUCTILE IRON GGG40 BODY

PFA 6/10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN	SILICONE	Kg	€	FKM	Kg	€		
32/40	5	149G080249	3,2	298,71	6	149G080252	3,3	409,52
50	149G080250	3,6	298,71	149G080253	4,2	409,52		
65	149G080251	4,1	304,81	149G079100	4,2	417,07		
80	149G080265	4,3	326,90	149G080254	4,4	425,68		
100	149G079314	6,1	391,38	149G079040	6,3	551,31		
125	149G080203	10,0	442,70	149G080201	9,9	702,33		
150	149G080204	10,5	527,86	149G079583	10,8	878,20		
200	149G079313 (1)	16,5	881,01	149G079238	16,7	1486,88		
250	149G080205 (1)	22,9	1557,08	149G080234	23,5	1981,05		
300	149G080206 (1)	35,4	2281,75	149G080202	35,9	3092,94		
350	149G080270 (1)	42,5	3112,51	149G080271	42,8	4622,66		

Flange rating PN 10

DN	SILICONE	Kg	€	FKM	Kg	€		
400	7	149G082518 (1)	71,0	3765,05	8	149G082523	77,0	4919,14
450	149G073273 (1)	91,8	4678,86	149G073276	98,5	5277,24		
500	149G073274 (1)	120,0	6579,68	149G073277	126,0	10412,95		
600	149G082466 (1)	170,0	10792,87	149G082534	194,0	18865,07		
700	149G082411 (1)	330,0	11557,74	149G082580	373,8	26422,41		
800	149G082412 (1)	575,8	14303,42	149G082581	580,9	28123,22		
900	149G065757 (1)	622,7	23843,19	149G082555	622,7	43619,84		
1000	149G065758 (1)	711,0	25105,21	149G082565	711,0	46212,83		

Flange rating PN 16

DN	SILICONE	Kg	€	FKM	Kg	€		
450	9	149G073279 (1)	91,6	4678,86	10	149G073280	98,3	5277,24
500	149G073278 (1)	120,0	6579,68	149G073281	126,0	10412,95		
600	149G082533 (1)	170,0	10792,87	149G082535	194,0	18865,07		
700	149G082413 (1)	329,6	11557,74	149G082582	373,4	26422,41		
800	149G082414 (1)	575,2	14303,42	149G082583	580,3	28123,22		
900	149G065772 (1)	621,4	23843,19	149G065779	621,4	43619,84		
1000	149G065773 (1)	705,0	25105,21	149G082566	705,0	46212,83		

Flange rating PN 6/10/16/ASA 150

DN	SILICONE	Kg	€	FKM	Kg	€		
50	3	149G080243	4,1	320,18	4	149G080246	4,1	417,07
65	149G080244	4,6	333,87	149G080247	4,7	423,45		
80	149G080245	5,4	359,55	149G080248	5,5	458,36		
100	149G080195	7,8	422,35	149G080233	7,9	597,34		
125	149G080196	11,9	471,46	149G080207	11,8	752,58		
150	149G080197	12,3	582,59	149G080208	12,6	931,53		
200	149G080198 (1)	23,0	1155,39	149G080209 (3)	23,2	1782,05		
250	149G080199 (1)	29,8	1951,43	149G040135 (3)	35,6	2428,29		
300	149G080200 (1)	42,7	2487,19	149G040136 (3)	50,8	3631,68		
350	149G080268 (1)	49,8	3654,02	149G080269 (3)	51,6	4985,56		

Flange rating PN 10/16

DN	SILICONE	Kg	€	FKM	Kg	€		
32	11	149G080255	3,5	325,49	12	149G080260	3,6	430,17
40	149G080256	3,5	325,49	149G080261	3,6	430,17		
50	149G080257	4,0	333,30	149G080262	3,9	430,17		
65	149G080258	4,6	346,96	149G080263	4,6	436,85		
80	149G080259	5,4	375,44	149G080264	5,5	474,25		
100	149G080218	7,7	445,25	149G080227	7,9	620,25		
125	149G080219	11,9	500,76	149G080228	11,7	781,90		
150	149G080220	10,0	613,84	149G080229	10,4	962,50		
200	149G080221 (1)	22,7	120,84	149G079862 (3)	23,0	1832,84		
250	149G080222 (1)	29,2	212,96	149G080230 (3)	29,8	2507,00		
300	149G080223 (1)	41,9	2565,89	149G46611 (3)	50,0	3709,82		
350	149G080272 (1)	50,3	3732,15	149G080273 (3)	51,2	5049,76		

Flange rating PN 10

DN	SILICONE	Kg	€	FKM	Kg	€		
400	15	149G082523 (1)	95,0	5202,16	16	149G082524	100,0	6694,69
450	149G073283 (1)	120,4	5492,73	149G073286	126,8	6865,85		
500	149G073282 (1)	159,0	7825,87	149G073287	165,0	12291,62		
600	149G082441 (1)	250,0	13921,85	149G082541	273,0	21994,05		

Flange rating PN 16

DN	SILICONE	Kg	€	FKM	Kg	€		
400	17	149G082528 (1)	95,0	5202,16	18	149G082526	100,0	6694,69
450	149G073289 (1)	118,5	5492,73	149G073292	125,3	6865,85		
500	149G073290 (1)	159,0	7825,87	149G073293	165,0	12291,62		
600	149G082442 (1)	246,0	13921,85	149G082544	270,0	21994,05		

INOX
316

EPDM
NITRILE

θ -15°/+120°
 θ +5°/+85°

Drinking water, general services and industrial processes, swimming pool water
General services and industrial processes, hydrocarbons



SYLAX
DOUBLE
FLANGED

DUCTILE IRON GGG40 BODY

PFA 20 bar (water) / PS (p.84)

Flange rating ASA 150

DN	EPDM	NITRILE	Kg	€
400	19	149G087557	20	149G087560
450	149G087443		149G087449	142,0
500	149G087446		149G087450	173,0
600	149G087564		149G087565	255,0
				10712,32

SHUT OFF



SYLAX

ALU
BRONZE

SYLAX with manual gear box

CE PED 97/23/CE

EPDM $\theta -10^\circ/+120^\circ$ with CAST IRON GG25 body
 $\theta -15^\circ/+120^\circ$ with DUCTILE IRON GGG40 body

NITRILE $\theta +5^\circ/+85^\circ$

General and industrial services, swimming pool water
 Sea water, ship yards

CAST IRON GG25 BODY

PFA 10/16 bar (water) / PS (p.84)



SYLAX
WAVER TYPE

(1) PFA = PS maxi
 $= 10$ bar

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	1 149G080336	2 149G080340	6,5	272,31
50	149G080337	149G080341	7,7	276,71
65	149G080338	149G080342	4,3	290,59
80	149G080339	149G080343	4,5	302,05
100	149G080276	149G079471	6,3	345,01
125	149G080277	149G080282	9,9	369,03
150	149G080278	149G079587	10,8	415,93
200	149G079739	149G079912	16,3	728,68
250	149G079561	149G079650 (1)	22,1	1120,30
300	149G080280	149G080283 (1)	34,1	1643,49
350	149G080281 (1)	149G080284 (1)	42,0	2304,16

DUCTILE IRON GGG40 BODY

PFA 10/16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	5 149G080353	6 149G080357	3,5	285,28
50	149G080354	149G080358	3,9	295,05
65	149G080355	149G079143	4,3	308,19
80	149G080356	149G080359	4,5	324,09
100	149G080297	149G080304	6,2	373,80
125	149G080298	149G079133	8,1	406,03
150	149G080299	149G079732	8,6	451,38
200	149G080300	149G079909	16,1	785,87
250	149G079078	149G080305 (1)	21,9	1203,53
300	149G080302	149G079895 (1)	33,6	1785,71
350	149G080303	149G080360	41,1	2433,63

Flange rating PN 10

400	7 149G082496	8 149G082498	71,2	2610,58
450	149G073310	149G073313	89,0	4613,47
500	149G073311	149G073314	117,0	5233,98
600	149G082497	149G082525	174,3	7612,27
700	149G082473	149G082475	251,6	11523,17
800	149G082474	149G082478	296,6	14752,82
900	149G065537	149G065545	521,0	22099,97
1000	149G065538	149G082569	579,0	24355,44

Flange rating PN 16

400	9 149G082499	10 149G082500	71,2	2610,58
450	149G093464	149G073320	89,0	4613,47
500	149G073318	149G073321	117,0	5233,98
600	149G082527	149G082529	174,3	7612,27
700	149G082480	149G082015	251,6	11523,17
800	149G082481	149G082482	296,6	14752,82
900	149G065553	149G065561	520,0	22099,97
1000	149G065554	149G082570	579,0	24355,44

Flange rating PN 6/10/16/ASA 150

DN mm	EPDM	NITRILE	Kg	€
80	11 149G080361	12 149G080362	5,3	329,37
100	149G080306	149G080310	7,7	384,66
125	149G080307	149G080311	9,3	417,33
150	149G080308	149G080312	10,4	430,73
200	149G080309	149G080313	18,9	761,16

Flange rating PN 10/16

DN mm	EPDM	NITRILE	Kg	€
32	13 149G080363	14 149G079831	3,8	306,23
40	149G080364	149G079386	3,8	306,23
50	149G080365	149G080368	4,3	330,22
65	149G080366	149G080369	4,7	351,73
80	149G080367	149G080370	5,7	372,90
100	149G080314	149G079235	7,8	428,21
125	149G080315	149G079317	10,0	488,81
150	149G079218	149G079708	8,1	512,25
200	149G080316 (1)	149G079234 (1)	22,4	1089,74
250	149G080372 (1)	149G079233 (1)	28,2	1570,90
300	149G080317 (1)	149G080318 (1)	40,1	2370,63
350	149G079375 (1)	149G080371 (1)	49,9	3333,80

Flange rating PN 16

200	15 149G080319	16 149G080323	22,1	1089,74
250	149G080320	149G080324 (2)	27,8	1750,90
300	149G080321	149G080325 (2)	39,6	2370,63
350	149G080322	149G080326	49,1	3333,80

Flange rating PN 10

400 17 149G082503 18 149G082504 90,6 3573,08

450 149G073323 149G073325 115,0 5287,01

500 149G073324 149G073326 161,0 6205,41

600 149G082483 149G082485 186,0 11483,79

Flange rating PN 16

400 19 149G082506 20 149G082508 90,6 3573,08

450 149G073329 149G073332 115,0 5287,01

500 149G073330 149G073333 162,0 6205,41

600 149G082484 149G082486 186,0 11483,79

Flange rating PN 10/16

150 21 149G080373 22 149G080374 8,6 373,86

200 149G080327 149G080332 20,7 833,17

250 149G080328 149G079490 (1) 30,0 1447,86

300 149G080329 149G080333 (1) 49,4 2082,20

350 149G080331 (1) 149G080335 (1) 63,8 2645,76

350 149G080330 (2) 149G080334 (2) 63,6 2645,76

Flange rating PN 10

400 23 149G082510 24 149G082512 95,6 3524,48

450 149G073335 149G066734 111,0 5654,08

500 149G073336 149G081720 158,0 5865,40

600 149G082553 149G082554 227,0 9443,49

700 149G082487 149G082489 318,0 13231,47

800 149G082488 149G082490 434,0 17120,01

900 149G065586 149G065594 627,0 24994,68

1000 149G065587 149G082577 745,0 27518,16

1200 149G065974 149G065402 1037,5 48590,77

Flange rating PN 16

400 25 149G082514 26 149G082515 95,6 3524,48

450 149G073340 149G073343 111,0 5654,08

500 149G073341 149G073344 155,0 5865,40

600 149G082551 149G082552 227,0 9443,49

700 149G082491 149G082493 318,0 13231,47

800 149G082492 149G082494 434,0 17120,01

900 149G065602 149G065610 622,0 24994,68

1000 149G065603 149G082578 741,0 27518,16

1200 149G065975 149G065403 1037,5 48590,77

Flange rating PN 10

150 27 149G080375 28 149G080376 8,6 373,86

200 149G080329 149G080334 20,7 833,17

250 149G080330 149G079490 (1) 30,0 1447,86

300 149G080331 (1) 149G080335 (1) 63,8 2645,76

350 149G080330 (2) 149G080334 (2) 63,6 2645,76

Flange rating PN 16

400 29 149G082516 30 149G082517 95,6 3524,48

450 149G073342 149G073345 111,0 5654,08

500 149G073343 149G073346 155,0 5865,40

600 149G082552 149G082553 227,0 9443,49

700 149G082492 149G082494 318,0 13231,47

800 149G082493 149G082495 434,0 17120,01

900 149G065603 149G065610 622,0 24994,68

1000 149G065604 149G082579 741,0 27518,16

1200 149G065976 149G065404 1037,5 48590,77

Flange rating PN 10

150 31 149G080377 32 149G080378 8,6 373,86

200 149G080332 149G080337 20,7 833,17

250 149G080333 (1) 149G080337 (1) 30,0 1447,86

300 149G080334 (1) 149G080338 (1) 63,8 2645,76

350 149G080333 (2) 149G080337 (2) 63,6 2645,76

Flange rating PN 16

400



**316
STAINLESS
STEEL**

SYLAX with manual gear box PED 97/23/CE

CARBOXYLATED NITRILE $\theta +5^\circ/110^\circ$ Powdery, abrasive fluids



**SYLAX
WAFER TYPE**

(1) PFA = PS maxi = 6 bar



**SYLAX
LUG TYPE**

(1) PFA = PS maxi = 6 bar and PN10
(2) PFA = PS maxi = 6 bar and PN16

CAST IRON GG25 BODY

Flange rating PN 6/10/16/ASA 150

DN mm	CARBOXYLATED NITRILE	Kg	€
40	149G080475	2,9	276,08
50	149G080476	3,6	281,65
65	149G080477	4,1	296,73
80	149G080474	4,3	305,69
100	149G080457	7,9	331,35
125	149G080458	9,2	390,53
150	149G080459	10,5	437,67
200	149G080460 (1)	16,6	686,96
250	149G080461 (1)	25,7	1097,18
300	149G080389 (1)	35,7	1484,79

Flange rating PN 10/16

DN mm	CARBOXYLATED NITRILE	Kg	€
50	149G080481	4,0	297,31
65	149G080482	4,6	313,18
80	149G080478	5,4	333,02
100	149G080462	9,4	363,99
125	149G080463	11,7	435,19
150	149G080464	12,3	478,49
200	149G080465 (1)	22,9	754,50
250	149G080427 (1)	32,3	1195,54
300	149G080466 (1)	42,6	1757,03

White EPDM $\theta +8^\circ/+80^\circ$

CSM $\theta +5^\circ/+90^\circ$



**SYLAX
WAFER TYPE**



**SYLAX
LUG TYPE**

(1) PFA = PS maxi = 10 bar and PN10
(2) PN16

Flange rating PN 6/10/16/ASA 150

DN mm	White EPDM	Kg	€	CSM	Kg	€	
32/40	149G080492	2,9	265,54	6	149G080497	2,3	276,10
50	149G080493	3,6	265,54	149G080498	3,6	281,37	
65	149G080494	4,1	276,71	149G080499	4,1	293,95	
80	149G080495	4,3	293,36	149G080500	4,3	303,16	
100	149G080422	9,9	332,47	149G080418	6,3	356,18	
125	149G080423	9,3	373,20	149G080419	9,2	398,90	
150	149G080424	10,4	480,41	149G080420	10,6	495,51	
200	149G080425	16,5	814,82	149G080421	16,6	860,85	
250	149G080426	25,8	1178,55	149G079514	23,4	1196,15	
300	149G079828	43,3	1828,12	149G080501	36,8	1888,71	
350	149G080496	46,6	3070,61	149G080502	42,5	3173,92	

Flange rating PN 10/16

DN mm	White EPDM	Kg	€	CSM	Kg	€	
50	149G080504	4,0	301,19	8	149G080512	4,1	316,27
65	149G080505	4,6	321,58	149G080513	4,6	338,87	
80	149G080506	5,4	332,47	149G080514	5,5	352,01	
100	149G080390	9,4	386,61	149G080399	7,9	425,97	
125	149G080391	11,8	456,97	149G080400	11,7	477,90	
150	149G080392	12,2	568,63	149G080401	12,4	580,61	
200	149G080402 (1)	22,9	1135,31	149G080387 (1)	23,0	721,53	
250	149G080403 (1)	32,5	1537,80	149G080388 (1)	30,0	1579,12	
300	149G040165 (1)	50,2	2446,17	149G040177 (1)	51,2	2505,06	
350	149G080507 (1)	54,8	3511,67	149G080509 (1)	50,8	3346,95	

Flange rating PN 10/16

EPDM $\theta -15^\circ/110^\circ$

NITRILE $\theta +5^\circ/85^\circ$

Drinking water, general and industrial services, swimming pool water

General services and industrial processes, hydrocarbons

STEEL BODY

PFA 16 bar (water) / PS (p.84)



**SYLAX
WAFER TYPE**

(1) PFA = PS maxi = 10 bar

DN mm	EPDM	NITRILE	Kg	€
32/40	149G080540	149G080541	2,5	453,42
50	149G080537	149G080542	3,2	453,42
65	149G080538	149G080543	3,6	495,27
80	149G080539	149G080544	3,9	530,13
100	149G080428	149G080434	5,6	615,60
125	149G080429	149G080435	6,8	713,25
150	149G080430	149G080436	8,0	798,71
200	149G080431	149G080437	14,9	1292,24
250	149G080432	149G080438 (1)	20,8	2052,55
300	149G080433	149G080439 (1)	31,2	2495,49

Flange rating PN 10/16



**SYLAX
WAFER TYPE**

(1) ISO PN10

STAINLESS STEEL BODY

PFA 16 bar (water) / PS (p.84)

DN mm	EPDM	NITRILE	Kg	€
32/40	149G080545	149G080549	2,9	521,41
50	149G080546	149G080550	3,7	538,85
65	149G080547	149G080551	4,1	615,60
80	149G080548	149G080552	4,5	643,49
100	149G080404	149G080410	6,5	762,10
125	149G080405	149G080411	7,9	892,89
150	149G080406	149G080412	8,5	1058,55
200	149G080407	149G080413	16,9	1646,23
250	149G080408	149G080414 (1)	23,4	2516,45
300	149G080409	149G080415 (1)	34,6	3093,67

