

Socla Product Guide 2021

Components and systems



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Chapter 1

Protection Systems

BA AND CA
BACKFLOW PREVENTERS

EA ANTIPOLLUTION
NON-RETURN VALVES

EB ANTIPOLLUTION
NON-RETURN VALVES

EC AND ED
DOUBLE CHECK VALVES

Chapter 1.1

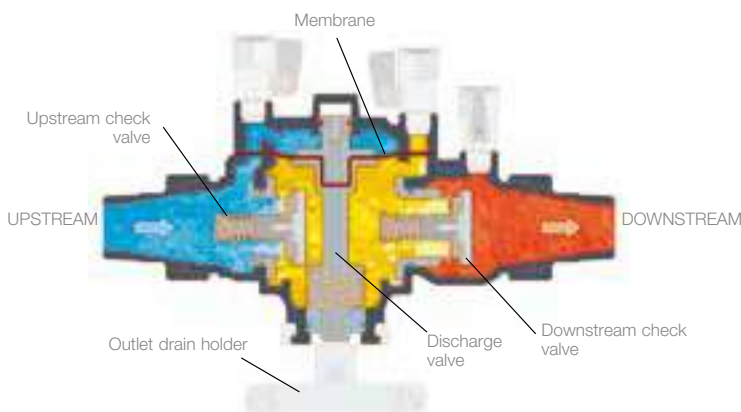
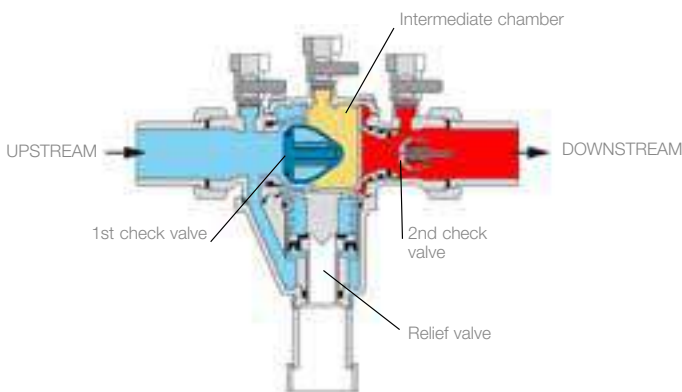
BA and CA BACKFLOW PREVENTERS

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.

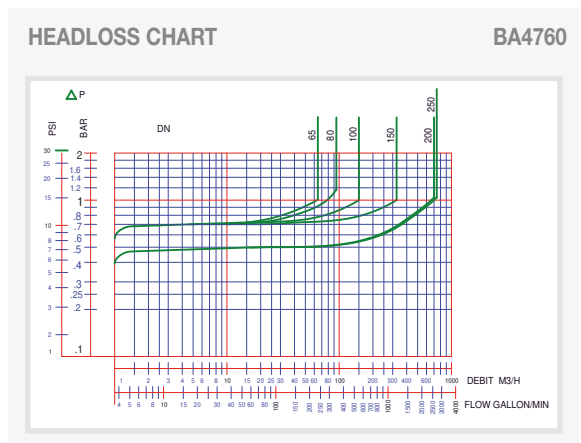
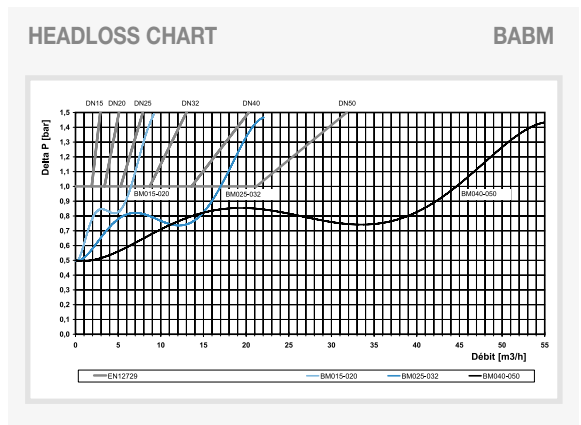
Backflow preventers protect the drinking water network by interrupting the continuity of the supply, emptying and evacuating to waste in case of danger of water being turned back into the main pipeline.

BA BACKFLOW PREVENTER

with verifiable reduced pressure zone

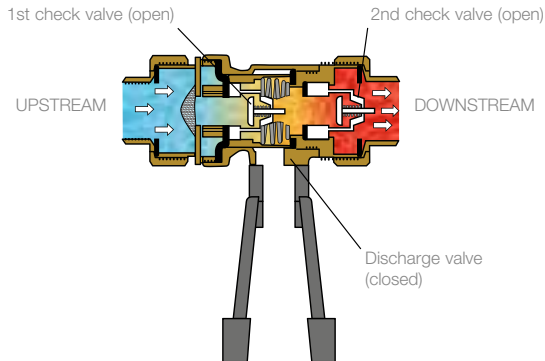


For systems liable to bring serious pollution risks : industrial surface treatment plants, hospitals, chemicals, plant protection, industrial and «commercial» heating etc. Backflow preventers demonstrate effective protection acknowledged by most European authorities.

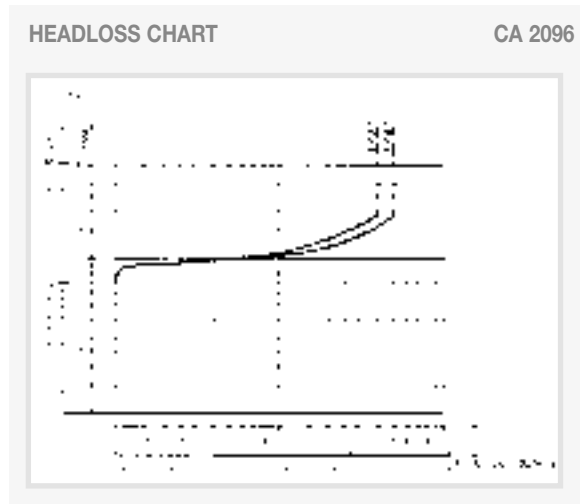


CA BACKFLOW PREVENTER

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.



PROTECTION OF DRINKING WATER NETWORKS

BABM - male/male

EN 12729

PRESSURE PFA 10 bar θ 65°

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

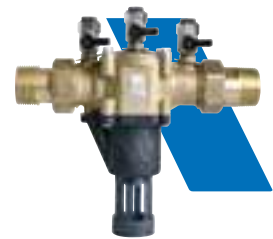
RELIEF VALVE : Polymer PA

CHECK VALVES : Polymer POM

APPROVALS :



Other approval available :



Part Number	DN mm	DN "	UV
149B 70000	15	1/2	1
149B 70001	20	3/4	1
149B 70002	25	1	1
149B 70003	32	1 1/4	1
149B 70004	40	1 1/2	1
149B 70005	50	2	1

Dimensions at the end of the section.

BA4760 - with PN10 flanges

EN 12729

PRESSURE PFA 10 bar θ 65°

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 :



Note: Horizontal installation



Part Number	DN mm	DN "	UV
149B 3486	65	2 1/4	1
149B 3097	80	3	1
149B 3098	100	4	1
149B 3400	150	6	1
149B 3401	200	8	1
149B 3402	250	10	1

Dimensions at the end of the section.

HEATING INSTALLATIONS WITH LESS THAN 70 KW

CA 2096 - female/female

PRESSURE PFA 10 bar θ 65°

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 :  ACS  

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



Part Number	DN mm	UV
149B 3781	15	1
149B 3782	20	1

Dimensions at the end of the section.

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

Y333P - with PN10 flanges

PRESSURE PFA/PS en bar θ 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   PED 97/23/CE

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



Part Number	DN	PFA			PS				Cat	UV
		«	mm	water	L1	L2	G1	G2		
149B 3280	1 1/2	40	16	16	16	x	x	3.3	1	
149B 3281	2	50	16	16	16	x	x	3.3	1	
149B 3282	2 1/2*	65	16	16	16	x	x	3.3	1	
149B 3283	3**	80	16	16	16	x	x	3.3	1	
149B 3284	4	100	16	16	16	x	x	3.3	1	
149B 3285	5	125	16	16	16	x	x	3.3	1	
149B 3286	6	150	16	13	16	x	x	3.3	1	
149B 3287	8	200	10	10	10	x	x	3.3	1	
149B 3288	10	250	10	10	10	x	x	1	1	
149B 3289	12	300	10	10	10	x	x	1	1	
149B 3788	14	350	10	10	10	x	x	1	1	
149B 3791	16	400	10	10	10	x	x	1	1	

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

Dimensions at the end of the section.