Flange rating PN 10/16



**SYLAX
LUG TYPE**

(1) ISO PN10

and PN10

(2) ISO PN10

(3) ISO PN16

DN mm	EPDM	NITRILE	Kg	€
50	149G080553	149G080556	1,6	632,48
65	149G080554	149G080557	5,1	727,59
80	149G080555	149G080558	5,9	735,94
100	149G080416	149G43586	2,5	902,82
125	149G43567	149G43587	6,6	946,19
150	149G080417	149G43588	12,3	1076,36
200	149G43569 (3)	149G43589 (3)	9,1	2090,98
250	149G43570 (3)	149G43590 (2)	18,0	2616,66
300	149G43571 (3)	149G43591 (2)	39,5	3270,82
200	149G041715 (1)	149G040184 (1)	9,1	2090,98
250	149G041716 (1)	149G040185 (1)	37,5	2616,66
300	149G080455 (1)	149G040186 (1)	44,2	3270,82

Flange rating PN 10/16



SYLAX with manual gear box PED 97/23/CE

EPDM $\theta -10^{\circ}/+90^{\circ}$

NITRILE $\theta +5^{\circ}/+85^{\circ}$

General and industrial services

General and industrial services, untreated water



DUCTILE IRON GGG40 BODY PFA 20 bar (water) / PS (p.84)

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
50	149G080631	149G080673	3,6	267,91
65	149G080632	149G080674	4,0	283,03
80	149G080633	149G080675	4,3	284,47
100	149G080566	149G080578	6,1	316,83
125	149G080567	149G080579	9,6	339,16
150	149G080568	149G080580	10,1	411,49
200	149G080591	149G080597	16,3	618,60
250	149G079443		25,1	831,58
300	149G080592		34,4	1659,53
350	149G080599		45,0	1702,89

DUCTILE IRON GGG40 BODY PFA 25 bar (water) / PS (p.84)

Flange rating PN 25

DN mm	EPDM	Kg	€
50	5	149G079007	4,3
65		149G080637	4,0
80		149G080638	7,4
100		149G080588	7,7
125		149G080589	9,0
150		149G080590	9,9

Flange rating PN 25

DN mm	EPDM	Kg	€
50	6	149G080639	3,9
65		149G080640	5,0
80		149G079318	5,4
100		149G080573	9,1
125		149G080574	11,0
150		149G080575	12,2



EPDM $\theta -10^{\circ}/+90^{\circ}$

NITRILE $\theta +5^{\circ}/+85^{\circ}$

General and industrial services, swimming pool water
Sea water, ship yards



Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	7	149G080641	3,5	287,00
50	149G080642	149G080680	3,9	291,43
65	149G080643	149G080681	4,3	305,11
80	149G080644	149G080682	4,5	316,53
100	149G080606	149G080613	6,2	359,55
125	149G080607	149G080614	9,7	383,54
150	149G080608	149G080615	10,2	430,47
200	149G080609	149G080616	16,2	839,88
250	149G080610		25,0	1190,84
300	149G080611		34,1	1740,49
350	149G080612		45,7	1867,72

Flange rating PN 25

DN mm	EPDM	Kg	€
32/40	11	149G080650	4,2
50		149G085224	4,6
65		149G080652	4,3
80		149G080653	4,5
100		149G079904	7,8
125		149G45027	17,3
150		149G080626	10,1

Flange rating PN 25

DN mm	EPDM	Kg	€
32	9	149G080649	3,8
40	149G080645	149G080683	3,8
50	149G080646	149G080684	4,3
65	149G080647	149G080685	4,7
80	149G080648	149G080686	5,1
100	149G080617	149G080622	7,8
125	149G080618	149G080623	11,3
150	149G080619	149G080624	12,7
200	149G048492	149G080625	23,3
250	149G080620		30,8
300	149G080621		40,1

DN mm	EPDM	Kg	€
32	12	149G080654	4,5
40		149G080655	4,5
50		149G080656	4,1
65		149G080657	5,3
80		149G080658	5,7
100		149G080627	9,2
125		149G080628	11,0
150		149G080629	12,3



EPDM $\theta -10^{\circ}/+90^{\circ}$

NITRILE $\theta +5^{\circ}/+85^{\circ}$

Drinking water, general services and industrial processes
Sea water, general services and industrial processes



Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
32/40	18	149G080659	3,3	287,25
50	149G080660	149G080689	3,6	293,36
65	149G080661	149G080690	4,1	314,89
80	149G080662	149G080691	4,3	323,81
100	149G079421	149G079002	6,3	368,46
125	149G080569	149G080571	9,8	394,72
150	149G080570	149G080572	10,4	472,63
200	149G080584	149G080598	16,3	1022,23
250	149G080585		25,5	1574,94
300	149G080586		36,9	1897,35
350	149G080600		45,8	1977,53

Flange rating PN 25

DN mm	EPDM	Kg	€
32/40	17	149G080668	3,1
50		149G080669	4,1
65		149G079287	4,1
80		149G079325	4,4
100		149G080581	7,8
125		149G080582	9,2
150		149G080583	10,2

Flange rating PN 25

DN mm	EPDM	Kg	€
32	18	149G080672	3,4
40		149G079642	3,4
50		149G080670	3,9
65		149G080671	5,1
80		149G080630	5,5
100		149G079758	9,2
125		149G080576	11,1
150		149G080577	12,5

Flange rating ASA 150

DN mm	EPDM	NITRILE	Kg	€
32	18	149G080692	3,6	296,18
40	149G080665	149G080693	3,6	296,18
50	149G080666	149G080694	4,0	303,16
65	149G080663	149G080695	4,5	326,33
80	149G080667	149G080696	4,9	350,63
100	149G080601	149G080594	7,9	402,53
125	149G080602	149G080595	11,4	437,42
150	149G080603	149G080596	12,9	516,14
200	149G079876	149G080561	22,9	1215,69
250	149G080604		31,3	1899,28
300	149G080605		42,9	2001,20

SYLAX FM/CNPP for sprinkler systems with manual gear box  PED 97/23/CE

CNPP AND FM APPROVALS

COMPETITIVE QUALITY AND PRICE RATIO

RELIABILITY

PN16 design pressure butterfly valves dedicated to sprinkler systems, all valves are equipped with chain and padlocks. Limit switches inside gear box are also available.

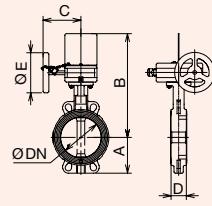
Factory Mutual approval n° 3029234 date 06/06/2006

On request : tapped lugs body, alu bronze discs.

CNPP approval n° YO/AL/12/037 date 02/12/2003

On request : tapped lugs body, alu bronze or stainless steel discs - Version PS 20 bar

SYLAX CNPP					
DN	A	B	C	D	E
32/40	57	281	118	32	125
50	62	294	118	43	125
65	70	303	118	46	125
80	89	309	118	46	125
100	106	333	118	52	125
125	120	348	118	56	125
150	132	361	118	56	125
200	164	419	205	60	200
250	200	444	205	68	200
300	238	469	205	78	200



EPDM

θ -10°/+110°

Sprinkler systems CNPP approval

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

SYLAX CNPP WAFER TYPE



Flange rating PN 6/10/16/ASA 150		WITH LIMIT SWITCHES		
	EPDM	Kg	€	
32/40	149G 064 240	3,2	289,50	
50	149G 029 208	4,5	345,81	
65	149G 029 211	4,7	352,61	
80	149G 029 214	4,8	352,61	
100	149G 028 861	7,0	388,90	
125	149G 029 219	8,2	396,77	
150	149G 028 862	9,1	432,78	
200	149G 029 224	17,5	619,80	
250	149G 029 227	21,0	817,66	
300	149G 029 230	30,3	926,88	

DUCTILE IRON GGG40 BODY

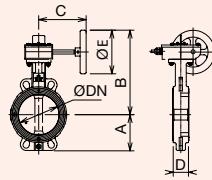
PFA 16 bar (water) / PS (p.84)

SYLAX CNPP WAFER TYPE



Flange rating PN 6/10/16/ASA 150		WITHOUT LIMIT SWITCHES		
	EPDM	Kg	€	
32/40	149G 060 946	3,2	261,59	
50	149G 029 207	4,5	308,96	
65	149G 029 210	4,7	316,01	
80	149G 029 213	4,8	316,01	
100	149G 029 216	7,0	352,31	
125	149G 029 218	8,2	359,92	
150	149G 029 221	9,1	396,22	
200	149G 029 223	17,5	548,81	
250	149G 029 226	21,0	746,64	
300	149G 029 229	30,3	843,40	

SYLAX FM					
DN	A	B	C	D	E
32/40	57	232	168	32	100
50	62	238	168	43	100
65	70	247	168	46	100
80	89	253	168	46	100
100	106	277	175	52	120
125	120	292	175	56	120
150	131	305	175	56	120
200	164	386	228	60	200
250	200	411,5	228	68	200
300	235	461,5	234	78	250



EPDM

θ -15°/+110°

Sprinkler systems FM approval

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

SYLAX FM WAVER TYPE



Flange rating PN 6/10/16/ASA 150		WITH LIMIT SWITCHES		
	EPDM	Kg	€	
50	149G 065 374	7,7	488,51	
65	149G 065 375	8,0	493,29	
80	149G 065 376	8,4	498,09	
100	149G 065 377	11,0	530,60	
125	149G 065 378	11,3	547,75	
150	149G 065 379	12,4	562,98	
200	149G 038 535	23,2	966,76	
250	149G 038 536	28,6	1131,07	
300	149G 038 537	37,3	1264,23	

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

SYLAX FM WAVER TYPE



Flange rating PN 6/10/16/ASA 150		WITHOUT LIMIT SWITCHES		
	EPDM	Kg	€	
50	149G 065 380	7,5	468,99	
65	149G 065 381	7,9	473,74	
80	149G 065 382	8,3	478,55	
100	149G 065 401	10,9	511,08	
125	149G 065 383	11,2	527,38	
150	149G 065 384	12,1	543,46	
200	149G 044 225	23,0	947,22	
250	149G 044 226	28,4	1111,54	
300	149G 044 227	37,2	1244,68	

316 STAINLESS STEEL

EPDM

θ -15°/+110°

Sprinkler systems FM approval

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

SYLAX FM WAVER TYPE



Flange rating PN 6/10/16/ASA 150		WITH LIMIT SWITCHES		
	EPDM	Kg	€	
32/40	149G 065 385	8,8	470,04	
50	149G 065 386	7,7	493,14	
65	149G 065 387	8,1	501,16	
80	149G 065 388	8,4	503,54	
100	149G 065 389	11,0	539,42	
125	149G 065 390	11,6	579,81	
150	149G 065 391	12,8	620,57	
200	149G 043 788	23,2	1110,06	
250	149G 043 789	28,9	1351,72	
300	149G 043 790	30,0	1615,18	

DUCTILE IRON GGG40 BODY

PFA 16 bar (water) / PS (p.84)

SYLAX FM WAVER TYPE



Flange rating PN 6/10/16/ASA 150		WITHOUT LIMIT SWITCHES		
DN	EPDM	Kg	€	
32/40	149G 065 392	8,8	450,50	
50	149G 065 393	7,5	473,61	
65	149G 065 394	7,9	481,61	
80	149G 065 396	8,3	483,99	
100	149G 065 398	10,9	519,89	
125	149G 065 399	11,4	560,26	
150	149G 065 400	12,5	601,03	
200	149G 044 234	23,1	1090,60	
250	149G 044 235	28,7	1332,22	
300	149G 044 236	29,9	1595,67	

SHUT OFF



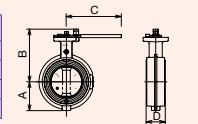
SYLAX GAS

SYLAX GAS : butterfly valves for gas applications NF ROB-GAZ / DVGW

ON REQUEST : Range SYLAX GAS PS 8 bar. Alu bronze discs. Butterfly valves under NF ROB-GAZ approval are limited on temperature from -20°C to +60°C.

PED 97/23/CE

SYLAX GAS RING SHAPED BODY				
DN	A	B	D	C
50	58	137	43	140
80	72	153	46	140
100	83	165	52	140



DUCTILE
IRON
POLYAMIDE
COATED

NITRILE

θ -20°/+60°

Gas applications

DUCTILE IRON GGG40 BODY

PFA 6 bar (water) / PS (p.84)



Flange rating PN 6/10/16/ASA 150

DN mm	NITRILE	Kg	€
50	1	149G 046 566	2,8 116,98
80		149G 038 730	2,8 131,20
100		149G 038 731	3,8 167,99

316
STAINLESS
STEEL

NITRILE

θ -20°/+60°

Gas applications

DUCTILE IRON GGG40 BODY

PFA 6 bar (water) / PS (p.84)



Flange rating PN 6/10/16/ASA 150

DN mm	NITRILE	Kg	€
50	2	149G 041 930	1,7 131,20
80		149G 041 932	3,3 145,43
100		149G 041 933	3,6 182,12

DUCTILE
IRON
POLYAMIDE
COATED

SYLAX GAS with notched yellow ductile iron handle

NITRILE

θ -20°/+60°

Gas applications

DUCTILE IRON GGG40 BODY

PS 6 bar (p.84)



Flange rating PN 6/10/16/ASA 150

DN mm	NITRILE	Kg	€
50	3	149G 038 773	3,3 108,41
65		149G 032 650	3,7 118,12
80		149G 032 652	4,7 123,25
100		149G 038 774	7,1 166,75
125		149G 032 656	7,5 208,86
150		149G 032 658	8,5 239,91
200		149G 038 775	16,6 362,65
250		149G 038 776	23,0 589,27

DUCTILE
IRON
POLYAMIDE
COATED

SYLAX GAS with manual gear box

NITRILE

θ -20°/+60°

Gas applications

DUCTILE IRON GGG40 BODY

PS 6 bar (p.84)



Flange rating PN 6/10/16/ASA 150

DN mm	NITRILE	Kg	€
50	5	149G 080 747	3,6 257,57
65		149G 080 748	4,1 268,06
80		149G 080 749	4,3 273,45
100		149G 079 267	6,3 313,30
125		149G 080 697	9,7 337,40
150		149G 080 698	10,1 371,02
200		149G 080 699	16,3 503,05
250		149G 080 700	22,7 815,91
300		149G 080 701	33,9 1014,89

SYLAX GAS
LUG TYPE

(1) PN10

(2) PN16

Flange rating PN 10/16

DN mm	NITRILE	Kg	€
50	4	149G 038 777	3,7 130,64
65		149G 032 810	5,1 141,73
80		149G 032 812	5,8 165,04
100		149G 089 469	7,7 211,71
125		149G 032 816	9,8 266,66
150		149G 032 818	11,0 290,80
200		149G 038 781 (2)	23,1 452,20
250		149G 038 782 (2)	23,6 731,75
200		149G 038 779 (1)	28,1 452,20
250		149G 038 780 (1)	28,2 731,75

316
STAINLESS
STEEL

NITRILE

θ -20°/+60°

Gas applications

DUCTILE IRON GGG40 BODY

PS 6 bar (p.84)



Flange rating PN 10/16/ASA 150

DN mm	NITRILE	Kg	€
40	7	149G 038 792	2,9 108,41
50		149G 038 793	3,3 120,40
65		149G 038 794	3,7 131,20
80		149G 038 795	4,0 138,02
100		149G 038 796	7,1 194,95
125		149G 038 797	7,7 260,11
150		149G 038 798	8,5 293,78
200		149G 038 799	16,6 515,19
250		149G 038 800	23,3 819,49

SYLAX GAS
LUG TYPE

(1) PN10

(2) PN16

Flange rating PN 10/16

DN mm	NITRILE	Kg	€
32	8	149G 038 811	3,3 113,57
40		149G 038 812	3,4 130,64
50		149G 038 813	3,7 137,73
65		149G 038 814	5,1 150,25
80		149G 038 815	5,1 172,43
100		149G 038 816	7,7 240,16
125		149G 038 817	10,1 321,70
150		149G 038 818	11,0 346,63
200		149G 038 821 (1)	23,1 602,15
250		149G 038 822 (1)	23,6 951,65
200		149G 038 819 (2)	28,4 602,15
250		149G 038 820 (2)	28,5 951,65

SYLAX GAS
LUG TYPE

(1) PN10

(2) PN16

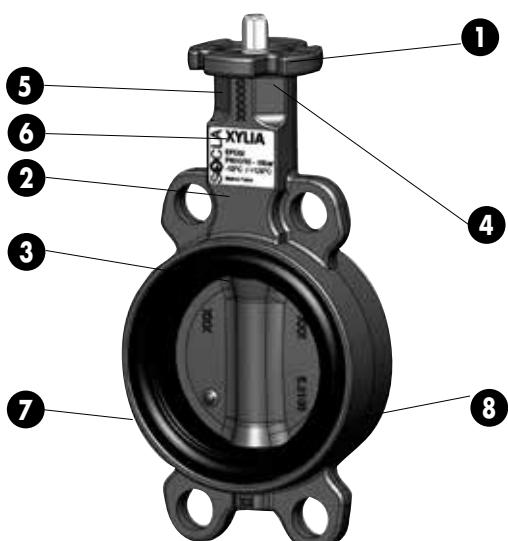
Flange rating PN 10/16

DN mm	NITRILE	Kg	€
40	9	149G 080 759	3,3 284,03
50		149G 080 760	3,6 284,03
65		149G 080 761	4,1 295,93
80		149G 080 762	4,3 300,27
100		149G 080 726	6,3 348,77
125		149G 080 727	9,7 404,92
150		149G 080 728	10,6 443,37
200		149G 080 729	16,3 720,63
250		149G 080 730	23,0 1138,52
300		149G 079 286	34,8 1439,73



XYLIA DN 40 to 300 mm

- Using temperature : -10°C to +120°C
- Eco-design
- Anti-ejection ring
- Double watertightness
- Identification label



The XYLIA butterfly valve has been designed for **HVAC** and air conditioning applications.

Available range : DN40 to 300 with notched ductile iron handle lever
DN200 to 300 with manual gear box

BODY : CAST IRON GG25

DISC : DUCTILE IRON EPOXY OR STAINLESS STEEL

LINER : EPDM

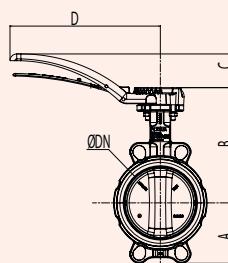
The XYLIA butterfly valve with electric actuator has been designed for cascade arrangement.

Main technical features

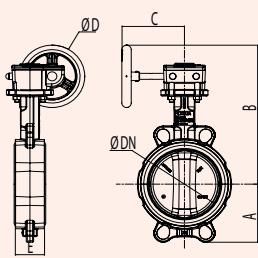
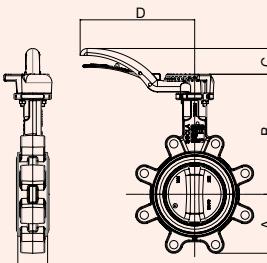
Designed in accordance with EN593

- | | |
|----------|--|
| 1 | Top connection according to ISO5211 standard. |
| 2 | Spline driven shaft connected to spherically machined disc. Floating disc allows self centering thus preventing stress on the liner during operation |
| 3 | Tongue and groove seat design allows perfect tightness. |
| 4 | Circlip preventing ejection of shaft |
| 5 | Secondary sealing |
| 6 | One piece shaft in stainless steel |
| 7 | Elastomer liner ensures full protection of shaft and body |
| 8 | Face to face dimensions according to :
ISO 5752 class 20
NFEN 558 class 20
API609 table 2 |

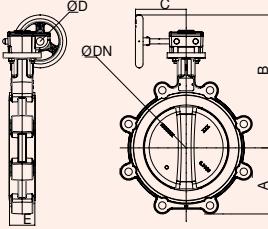
DN	A	B	C	D	E
40	57	163	45	200	32
50	60	169	45	200	43
65	83	178	45	200	46
80	90	184	45	200	46
100	106	209	45	200	52
125	117	223	65	290	56
150	131	236	65	290	56
200	165	258	65	290	60
250	200	318	86	450	68
300	235	343	86	450	78



DN	A	B	C	D	E
40	57	163	45	200	43
50	59	169	45	200	43
65	66	178	45	200	46
80	87	184	45	200	46
100	103	209	45	200	52
125	119	223	65	290	56
150	133	236	65	290	56
200	157	258	65	290	60
250	198	318	86	450	68
300	227	343	86	450	78



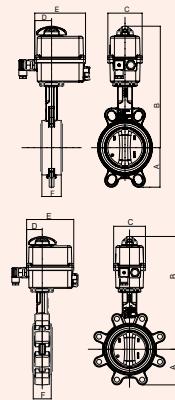
DN	A	B	C	D	E
200	165	315	120	125	60
250	200	399	197	200	68
300	235	459	239	250	78



DN	A	B	C	D	E
200	157	315	120	125	60
250	198	399	197	200	68
300	227	459	239	250	78

DN	A	B	C	D	E	F
40	57	280	92	45	136	43
50	60	286	92	45	136	43
65	83	295	92	45	136	46
80	90	301	92	45	136	46
100	106	326	92	45	136	52
125	117	367	128	95	151	56
150	131	380	128	95	151	56

DN	A	B	C	D	E	F
40	57	280	92	45	136	43
50	60	286	92	45	136	43
65	83	295	92	45	136	46
80	90	301	92	45	136	46
100	106	326	92	45	136	52
125	119	367	128	95	151	56
150	133	380	128	95	151	56





DUCTILE
IRON EPOXY
COATED

EPDM

θ -10°/+120°

HVAC and air conditioning applications



XYLIA
WAFER
TYPE

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€
50	1	149G 090 582	3,4	33,89
65		149G 090 583	4,0	36,41
80		149G 090 584	4,1	41,21
100		149G 090 585	5,1	53,00
125		149G 090 586	6,4	64,41
150		149G 090 587	7,0	73,04
200		149G 090 588	12,1	130,69
250		149G 090 589	22,6	223,85
300		149G 090 590	35,3	264,72



XYLIA
LUG TYPE
(1) PN10-PFA10

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm		EPDM	Kg	€
50	2	149G 092 704	3,8	35,79
65		149G 092 707	4,3	38,72
80		149G 092 710	5,4	44,24
100		149G 092 713	4,6	53,85
125		149G 092 716	9,0	70,78
150		149G 092 719	9,8	86,51
200		149G 092 745 (1)	15,4	139,54
250		149G 092 772 (1)	22,0	253,46
300		149G 092 791 (1)	42,2	318,50



XYLIA
WAFER
TYPE

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€
200	3	149G 090 600	12,1	179,67
250		149G 090 601	20,8	312,12
300		149G 090 602	35,3	394,07



XYLIA
LUG TYPE

CAST IRON GG25 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 10

DN mm		EPDM	Kg	€
200	4	149G 092 748	15,4	238,14
250		149G 092 776	20,1	444,84
300		149G 092 792	42,2	576,34



XYLIA
WAFER
TYPE

CAST IRON GG25 BODY

PFA 6 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€	
50	5	149G 092 675	3,1	370,50	
65		149G 092 676	149G 092 680	3,7	377,00
80		149G 092 677	149G 092 681	3,7	386,10
100		149G 092 678	149G 092 682	4,8	716,00
125		149G 092 683	149G 092 685	7,3	734,56
150		149G 092 684	149G 092 686	8,0	745,36



XYLIA
LUG TYPE

CAST IRON GG25 BODY

PFA 6 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€	
50	7	149G 092 802	149G 092 803	3,4	372,40
65		149G 092 808	149G 092 809	4,0	379,31
80		149G 092 814	149G 092 815	5,1	389,13
100		149G 092 820	149G 092 821	4,3	716,85
125		149G 092 826	149G 092 827	10,0	740,93
150		149G 092 832	149G 092 833	10,7	758,83

* ASA150 flange rating, on request.

316
STAINLESS
STEEL

EPDM

θ -10°/+120°

HVAC and air conditioning applications



XYLIA
WAFER
TYPE

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€
40	9	149G 092 410	3,1	33,89
50		149G 090 591	3,5	41,33
65		149G 090 592	4,0	50,92
80		149G 090 593	4,1	58,43
100		149G 090 594	5,3	68,13
125		149G 090 595	6,2	100,36
150		149G 090 596	6,9	131,93
200		149G 090 597	10,1	238,13
250		149G 090 598	26,0	410,11
300		149G 090 599	36,2	590,34



XYLIA
LUG TYPE
(1) PN10-PFA10

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm		EPDM	Kg	€
40	10	149G 092 722	3,8	50,95
50		149G 092 725	3,8	50,95
65		149G 092 728	4,4	60,03
80		149G 092 731	5,4	67,28
100		149G 092 734	4,8	79,18
125		149G 092 737	8,9	130,60
150		149G 092 740	9,6	158,76
200		149G 092 751 (1)	13,4	280,47
250		149G 092 781 (1)	25,3	464,18
300		149G 092 795 (1)	43,1	708,79



XYLIA
WAFER
TYPE

CAST IRON GG25 BODY

PFA 16 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm		EPDM	Kg	€	
40	11	149G 092 687	149G 092 694	2,8	370,50
50		149G 092 688	149G 092 695	3,2	381,92
65		149G 092 689	149G 092 696	3,7	391,51
80		149G 092 690	149G 092 697	3,8	403,32
100		149G 092 691	149G 092 698	5,0	731,13
125		149G 092 692	149G 092 699	7,2	770,51
150		149G 092 693	149G 092 700	7,8	804,25



XYLIA
LUG TYPE

CAST IRON GG25 BODY

PFA 6 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

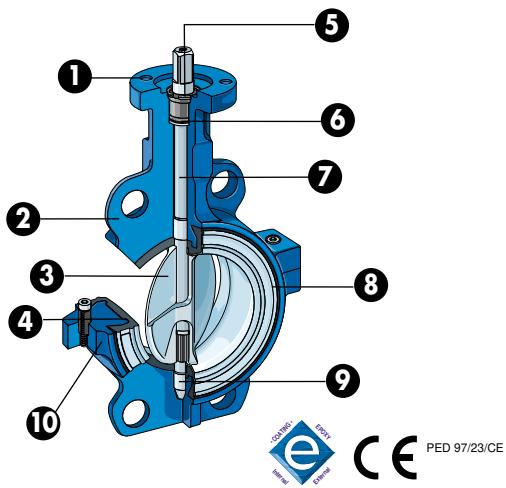
DN mm		EPDM	Kg	€	
40	12	149G 092 838	149G 092 839	3,4	391,54
50		149G 092 844	149G 092 845	3,5	391,54
65		149G 092 850	149G 092 851	4,0	400,62
80		149G 092 856	149G 092 857	5,1	412,12
100		149G 092 862	149G 092 863	4,4	742,18
125		149G 092 868	149G 092 869	9,9	800,75
150		149G 092 874	149G 092 875	10,5	831,08

* ASA150 flange rating, on request.



TILIS DN 50 to 300 mm

- Food fluids
- Carrying of mildly corrosive media
- Dismountable and easily maintained



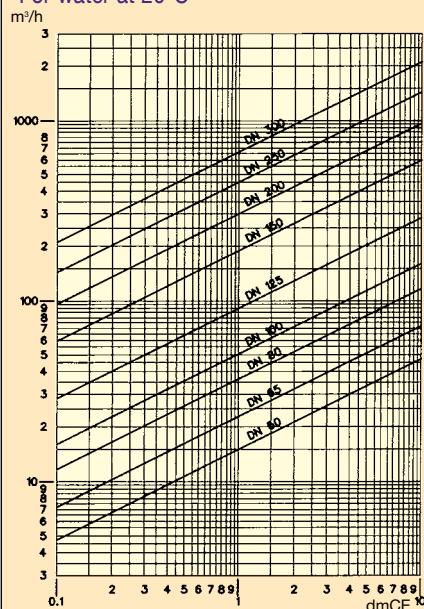
Main technical features

Designed in accordance with EN593

1	Connection flange according to ISO 5211 standard
2	Two part body for easy maintenance of the butterfly valve
3	Spline driven shaft connected to spherically machined disc. Floating disc allows self centering thus preventing stress on the liner during operation
4	Tongue and groove seat design allows perfect tightness
5	Circlip preventing blow-out of shaft
6	Secondary sealing
7	One piece shaft
8	Replaceable elastomer liner ensures full protection of shaft and body
9	Anti-friction bearings
10	Face to face dimensions according to : ISO 5752 class 20. DINEN 558 class 20. API 609 table 2

HEADLOSS CHART

For water at 20°C



TILIS is designed for the food processing industry and the carrying of mildly corrosive media.

For processes where hygiene is of the utmost importance, TILIS with PTFE coating (FDA approved) and EPR liner, together with stainless steel 316 disc is highly recommended.

TILIS is designed for industrial applications where elastomer cannot be used. The two part body can be quickly taken apart for easy maintenance.

Greatly appreciated throughout industry, TILIS valves are used for mineral water, cosmetic process, detergents, fertilisers and weed-killers.



On request : we can supply butterfly valves type

TILIS conformed to the Directive 94/9/CE (products or systems used in a explosive atmosphere : see the extra price table page 87)

TILIS - Pressure/Temperature Diagram



Torque figures in Nm (for water at 20 to 80°C)

TILIS valves with EPR/PTFE

DN mm	50	65	80	100	125	150	200	250	300
ISO PN 10	50	61	70	120	130	165	-	-	-
ISO PN 6	-	-	-	-	-	-	350	410	650

	OPTION EXTRA PRICE	50	65	80	100	125	150	200	250	300
		€								
BODY *Coating on body with manual actuation	1 Rilsan coating 120 µm	*	*	*	*	*	*	*	*	*
	2 Epoxy coating 250 µm	*	*	*	*	*	*	*	*	*
BASE Centering lugs Ductile Iron GGG40 body	3 Stainless steel body centering lugs	540,47	562,75	592,1	616,67	637,81	705,78	1174,76	1956,74	2140,83
	4 ATEX in accordance to Directive 94/9/CE	149,98	149,98	149,98	163,95	163,95	163,95	191,84	191,84	294,72
Disc	5 316L or 316L polimiroir	*	*	*	*	*	*	*	*	*

* Consult us

SHUT OFF



TILIS

316
STAINLESS
STEEL

EPR/PTFE

$\theta +5^\circ/+150^\circ$

Food fluids, drinks, pharmaceutical and cosmetic fluids



TILIS
WAFER TYPE

(1) PS maxi = 6 bar

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPR/PTFE	Kg	€
50	149G 013 015	5,8	422,08
65	149G 013 025	5,9	422,08
80	149G 059 737	6,2	483,75
100	149G 013 039	7,3	604,06
125	149G 013 047	7,6	720,77
150	149G 013 051	9,0	849,72
200	149G 038 871 (1)	12,9	1356,36



TILIS
LUG TYPE

(1) PS maxi = 6 bar
and PN16
(2) PS maxi = 6 bar
and PN10

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPR/PTFE	Kg	€
50	149G 016 787	5,6	434,06
65	149G 059 869	4,9	464,78
80	149G 059 870	7,2	522,84
100	149G 059 871	7,4	645,38
125	149G 016 789	8,4	768,49
150	149G 059 872	11,0	896,36
200	149G 038 872 (1)	20,0	1442,39
200	149G 038 873 (2)	20,0	1442,39



TILIS
WAFER TYPE

(1) PS maxi = 6 bar

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPR/PTFE	Kg	€
50	149G 080799	4,2	577,84
65	149G 080800	4,7	577,84
80	149G 080801	4,4	619,42
100	149G 080790	8,0	726,47
125	149G 080791	9,3	842,19
150	149G 080792	10,3	967,53
200	149G 080782 (1)	16,2	1731,53
250	149G 079617 (1)	14,4	2457,04
300	149G 080783 (1)	35,0	3338,57



TILIS
LUG TYPE

(1) PS maxi = 6 bar
and PN16
(2) PS maxi = 6 bar
and PN10

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPR/PTFE	Kg	€
50	149G 080802	4,0	568,63
65	149G 080803	4,5	599,06
80	149G 080804	2,1	657,70
100	149G 080793	3,7	766,80
125	149G 080794	11,5	889,93
150	149G 080795	12,6	1062,15
200	149G 088303 (1)	29,1	1821,70
250	149G 080796 (1)	30,7	2710,77
300	149G 080797 (1)	40,8	3425,10
200	149G 079858 (2)	29,5	1821,70
250	149G 080771 (2)	31,2	2710,77
300	149G 080772 (2)	41,4	3425,10

316
STAINLESS
STEEL MIRROR
POLISHED

EPR/PTFE

$\theta +5^\circ/+150^\circ$

Food fluids, drinks, pharmaceutical and cosmetic fluids



TILIS
WAFER TYPE

(1) PS maxi = 6 bar

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPR/PTFE	Kg	€
50	149G 016 842	5,9	511,67
65	149G 016 843	6,1	522,84
80	149G 012 688	6,5	609,96
100	149G 016 844	7,9	771,28
125	149G 016 845	8,7	931,24
150	149G 016 846	10,3	1084,22
200	149G 038 874 (1)	16,7	1748,85



TILIS
LUG TYPE

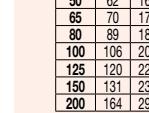
(1) PS maxi = 6 bar
and PN16
(2) PS maxi = 6 bar
and PN10

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPR/PTFE	Kg	€
50	149G 016 740	4,7	515,88
65	149G 016 741	4,9	554,67
80	149G 016 742	7,5	649,57
100	149G 016 743	7,4	744,47
125	149G 059 106	8,4	1073,03
150	149G 059 107	11,0	1143,11
200	149G 038 875 (1)	20,0	1835,09
200	149G 038 876 (2)	20,0	1835,09



TILIS
WAFER TYPE

(1) PS maxi = 6 bar

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 6/10/16/ASA 150

DN mm	EPR/PTFE	Kg	€
50	149G 080806	4,0	646,23
65	149G 080807	4,5	657,70
80	149G 080808	4,1	744,47
100	149G 080784	7,3	892,45
125	149G 080785	8,4	1052,66
150	149G 080786	9,0	1190,56
200	149G 080787 (1)	12,9	2190,08
250	149G 080788 (1)	8,8	2827,77
300	149G 080789 (1)	25,7	3821,48



TILIS
LUG TYPE

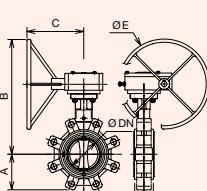
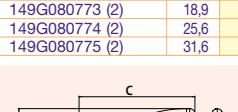
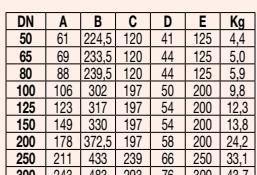
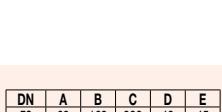
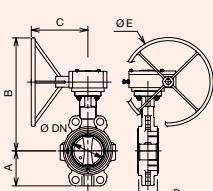
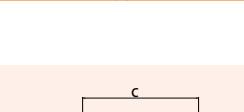
(1) PS maxi = 6 bar
and PN16
(2) PS maxi = 6 bar
and PN10

DUCTILE IRON GGG40 BODY

PFA 10 bar (water) / PS (p.84)

Flange rating PN 10/16

DN mm	EPR/PTFE	Kg	€
50	149G 080809	3,8	650,41
65	149G 080810	4,2	689,51
80	149G 080811	5,1	783,85
100	149G 080776	8,7	889,09
125	149G 080777	10,6	1100,40
150	149G 080778	11,3	1235,78
200	149G 080779 (1)	18,5	2234,02
250	149G 080780 (1)	25,1	3081,77
300	149G 080781 (1)	32,1	4117,38
200	149G 080773 (2)	18,9	2234,02
250	149G 080774 (2)	25,6	3081,77
300	149G 080775 (2)	31,6	4117,38

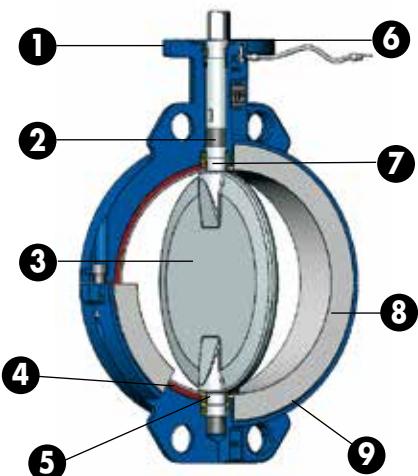


SHUT OFF



LYCENE DN 32/40 to 300 mm

- Suitable for highly corrosive media and pure water
- High level of working safety - long term efficiency
- High level of technology



PED 97/23/CE
ATEX 94/9/CE

Main technical features

Conception according to EN 593

1	ISO top connection according to EN ISO 5211
2	Anti-friction bearing
3	One piece blow out proof shaft and PFA coated disc (2,5 mm thick)
4	Liner back-up is enclosed in the body
5	PFA moulding up the stem ensuring zero leakage
6	Upper sealing
7	Tightness at shaft location with bearing and spring
8	PTFE liner (3 mm thick)
9	Face to face dimensions according to : ISO 5720 class 20. EN 558 class 20. API 609 table 2.