Y222P - female/femalePRESSURE PFA 25 bar θ 110°

FILTER : brass

STRAINER : stainless steel

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

APPROVALS :



MESH Ø :

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



Part Number	DN mm	UV
149B 5950	1/2	1
149B 5160	3/4	1
149B 5161	1	1
149B 5191	1 1/4	1
149B 5162	1 1/2	1
149B 5163	2	1

Dimensions at the end of the section.

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).

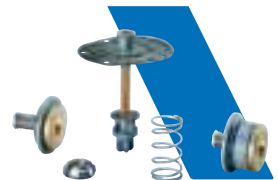


Part Number	For BABM	UV
149B 1391	149B 70000	1
149B 1391	149B 70001	1
149B 1393	149B 70002	1
149B 1393	149B 70003	1
149B 1395	149B 70004	1
149B 1395	149B 70005	1

SPARE PARTS FOR BACKFLOW PREVENTER**Kit for Backflow preventer BA4760**

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

Part Number	For BA4760	UV
149B 19	3486	1
149B 20	3097	1
149B 21	3098	1
149F 017922	3400	1
149B 25	3401	1
149B 25	3402	1



FOR TESTING AND SERVICING BACKFLOW PREVENTERS ON SITE

Testing Kit

Come in a shockproof case with manual, calibration certificate of the electronic gauge and maintenance procedure.

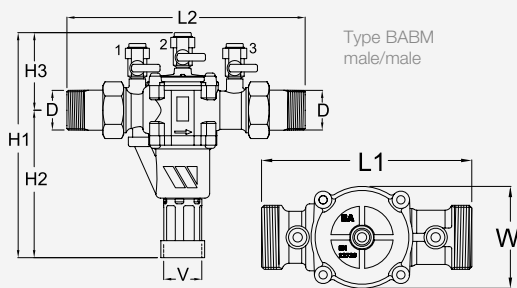
For Backflow preventers type BA : ø 15mm to 250 mm 



Part Number	UV
149B MC1022	1

OVERALL DIMENSIONS

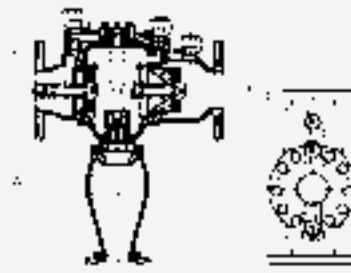
BABM



Type BABM male/male

DN	D	V	L1	L2	H1	H2	H3	W	Kg
mm	"	mm	mm	mm	mm	mm	mm	mm	
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

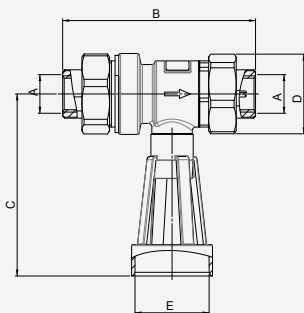
BA4760



Type BA4760 flanged

DN	Ø A	B	C	D	Ø E	Ø F	Kg
mm	mm	mm	mm	mm	mm	mm	
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

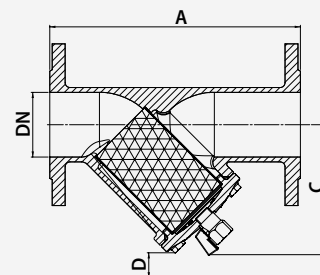
CA 2096



Type CA 2096 female/female

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

Y333P



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
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

OVERALL DIMENSIONS

Y222P



Type Y222P threaded

\varnothing	A	B	C	Mesh	Kg	KV	ζ
mm	mm	mm	mm	mm		m ³ /H	
15/21	63	60	40	0,5	0,18	2,7	10,33
20/27	96	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

Chapter 1.2

EA ANTIPOLLUTION NON-RETURN VALVES

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

EA271 - Threaded male/male

PRESSURE PFA/PS in bar θ 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 Other approvals available: 

SPECIAL : with sockets and nuts

01 SYSTEM



Part Number	DN «	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2300	1/2	10	10	10	10	10	3.3	10
149B 2201K	3/4	10	10	10	10	10	3.3	10
149B 2202K	1	10	10	10	10	10	3.3	10
149B 2203K	1 1/4	10	10	10	x	10	3.3	10
149B 2204K	1 1/2	10	10	10	x	10	3.3	6
149B 2205K	2	10	10	10	x	10	3.3	5

Dimensions at the end of the section.

EA253 - Threaded female/female

PRESSURE PFA/PS in bar θ 100°

CASING : Ductile iron with epoxy coating, Drilled BOSSES

CLOSING SYSTEM + STEM : DZR brass

SEAT + SPRING : Stainless steel

PLUGS : Brass

APPROVALS :     PED 97/23/CE
BELGAOJA

03 SYSTEM



Part Number	DN «	PFA water	PS				Cat	UV	
			F/F com	L1	L2	G1			G2
149B 3810	50	16	2 1/2	16	16	15	16	1	10
149B 3811	65	16	3	16	16	12	16	1	10

Dimensions at the end of the section.

EA221B - female/femalePRESSURE PFA/PS in bar θ 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

Part Number	DN «	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2171	3/4	10	10	10	10	10	3.3	10
149B 2172	1	10	10	10	10	10	3.3	10
149B 2173	1 1/4	10	10	10	x	10	3.3	10
149B 2174	1 1/2	10	10	10	x	10	3.3	6
149B 2175	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

FOR DRINKING WATER PROTECTION, CLEAR LIQUIDS, WATER, GAS**EA291NF - female/female**PRESSURE PFA/PS in bar θ 80°

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

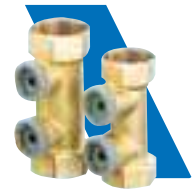
GUIDING + CLOSING SYSTEM : POM

SEAL : NBR

SPRING : stainless steel

APPROVALS :    ACS

01 SYSTEM



Part Number	DN «	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2220	1/2	10	10	10	10	10	3.3	10
149B 2212	3/4	10	10	10	10	10	3.3	10
149B 2222	1	10	10	10	10	10	3.3	10
149B 2213	1 1/4	10	10	10	x	10	3.3	10
149B 2214	1 1/2	10	10	10	x	10	3.3	10
149B 2215	2	10	10	10	x	10	3.3	6
149B 2216	2 conn. 2 1/2	10	10	10	x	10	3.3	2

Dimensions at the end of the section.

FOR DRINKING WATER PROTECTION AND WATER PROTECTION

EA453 - PN10/16

PRESSURE PFA/PS in bar θ 100°
 CASING : ductile iron with external/internal epoxy coating
 CLOSING SYSTEM + SHAFT : DZR brass
 VALVES + PLUG : Brass
 SEAT + SPRING : Stainless steel
 APPROVALS :



03 SYSTEM



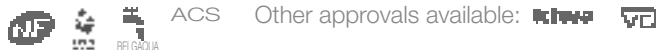
Part Number	DN «	PFA water	PS				Cat	UV	
			L1	L2	G1	G2			
149B3831W	40/50	16	16	16	16	16		1	
149B3832W	60/65	16	16	16	16	15	16		1
149B3833W	80	16	16	16	16	12	16		1
149B3834W	100	16	16	16	16	10	16		1
149B3836W	150	16	16	16	16	0,5	16		1
149B24871W	200	10	10	10	10	0,5	10		1
149B99957	250	10	10	10	10	0,5	10		1

Dimensions at the end of the section.

BUILDING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

EA223 - male/male

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 :



03 SYSTEM



Part Number	DN		PFA water	PS				Cat	UV
	mm	«		L1	L2	G1	G2		
149B 2890	15	1/2	16	16	16	16	16	3.3	1
149B 2891	20	3/4	16	16	16	16	16	3.3	1
149B 2892	25	1	16	16	16	16	16	3.3	1
149B 2893	32	1 1/4	16	16	16	x	16	3.3	1
149B 2894	40	1 1/2	16	16	16	x	16	3.3	1
149B 2895	50	2	16	16	16	x	16	3.3	1

Dimensions at the end of the section.