REGULATION

DIRECTIVE 94/9/CE : (ATEX : ATmosphere EXplosive)

The standard butterfly valves type LYCENE comply with (are conformed to) the Directive concerning equipment and protective systems intended for use in potentially EXplosive Atmospheres 94/9/CE. For some applications, the valves (don't comply with) (are not conformed to) the Directive and therefore, they won't be supplied with a Declaration of Conformity CE.

This directive is only applicable for the following atmospheric conditions : $-20^{\circ}\text{C} < T < +60^{\circ}\text{C}$; $0,8 \text{ bar} \leq P \leq 1,2 \text{ bar}$.

In this risk analysis, the fluid which passes through the valve is not taken into account. It is under the responsibility of the user to take into consideration the risks generated by the fluid like :

Heating of the surface of the valve, internal chocks generated by granulates, wave of chocks due to the installation (water hammering). Or the risks due to foreign bodies which are inside the installation.

Classification of the bare shaft valve :

The marking of the bare shaft valve is : Ex II 2 DG

Classification of the set valve + actuation :

- Valve with a hand lever :

The use of the hand levers produced by Socla within a ATEX area do not represent additional risks. The valve with a hand lever is in conformity with (conformed to) the marking : Ex II 2 DG .

- Valve with other actuations :

The classification of the valve + actuation supplied by Socla is similar to the lowest classification of the components which compose the assemblyset.

No additional marking will be used to indicate the classification of the assemblyset.

If only one component of the assemblyset is not marked with ATEX label therefore the complete assemblyset is not conformed to ATEX directive.

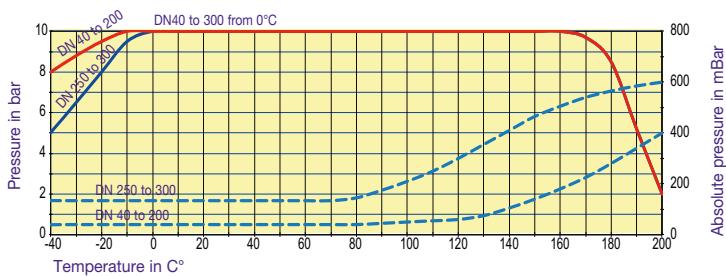
LYCENE Butterfly valves are specifically designed for chemical media, food processing industries and pure water.

This valve offers a very high level of reliability due to its resistance to corrosion.

A very high level of working safety for difficult media thanks to PFA and PTFE plastomer liner.

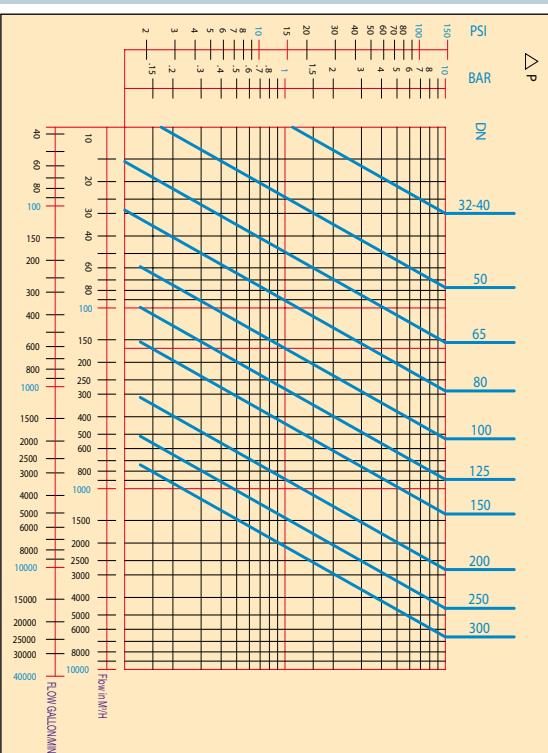
In addition to the standard models, we can offer customisations for particularly difficult media.

LYCENE - Pressure/Temperature Diagram



Torques for dry fluids in Nm

DN mm	32/40	50	65	80	100	125	150	200	250	300
PFA coated DISC	35	35	39	61	74	120	180	350	560	750
Stainless steel DISC	36	36	52	61	70	90	183	310	410	560





LYCENE with notched ductile iron handlever WITH NOTCHED DUCTILE IRON HANDLEVER 10 POSITIONS PADLOCKABLE



**316 L
STAINLESS
STEEL**

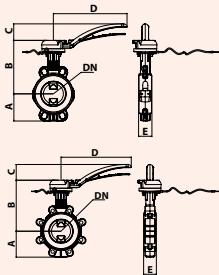
Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

LYCENE PCF						Kg	
DN	A	B	C	D	E	Wafer	Lug
32/40	73	163	45	200	32,5	3,9	3,9
50	69	172	45	200	43,5	3,4	4,2
65	73	178	45	200	46,5	4,5	5,5
80	89	183	45	200	46,5	5	6,5
100	106	210	65	290	52,5	7	9
125	120	222	65	290	56,5	8,8	11,1
150	132	249	86	450	56,5	15	18,1
200	164	292	86	450	60,5	20,3	25,5
250	200	318	86	450	68	29,4	37



**316L
STAINLESS
STEEL PFA
COATED**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16/ASA 150

DN mm		Silicone/PTFE	Kg	€
32	1	149G 058 826	3,9	708,01
40		149G 035 093	3,4	708,01
50		149G 010 607	4,6	708,01
65		149G 010 608	5,2	781,07
80		149G 010 609	7,1	830,15
100		149G 056 603	8,8	967,31
125		149G 056 685	15,0	1139,31
150		149G 056 686	20,4	1388,53
200		149G 056 687	29,5	1986,30
250		149G 010 614	39,3	2399,58

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	2	149G 058 828	3,9	919,87
40		149G 035 098	4,2	919,87
50		149G 016 672	5,7	919,87
65		149G 016 673	6,5	970,76
80		149G 016 674	9,0	1027,19
100		149G 056 691	11,2	1145,49
125		149G 056 692	18,2	1342,31
150		149G 056 693	25,6	1532,01
200		149G 016 678(1) 149G 038 916(2)	37,0	2038,60
250		149G 016 679(1) 149G 038 917(2)	49,6	2540,83

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	3	149G 058 827	3,4	719,75
40		149G 056 266	4,6	719,75
50		149G 014 525	5,2	719,75
65		149G 014 526	7,1	791,67
80		149G 014 527	8,8	845,53
100		149G 056 028	15,0	1018,57
125		149G 056 596	20,4	1197,88
150		149G 056 605	29,5	1454,48
200		149G 060 195	39,3	2427,49

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	4	149G 058 829	4,2	931,58
40		149G 035 100	5,7	931,58
50		149G 016 681	6,5	931,58
65		149G 016 682	9,0	983,23
80		149G 016 683	11,2	1043,62
100		149G 056 688	18,2	1196,42
125		149G 056 689	25,6	1419,91
150		149G 056 690	37,0	1597,80
200		149G 016 687(1) 149G 038 919(2)	49,6	2479,79

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	5	149G 080825	4,2	879,86
40		149G 080819	4,2	879,86
50		149G 080820	3,8	879,86
65		149G 080821	5,2	949,22
80		149G 080822	4,3	1001,96
100		149G 080823	7,6	1126,21
125		149G 080824	8,8	1298,21
150		149G 080813	12,3	1555,36
200		149G 080814	18,1	2131,02
250		149G 080815	26,9	2621,06
300		149G 079679	39,9	3329,08

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	6	149G 080837	4,3	1091,70
40		149G 080826	4,3	1091,70
50		149G 080827	4,6	1091,70
65		149G 080828	5,1	1142,59
80		149G 080829	5,5	1198,99
100		149G 080830	9,1	1304,09
125		149G 080831	11,2	1501,25
150		149G 080832	14,6	1698,81
200		149G 080833(1) 149G 080835(2)	24,1	2181,61
250		149G 080812(1) 149G 080816(2)	33,2	2668,11
300		149G 080834(1) 149G 080836(2)	46,9	3412,78

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

Flange rating PN 10/16

DN mm		Silicone/PTFE	Kg	€
32	7	149G 080838	4,4	891,59
40		149G 080839	4,4	891,59
50		149G 080840	4,0	891,59
65		149G 079165	5,5	963,52
80		149G 080841	4,6	1017,34
100		149G 080842	7,8	1176,90
125		149G 080843	9,0	1356,81
150		149G 079469	11,3	1621,28
200		149G 079834	18,4	2575,71
250		149G 080818	29,7	3412,78
300		149G 080844	39,8	4617,81

**316 L
STAINLESS
STEEL**

Silicone/PTFE Θ -40°/+200°

Corrosive fluids, food processing industries and pure water

DUCTILE IRON GGG40 BODY

PFA 10 bar (water)/PS (p.84)

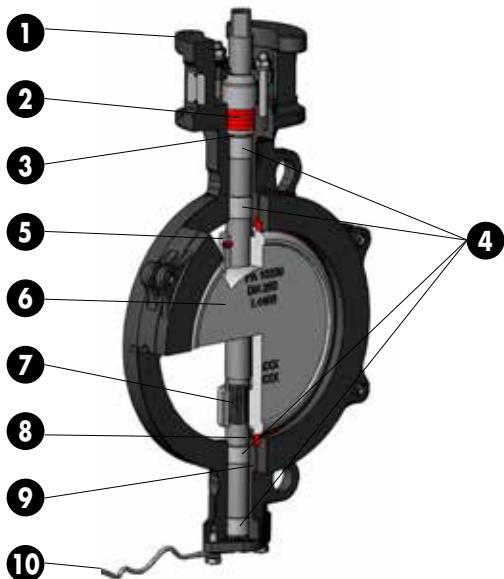
**316 L
STAINLESS
STEEL</b**



EMARIS DN 50 to 300 mm

- Performances, strength, reliability
- Numerous application from vacuum to 50 bar, from -50°C up to +220°C
- Pressure differential 10 bar maximum
- Easy adjustments and maintenance friendly

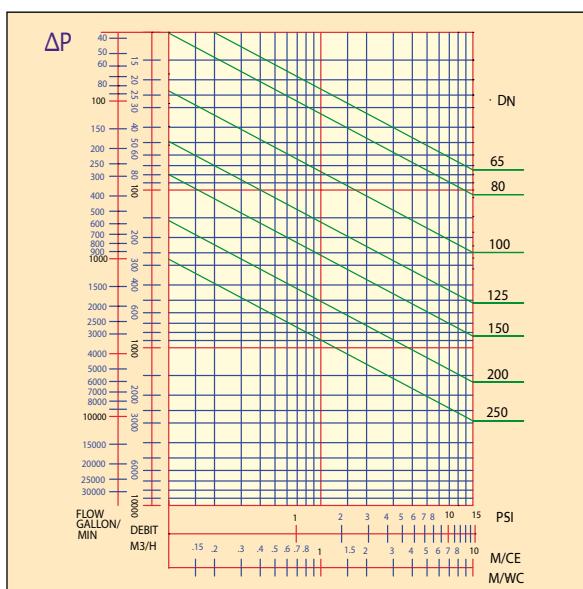
CE PED 97/23/CE
ATEX 94/9/CE



The Emaris valve has been designed for industrial processes, chemicals, refrigeration, off-shore, district heating and steam applications. It offers a rugged reliability and easy maintenance.

Robust and very reliable thanks to its double excentration construction and its stainless steel loaded PTFE seal, this valve offers a high quality service with pressure up to 50 bar ; fluid controls with temperatures from -50°C up to +220°C.

We offer a full range of valve with stainless steel body and disc manually, pneumatically, electrically or hydraulic operated



REGULATION

DIRECTIVE 94/9/CE : (ATEX : ATmosphere EXplosive)

The standard butterfly valves type EMARIS comply with (are conformed to) the Directive concerning equipment and protective systems intended for use in potentially EXplosive Atmospheres 94/9/CE. For some applications, the valves (don't comply with) (are not conformed to) the Directive and therefore, they won't be supplied with a Declaration of Conformity CE.

This directive is only applicable for the following atmospheric conditions : $-20^{\circ}\text{C} < T < +60^{\circ}\text{C}$; $0,8 \text{ bar} \leq P \leq 1,2 \text{ bar}$.

In this risk analysis, the fluid which passes through the valve is not taken into account. It is under the responsibility of the user to take into consideration the risks generated by the fluid like : heating of the surface of the valve, internal chocks generated by granulates, wave of chocks due to the installation (water hammering). Or the risks due to foreign bodies which are inside the installation.

Classification of the bare shaft valve :

The marking of the bare shaft valve is : Ex II 2 DG

Classification of the set valve + actuation :

- Valve with a hand lever :

The use of the hand levers produced by Socla within a ATEX area do not represent additional risks. The valve with a hand lever is in conformity with (conformed to) the marking : Ex II 2 DG.

- Valve with other actuations :

The classification of the valve + actuation supplied by Socla is similar to the lowest classification of the components which compose/composed the assemblyset.

No additional marking will be used to indicate the classification of the assemblyset.

If only one component of the assemblyset is not marked with ATEX label therefore the complete assemblyset is not conformed to ATEX directive.

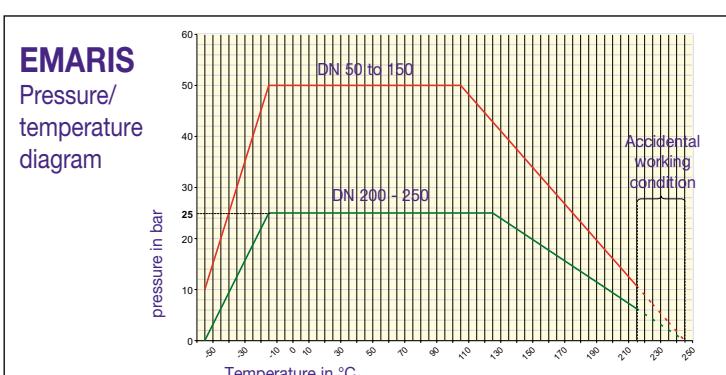
Main technical features

Conception according to EN 593

1	Iso top according to EN ISO 5211
2	Excellent secondary tightness due to adjustment of the packing gland without removing the actuator
3	Stop washer
4	Anti friction bearings : Stainless Steel PTFE coated
5	Disc centering pins
6	Disc : double excentrated SS 316 disc - GX5CrNiMo 19-11-2 reliabilty - low torque
7	Grooved connection between the shaft and the disc
8	Seal : PTFE, 50% stainless steel loaded
9	Face to face dimensions according to ISO 5752 serie 20 - EN 558 serie 20 - API 609 table 2
10	Electro-static braids Secondary sealing : O'ring

EMARIS

Pressure/
temperature
diagram





316
STAINLESS
STEEL



PTFE / S. Steel θ -50°/+220° ► District heating, steam applications, industrial refrigeration, industries

		PFA 25 bar (water)	PFA 50 bar (water)	€
DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300		
50	149G077998	--	1841,56	
65	149G064933	149G064934	1841,56	
80	149G064935	149G064936	1850,26	
100	149G064937	149G061411	2069,99	
125	149G061420	149G064940	2758,81	
150	149G064939	--	3001,54	



		PFA 10 bar (water)	PFA 16 bar (water)	€
DN mm	PN10	PN16		
50	149G078002	149G078003	2232,17	
65	149G064977	149G064978	2232,17	
80	149G064983	149G064984	2362,97	
100	149G064989	149G064990	2983,79	
125	149G061413	149G061414	3561,01	
150	149G061425	149G061426	3998,72	

		PFA 25 bar (water)	PFA 50 bar (water)	€
DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300		
50	149G078084	--	2396,37	
65	149G065006	149G065008	2396,37	
80	149G061439	149G060463	2404,71	
100	149G061444	149G061446	2625,00	
125	149G061450	149G061452	3385,96	
150	149G061456	149G061458	3394,29	
200	149G073026	--	6073,04	
250	149G073029	--	7154,12	
300	Consult us	--	-	

		PFA 10 bar (water)	PFA 16 bar (water)	€
DN mm	PN10	PN16		
50	149G078091	149G078092	2783,54	
65	149G064997	149G064998	2783,54	
80	149G061466	149G061467	2920,38	
100	149G061472	149G061473	3539,49	
125	149G061478	149G061479	4101,87	
150	149G061484	149G061485	4605,86	
200	149G073032	149G073033	7132,93	
250	149G073046	149G073047	8743,93	
300	Consult us	Consult us	-	

		PFA 25 bar (water)	PFA 50 bar (water)	€
DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300		
50	149G082657	--	1965,37	
65	149G082659	149G082660	1965,37	
80	149G082669	149G082693	1974,09	
100	149G082674	149G082675	2193,82	
125	149G082692	149G082679	2973,33	
150	149G082696	149G082697	2982,05	
200	149G082684	--	5351,13	
250	149G082688	--	6669,85	
300	Consult us	--	-	