EA223D - male/male

PRESSURE PFA/PS in bar @ 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

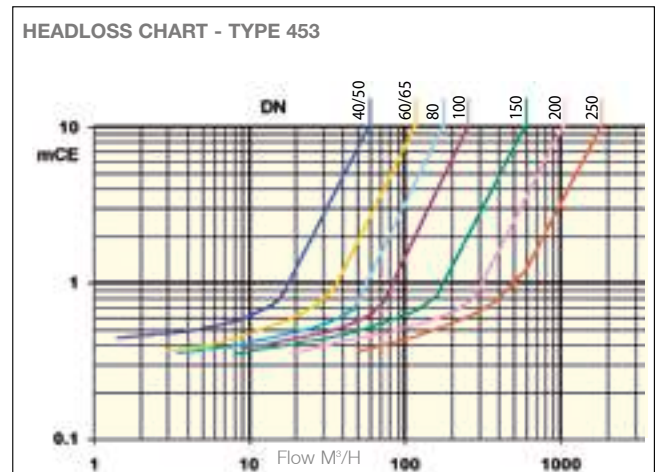
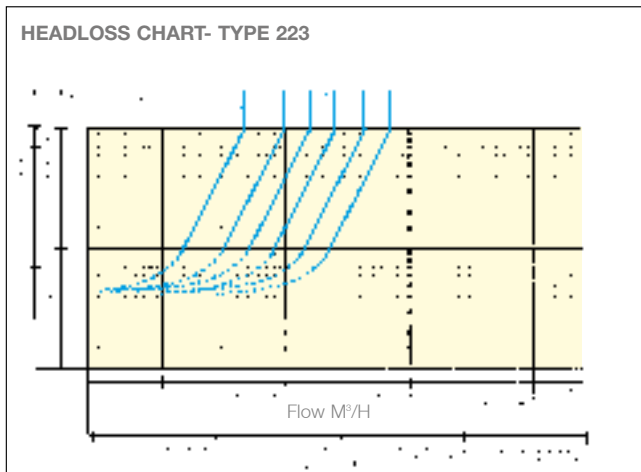


APPROVALS :    Other approvals available: 

03 SYSTEM

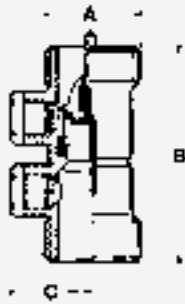
Part Number	DN		PFA water	PS				Cat	UV
	mm	«		L1	L2	G1	G2		
149B 2890 D	15	1/2	16	16	16	16	16	3.3	1
149B 2891 D	20	3/4	16	16	16	16	16	3.3	1
149B 2892 D	25	1	16	16	16	16	16	3.3	1
149B 2893 D	32	1 1/4	16	16	16	x	16	3.3	1
149B 2894 D	40	1 1/2	16	16	16	x	16	3.3	1
149B 2895 D	50	2	16	16	16	x	16	3.3	1

Dimensions at the end of the section.



OVERALL DIMENSIONS

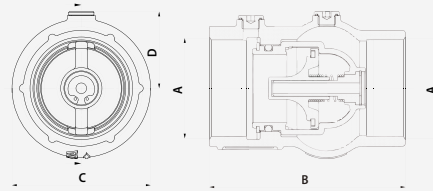
EA271



Type EA271
male/male

DN	A		B mm	C mm	Kg	KV m ³ /H	ζ
	"	mm					
1/2	3/4	20/27	65	20	0,24	5,05	3,10
3/4	1	26/34	75	30	0,18	9,20	2,96
1	1 ^{1/4}	33/42	90	34	0,34	14,50	2,75
1 ^{1/4}	1 ^{1/2}	40/49	110	38	0,52	25,50	2,50
1 ^{1/2}	2	50/60	120	41	0,73	35,00	3,30
2	2 ^{1/2}	66/76	150	49	1,33	56,50	3,06

EA253



Type EA253
female/female

"	A		B mm	C mm	D mm	KG
	F/F conn.					
50	2 ^{1/2}		147	104	58	2,6
65	3		199	146	94,5	4,8

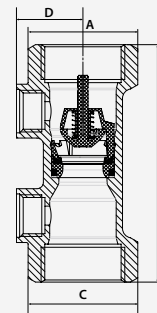
EA221B



Type EA221 B
female/female

"	A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
		mm						
3/4	20/27		78	30,5	32	0,24	12,5	1,6
1	26/34		93	32,5	41	0,46	19,6	1,6
1 1/4	33/42		113	39,5	50	0,74	33,1	1,5
1 1/2	40/49		120	41,0	55	0,85	46,0	1,9
2	50/60		150	48,0	70	1,44	84,0	1,4

EA291NF



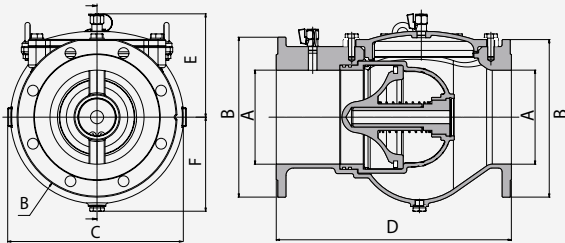
Type EA291NF
female/female

"	A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
		mm						
1/2	15/21		65	26	23	0,13	4,2	4,5
3/4	20/27		75	30	28	0,19	13,8	1,3
1	26/34		90	38	28	0,29	18,0	1,6
1 1/4	33/42		110	47	36	0,57	28,0	2,1
1 1/2	40/49		120	54	38	0,74	41,0	2,4
2	50/60		150	66	46	1,22	55,8	3,1
2 1/2	66/76		150	84	46	2,00	59,9	8,1

OVERALL DIMENSIONS

EA453

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

EA223

Type EA 223
male/male



DN "	A mm	B mm	C mm	Kg	KV m ³ /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

EA223D

Type EA 223 D
male/male



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

Chapter 1.3

EB ANTIPOLLUTION NON-RETURN VALVES

WATER DISTRIBUTION NETWORKS, PROTECTION OF DRINKING WATER NETWORKS

EB201 - Threaded female/male

PRESSURE PFA/PS in bar @ 80°



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 Other Approvals Available   



01 SYSTEM

Part Number	DN «	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2293	1/2	10	10	10	10	10	3.3	1
149B 2002	3/4	10	10	10	10	10	3.3	1
149B 2003	1	10	10	10	10	10	3.3	1

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION

EB241 - Threaded male/male

PRESSURE PFA/PS in bar @ 80°

CASING : brass

GUIDING + CLOSING SYSTEM : POM (polyacetal)

SEAL : NBR (nitrile) or EPDM lip-ring

SPRING : stainless steel

APPROVALS :   ACS Other Approvals Available 



01 SYSTEM

Part Number	DN «	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2014	1/4	10	10	10	10	10	3.3	1
149B 2015	3/8	10	10	10	10	10	3.3	1
149B 2008	1/2	10	10	10	10	10	3.3	1
149B 94105*	3/4	10	10	10	10	10	3.3	1

* with NBR Seal

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, INDUSTRY**EB261 - Threaded female/male**PRESSURE PFA/PS 10 bar θ 80°

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 Other Approvals Available 

01 SYSTEM

Part Number	DN	PFA water	PS				Cat	UV
	«		L1	L2	G1	G2		
149B 2210	1/2	10	10	10	10	10	3.3	1
149B 2011	3/4	10	10	10	10	10	3.3	1

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, HEATING**EB231 - Threaded female/female**PRESSURE PFA/PS in bar θ 80°

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 Other Approvals Available 

01 SYSTEM (Except ref. 2089 and 2090)



Part Number	DN	PFA water	PS				Cat	UV
	«		L1	L2	G1	G2		
149B 2069	3/8	10	10	10	10	10	3.3	10
149B 2089*	3/8	10	10	10	10	10	3.3	10
149B 2070	1/2	10	10	10	10	10	3.3	10
149B 2090*	1/2	10	10	10	10	10	3.3	10
149B 2091	3/4	10	10	10	10	10	3.3	10
149B 2092	1	10	10	10	10	10	3.3	10
149B 2093	1 1/4	10	10	10	x	10	3.3	10
149B 2094	1 1/2	10	10	10	x	10	3.3	6
149B 2095	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS

EB281 - Threaded male/female

PRESSURE PFA/PS in bar θ 80°
 CASING : brass
 GUIDING + CLOSING SYSTEM : POM (polyacetal) or PPO (Polyphenylene oxyd)
 SEAL : EPDM or NBR (nitrile) lip-ring
 SPRING : stainless steel
 APPROVALS :  ACS Other Approvals Available 






01 SYSTEM

Part Number	DN		PFA water	L1	PS		G2	Cat	UV
	M	F			L2	G1			
149B 2518	1/2	3/8	10	10	10	10	10	3.3	10
149B 2519	1/2	1/2	10	10	10	10	10	3.3	10
149B 2520	3/4	3/4	10	10	10	10	10	3.3	10
149B 2521	1	1	10	10	10	10	10	3.3	10

Dimensions at the end of the section.