		PFA 10 bar (water)	PFA 16 bar (water)	€
DN mm	PN10	PN16		
50	149G082701	149G082702	2352,52	
65	149G082736	149G082737	2352,52	
80	149G082742	149G082743	2488,51	
100	149G082748	149G082749	3107,61	
125	149G082754	149G082755	3690,07	
150	149G082759	149G082760	4272,50	
200	149G082708	149G082709	6266,27	
250	149G082712	149G082713	8259,65	
300	Consult us	Consult us	-	

		Spare part kit	€
DN mm			
50	25	149G082840	480,61
65		149G060115	480,61
80		145G060116	520,67
100		149G060117	540,69
125		145G060118	610,81
150		149G060122	720,91
200		149G073027	887,09
250		149G073028	1020,13
300		Consult us	-

SPARE
PARTS KIT



PTFE / S. Steel θ -50°/+220° ► District heating, steam applications, industrial refrigeration, industries

		PFA 25 bar (water)	PFA 50 bar (water)	€
DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300		
50	149G078084	--	2396,37	
65	149G065006	149G065008	2396,37	
80	149G061439	149G060463	2404,71	
100	149G061444	149G061446	2625,00	
125	149G061450	149G061452	3385,96	
150	149G061456	149G061458	3394,29	
200	149G073026	--	6073,04	
250	149G073029	--	7154,12	
300	Consult us	--	-	

		PFA 10 bar (water)	PFA 16 bar (water)	€
DN mm	PN10	PN16		
50	149G078091	149G078092	2783,54	
65	149G064997	149G064998	2783,54	
80	149G061466	149G061467	2920,38	
100	149G061472	149G061473	3539,49	
125	149G061478	149G061479	4101,87	
150	149G061484	149G061485	4605,86	
200	149G073032	149G073033	7132,93	
250	149G073046	149G073047	8743,93	
300	Consult us	Consult us	-	

		PFA 25 bar (water)	PFA 50 bar (water)	€
DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300		
50	149G082657	--	1965,37	
65	149G082659	149G082660	1965,37	
80	149G082669	149G082693	1974,09	
100	149G082674	149G082675	2193,82	
125	149G082692	149G082679	2973,33	
150	149G082696	149G082697	2982,05	
200	149G082684	--	5351,13	
250	149G082688	--	6669,85	
300	Consult us	--	-	

		PFA 10 bar (water)	PFA 16 bar (water)	€
DN mm	PN10	PN16		
50	149G082701	149G082702	2352,52	
65	149G082736	149G082737	2352,52	
80	149G082742	149G082743	2488,51	
100	149G082748	149G082749	3107,61	
125	149G082754	149G082755	3690,07	
150	149G082759	149G082760	4272,50	
200	149G082708	149G082709	6266,27	
250	149G082712	149G082713	8259,65	
300	Consult us	Consult us	-	

		Spare part kit	€
DN mm			
50	25	149G082840	480,61
65		149G060115	480,61
80		145G060116	520,67
100		149G060117	540,69
125		145G060118	610,81
150		149G060122	720,91
200		149G073027	887,09
250		149G073028	1020,13
300		Consult us	-



		PFA 20 bar (water)	PFA 25 bar (water)	€
DN mm	ASA 15			

PED 97/23/CE
ATEX 94/9/CE316
STAINLESS
STEELEMARIS with body in WCC steel cataphoresis coating and notched stainless steel handlever
10 POSITIONS PADLOCKABLE

PTFE / S. Steel

θ -50°/+220°

District heating, steam applications, industrial refrigeration, industries

EMARIS
WAFER TYPE

PFA 25 bar (water) PFA 50 bar (water)

DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300	€
65	149G064924	149G064925	1657,38
80	149G064926	149G064927	1665,23
100	149G064928	149G064929	1862,98
125	149G064930	149G064931	2482,94
150	149G064932	--	2701,38

EMARIS
LUG TYPE

PFA 20 bar (water) PFA 25 bar (water)

DN mm	ASA 150	PN25	€
65	149G064955	149G064944	2008,94
80	149G064958	149G064946	2126,66
100	149G064963	149G064948	2685,40
125	149G064967	149G064950	3204,91
150	149G064971	149G064952	3538,13

EMARIS
LUG TYPE

PFA 10 bar (water) PFA 16 bar (water)

DN mm	PN10	PN16	€
65	149G064953	149G064954	2008,94
80	149G064957	149G064960	2126,66
100	149G064961	149G064962	2685,40
125	149G064965	149G064966	3204,91
150	149G064969	149G064970	3538,13

EMARIS
LUG TYPE

PFA 40 bar (water) PFA 50 bar (water)

DN mm	PN40	ASA 300	€
65	149G064956	149G064945	2008,94
80	149G064959	149G064947	2126,66
100	149G064964	149G064949	2685,40
125	149G064968	149G064951	3204,91

EMARIS with body in WCC steel cataphoresis coating and manual gear box in stainless steel
LONGLIFE LUBRIFICATED - ACTUATED WITH GEARCE PED 97/23/CE
ATEX 94/9/CE

PTFE / S. Steel

θ -50°/+220°

District heating, steam applications, industrial refrigeration, industries

EMARIS
WAFER TYPE

PFA 25 bar (water) PFA 50 bar (water)

DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300	€
65	149G065019	149G065021	2156,75
80	149G065025	149G065027	2164,26
100	149G065031	149G065033	2362,50
125	149G065037	149G065039	3047,37
150	149G065043	149G065045	3054,88
200	149G073030	--	4600,66
250	149G073031	--	5509,29
300	Consult us	--	-

EMARIS
LUG TYPE

PFA 20 bar (water) PFA 25 bar (water)

DN mm	ASA 150	PN25	€
65	149G065049	149G065050	2505,18
80	149G065055	149G065056	2628,34
100	149G065062	149G065063	3185,55
125	149G065068	149G065069	3691,67
150	149G065074	149G065075	4145,27
200	149G073084	149G073085	5256,56
250	149G073088	149G073089	6487,64
300	Consult us	Consult us	-

EMARIS
LUG TYPE

PFA 10 bar (water) PFA 16 bar (water)

DN mm	PN10	PN16	€
65	149G065047	149G065048	2505,18
80	149G065053	149G065054	2628,34
100	149G065060	149G065061	3185,55
125	149G065066	149G065067	3691,67
150	149G065072	149G065073	4145,27
200	149G073082	149G073083	5256,56
250	149G073086	149G073087	6487,64
300	Consult us	Consult us	-

EMARIS
LUG TYPE

PFA 40 bar (water) PFA 50 bar (water)

DN mm	PN40	ASA 300	€
65	149G065051	149G065052	2505,18
80	149G065057	149G065058	2628,34
100	149G065064	149G065065	3185,55
125	149G065070	149G065071	3691,67
150	149G065076	149G065077	4145,27

EMARIS
LUG TYPE

PFA 25 bar (water) PFA 50 bar (water)

DN mm	PN10-16-25-ASA150	PN10-16-25-40-ASA150-300	€
65	149G082717	149G082793	1768,83
80	149G082797	149G082799	1776,66
100	149G082001	149G082624	1974,42
125	149G082084	149G082723	2676,01
150	149G082085	149G082501	2683,82
200	149G082731	--	3532,22
250	149G082735	--	5048,23
300	Consult us	--	-

EMARIS
LUG TYPE

PFA 20 bar (water) PFA 25 bar (water)

DN mm	ASA 150	PN25	€
65	149G082803	149G082804	2117,25
80	149G082809	149G082810	2239,67
100	149G082815	149G082816	2796,83
125	149G082822	149G082823	3321,06
150	149G082828	149G082829	3845,25
200	149G082773	149G082779	4184,45
250	149G082777	149G082778	6026,58
300	Consult us	Consult us	-

EMARIS
LUG TYPE

PFA 10 bar (water) PFA 16 bar (water)

DN mm	PN10	PN16	€
65	149G082801	149G082802	2117,25
80	149G082807	149G082808	2239,67
100	149G082813	149G082814	2796,83
125	149G082820	149G082821	3321,06
150	149G082826	149G082827	3845,25
200	149G082771	149G082772	4184,45
250	149G082775	149G082776	6026,58
300	Consult us	Consult us	-

EMARIS
LUG TYPE

PFA 40 bar (water) PFA 50 bar (water)

DN mm	PN40	ASA 300	€
65	149G082805	149G082806	2117,25
80	149G082811	149G082812	2239,67
100	149G082817	149G082819	2796,83
125	149G082824	149G082832	3321,06
150	149G082830	149G082831	3845,25



Actuations and options

The pneumatic and electric ranges are on an additional price-list :
please contact us



Pages



		Pages
	Handlevers and accessories	115-116
	Gear boxes and accessories	117
	SOCLA electric actuators	118-119
	Electric actuators : L.BERNARD, AUMA, ROTORK, BELIMO	120
	SOCLA pneumatic actuators	122-123
	Pneumatic actuators	124
	Technical features	125 to 127
	Spare parts	128



SHUT OFF

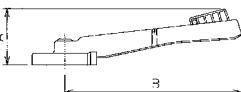


Manual actuations and accessories

1 PCX

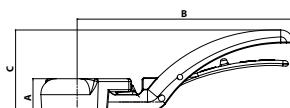


5 notched padlockable handlever made out of polyamide, an insulating and corrosion-proof material



DN	A	B	Ref.	Kg	€
25 to 100	82	200	149H 022 947	0,2	19,19
125 to 150	85	275	149H 023 440	0,2	21,29

2 Short PCF



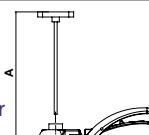
10 notched padlockable handlever in cast iron

DN	A	B	C	Ref.	Kg	€
25 to 80	33	165	60	149H 017 224	0,6	19,19
100	33	200	60	149H 001 294	0,6	19,19
125 to 150	33	200	78	149H 028 323	0,7	21,29

3 Thermometer

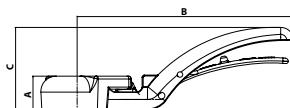


Caution : only to be used as spare part for a thermometer handle valve



DN	A	Ref.	Kg	€
32 to 100	59	149G CM1866	0,9	50,13
125 to 150	59	149G CM1867	1,4	50,13
200	69	149H 028 507	3,3	50,13

4 Yellow PCF



Double notched padlockable ductile iron GGG40 handlever for gas applications

DN	A	B	C	Ref.	Kg	€
25 to 100	33	200	78	149H 001 468	0,8	19,19
125 to 150	33	290	98	149H 001 469	1,3	21,29
200	42	450	128	149H 001 470	2,9	66,81
250	42	450	128	149H 001 471	2,8	66,81
300	42	450	128	149H 001 472	3,4	69,67

5 Stainless steel short handlever for gas applications



Ref.	Kg	€
149H 035 727	0,2	29,29

TEL. +33 3 85 97 42 42

6 Adjustable ductile iron handlever



DN	Ref.	Kg	€
25 to 100	149G CM1 864	0,9	52,18
125 to 150	149G CM1 863	1,4	59,95
200	149H 001497	3,0	241,89
250	149H 001498	2,9	241,89
300	149H 001499	3,5	241,89

7 Stainless steel (304) handlever



10 notched padlockable handlever in stainless steel

DN	A	B	Ref.	Kg	€
25 to 100	70	200	149G CM1 593	1,0	154,86
125 to 150	85	300	149G CM1 536	2,1	365,33
200	80	450	149G CM1 602	2,6	411,39
250	80	450	149G CM1 603	2,6	441,39
300	80	450	149G CM1 604	2,9	740,22

8 Adjustable stainless steel handlever



DN	Ref.	Kg	€
25 to 100	149G CM1914	0,9	268,82
125 to 150	149G CM1915	0,9	427,76
200	149G CM1916	1,2	441,84
250	149G CM1918	1,2	852,38
300	149G CM1919	1,3	1098,64

9 Operating cap



DN	Ref.	Kg	€
25 to 100	149G CM1 461	0,8	28,06
125 to 150	149G CM1 462	0,8	36,23
200	149G CM1 463	0,9	45,84

10 Padlock for handlever in cast iron and stainless steel

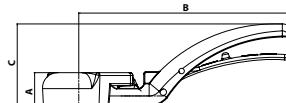


Ref.	Kg	€
149F 041 655	0,08	23,94



Manual actuations and accessories

1 PCF



Cast iron notched handle : sturdy, reliable, 10 adjustment positions, padlocked for security, wide range of fittings.

DN	A	B	C	Ref.	Kg	€
25 to 100	33	200	78	149H 001 294	0,8	19,19
125 to 150	33	290	98	149H 001 454	1,2	21,29
200	42	450	128	149H 001 455	2,9	66,81
250	42	450	128	149H 001 302	2,8	66,81
300	42	450	128	149H 001 457	3,4	69,67

2 Notched handlever with 1 mechanical limit switch



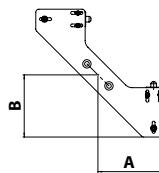
On/off position

DN	Ref.	Kg	€
25 to 100	149G CM1 721	1,1	172,97
125 to 150	149G CM1 726	1,6	175,09
200	149G CM1 728	3,4	238,99
250	149G CM1 729	3,3	238,99
300	149G CM1 730	3,9	241,80

3 Plate with 1 mechanical limit switch for PCF handlever



IP66 limit switch set



DN	A	B	Ref.	Kg	€
25 to 100	105	100	149G 3E	0,3	153,82
125 to 150	106	100	149G 3G	0,3	153,82
200	138	103	149G 3H	0,4	172,12
250	138	103	149G 3H	0,4	172,12
300	138	103	149G 3I	0,5	172,12

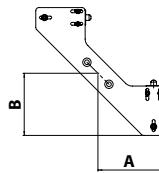
4 Notched handlever with 2 mechanical limit switches



Signalisation to 0° and 90°

DN	Ref.	Kg	€
25 to 100	149G CM1 742	1,2	226,09
125 to 150	149G CM1 746	1,7	246,52
200	149G CM1 748	3,5	292,08
250	149G CM1 749	3,4	292,08
300	149G CM1 750	4	295,71

5 Plate with 2 mechanical limit switches for PCF handlever



DN	A	B	Ref.	Kg	€
25 to 100	105	100	149G 3J	0,4	206,91
125 to 150	106	100	149G 3K	0,4	225,22
200	138	103	149G 3L	0,5	225,22
250	138	103	149G 3L	0,5	225,22
300	138	103	149G 3M	0,6	225,22

6 Notched handlever with IP67 switchbox

with 2 mechanical limit switches.
On/off position

DN	Switchmaster SM-M2 Ref.	Kg	€	Switchcontrol SC-M2 Ref.	Kg	€
25 to 100	149G CM1 812	1,8	264,18	149G CM1 782	1,8	324,20
125 to 150	149G CM1 816	2,3	266,29	149G CM1 786	2,3	326,30
200	149G CM1 818	4,6	311,79	149G CM1 788	4,6	371,81
250	149G CM1 819	4,6	311,79	149G CM1 789	4,6	371,81
300	149G CM1 820	5,5	314,67	149G CM1 790	5,5	374,67

7 IP66 mechanical limit switch

IP66 mechanical limit switch



Type	Ref.	Kg	€
IP 66 switch limit - Plunger	149H 003 115	0,1	54,27
IP 66 switch limit - Roller plunger	149H 003 119	0,1	59,22

8 Notched handlever with IP67 switchbox

With 2 inductive limit switches.
On/off position

DN	Switchmaster SM-D2 Ref.	Kg	€	Switchcontrol SC-D2 Ref.	Kg	€
25 to 100	149G CM1 882	1,8	409,64	149G CM1 792	1,8	468,02
125 to 150	149G CM1 883	2,3	411,74	149G CM1 796	2,3	470,69
200	149G CM1 884	4,6	457,26	149G CM1 798	4,6	516,21
250	149G CM1 885	4,6	457,26	149G CM1 799	4,6	516,21
300	149G CM1 886	5,5	460,12	149G CM1 800	5,5	519,07

9 Switchbox

IP67 switchbox with 2 limit switches.



TYPE	Switchmaster Ref.	Kg	€	Switchcontrol Ref.	Kg	€
IP67 mechanical	149G YE	0,4	81,51	149G YF	0,8	137,96
IP67 inductive	149G Y9	0,4	218,97	149G YG	0,8	275,89
IP67 ATEX	149G ZJ	0,4	475,31	149G YH	0,8	369,24

10 Notched cast iron handlever



with 2 inductive limit switches.
On/off position

DN	Ref.	Kg	€
25 to 100	149G CM1 822	1,3	565,70
125 to 150	149G CM1 826	1,7	590,60
200	149G CM1 828	3,4	696,43
250	149G CM1 829	3,3	696,43
300	149G CM1 830	4	736,24

11 Connection for inductive limit switch

(suitable for PCF handlever - manual gear box DA and SA actuators)

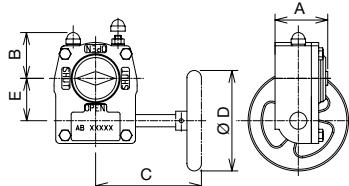


Male connection for inductive limit switch	Ref.	Kg	€
To be wired	149F 018 965	0,02	45,41
With 2 meter wire	149F 018 966	0,02	117,18
With 5 meter wire	149F 018 967	0,10	171,45



Manual gear boxes and accessories

1 Manual gear box



Manual gear box, longlife lubricated, actuated by a wheel - For EPDM liner, liquid fluid

TYPE	DN	A	B	C	D	E	Réf.	Kg	€	
232 05	PS125	25 to 100	53	48	120	125	42,5	149G RD2221	1,1	99,91
232 05	PS125	125 to 150	53	48	120	125	42,5	149G RD2223	1,1	161,21
232 08	PS200	200	67	56	197	200	50	149G RD2224	2,6	190,06
232 08	PS200	250	67	56	197	200	50	149G RD2225	2,6	218,57
232 11	PS250	300	79	79	239	250	60	149G RD2226	5	271,55
232 11	PS250	350	79	79	239	250	60	149G RD2227	5	294,37
AB550N	SG400	400	87,5	83	302	400	71	149G RD2531	8,5	460,52
AB550N	SG400	450	87,5	83	408	400	71	149G RD2253	12	573,04
AB880N	SG400	500	92,5	101	312	400	86	149G RD1938	15	685,57
AB1250N	SG500	600	101,5	110	346	500	104,5	149G RD2380	26	750,75
AB1950N	SG600	700	126	142,5	487	600	130	149G RD2510	40	2083,62
AB1950N/SP4	SG500	800	126	142,5	447	500	130	149G RD2541	50	2083,62
AB6800N/SP4	SG600	900-1000-1200	160	170	500	600	263	149G RD2026	80	2382,06

2 Manual gear box equipped with 1 mechanical limit switch - For EPDM liner, fluid liquid



DN	Ref.	Kg	€
25 to 100	149G RD2422	1,4	505,95
125 to 150	149G RD2426	1,4	505,95
200	149G RD2456	3	546,23
250	149G RD2457	3	628,15
300	149G RD2485	5,5	891,01
350	149G RD2486	5,5	913,83
400	149G RD2592	9,2	1080,00
450	149G RD2278	12,7	1131,63
500	149G RD1734	17,5	1183,22
600	149G RD2559	27	1289,71
700	149G RD2596	41	2435,15
800	149G RD2603	51	2435,15
900-1000-1200	149G RD2285	83,5	2731,24

3 Manual gear box equipped with 2 mechanical limit switches - For EPDM liner, fluid liquid



DN	Ref.	Kg	€
25 to 100	149G RD2423	1,5	556,99
125 to 150	149G RD2427	1,5	556,99
200	149G RD2459	3,1	591,64
250	149G RD2460	3,1	680,39
300	149G RD2490	5,6	888,21
350	149G RD2491	5,6	911,02
400	149G RD2591	9,3	1039,52
450	149G RD2279	12,8	1137,39
500	149G RD1735	18	1235,24
600	149G RD2454	27,1	1358,76
700	149G RD2597	41,1	2477,45
800	149G RD2604	51	2477,45
900-1000-1200	149G RD2076	84	2773,53

4 Manual gear box equipped with IP67 switchbox with 2 mechanical limit switches. For EPDM liner, fluid liquid. On/off position. Mounting with a Switchcontrol SC.M2 : consult us.