EB281C - Threaded male/female

PRESSURE PFA/PS in bar θ 80°
 CASING : chrome plated brass
 GUIDING + CLOSING SYSTEM : POM (polyacetal)
 SEAL : EPDM or NBR (nitrile) lip-ring
 SPRING : stainless steel
 APPROVALS :  ACS  BELGAQUA Other Approvals Available 



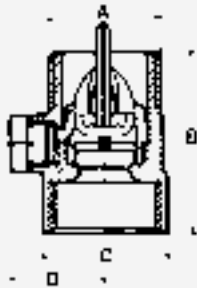
01 SYSTEM

Part Number	DN		PFA water	L1	PS		G2	Cat	UV
	M	F			L2	G1			
149B 2065	1/2	1/2	10	10	10	10	10	3.3	10
149B 2514*	3/4	3/4	10	10	10	10	10	3.3	10

Dimensions at the end of the section.

OVERALL DIMENSIONS

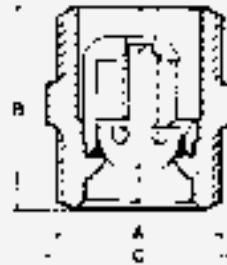
EB201



Type EB 201
female/male

	A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
	"	mm						
1/2	15/21	31	24	-	0,05	3,2	7,8	
3/4	20/27	50	30	27	0,20	4,3	13,6	
1	26/34	54	37	30	0,18	7,8	10,7	

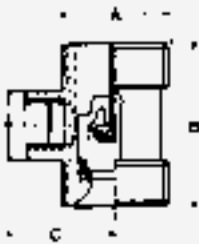
EB241



Type EB241
male/male

	A		B mm	C mm	Kg	KV m ³ /H	ζ
	"	mm					
1/4	8/13	39,0	20	0,05	0,8	10,03	
3/8	12/17	40,5	20	0,06	1,7	5,43	
1/2	15/21	26,0	24	0,04	3,4	6,90	
3/4	20/27	50,0	30	0,11	9,6	2,70	

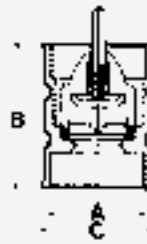
EB261



Type EB261
male/male

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

EB231



Type EB 231
female/female

	A		B mm	C mm	Kg	KV m ³ /H	ζ
	"	mm					
3/8	12/17	39	25,0	0,06	3,2	1,63	
1/2	15/21	41	30,0	0,10	4,4	4,10	
3/4	20/27	50	32,5	0,20	7,3	4,70	
1	26/34	54	39,0	0,17	12,4	4,00	
1 1/4	33/42	64	48,0	0,24	22,0	3,40	
1 1/2	40/49	78	55,0	0,36	29,0	4,80	
2	50/60	89	67,0	0,60	46,5	4,50	

EB281



Type EB 281
male/female

M "	A		B mm	C mm	Kg	KV m ³ /H	ζ
	F "						
1/2	3/8		30	22	0,05	3,2	7,7
1/2	1/2		30	26	0,07	3,9	5,2
3/4	3/4		38	30	0,08	10,6	2,2
1	1		41	38	0,17	15,9	2,4

EB281C



Type EB281C
male/female

M "	A		B mm	C mm	Kg	KV m ³ /H	ζ
	F "						
1/2	1/2		30	26	0,06	3,9	5,2
3/4	3/4		38	30	0,08	10,6	2,2

Chapter 1.4

EC AND ED DOUBLE CHECK VALVES

PROTECTION OF DRINKING WATER NETWORKS

EC453/453 - PN10/16

PRESSURE PFA in bar θ 65°

Double check valves made with 2 check valves type 453(*) coupled together.
03 SYSTEM



Part Number	DN		PFA water	UV
	“	mm		
149B99917	1 1/2	40/50	16	1
149B99918	2 1/2	60/65	16	1
149F049398	3	80	16	1
149F049399	4	100	16	1
149F049400	6	150	16	1
149F049610	8	200	10	1
149B99959	10	250	10	1

Dimensions at the end of the section.

PROTECTION OF DRINKING WATER NETWORKS, BUILDING


ED2231 - Drilled flanges female/female

PRESSURE PFA/PS in bar θ 80°

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 :  ACS

01 SYSTEM



Part Number	DN “	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2790	1/2	10	10	10	10	10	3.3	10
149B 2791	3/4	10	10	10	10	10	3.3	10
149B 2792	1	10	10	10	10	10	3.3	10
149B 2637	1 1/4	10	10	10	x	10	3.3	10
149B 2638	1 1/2	10	10	10	x	10	3.3	6
149B 2639	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

FOR DRINKING WATER PROTECTION, CLEAR LIQUIDS, WATER, GAS

ED2211 - Compression fitting

PRESSURE PFA/PS in bar θ 80°

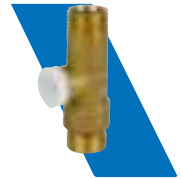
CASING : DZR brass, Drilled boss 1/4", POM (polyacetal) plug

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

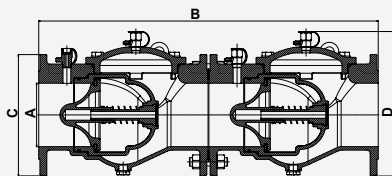


Part Number	DN	PFA	PS				Cat	UV
	"	water	L1	L2	G1	G2		
149B 2796	1/2	10	10	10	10	10	3.3	10

Dimensions at the end of the section.

OVERALL DIMENSIONS

EC453/453



Types EC 453/453 flanges

A		B mm	C mm	D mm	Kg
"	mm				
1 1/2	40-50	402	165	193	17
2 1/2	60-65	482	185	211	25
3	80	522	200	229	31
4	100	602	222	256	43
6	150	802	285	341	86
8	200	1002	340	420	132
10	250	1202	400	491	190

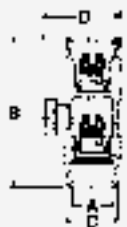
ED2231



Type ED2231 female/female

A		B mm	C mm	D mm	Kg	KV m³/H	ζ
"	mm						
1/2	15/21	59	26	38	0,130	2,4	13,80
3/4	20/27	90	32	43	0,280	5,0	10,03
1	26/34	105	40	49	0,500	9,3	7,4
1 1/4	33/42	146	48	57	0,700	19,0	4,55
1 1/2	40/49	175	55	62	1,010	25,0	6,42
2	50/60	196	67	77	1,560	36,8	7,23

ED2211



Type ED2211 compression fitting

A		B mm	C mm	D mm	Kg	KV m³/H	ζ
"	mm						
1/2	15	73	24	36	0,112	2,5	13,0

Chapter 2

Non-Return Systems

01 SYSTEM

02 SYSTEM

03 HP SYSTEM

05 HP SYSTEM

B SYSTEM

M & MI SYSTEM

TJ SYSTEM & TJO + FL + 04
SYSTEMS

W SYSTEMS

Chapter 2.1

01 SYSTEM

HOUSING, WATER DISTRIBUTION, HEATING, INDUSTRY

601 - threaded female/female

PRESSURE PFA/PS in bar T°C 80°

CASING : brass

CLOSING SYSTEM : POM (polyacetal)

GUIDE : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR

APPROVALS :  ACS



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2503	3/8	10	10	10	10	10	3.3	10
149B 2504	1/2	10	10	10	10	10	3.3	10
149B 2505	3/4	10	10	10	10	10	3.3	10
149B 2506	1	10	10	10	10	10	3.3	10
149B 2507	1 1/4	10	10	10	x	10	3.3	8
149B 2508	1 1/2	10	10	10	x	10	3.3	6
149B 2509	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

HEATING, CIRCULATING PUMPS, HYDROCARBONS PUMPING, INDUSTRY

601V - threaded female/female

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 : 



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2447	3/8	10	10	10	10	10	3.3	10
149B 2448	1/2	10	10	10	10	10	3.3	10
149B 2450	1	10	10	10	10	10	3.3	10
149B 2452	1 1/2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PUMPING**601P - threaded female/female to be stuck**

PRESSURE PFA/PS in bar T°C 60°

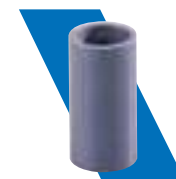
CASING : PVC

CLOSING SYSTEM : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR (nitrile) lip-ring

GUIDE : PPO (polyphenylen oxide)



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2044	1/2	10	10	10	10	10	3.3	1
149B 2045	1	10	10	10	10	10	3.3	1
149B 2046	1 1/4	10	10	10	x	10	3.3	1

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PROTECTION OF DRINKING WATER NETWORKS (AFTER WATERMETER)**EA251 threaded female/male**

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 :



Part Number	C	DN "	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 2111	15	3/4	10	10	10	10	10	3.3	10
149B 2112	20	1	10	10	10	10	10	3.3	10
149B 2113	25	1 1/4	10	10	10	10	10	3.3	10
149B 2114	30	1 1/2	10	10	10	x	10	3.3	6
149B 2115	40	2	10	10	10	x	10	3.3	6

C = watermeter

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PUMPING**281P threaded male/female**

PRESSURE PFA 10 bar T°C 65°

CASING : POM (polyacetal)

CLOSING SYSTEM + GUIDE : POM (polyacetal)

SPRING : stainless steel

SEAL : NBR (nitrile) lip-ring

APPROVAL :





Part Number	DN "	UV
149B 2292	1 1/4	1

Dimensions at the end of the section.

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

211 - with compression fittings


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 Other Approvals Available: 



Part Number	A mm external Ø pipe	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2079	8	10	10	10	10	10	3.3	10
149B 2080	10	10	10	10	10	10	3.3	10
149B 2081	12	10	10	10	10	10	3.3	10
149B 2082	15	10	10	10	10	10	3.3	10
149B 2083	22	10	10	10	10	10	3.3	10
149B 2084	28	10	10	10	x	10	3.3	10

Dimensions at the end of the section.

211BL - with compression fittings

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

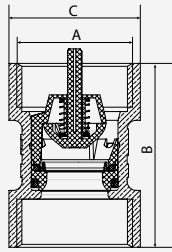


Part Number	A mm external Ø pipe	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3130	15	10	10	10	10	10	3.3	10
149B 3131	22	10	10	10	10	10	3.3	10

Dimensions at the end of the section.

OVERALL DIMENSIONS

601



Type 601 female/female

A		B mm	C mm	Kg	KV m ² /H	ζ
"	mm					
3/8	12/17	38	22	0,060	3,2	1,63
1/2	15/21	41	26	0,090	4,4	4,10
3/4	20/27	42	30	0,100	6,7	5,60
1	26/34	47	37	0,150	11,9	4,30
1 1/4	33/42	55	47	0,275	17,4	5,40
1 1/2	40/49	78	55	0,315	29,0	4,80
2	50/60	89	67	0,490	46,5	4,50

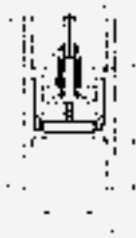
601V



Type 601V female/female

A		B mm	C mm	Kg	KV m ² /H	ζ
"	mm					
3/8	12/17	38	22	0,060	3,2	1,63
1/2	15/21	41	26	0,090	4,4	4,10
1	26/34	47	37	0,150	11,9	4,30
1 1/2	40/49	78	55	0,315	29,0	4,80

601P



Type 601P female/female

A mm	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

EA251

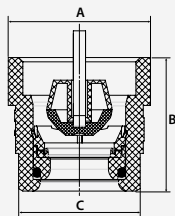


Type EA251 female/male

DN		A mm	B mm	C mm	D mm	E mm	Kg	KV m ² /H	ζ
C	R "								
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

281P



Type 281P male/female

A		B mm	C mm	Kg	KV m ² /H	ζ
Male "	Female "					
1 1/4	1 1/4	46	49	0,048	16,7	5,9

211



Type 211 with compression fittings

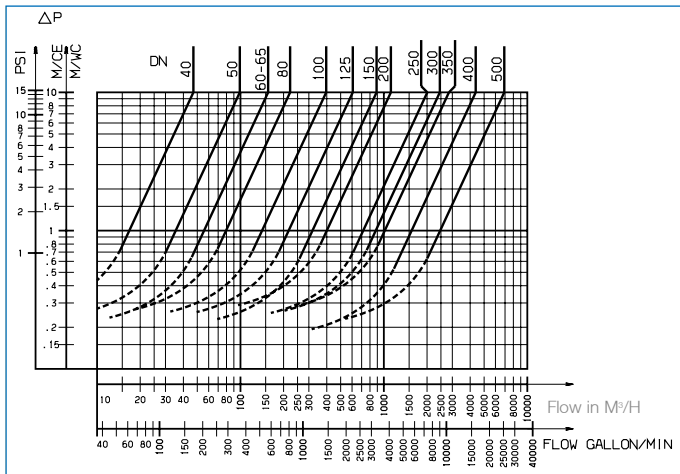
A mm	B mm	C mm	E mm	Kg	KV m ² /H	ζ
8	54,0	20	6,0	0,070	0,80	3,2
10	57,5	20	7,5	0,095	1,70	5,4
12	59,0	20	7,5	0,070	2,65	4,6
15	61,0	24	12,5	0,110	2,90	9,4
22	64,0	32	12,5	0,160	5,50	12,1
28	64,0	41	12,5	0,240	8,60	13,0