DN	Aluminium BFC switchcontrol mechanical - Ref.	Kg	€
25 to 100	149G RD2430	2,1	724,97
125 to 150	149G RD2428	2,1	724,97
200	149G RD2443	3,4	762,10
250	149G RD2444	3,4	876,41
300	149G RD2465	6	961,31
350	149G RD2466	6	984,12
400	149G RD2594	9,7	1131,98
450	149G RD2661	13,2	1316,44
500	149G RD2182	19	1500,92
600	149G RD2560	27,5	1540,61
700	149G RD2565	42	2917,94
800	149G RD2605	52	2917,94
900-1000-1200	149G RD2189	85	3022,32

5 Manual gear box equipped with IP67 switchbox with 2 inductive limit switches. For EPDM liner, fluid liquid. On/off position. Mounting with a Switchcontrol SC.D2 : consult us.

DN	Aluminium BFC switchcontrol inductive - Ref.	Kg	€
25 to 100	149G RD2433	2,1	970,60
125 to 150	149G RD2435	2,1	970,60
200	149G RD2446	3,4	1007,69
250	149G RD2447	3,4	1132,77
300	149G RD2470	6	1158,84
350	149G RD2471	6	1181,67
400	149G RD2595	9,7	1191,94
450	149G RD2269	13,2	1401,64
500	149G RD2270	19	1611,34
600	149G RD2561	27,5	1648,07
700	149G RD2599	42	3237,25
800	149G RD2606	52	3237,25
900-1000-1200	149G RD2274	85	3359,79

6 Manual gear box equipped with 2 inductive limit switches - For EPDM liner, fluid liquid



DN	Ref.	Kg	€
25 to 100	149G RD2496	1,5	1069,33
125 to 150	149G RD2498	1,5	1069,33
200	149G RD2500	3	1104,13
250	149G RD2501	3	1269,73
300	149G RD2506	5,4	1334,88
350	149G RD2507	5,4	1357,69
400	149G RD2593	9,9	1433,77
450	149G RD2286	13,4	1631,51
500	149G RD1815	18,5	1743,18
600	149G RD2562	30	1761,49
700	149G RD2600	44	3295,91
800	149G RD2607	54	3295,91
900-1000-1200	149G RD2291	85	3387,47

7 Manual gear box in cast iron



Longlife lubricated with operating cap. For EPDM liner, fluid liquid

DN	Ref.	Kg	€
25 to 100	149G RD2687	5,2	245,94
125 to 150	149G RD2688	5,2	245,94
200	149G RD2689	6	316,14
250	149G RD2690	6	363,56
300	149G RD2691	9	365,59
350-400	149G RD2692	11,5	530,54
450	149G RD2293	11,5	614,01
500	149G RD1796	14,5	697,46
600	149G RD1966	24,5	1577,14
700	149G RD2601	38	2205,53
800	149G RD2608	49,5	2205,53
900-1000-1200	149G RD1799	78,5	2564,67

8 IP65 manual gear box in stainless steel



DN	Ref.	Kg	€
25 to 100	149H 028 587	2	592,37
125 to 150	149H 028 588	2	592,37
200	149H 028 589	3,5	602,07
250	149H 028 590	3,5	602,07
300	149H 028 591	8	937,90
350	149G RD1669	8	937,90

9 IP68 manual gear box in cast iron GG25

longlife lubricated and waterproof and motorisable, for use underground - For EPDM liner, fluid liquid



DN	Ref.	Kg	€
25 to 100	149G RD1743	5,2	351,47
125 to 150	149G RD1742	5,2	351,47
200	149G RD1800	6,2	406,73
250	149G RD2296	6,2	467,73
300	149G RD1719	10	496,87
350-400	149G RD1801	13	569,18
450	149G RD2297	13	940,26
500	149G RD1802	16,5	1307,26
600	149G RD1968	28	1418,65
700	149G RD2602	43	4556,19
800	149G RD2609	54	4556,19
900-1000-1200	149G RD1805	85	4725,66

10 Gear box with chain-wheel

and waterproof and motorisable.

DN	up to 1 m	from 1 m to 3 m	over to 3 m
25 to 100			
125 to 150			
200	Consult us		
250 to 300		Consult us	
350 to 400			Consult us
450 to 600			
700 to 1200			

11 Steel extension

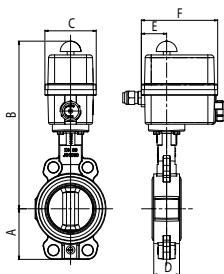


SYLAX

WAFER TYPE

GJL and GJS body
100-240V 50/60Hz • 100-350V DC
15-30V AC 50/60Hz • 12-48V DC

TYPE ER+



PFA 6, EPDM liner

DN	A	B	C	D	E	F	TYPE
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER20
100	106	327	128	52	45	136	ER35
125	120	366	128	56	55	151	ER100
150	131	379	128	56	55	151	ER100

PFA 16, EPDM liner

DN	A	B	C	D	E	F	TYPE
25	50	277	92	32	45	136	ER20
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER35
100	106	351	128	52	55	151	ER60
125	120	366	128	56	55	151	ER100

PFA 6, NITRILE liner

DN	A	B	C	D	E	F	TYPE
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER35
100	106	327	92	52	45	136	ER35
125	120	366	128	56	55	151	ER100

PFA 16, NITRILE liner

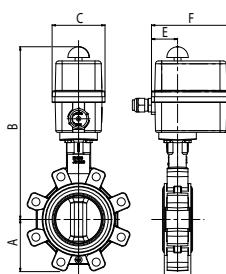
DN	A	B	C	D	E	F	TYPE
25	50	277	92	32	45	136	ER20
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER35
80	89	303	92	46	55	151	ER35
100	106	351	128	52	55	151	ER60
125	120	366	128	56	55	151	ER100

SYLAX

LUG TYPE

GJL and GJS body
100-240V 50/60Hz • 100-350V DC
15-30V AC 50/60Hz • 12-48V DC

TYPE ER+



PFA 6, EPDM liner

DN	A	B	C	D	E	F	TYPE
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER20
100	103	327	92	52	45	136	ER35
125	119	366	128	56	55	151	ER100
150	133	379	128	56	55	151	ER100

PFA 16, EPDM liner

DN	A	B	C	D	E	F	TYPE
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER35
100	103	327	128	52	55	151	ER60
125	119	366	128	56	55	151	ER100

PFA 6, NITRILE liner

DN	A	B	C	D	E	F	TYPE
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER20
80	89	303	92	46	45	136	ER35
100	103	327	92	52	45	136	ER35
125	119	366	128	56	55	151	ER100

PFA 16, NITRILE liner

DN	A	B	C	D	E	F	TYPE
32/40	57	282	92	32	45	136	ER20
50	62	288	92	43	45	136	ER20
65	70	297	92	46	45	136	ER35
80	89	303	92	46	45	136	ER35
100	103	351	128	52	55	151	ER60
125	119	366	128	56	55	151	ER100

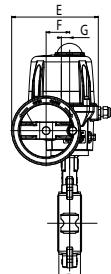
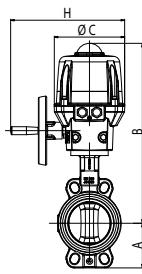
SYLAX

WAFER TYPE

GJL and GJS body

100-240V 50/60Hz • 100-350V DC
15-30V AC 50/60Hz • 12-48V DC

TYPES VR-VS-VT



PFA 6, EPDM liner

DN	A	B	C	D	E	F	G	H	TYPE
25	50	326	170	32	192		20		VR25
32/40	57	331	170	32	192		20		VR25
50	62	337	170	43	192		20		VR25
65	70	346	170	46	192		20		VR25
80	89	352	170	46	192		20		VR25
100	106	376	170	52	192		20		VR75
125	120	448	170	56	209	57	20	275	VS100
150	131	461	170	56	209	57	20	275	VS150
200	164	503,5	170	60	209	57	20	275	VS300
250	200	529	170	68	209	57	20	275	VS300
300	235	554	170	78	209	57	20	275	VS300
350	270	654	197	78	228	56,6	20	468	VT600

PFA 6, NITRILE liner

DN	A	B	C	D	E	F	G	H	TYPE
25	50	326	170	32	192		20		VR25
32/40	57	331	170	32	192		20		VR25
50	62	337	170	43	192		20		VR25
65	70	346	170	46	192		20		VR45
80	89	352	170	46	192		20		VR45
100	106	376	170	52	192		20		VR75
125	119	448	170	56	209	57	20	275	VS100
150	133	461	170	56	209	57	20	275	VS150
200	168	503,5	170	60	209	57	20	275	VS300
250	198	529	170	68	209	57	20	275	VS300
300	227	545	170	78	209	56,6	20	468	VT600
350	248	654	197	78	228	56,6	20	468	VT600

PFA 6, NITRILE liner

DN	A	B	C	D	E	F	G	H	TYPE
32	57	331	170	32	192		20		VR25
40	57	331	170	32	192		20		VR25
50	62	337	170	43	192		20		VR25
65	70	346	170	46	192		20		VR25
80	89	352	170	46	192		20		VR25
100	103	376	170	52	192		20		VR45
125	119	448	170	56	209	57	20	275	VS100
150	133	461	170	56	209	57	20	275	VS150
200	168	503,5	170	60	209	57	20	275	VS300
250	198	529	170	68	209	57	20	275	VS300
300	227	545	170	78	209	56,6	20	468	VT600
350	248	654	197	78	228	56,6	20	468	VT600

PFA 16



SOCLA electric actuators

Multivolt 100-240V 50/60Hz • 100-350V DC • 15-30V AC 50/60Hz • 12-48V DC

ER+

STANDARD EQUIPMENT

- Electric actuators on/off duty
- On/Off or 3 modulating points control
- IP66
- Possible rotation angles : 90° ; 180° ; 270°
- Duty rating 50%
- Polyamide cover UL94V0 approved
- Modular position indicator
- Available voltages : 100-240V 50/60Hz (100-350V DC) or 15-30V AC 50/60Hz (12-48V DC)
- Manual override by handle (ER10 and ER20) or by external shaft (ER35 to ER100)
- 4 adjustable limit switches
- Self regulated anti-condensation heaters
- Electronic torque limiter
- Failure report relay
- RS485 connection
- Mechanical travel stops
- Working temperature from -10°C to +55°C
- 3P+T DIN43650 connector
- Electric connection 1 x ISOM20
- Declutching system for secured manual override



OPTIONS

Many options are not adaptable together, long handle for manual override, 3P+T DIN43650 connector, feedback potentiometer 0,1Ω, 1Ω, 5Ω, 10kΩ, transmitter 0-10V/0-20 mA/4-20 mA, two extra limit switches card.

OTHERS VERSIONS

- ER failsafe with failsafe security unit which ensures return to initial position in case of power failure,
- ER Posi for positioning solution (modulating) by signal 0-10V / 0-20mA / 4-20mA
- ER GF3, third position card



VR-VS-VT

STANDARD EQUIPMENT

- Electric actuators on/off duty
- On/Off or 3 modulating points control
- IP68
- Possible rotation angles : 90° ; 180° ; 270°
- Duty rating 50%
- Polyamide cover UL94V0 approved or aluminium cover
- Position indicator
- Available voltages :
 - VR/VS : 100-240V 50/60Hz (100-350V DC) or 15-30V AC 50/60Hz (12-48V DC), 400V tri
 - VT : 400V tri, 230V 50/60Hz
- Manual override by hand wheel
- 4 adjustable limit switches 5A (VT=16A)
- Self regulated anti-condensation heaters 10W (except VT and 400 tri)
- Torque limiter monitored by software (except VT and 400 tri)
- Failure report relay (except VT and 400 tri)
- RS485 connection (except VT and 400 tri)
- Mechanical travel stops, adjustable for VS and VT
- Working temperature from -10°C to +55°C
- 3P+T DIN43650 connector
- Electric connection 2 x ISOM20
- Plates F05/F07, F07/F10 or F10/F12 according to ISO 5211



OPTIONS

- Many options are not adaptable together, feedback potentiometer 0,1Ω, 1Ω, 5Ω, 10kΩ, transmitter 0-10V / 0-20 mA / 4-20 mA (except VT and 400 tri), two extra limit switches card.

AUTRES VERSIONS (except VT and 400 tri)

- VR/VS with failsafe security unit which ensures return to initial position in case of power failure,
- VR/VS Posi for positioning solution (modulating) by signal 0-10V / 0-20mA / 4-20mA
- VR/VS GF3, third position card



ATEX VERSION (except VT)

- ATEX - II 2 GD Ex d IIB T6 - tD A21 IP67 T80°
- LCIE 06 ATEX 6006X
- Version 400V
- Failsafe ATEX - II 2 GD Ex d IIB T5 - tD A21 IP67 T95°

Socla electric actuators are also used on ball valves (see additional price list)

ASK FOR OUR SPECIFIC PRICE LIST

Sylax with electric actuator Mono

with CAST IRON GG25 body : Ø -10°/+120°
with DUCTILE IRON GGG40 body : Ø -15°/+120°

EPDM

GJL Body

See price list catalogue

SYLAX WAFER TYPE

Flange rating PN 6/10/16/ASA150

DN	PFA 6	€	PFA 16	€
50	1	*	2	149G 083232
65	149G 083174	*	149G 085360	*
80	149G 083175	*	149G 083576	*
100	149G 085540	*	149G 086244	*
125	149G 088349	*	149G 088576	*
150	149G 088575	*	149G 088577	*
200	149G 090627	*		

* Consult us

DUCTILE IRON POLYAMIDE COATED

EPDM

GJS Body

See price list catalogue

SYLAX WAFER TYPE

Flange rating PN 6/10/16/ASA150

DN	PFA 6	€	PFA 16	€
50	1	*	6	149G 083799
65	149G 083788	*	149G 085479	*
80	149G 083631	*	149G 083801	*
100	149G 087628	*	149G 087441	*
125	149G 088381	*	149G 088583	*
150	149G 088582	*	149G 088584	*
200	149G 091795	*		

* Consult us



L. BERNARD electric actuators

ON/OFF DUTY



TRIPHASE MULTITURN WITH GEAR BOX



GENERAL DESCRIPTION

- Electric actuators On/Off duty, mono 230 V AC and triphase 400 V AC
- Frequency 50 Hz
- S4 30% service (intermittent duty at start-up)
- 4 limit switches, position indicator, limit torque (except for OA type) and heating resistance
- Standard IP 67 version
- Ambiant temperature : -20° to +70°C
- Squirrel-cage motor (only for alternative current), class F insulation, incorporated heat shield
- Emergency handwheel (disengageable from type AS100)

OPTIONS FOR ON/OFF ACTUATOR

- Voltage 24V DC (other voltages on request)
- Local control open/close, stop + local/remote selector
- ATEX Version 94/9/CE (please specify ATmosphere classification)
- IP68 version

OTHER MOTORS

- Regulation class III actuator (S4 50%) : regulation class III actuator, 4-20mA positioner, transmitter 4-20mA signal
- The fail safe electric actuator (up to 300DN) triphased 400V 50Hz (spring return).

AUMA electric actuators

ON/OFF DUTY



TRIPHASE MULTITURN WITH GEAR BOX



GENERAL DESCRIPTION

- Electric actuators On/Off duty, mono 230V and 400V AC
- Frequency 50 Hz
- On/Off duty, S2 service 15 min. (according to IEC 34/VDE 0530 norm)
- 2 torque limiters and 2 limit switches for each direction
- Standard IP 67 version (EN 60529)
- Ambiant temperature : -20° to +70°C
- Heating resistance
- Emergency handwheel with priority to electric power

OPTIONS FOR ON/OFF ACTUATOR

- AUMA MATIC local control open, close, stop + local/remote selector
- 4-20 mA transmitter
- ATEX Version 94/9/CE (please specify ATmosphere classification)
- IP68 version

OTHER MOTORS

- Regulation S4 25% actuator
- Equipment for actuators
- Other



ROTORQ electric actuators

ON/OFF DUTY type AQ/Q

- Electric actuator On/Off duty S2 20% service
- Waterproof IP68
- Temperature -30° to +70°C
- Monophased power supply (other voltages available)
- 2 limit switches
- Emergency handwheel (priority to electric power)
- Local control open/close, stop + local/remote selector
- Mechanical position indicator



TRIPHASE MULTITURN WITH GEAR BOX type IQ

- Non intrusive actuator (parameterization by infra-red remote control)
- Waterproof IP68
- Temperature -30° to +70°C
- Class F motor
- Triphased power supply
- 4 adjustable indicating contacts (limit switch, stress-limit switch etc.)
- Emergency handwheel (priority to electric power)
- Local control open/close, stop + local/remote selector
- Position digital display



Options

- 4-20 mA transmitter, 4-20mA positioner
- Explosion proof Exd II BT4 version (on version «AQ» and «IQ»)

Other actuators on request

- Regulation actuators S4 50%
- Equipment for regulating actuators : positioner, transmitter
- Other...

BELIMO asynchronous electric actuators

SR Serie

On/Off duty. Mono 230V or 24V,
IP54 (cable inlet towards bottom).
For butterfly valves DN25 to DN100



GR Serie

On/Off duty.
Mono 230V or 24V - IP54
For butterfly valves DN125-150



MOTOR SPECIFICATIONS

TYPE	SR24A-5	SR230A-5	GR24A-7	GR230A-7		
Voltage supply	24VAC +/- 20% 24VCC +/- 10%	230VAC +/- 10% 230VAC +/- 10%	24VAC +/- 20% 24VCC +/- 10%	230VAC +/- 10% 230VAC +/- 10%		
Frequency	50/60 Hz (AC)	50 Hz 60Hz	50/60 Hz (AC)	50 Hz 60 Hz		
Consumption	2 W	2,5 W	4,5 W	4 W		
Torque with rated voltage	Min. 20 Nm		Min. 40 Nm			
Operating time / 90°	90 sec.		150 sec.			
Ambiant temperature	0°... +50°C					
Control	1 or 2 fils					

OPTIONS :

Electrical limit switches

Ref. 149F030397

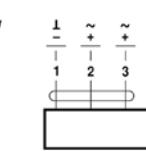


IP54 switchbox (cable inlet towards bottom) with 2 electrical switches.
Switching power : 6A (1.5A) AC 250V.

Wiring diagram

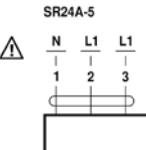
SR

AC 24 V / DC 24 V



SR24A-5

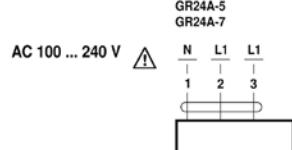
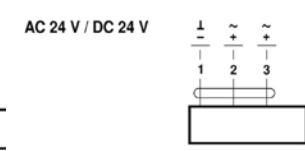
AC 100 ... 240 V



SR230A-5

GR

AC 24 V / DC 24 V



GR24A-5
GR24A-7

AC 100 ... 240 V



SHUT OFF



SYLAX - EPDM Liner - PFA6 bar Double acting (*with mounting kit)

DN	A		DB	B	C	D	TYPE
	OC	OT					
25	50			206	124	32	PA40
32/40	57	57		211	124	32	PA40
50	62	62		217	124	43	PA40
65	84	70		226	124	46	PA40
80	89	89		232	124	46	PA40
100	106	103		267	154	52	PA52
125	120	119		297,5	166	56	PA63
150	131	133	135	322,5	186	56	PA75
200 V1	164	168	164	382,3*	253	60	PA92
200 V2	165,5			353,7	205	60	PA83
250	200	198	200	424	268	68	PA105
300	235	227	235	487,5	392	78	PA140
350	270	248	270	496,5	392	78	PA140
400	286	286	286	569,5	392	102	PA140
450	315	315	315	677	525	114	PA190
500	355	355	355	700	525	127	PA190
600	432		432	755	525	154	PA190
700	503		503	894	610	165	PA240
800	568		568	1206*	722	190	PA270

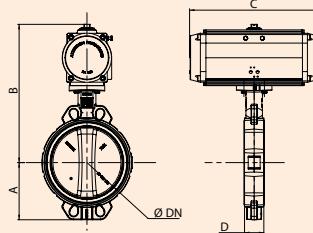
SYLAX - EPDM Liner - PFA6 bar Single acting (*with mounting kit)

DN	A		DB	B	C	D	TYPE
	OC	OT					
25	50			232,5	166	32	PA63
32/40	57	57		237,5	166	32	PA63
50	62	62		243,5	166	43	PA63
65	84	70		252,5	166	46	PA63
80	89	89		270,5	186	46	PA75
100	106	103		294,5	186	52	PA75
125	120	119		326,8	253	56	PA92
150	131	133	135	339,8	253	56	PA92
200 V1	164	168	164	420,5	301	60	PA125
200 V2	165,5			400	301	60	PA125
250	200	198	200	508,5	392	68	PA140
300	235	227	235	587	451	78	PA160
350	270	248	270	655*	525	78	PA190
400	286	286	286	728*	525	102	PA190
450	315	315	315	702	532	114	PA210
500	355	355	355	908*	610	127	PA240
600	432		432	1001*	722	154	PA270

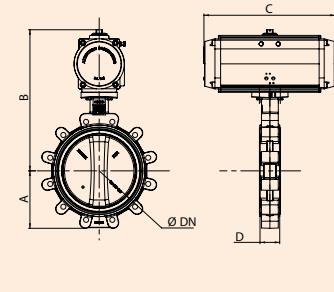
SYLAX - EPDM Liner - PFA16 bar Double acting (*with mounting kit)

DN	A		DB	B	C	D	TYPE
	OC	OT					
25	50			206	124	32	PA40
32/40	57	57		211	124	32	PA40
50	62	62		217	124	43	PA40
65	84	70		226	124	46	PA40
80	89	89		243	154	46	PA52
100	106	103		282,5	166	52	PA63
125	120	119		309,5	186	56	PA75
150	131	133	135	331,7	205	56	PA83
200	164	168	164	398,5	268	60	PA105
250	200	198	200	446	301	68	PA125
300	235	227	235	487,5	392	78	PA140
350	270	248	270	655*	525	78	PA190
400	286	286	286	728*	525	102	PA210
450	315	315	315	702	532	114	PA240
500	355	355	355	908*	610	127	PA270

OC : WAFER TYPE



OT : LUG TYPE



SYLAX - NITRILE Liner - PFA6 bar Double acting

DN	A		DB	B	C	D	TYPE
	OC	OT					
25	50			232,5	166	32	PA63
32/40	57	57		237,5	166	32	PA63
50	62	62		243,5	166	43	PA63
65	84	70		264,5	186	46	PA75
80	89	89		270,5	186	46	PA75
100	106	103		294,5	186	52	PA92
125	120	119		318,7	205	56	PA83
150	131	133	135	339,8	253	56	PA92
200	164	168	164	420,5	301	60	PA125
250	200	198	200	462,5	392	68	PA140
300	235	227	235	487,5	392	78	PA140
350	270	248	270	522	451	78	PA160

SYLAX - NITRILE Liner - PFA16 bar Double acting

DN	A		DB	B	C	D	TYPE
	OC	OT					
25	50			232,5	166	32	PA40
32/40	57	57		237,5	166	32	PA40
50	62	62		243,5	166	43	PA40
65	84	70		273,7	205	46	PA52
80	89	89		279,7	205	46	PA83
100	106	103		388*	268	52	PA105
125	120	119		365	301	56	PA125
150	131	133	135	378	301	56	PA125
200	164	168	164	462,5	451	60	PA160
250	200	198	200	621*	525	68	PA190
300	235	227	235	671*	532	78	PA210
350	270	248	270	713*	610	78	PA240



SOCLA Pneumatic actuator Double and single acting

General features

- Pneumatic actuations by a adjustable travel stop device
- Operating temperature from -20°C and +80°C
- Torques from 20 up to 3510 Nm
- Air supply 2,5 to 8 bar (in standard, air supply 6 bar)
On request, air supply < 6 bar
- Mechanical stops enabling of opening or closing to +5° to -5°
- Dry or lubricated air supply
- ATEX 2II DG c
- Flanges in accordance with EN ISO 5211, VDI/VDE 3845
- Visual position indicator
- In standard, NF single acting version (NO on request)



OPTIONS

- 120° - 180° rotating angle
- Adjustment : 100% travel stop
- Open clockwise
- Other materials :
 - Body / caps : PFA coating 40µm
Chemical nickel 18µm
 - O-ring : Viton® / Silicon
 - Piston : Stainless steel

ACCESSORIES

- SOLENOÏD VALVES** : Monostable solenoid valves 5/2 and 3/2 - Safety position by mechanical return spring - Ambiente T° : -20°C to +70°C - Fluids : dry or lubricated air supply or neutral gas - Consumption : 3W for CC, 5VA for CA Standard IP65 version (with standard connections) - Emergency handwheel - Mounting in accordance with NAMUR standard



- SWITCHCONTROL** : Aluminium box with synthetic resin coated, PMMA cap (Makrolon) - IP67 - Ambiente temperature : -20°C to +70°C



- SWITCHMASTER** : Body in LEXAN 143 R(PC) - 3 wires - IP67 - Ambiente temperature -20°C to +70°C



DUCTILE IRON
POLYAMIDE
COATED

Sylax
with double acting actuator

EPDM

with CAST IRON GG25 body : Ø -10°/+120°
with DUCTILE IRON GGG40 body : Ø -15°/+120°

Body GJL

See price list catalogue

SYLAX
Wafer type



ASK FOR OUR
SPECIFIC PRICE LIST

DUCTILE IRON
POLYAMIDE
COATED

Sylax
with double acting actuator

EPDM

with CAST IRON GG25 body : Ø -10°/+120°
with DUCTILE IRON GGG40 body : Ø -15°/+120°

Body GJS

See price list catalogue

SYLAX
Wafer type



Flange rating PN 6/10/16/ASA150

DN	PFA 6	Kg	€	PFA 16	Kg	€
50	■			149G 073535	4,3	*
65	149G 073526	4,7	*	149G 086590	4,9	*
80	149G 073527	5,0	*	149G 073537	5,2	*
100	149G 085245	7,2	*	149G 086590	8,2	*
125	149G 073529	9,4	*	149G 070825	10,9	*
150	149G 073530	11,8	*	149G 073538	12,5	*
200	149G 073531	19,0	*	149G 073539	20,7	*
250	149G 073532	26,9	*	149G 073540	28,9	*
300	149G 073533	41,7	*	149G 073541	41,7	*
350	149G 086519	48,4	*	149G 073542	54,0	*

* Consult us





Pneumatic actuators Double and single acting

ADJUSTABLE TRAVEL STOP DEVICE



Dry or lubricated air supply.
Operating temperature from - 20°C to + 80°C.
Mechanical stops enabling regulation of opening or closing to + or - 5°. Top flange in accordance with EN ISO 5211, DIN 3337, VDI/VDE 3845.

On request :

- Water-based hydraulic version
 - Special coating
 - Emergency handwheel
- Available in all sizes of actuators



“SCOTCH YOKE” MECHANISM



Dry or lubricated air supply.
Operating temperature from - 20°C to + 75°C
Mechanical stops enabling regulation of opening or closing to + or - 5°.
Top flange in accordance with EN ISO 5211.
In standard, pneumatic actuators single acting are normally closed (NF), on request (NO)

On request :

- Water-based hydraulic version
 - Special coating
 - Emergency handwheel
- Available in all sizes of actuators

**ALL PNEUMATIC ACTUATORS ARE SIZED FOR 6 BAR CONTROL AIR.**

For lower pressures, please contact our technical department

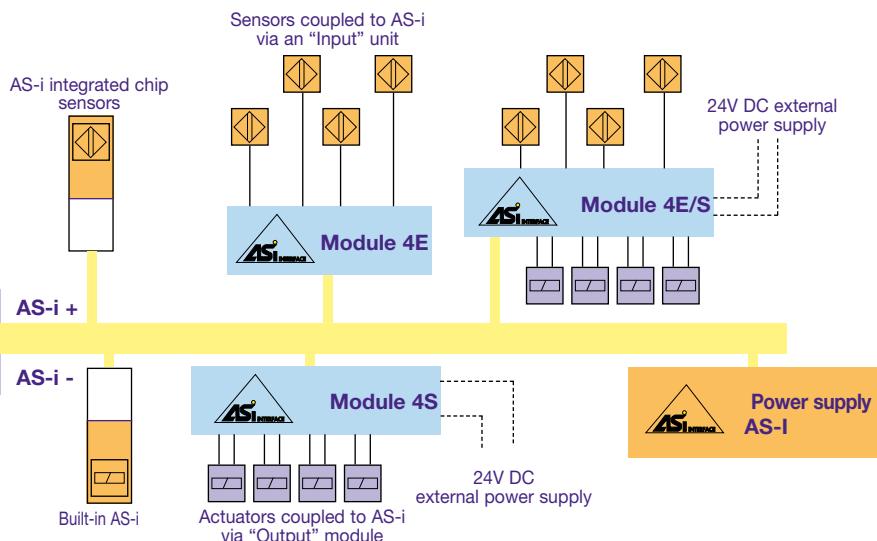
AVAILABLE OPTIONS :

- IP67 waterproof switchbox with 2 mechanical limit switches or 2 inductive limit switches
- Solenoid valve 5/2 and 3/2 monostable, different voltages available
- ADF Ex dIIC T6 waterproof switchbox «explosion proof»
- Electro positioner 4/20mA and 3/15 PSI

Actuator sensor interface field bus



Intended for connecting instruments (sensors and valves) in a single series connection
Master/slave principle
Complementary network with upper field bus
Topology of free networks





FACE TO FACE

Sylax - Sylax FM/CNPP - Sylax Gas - Tilos - Lycene - Emaris according to :

EN 558-1 class 20 - ISO 5752 class 20 - API 609 table 2

Sylax (DN >350mm) according to : EN 558 - 1 class 20 - ISO 5752 class 20

BASE AND CONNECTION

DN	ISO TOP	A	B	C	D	E	F	Flat G	H ^a
25	F05	11	16	36	65	6,5	50	12	10
32	F05	11	16	36	65	6,5	50	12	10
40	F05	11	16	36	65	6,5	50	12	10
50	F05	11	16	36	65	6,5	50	12	12
65	F05	11	16	36	65	6,5	50	12	12
80	F05	11	16	36	65	6,5	50	12	12
100	F05	11	16	36	65	6,5	50	12	12
125	F07	14	19	56	90	8,5	70	15	12
150	F07	14	19	56	90	8,5	70	15	12
200	F10	17	24	71	125	10,5	102	20	15,5
250	F10	22	24	71	125	10,5	102	26	16
300	F12	22	29	87	150	12,5	125	26	16
350	F12	27	29	87	150	12,5	125	-	16

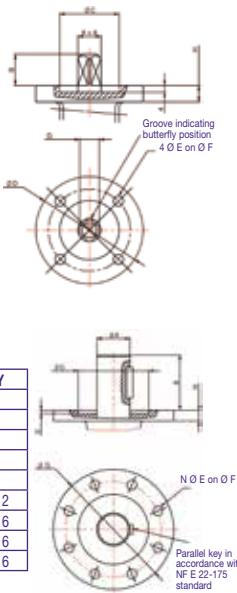
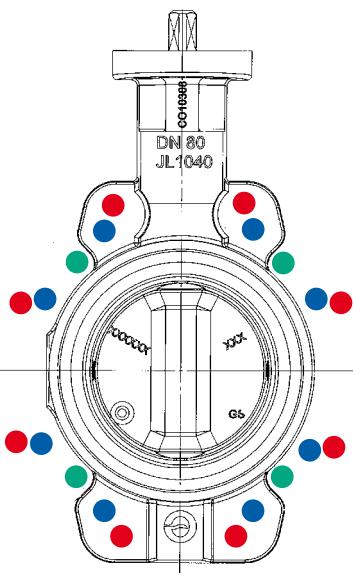


DIAGRAM SHOWING MULTIPLE CONNECTIONS ON BUTTERFLY VALVES

Example not to scale



TIE ROD POSITIONING

- PN16 connection
- PN10 connection
- PN6 connection

END OF LINE FOR BUTTERFLY VALVES

Body	DN	Materials	End of line	PS (maximum, depending on liquid)
Ring shaped centering lugs	50 to 100	GJS	NO	
centering lugs	25 to 600	GJL	NO	
centering lugs	25 to 150	GJS	YES *	
centering lugs	200 to 1000	GJS	NO	
centering lugs	32 to 300	Steel	NO	
centering lugs	32 to 300	Stainless steel	NO	
Central flange	60 to 200	GJS	YES	
tapped lugs	32 to 350	GJL	YES	
tapped lugs	32 to 600	GJS	YES	
tapped lugs	32 to 300	Steel	YES	
tapped lugs	32 to 300	Stainless steel	YES	
double flange	150 to 1200	GJS	YES	

SEE PED TABLE
PAGE 84

* 6 bar maxi

RECOMMENDATIONS FOR SYLAX BUTTERFLY VALVES CONTROLLED BY HANDLES OR MANUAL GEAR BOX

For fluids up to 16 bar pressure

Actuator	DN										
	25	32	40	50	65	80	100	125	150	200	250
PCX											
PCF											
Gear box											

For other liquids please contact our technical department

RECOMMENDED FOR SYLAX BUTTERFLY VALVES FOR USE WITH COMPRESSED AIR

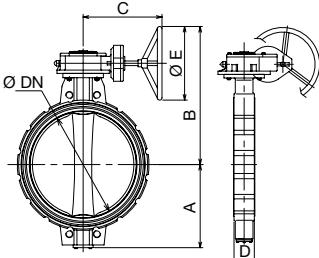
DN	2,5	6	10	16	20
25/32					
32/40					
50					
65					
80					
100					
125					
150					
200					
250					
300					
350					
400					
450					
500					
600					
700					
800					
900					
1000					
1200					

Cast or ductile iron

Ductile iron - C-steel SS

Out of range





SYLAX - SYLAX GAS Centering lugs GJL - GJS

Liner : EPDM
Silicone ≥ DN400

DN	A	B	C	D	E
25	50	214,5	120	32	125
32/40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	106	264,5	120	52	125
125	120	279,5	120	56	125
150	131	282,5	120	56	125
200	164	373,5	197	60	200
250	200	399	197	68	200
300	235	459	239	78	250
350	270	468	239	78	250
400	286	619	302	102	400
450	315	658	408	114	400
500	355	682	312	127	400
600	415	793	346	154	500
700	460	931	487	165	600
800	520	935	447	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600