Chapter 2.2

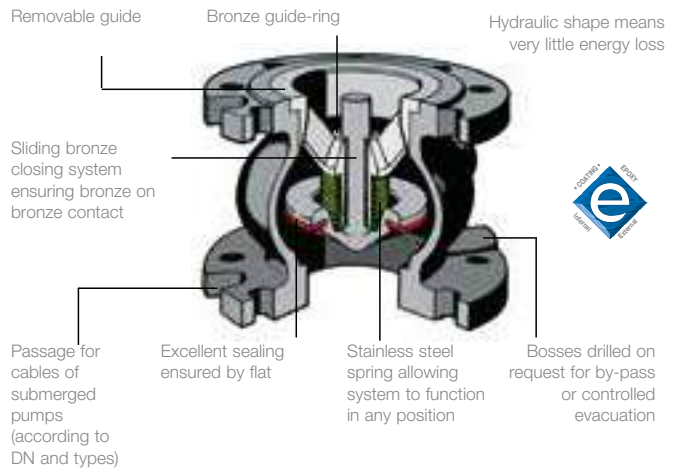
02 SYSTEM

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

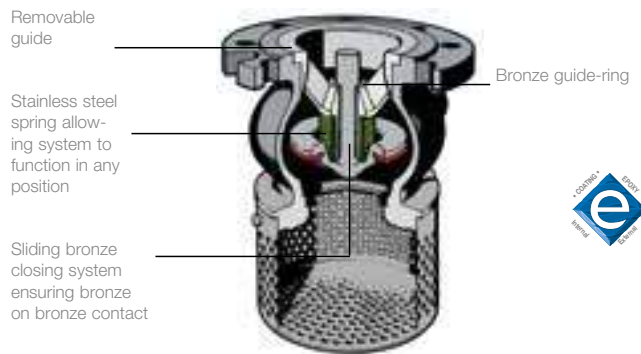
HEADLOSS CHART TYPE 402



NON-RETURN VALVE



FOOT VALVES



Type	Cast Iron + Epoxy	Cast Iron + Teflon	Cast Iron + Bronze + Epoxy	Cast Iron + Polyamide	Bronze	Stainless Steel	Threaded	With Flanges	Non Return Valve	Foot Valve
462	•							462 50 - 200 mm	•	
402/202	•						202 F/F - 2 1/2 - 4"	402 40 - 500 mm	•	
302/102	•						102 F - 2 1/4 - 8"	302 50 - 500 mm		•
402 V / 202 V	•						202 V F/F - 2 1/2 - 4"	402 V 40 - 250 mm	•	
302 V	•							302 V 50 - 250 mm		•
302 PV / 102 PV	•						102 PV F - 2 1/4 - 4"	302 PV 50 - 100 mm		•
402 TTP / 202 TTP			•				202 TTP F - 2 1/2 - 4"	402 TTP 50 - 400 mm	•	
412 / 212	•						212 - 2 1/2 - 8"	412 125 - 300 mm	•	
312	•							312 125 - 400 mm		•
412 S / 212 S	•						212 S - 2 1/2 - 8"	412 S 125 - 300 mm	•	
422			•					50 - 400 mm	•	
322			•					50 - 400 mm		•
402 B	•							40 - 500 mm	•	
402 RR				•				40 - 500 mm	•	
402 Z					•			40 - 400 mm	•	
302 Z					•			50 - 100 mm		•
402 S	•							40 - 500 mm	•	
402 X						•		40 - 400 mm	•	
302 X						•		50 - 400 mm		•
882	•					•		65 - 250 mm	•	
892	•							80 - 500 mm	•	

WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

462 with PN 10 flanges

PRESSURE PFA/PS in bar θ 100°

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

Face to face dimensions according to EN558-1 series 14

SEAL : EPDM

CLOSING SYSTEM : Brass

RING + STEM : Bronze - SPRING : Stainless steel

APPROVALS :  PED 97/23/CE  



Part Number	DN "	mm	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 3751	2	50	16	16	16	16	16	I	I
149B 3752	2 1/2	65	16	16	16	15	16	I	I
149B 3753	3	80	16	16	16	12	16	I	I
149B 3754	4	100	16	16	16	10	16	I	I
149B 3755	5	125	16	16	16	0,5	16	I	I
149B 3756	6	150	16	13	16	0,5	16	I	I
149B 3757	8	200	10	10	10	0,5	10	I	I

Dimensions at the end of the section.

402 with PN 10 flanges

PRESSURE PFA/PS in bar θ 100°

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

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

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

APPROVALS :   PED 97/23/CE  Other Approvals available: 



WRAS Approved as a Non-return device only, not suitable for Backflow Prevention

Part Number	DN "	m	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B2281	1 1/2	40	16	16	16	16	16	I	1
149B2282	2	50	16	16	16	16	16	I	1
149B2283	2 1/2	65	16	16	16	15	16	I	1
149B2284	3	80	16	16	16	12	16	I	1
149B2285	4	100	16	16	16	10	16	I	1
149B2226	5	125	16	16	16	0,5	16	I	1
149B2227	6	150	16	13	16	0,5	16	I	1
149B2229	8	200	10	10	10	10	10	II	1
149B002849*	8	200	10	10	10	10	10	II	1
149B2230	10	250	10	10	10	10	10	II	1
149B002851*	10	250	10	10	10	10	10	II	1
149B2231	12	300	10	10	10	10	10	II	1
149B002853*	12	300	10	10	10	10	10	II	1
149B2232	14	350	10	10	10	0,5	10	II	1
149B2233	16	400	10	10	10	0,5	10	II	1
149B2235	20	500	10	10	10	0,5	10	II	1

* Special PN16 drilled variant, still 10 bar rated

Dimensions at the end of the section.

BUILDING INDUSTRY, WATER SUPPLY, PROTECTION OF DRINKING WATER NETWORKS

402B/402 with PN10 flanges

PRESSURE PFA/PS in bar @ 100°

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

APPROVALS :  02 SYSTEM



Part Number	DN		PFA water	UV
	“	m		
149B 16023	2	50	16	1
149B 16024	2 1/2	65	16	1
149B 16025	3	80	16	1
149B 16026	4	100	16	1
149F 020400	5	125	16	1
149B 16028	6	150	16	1
149B 96175	8	200	10	1
149B 97019	10	250	10	1
149B 97020	12	300	10	1
149B 97021	14	350	10	1
149B 97022	16	400	10	1

Dimensions at the end of the section.

WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

202 female/female

PRESSURE PFA/PS in bar @ 100°

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

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

CLOSING SYSTEM : DN 2” 1/2 & 3” bronze, DN4” cast iron with bronze stem

GUIDING : DN2” 1/2 bronze, other DN cast iron with bronze ring

APPROVALS :  ACS  PED 97/23/CE Other Approvals available: 

OPTIONS : 202B two drilled and plugged bosses

202Z all bronze

202RR rilsan coated



Part Number	DN		PFA water	PS				Cat	UV
	“	m		L1	L2	G1	G2		
149B 2286	2 1/2	65	16	16	16	15	16	I	1
149B 2287	3	80	16	16	16	12	16	I	1
149B 2288	4	100	16	16	16	10	16	I	1

Dimensions at the end of the section.

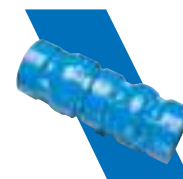
BUILDING INDUSTRY, WATER SUPPLY, PROTECTION OF DRINKING WATER NETWORKS

202B/212 female/female

PRESSURE PFA/PS in bar θ 100°

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.

APPROVALS :



O2 SYSTEM

Part Number	“	DN	PFA water	UV
		m		
149B 96171	2 ^{1/2}	65	16	1
149B 96172	3	80	16	1
149B 96173	4	100	16	1

Dimensions at the end of the section.

BOOSTING UNITS PUMPING, WATER DISTRIBUTION, INDUSTRY

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

PRESSURE PFA 40 bar / PS in bar θ 100°

CASING : GJS ductile iron epoxy coated

SEAL : EPDM

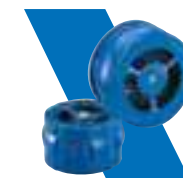
CLOSING SYSTEM : DN 65 bronze, other DN cast iron

GUIDING SYSTEM : cast iron, bronze guiding ring

APPROVALS : PED 97/23/CE ACS

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



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

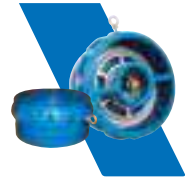


Part Number	“	DN	PFA water	PS				Cat	UV
		mm		L1	L2	G1	G2		
149B 3040	2 ^{1/2}	65	40	30	40	15	40	I	1
149B 3040C2	2 ^{1/2}	65	40	40	40	40	40	II	1
149B 3041	3	80	40	25	40	12	40	I	1
149B 3041C2	3	80	40	40	40	40	40	II	1
149B 3042	4	100	40	20	40	10	40	I	1
149B 3042C2	4	100	40	40	40	40	40	II	1
149B 3043	5	125	40	16	40	0,5	28	I	1
149B 3043C2	5	125	40	40	40	28	40	II	1
149B 3044	6	150	40	13	40	0,5	23	I	1
149B 3044C2	6	150	40	40	40	23	33	II	1
149B 3045*	8	200	16	16	16	16	16	II	1
149B 007936**	8	200	25	25	25	17	25	II	1
149B 007937***	8	200	40	40	40	17	25	II	1
149B 3046****	10	250	40	40	40	14	20	II	1
149B 007938**	10	250	25	25	25	14	20	II	1

Dimensions at the end of the section.

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

PRESSURE PFA/PS in bar θ 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






Part Number	DN "	mm	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 2731	3	80	40	25	40	12	40	I	1
149B 2732	4	100	40	20	40	10	35	I	1
149B 2734	6	150	25	13	25	0,5	23	I	1
149B 2735	6	150	40	13	40	0,5	23	I	1
149B 2467	8	200	16	10	16	0,5	16	I	1
149B 032459	8	200	40	10	40	0,5	17	I	1
149B 2468	10	250	25	10	25	0,5	14	I	1
149B 032460	10	250	40	10	40	0,5	14	I	1
149B 2460	12	300	25	10	25	0,5	11	I	1
149B 2461	14	350	16	10	16	0,5	10	I	1
149B 032461	14	350	25	10	25	0,5	10	I	1
149B 2462	16	400	25	10	25	0,5	8	I	1
149B 2463	20	500	25	10	25	0,5	7	I	1

Dimensions at the end of the section.

PROTECTION OF DRINKING WATER NETWORKS, WATER DISTRIBUTION, INDUSTRY

402B with PN10 flanges

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 402
 APPROVALS :  ACS  PED 97/23/CE Other approval available: 



Part Number	DN "	mm	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 2281 B	1 1/2	40	16	16	16	16	16	I	1
149B 2351	2	50	16	16	16	16	16	I	1
149B 2352	2 1/4	60	16	16	16	15	16	I	1
149B 2353	2 1/2	65	16	16	16	15	16	I	1
149B 2354	3	80	16	16	16	12	16	I	1
149B 2355	4	100	16	16	16	10	16	I	1
149B 2226 B	5	125	16	16	16	0,5	16	I	1
149B 2227 B	6	150	16	13	16	0,5	16	I	1
149B 2229 B	8	200	10	10	10	0,5	10	I	1
149B 2230 B	10	250	10	10	10	0,5	10	I	1
149B 2231 B	12	300	10	10	10	0,5	10	I	1
149B 2232 B	14	350	10	10	10	0,5	10	I	1
149B 2233 B	16	400	10	10	10	0,5	8	I	1
149B 2235 B	20*	500	10	10	10	0,5	7	I	1

*Casing : GJS ductile iron epoxy coated

Dimensions at the end of the section.

FOOD INDUSTRY, WATER DISTRIBUTION AND INDUSTRY

402RR with PN10 flanges

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 ring

APPROVALS :   PED 97/23/CE Other Approval Available : 



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2281 RR	11/2	40	16	16	16	16	16	I	I
149B 2282 RR	2	50	16	16	16	16	16	I	I
149B 2283 RR	2 1/2	65	16	16	16	15	16	I	I
149B 2284 RR	3	80	16	16	16	12	16	I	I
149B 2285 RR	4	100	16	16	16	10	16	I	I
149B 2226 RR	5	125	16	16	16	0,5	16	I	I
149B 2227 RR	6	150	16	13	16	0,5	16	I	I
149B 2229 RR	8	200	10	10	10	0,5	10	I	I
149B 2230 RR	10	250	10	10	10	0,5	10	I	I
149B 2231 RR	12	300	10	10	10	0,5	10	I	I
149B 2232 RR	14	350	10	10	10	0,5	10	I	I
149B 2233 RR	16	400	10	10	10	0,5	8	I	I
149B 2235 RR	20	500	10	10	10	0,5	7	I	I

Dimensions at the end of the section.

HIGH PRESSURE, PUMPING, WATER DISTRIBUTION, INDUSTRY

402S with PN25-40 flanges

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 iron

GUIDE + SEAL the same as valve type 402

APPROVALS :   PED 97/23/CE
ACS




Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2281GS	11/2	40	40	40	40	25	40	I	1
149B 018804	11/2	40	40	40	40	40	40	II	1
149B 2282GS	2	50	40	40	40	20	40	I	1
149B 018805	2	50	40	40	40	40	40	II	1
149B 2283GS	2 1/2	65	40	30	40	15	40	I	1
149B 018806	2 1/2	65	40	40	40	40	40	II	1
149B 2284GS	3	80	40	25	40	12	40	I	1
149B 018810	3	80	40	40	40	40	40	II	1
149B 2285GS	4	100	40	20	40	10	40	I	1
149B 018811	4	100	40	40	40	40	40	II	1
149B 2226GS	5	125	40	16	40	0,5	28	I	1
149B 018812	5	125	40	40	40	28	40	II	1
149B 2227GS	6	150	40	13	40	0,5	23	I	1
149B 018813	6	150	40	40	40	23	33	II	1
149B 2229GS	8	200	25	25	25	17	25	II	1
149B 2230GS	10	250	25	25	25	14	20	II	1
149B 2231GS	12	300	25	25	25	11	16	II	1
149B 2232GS	14	350	25	25	25	10	14	II	1
149B 2233GS	16	400	25	25	25	0,5	12	II	1
149B 24822	18	450	25	10	25	0,5	7	I	1
149B 2235GS	20	500	25	25	25	0,5	10	II	1

Dimensions at the end of the section.

CORROSIVE ENVIRONMENTAL OR CORROSIVE PRODUCTS

402Z with PN10 flanges

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 : 




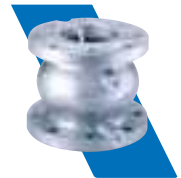
Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2337	1 1/2	40	25	25	25	25	25	I	1
149B 2342	2	50	25	25	25	20	25	I	1
149B 2343	2 1/2	65	16	16	16	15	16	I	1
149B 2344	3	80	16	16	16	12	16	I	1
149B 2345	4	100	16	16	16	10	16	I	1
149B 15280	5	125	16	16	16	0,5	16	I	1
149B 15364	6	150	16	13	16	0,5	16	I	1
149B 15365	8	200	10	10	10	0,5	10	I	1
149B 15719	10	250	10	10	10	0,5	10	I	1
Special	12	300	10	10	10	0,5	10	I	1
Special	14	350	10	10	10	0,5	10	I	1
149B 24862	16	400	10	10	10	0,5	8	I	1

Dimensions at the end of the section.

CHEMISTRY, CORROSIVE PRODUCTS, HYDROCARBONS, INDUSTRY

402X with PN10 flanges

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 : 



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149F 016092	1 1/2	40	16	16	16	16	16	I	1
149B 95002	2	50	16	16	16	16	16	I	1
149B 97270	2 1/2	65	16	16	16	15	16	I	1
149B 94084	3	80	16	16	16	16	16	II	1
149F 016328	4	100	16	16	16	16	16	II	1
149B 14977	5	125	16	16	16	16	16	II	1
149F 017723	6	150	16	16	16	16	16	II	1
149B 24101	8	200	10	10	10	10	10	II	1
149F 020389	10	250	10	10	10	10	10	II	1
149B 24682	12	300	10	10	10	10	10	II	1
149B 97276	14	350	10	10	10	10	10	II	1
149B 97277	16	400	10	10	10	0,5	10	II	1

Dimensions at the end of the section.

CORROSION RESISTANT, PUMPING, WATER DISTRIBUTION, INDUSTRY**422 with PN10 flanges**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 coated

APPROVALS :   ACS

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2679	2	50	16	16	16	16	16	I	1
149B 2680	2 1/2	65	16	16	16	15	16	I	1
149B 2681	3	80	16	16	16	12	16	I	1
149B 2682	4	100	16	16	16	10	16	I	1
149B 2683	5	125	16	16	16	0,5	16	I	1
149B 2684	6	150	16	13	16	0,5	16	I	1
149B 2685	8	200	10	10	10	0,5	10	I	1
149B 2686	10	250	10	10	10	0,5	10	I	1
149B 2687	12	300	10	10	10	0,5	10	I	1
149B 2688	14	350	10	10	10	0,5	10	I	1
149B 2689	16	400	10	10	10	0,5	8	I	1




Dimensions at the end of the section.

INDUSTRIAL SERVICES, INDUSTRYPRESSURE 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 coated

APPROVALS :   Other approvals available : **402TTP with PN10 flanges**

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2853	2	50	16	16	16	16	16	I	1
149B 2854	2 1/2	65	16	16	16	15	16	I	1
149B 2855	3	80	16	16	16	12	16	I	1
149B 2856	4	100	16	16	16	10	16	I	1
149B 2857	5	125	16	16	16	0,5	16	I	1
149B 2858	6	150	16	13	16	0,5	16	I	1
149B 2859	8	200	10	10	10	0,5	10	I	1
149B 2860	10	250	10	10	10	0,5	10	I	1
149B 2861	12	300	10	10	10	0,5	10	I	1
149B 2862	14	350	10	10	10	0,5	10	I	1
149B 2863	16	400	10	10	10	0,5	8	I	1


Dimensions at the end of the section.