Liner : High content Nitrile
Silicone ≤ DN350

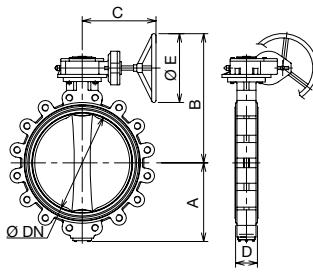
DN	A	B	C	D	E
25	50	214,5	120	32	125
32/40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	106	264,5	120	52	125
125	120	279,5	120	56	125
150	131	331	197	56	200
200	164	373,5	197	60	200
250	200	399	197	68	200
300	235	459	239	78	250
350	270	468	239	78	250
400	286	619	302	102	400
450	315	658	408	114	400
500	355	682	312	127	400
600	415	793	346	154	500
700	460	931	487	165	600
800	520	935	447	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600

Liner : FKM - CSM ≤ DN350
White EPDM ≤ DN350

DN	A	B	C	D	E
25	50	214,5	120	32	125
32/40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	106	264,5	120	52	125
125	120	279,5	120	56	125
150	131	331	197	56	200
200	164	373,5	197	60	200
250	200	399	197	68	200
300	235	459	239	78	250
350	270	468	239	78	250
400	286	619	302	102	400
450	315	658	408	114	400
500	355	682	312	127	400
600	415	793	346	154	500
700	460	931	487	165	600
800	520	935	447	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600

Liner : Carboxylated nitrile
High content Nitrile for SYLAX Gas

DN	A	B	C	D	E
50	62	225	120	43	125
65	70	234	120	46	125
80	89	240	120	46	125
100	106	266	197	52	200
125	120	319	197	56	200
150	131	332	197	56	200
200	164	463	197	60	200
250	200	469	239	68	250
300	235	494	293	78	300
350	270	544,5	376	78	400



SYLAX - SYLAX GAS Tapped lugs GJL - GJS

Liner : EPDM
Silicone ≥ DN400

DN	A	B	C	D	E
32	57	219,5	120	32	125
40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	103	264,5	120	52	125
125	119	279,5	120	56	125
150	133	292,5	120	56	125
200	168	373,5	197	60	200
250	198	399	197	68	200
300	227	459	239	78	250
350	248	468	239	78	250
400	266	619	302	102	400
450	315	658	408	114	400
500	355	682	312	127	400
600	415	793	346	154	500

Liner : High content Nitrile
Silicone ≤ DN350

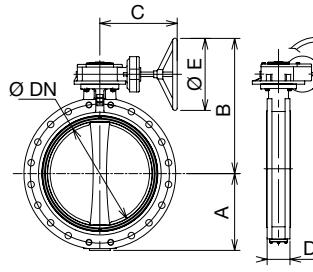
DN	A	B	C	D	E
32	57	219,5	120	32	125
40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	103	264,5	120	52	125
125	119	279,5	120	56	125
150	133	331	197	56	200
200	168	373,5	197	60	200
250	198	399	197	68	200
300	227	459	239	78	250
350	248	493	239	78	250
400	266	619	302	102	400
450	315	759	371	114	600
500	355	888	416	127	800
600	415	800	447	154	500
700	460	881	447	165	500
800	520	989	500	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600
1200	768	1329	500	252	800

Liner : FKM - CSM ≤ DN350
White EPDM ≤ DN350

DN	A	B	C	D	E
150	131	331	197	56	200
200	164	373,5	197	60	200
250	200	399	197	68	200
300	235	484	293	78	300
350	270	493	293	78	300
400	286	619	302	102	400
450	315	759	371	114	600
500	355	888	416	127	800
600	415	800	447	154	500
700	460	881	447	165	500
800	520	989	500	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600
1200	768	1329	500	252	800

Liner : Carboxylated nitrile
High content Nitrile for SYLAX Gas

DN	A	B	C	D	E
150	135	332	197	56	200
200	164	463	197	60	200
250	200	469	239	68	250
300	235	494	293	78	300
350	270	544,5	376	78	400



SYLAX Double flanged GJS

Liner : EPDM
Silicone ≥ DN400

DN	A	B	C	D	E
150	131	292,5	120	56	125
200	164	373,5	197	60	200
250	200	399	197	68	200
300	235	459	239	78	250
350	270	468	239	78	250
400	286	619	302	102	400
450	315	658	408	114	400
500	355	682	312	127	400
600	415	793	346	154	500
700	460	931	487	165	600
800	520	935	447	190	600
900	583	1059	500	203	600
1000	640	1111	500	216	600
1200	768	1229	500	252	600

Liner : High content Nitrile
Silicone ≤ DN350

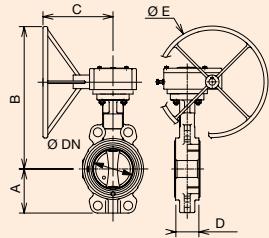
<table border="



SYLAX RM - Centering lugs GJS

DN	A	B	C	D	E
25	50	214	171	32	125
32	57	219	171	32	125
40	57	219	171	32	125
50	62	225	171	43	125
65	70	234	171	46	125
80	89	240	171	46	125
100	106	266	171	52	125
125	120	320	188	56	200
150	132	332	188	56	200
200	164	444	210	60	315
250	200	469	210	68	315
300	238	494	210	78	315
350	280	546	364	78	400

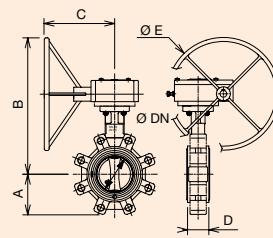
Liner : White EPDM



SYLAX RM - Tapped lugs GJS

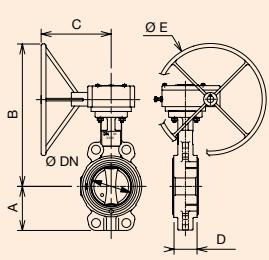
DN	A	B	C	D	E
32	57	219	171	32	125
40	57	219	171	32	125
50	62	225	171	43	125
65	70	234	171	46	125
80	89	240	171	46	125
100	106	266	171	52	125
125	120	321	171	56	125
150	132	332	188	56	200
200	164	444	210	60	315
250	200	469	210	68	315
300	238	494	210	78	315
350	280	546	364	78	400

Liner : White EPDM



SYLAX PS20 - Centering lugs GJS

DN	A	B	C	D	E
32	57	219	171	32	125
40	57	219	171	32	125
50	62	225	171	43	125
65	70	234	171	46	125
80	89	240	171	46	125
100	106	266	171	52	125
125	120	281	171	56	125
150	132	332	188	56	200
200	164	373,5	197	60	200
250	200	434	239	68	250
300	235	484	293	78	300
350	270	544,5	376	78	400



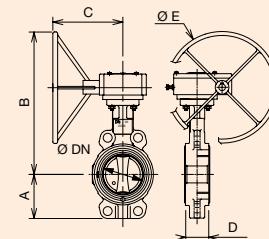
SYLAX PS20 - Tapped lugs GJS

DN	A	B	C	D	E
32	57	219,5	120	32	125
40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	106	303	197	52	200
125	120	318	197	56	200
150	131	331	197	56	200
200	164	373,5	197	60	200
250	200	434	239	68	250
300	227	484	293	78	300

SYLAX PS25 - Centering lugs GJS

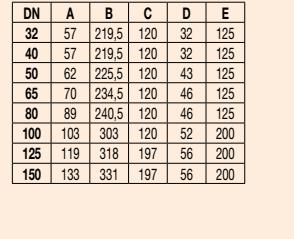
SYLAX PS25 - Centering lugs GJS

DN	A	B	C	D	E
32	57	219,5	120	32	125
40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	106	303	197	52	200
125	120	318	197	56	200
150	131	331	197	56	200



SYLAX PS25 - Tapped lugs GJS

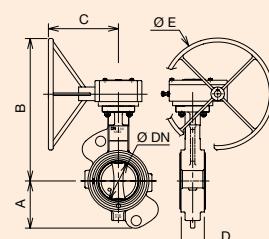
DN	A	B	C	D	E
32	57	219,5	120	32	125
40	57	219,5	120	32	125
50	62	225,5	120	43	125
65	70	234,5	120	46	125
80	89	240,5	120	46	125
100	103	303	120	52	200
125	119	318	197	56	200
150	133	331	197	56	200



SYLAX RM STEEL OR STAINLESS STEEL - Centering lugs

Liner : EPDM

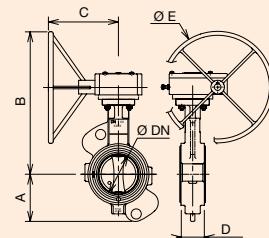
DN	A	B	C	D	E
32/40	56	219,5	120	32	125
50	73	225,5	120	43	125
65	82	234,5	120	46	125
80	93	240,5	120	46	125
100	106	264,5	120	52	125
125	127	279,5	120	56	125
150	147	292,5	120	56	125
200	174	373,5	197	60	200
250	210	399	197	68	200
300	239	459	239	78	250



SYLAX RM STEEL OR STAINLESS STEEL - Centering lugs

Liner : High content nitrile

DN	A	B	C	D	E
32/40	56	219,5	120	32	125
50	73	225,5	120	43	125
65	82	234,5	120	46	125
80	93	240,5	120	46	125
100	106	264,5	120	52	125
125	127	279,5	120	56	125
150	147	331	197	56	200
200	174	373,5	197	60	200
250	210	399	197	68	200
300	239	459	239	78	250





- For maintenance of valves DN 400 to 1200, we recommend all repairs in our workshops
- CAUTION : Before ordering spare parts, please consult our back office department with your manufacturing order number.



Discs



Liners

Kit including : liner, O-ring, tightness bush, anti-ejection bush, circlips.

DN mm	PFA 6 bar		PFA 16 bar		PFA 20 bar	PFA 25 bar	€	* Consult us
	1 POLYAMIDE DI	2 EPOXY DI	3 POLYAMIDE DI	4 EPOXY DI	5 POLYAMIDE DI	6 POLYAMIDE DI		
50	-	-	149G 087 468	149G 087 468	149G 087 479	149G 087 479	*	*
65	149G 087 456	149G 087 463	149G 087 469	149G 087 475	149G 087 480	149G 087 480	*	*
80	149G 087 459	149G 087 466	149G 087 471	149G 087 477	149G 087 481	149G 087 481	*	*
100	149G 087 461	149G 087 467	149G 087 472	149G 087 478	149G 087 483	149G 087 483	*	*
125	149H 028 717	149H 028 829	149H 028 727	149H 028 820	149H 028 794	149H 028 794	*	*
150	149H 028 718	149H 028 830	149H 028 728	149H 028 821	149H 028 728	149H 028 797	*	*
200	149H 028 719	149H 028 831	149H 028 729	149H 028 822	149H 028 799	-	*	*
250	149H 028 720	149H 028 832	149H 028 730	149H 028 823	149H 028 800	-	*	*
300	149H 028 721	149H 028 833	149H 028 731	149H 028 824	149H 028 804	-	*	*
350	149H 028 722	149H 042 384	149H 028 732	149G 042 396	-	-	*	*
400	-	149G 082 896	-	149G 082 899	-	-	*	*
450	-	149G 082 898	-	149G 082 900	-	-	*	*
500	-	149G 082 901	-	149G 082 902	-	-	*	*
600	-	149G 082 903	-	149G 082 904	-	-	*	*
700	-	149G 082 905	-	149G 082 906	-	-	*	*
800	-	149G 082 907	-	149G 082 915	-	-	*	*
900	-	149G 082 910	-	149G 082 911	-	-	*	*
1000	-	149G 082 909	-	149G 082 913	-	-	*	*
1200	-	149G 081 054	-	149G 081 055	-	-	*	*

DN mm	PFA 6 bar		PFA 16 bar		€	* Consult us
	7 STAINLESS STEEL 316	8 STAINLESS STEEL 316				
25	-	-	149G 042 398	-	*	*
32	-	-	149G 042 399	-	*	*
40	-	-	149G 042 399	-	*	*
50	-	-	149G 042 850	-	*	*
65	149G 087 487	-	149G 087 496	-	*	*
80	149G 087 488	-	149G 087 497	-	*	*
100	149G 087 489	-	149G 087 498	-	*	*
125	149G 046 811	-	149G 046 816	-	*	*
150	149G 046 812	-	149H 028 668	-	*	*
200	149H 028 669	-	149H 028 769	-	*	*
250	149H 028 670	-	149H 028 770	-	*	*
300	149H 028 671	-	149H 028 771	-	*	*
350	149H 028 672	-	149H 028 772	-	*	*
400	149G 082 917	-	149G 082 925	-	*	*
450	149G 082 918	-	149G 075 814	-	*	*
500	149G 082 919	-	149G 082 926	-	*	*
600	149G 082 920	-	149G 082 927	-	*	*
700	149G 082 921	-	149G 082 928	-	*	*
800	149G 082 922	-	149G 082 929	-	*	*
900	149G 082 923	-	149G 082 930	-	*	*
1000	149G 082 924	-	149G 082 931	-	*	*
1200	149G 081 056	-	149G 081 057	-	*	*

DN mm	PFA 6 bar		PFA 16 bar		PFA 20 bar	PFA 25 bar	€	* Consult us
	9 S. STEEL 316L	10 S. STEEL 316L	11 S. STEEL 316L	12 S. STEEL 316L				
32	-	-	149H 028 761	149H 028 761	149G 046 535	-	*	*
40	-	-	149H 028 761	149H 028 761	149G 046 535	-	*	*
50	-	-	149G 087 509	149G 087 513	149G 087 513	-	*	*
65	149G 087 506	-	149G 087 510	149G 087 514	149G 087 514	-	*	*
80	149G 087 507	-	149G 087 511	149G 087 515	149G 087 515	-	*	*
100	149G 087 508	-	149G 087 512	149G 087 516	149G 087 516	-	*	*
125	149H 028 666	-	149H 028 766	149G 046 540	149G 046 540	-	*	*
150	149H 028 667	-	149H 028 767	149H 028 767	149G 046 541	-	*	*
200	149G 087 545	-	149G 087 546	149G 087 547	-	*	*	*
250	149G 087 548	-	149G 087 549	149G 087 550	-	*	*	*
300	149G 087 551	-	149G 087 552	149G 087 553	-	*	*	*
350	-	-	-	149G 046 545	-	*	*	*

DN mm	PFA 6 bar		PFA 16 bar		€	* Consult us
	13 MIRROR POLISHED S. STEEL	14 MIRROR POLISHED S. STEEL				
32	-	-	149F 040 040	149F 038 140	*	*
40	-	-	149F 040 040	149F 040 040	*	*
50	-	-	149F 040 028	149F 040 041	*	*
65	149F 040 030	-	149F 040 042	149F 040 042	*	*
80	149F 040 031	-	149F 040 043	149F 040 043	*	*
100	149F 040 035	-	149F 029 960	149F 029 960	*	*
125	149F 040 045	-	149F 029 944	149F 029 944	*	*
150	149F 027 546	-	149F 029 535	149F 029 535	*	*
200	149F 027 545	-	149F 029 536	149F 029 537	*	*
250	149F 027 545	-	149F 029 537	149F 029 537	*	*
300	149F 027 544	-	149F 029 537	149F 029 537	*	*

DN mm	PFA 6 bar		PFA 16 bar		PFA 20 bar	PFA 25 bar	€	* Consult us
	15 ALU BRONZE	16 ALU BRONZE	17 ALU BRONZE	18 ALU BRONZE				
32	-	-	149H 028 740	149H 028 740	149G 042 383	*	*	*
40	-	-	149H 028 740	149H 028 740	149G 042 383	*	*	*
50	-	-	149G 087 523	149G 087 529	149G 087 529	*	*	*
65	149G 087 517	-	149G 087 524	149G 087 530	149G 087 530	*	*	*
80	149G 087 518	-	149G 087 525	149G 087 531	149G 087 531	*	*	*
100	149G 087 519	-	149G 087 526	149G 087 532	149G 087 532	*	*	*
125	149H 028 653	-	149H 028 745	149H 028 810	149H 028 810	*	*	*
150	149H 028 654	-	149H 028 746	149H 028 746	149H 028 811	*	*	*
200	149H 028 656	-	149H 028 747	149H 028 813	-	*	*	*
250	149H 028 657	-	149H 028 748	149H 028 814	-	*	*	*
300	149H 028 658	-	149H 028 749	149H 028 815	-	*	*	*
350	149H 028 659	-	149H 028 750	149G 046 477	-	*	*	*
400	149G 082 946	-	149G 082 955	-	-	*	*	*
450	149G 082 947	-	149G 082 957	-	-	*	*	*
500	149G 082 948	-	149G 082 958	-	-	*	*	*
600	149G 082 949	-	149G 082 959	-	-	*	*	*
700	149G 082 950	-	149G 082 960	-	-	*	*	*
800	149G 082 951	-	149G 082 961	-	-	*	*	*
900	149G 082 952	-	149G 082 962	-	-	*	*	*
1000	149G 082 953	-	149G 082 963	-	-	*	*	*
1200	149G 081 058	-	149G 081 059	-	-	*	*	*

DN mm	SILICONE		€	* Consult us
	26			
32	149H 024 479	-	*	*
40	149H 024 479	-	*	*
50	149G 087 494	-	*	*
65	149G 087 495	-	*	*
80	149G 087 499	-	*	*
100	149G 087 500	-	*	*
125	149G 091 781	-	*	*
150	149G 091 781	-	*	*
200	149H 024 497	-	*	*
250	149H 024 487	-	*	*
300	149H 024 488	-	*	*
350	149H 024 489	-	*	*
400	149G 082 937	-	*	*
450	149G 082 939	-	*	*
500	149G 082 940	-	*	*
600	149G 082 941	-	*	*
700	149G 082 942	-	*	*
800	149G 082 943	-	*	*
900	149G 082 944	-	*	*
1000	149G 082 945	-	*	*
1200	149G 081 053	-	*	*