202TTP female/female

Part Number	DN	PFA water	L1	PS			Cat	UV
	“			L2	G1	G2		
149B 2850	2 1/2	16	16	16	15	16	1	I
149B 2851	3	16	16	16	12	16	1	I
149B 2852	4	16	16	16	10	16	1	I



INDUSTRIAL SERVICES, HYDROCARBONS AND INDUSTRY

PRESSURE PFA/PS in bar @ 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 with PN10 flanges

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2281 V	1 1/2	40	16	16	16	16	16	I	1
149B 2346	2	50	16	16	16	16	16	I	1
149B 2347	2 1/2	65	16	16	16	15	16	I	1
149B 2348	3	80	16	16	16	12	16	I	1
149B 2349	4	100	16	16	16	10	16	I	1
149B 2226 V	5	125	16	16	16	0,5	16	I	1
149B 2227 V	6	150	16	13	16	0,5	16	I	1
149B 2229 V	8	200	10	10	10	0,5	10	I	1
149B 2230 V	10	250	10	10	10	0,5	10	I	1
149B 2231 V	12	300	10	10	10	0,5	10	I	1





202V female/female

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2356	2 1/2		16	16	16	15	16	I	I
149B 2357	3		16	16	16	12	16	I	I
149B 2358	4		16	16	16	10	16	I	I



Dimensions at the end of the section.

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION

PRESSURE PFA/PS in bar @ 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 with PN16 flanges

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2254	5	125	16	16	16	0,5	16	I	1
149B 2255	6	150	16	13	16	0,5	16	I	1
149B 2256	8	200	16	10	16	0,5	16	I	1
149B 2277	10	250	16	10	16	0,5	14	I	1
149B 2278	12	300	16	10	16	0,5	11	I	1

212 male/female

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2454	2 1/2		16	16	16	15	16	I	1
149B 2455	3		16	16	16	12	16	I	1
149B 2456	4		16	16	16	10	16	I	1
149B 2257	5		16	16	16	0,5	16	I	1
149B 2258	6		16	13	16	0,5	16	I	1
149B 2259	8		16	10	16	0,5	16	I	1



Dimensions at the end of the section.

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION, HIGH PRESSUREPRESSURE PFA 40 bar / PS in bar θ 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 :   ACS**412S with PN40 flanges**

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2254 GS	5	125	40	16	40	0,5	28	I	1
149B 2255 GS	6	150	40	13	40	0,5	23	I	1
149F 017096	8	200	40	10	40	0,5	17	I	1
149B 2277 GS	10	250	40	10	40	0,5	14	I	1
149B 2278 GS	12	300	40	10	40	0,5	11	I	1

Dimensions at the end of the section.

212S male/female

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2454 GS	2 1/2		40	30	40	15	40	I	1
149B 2455 GS	3		40	25	40	12	40	I	1
149B 2456 GS	4		40	20	40	10	35	I	1
149B 2257 GS	5		40	16	40	0,5	28	I	1
149B 2258 GS	6		40	13	40	0,5	23	I	1
149B 2259 GS	8		40	10	40	0,5	17	I	1

**FOOT VALVES - PUMPING, CLEAR WATER****302 with PN10 flanges**PRESSURE PFA / PS in bar θ 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 :   ACS

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2754	2	50	16	16	16	x	x	3.3	1
149B 2755	2 1/2	65	16	16	16	x	x	3.3	1
149B 2756	3	80	16	16	16	x	x	3.3	1
149B 2757	4	100	16	16	16	x	x	3.3	1
149B 2701	5	125	10	10	10	x	x	3.3	1
149B 2702	6	150	10	10	10	x	x	3.3	1
149B 2703	8	200	10	10	10	x	x	3.3	1
149B 2704	10	250	10	10	10	x	x	I	1
149B 2705	12	300	10	10	10	x	x	I	1
149B 2706	14	350	10	10	10	x	x	I	1
149B 2707	16	400	10	10	10	x	x	I	1
149B 23135	20	500	10	10	10	x	x	I	1

Dimensions at the end of the section.

302 with PN10 flanges - Stainless Steel version

PRESSURE PFA / PS in bar θ 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 : Stainless Steel 304L
 OPTIONS : Also available on special request for strainer in stainless steel AISI 316L
 APPROVALS :



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 15094	2	50	16	16	16	x	x	3.3	1
149B 15001	2 ^{1/2}	65	16	16	16	x	x	3.3	1
149B 14999	3	80	16	16	16	x	x	3.3	1
149B 15428	4	100	16	16	16	x	x	3.3	1
149B 15002	5	125	10	10	10	x	x	3.3	1
149B 15424	6	150	10	10	10	x	x	3.3	1
149B 15036	8	200	10	10	10	x	x	3.3	1
149B 14906	10	250	10	10	10	x	x	1	1
149B 15505	12	300	10	10	10	x	x	1	1
149B 97244	14	350	10	10	10	x	x	1	1
149B 15737	16	400	10	10	10	x	x	1	1

Dimensions at the end of the section.

102 female

PRESSURE PFA / PS in bar θ 100°
 CASING : GJL cast iron epoxy coated
 CLOSING SYSTEM : 2" to 3" in bronze, other DN in cast iron with stem in bronze
 GUIDE : 2"1/4 to 2"1/2 in bronze, other DN in cast iron with bronze ring
 SPRING : stainless steel - SEAL : EPDM
 STRAINER : galvanised steel
 APPROVAL :



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2766	2 ^{1/4}	16	16	16	x	x	3.3	1
149B 2767	2 ^{1/2}	16	16	16	x	x	3.3	1
149B 2768	3	16	16	16	x	x	3.3	1
149B 2769	4	16	16	16	x	x	3.3	1
149B 1162	5	16	16	16	x	x	3.3	1
149B 1163	6	16	13	16	x	x	3.3	1
149B 1164	7	16	10	16	x	x	3.3	1
149B 1165	8	16	10	16	x	x	3.3	1

Dimensions at the end of the section.

302P with PN10 flange

PRESSURE PFA / PS in bar @ 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

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2746	2	50	16	16	16	x	x	3.3	1
149B 2747	2 ^{1/2}	65	16	16	16	x	x	3.3	1
149B 2748	3	80	16	16	16	x	x	3.3	1
149B 2749	4	100	16	16	16	x	x	3.3	1

Dimensions at the end of the section.

102P female

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2758	2 ^{1/4}	16	16	16	16	x	x	3.3	1
149B 2759	2 ^{1/2}	16	16	16	16	x	x	3.3	1
149B 2760	3	16	16	16	16	x	x	3.3	1
149B 2761	4	16	16	16	16	x	x	3.3	1

Dimensions at the end of the section.

**FOOT VALVES - PUMPING, HYDROCARBONS****302PV with PN10 flange**

PRESSURE PFA / PS in bar @ 80°

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 : 

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2750	2	50	16	16	16	x	x	3.3	1
149B 2751	2 ^{1/2}	65	16	16	16	x	x	3.3	1
149B 2752	3	80	16	16	16	x	x	3.3	1
149B 2753	4	100	16	16	16	x	x	3.3	1

Dimensions at the end of the section.


102PV female

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2762	2 ^{1/4}	16	16	16	16	x	x	3.3	1
149B 2763	2 ^{1/2}	16	16	16	16	x	x	3.3	1
149B 2764	3	16	16	16	16	x	x	3.3	1
149B 2765	4	16	16	16	16	x	x	3.3	1

Dimensions at the end of the section.



302V with PN10 flange

PRESSURE PFA / PS in bar θ 100°
 CASING : GJL cast iron epoxy coated
 CLOSING SYSTEM + GUIDING SYSTEM : same as valves type 302-102
 SPRING : stainless steel
 SEAL : FKM
 STRAINER : galvanised steel
 APPROVAL : 



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 14677	2	50	16	16	16	x	x	3.3	1
149B 14496	2 1/2	65	16	16	16	x	x	3.3	1
149B 14678	3	80	16	16	16	x	x	3.3	1
149B 14879	4	100	16	16	16	x	x	3.3	1
149B 14767	5	125	10	10	10	x	x	3.3	1
149B 14506	6	150	10	10	10	x	x	3.3	1
149B 14515	8	200	10	10	10	x	x	3.3	1
149B 23078	10	250	10	10	10	x	x		1
149B 15238	12	300	10	10	10	x	x		1
149B 22178	14	350	10	10	10	x	x		1

Dimensions at the end of the section.

CLEAR WATER PUMPING

312 with PN16 flange

PRESSURE PFA / PS in bar θ 100°
 CASING : GJL cast iron epoxy coated
 CLOSING SYSTEM + GUIDING SYSTEM : same as valve type 302
 SPRING : stainless steel
 SEAL : EPDM
 STRAINER : galvanised steel
 APPROVALS :  



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2720	5	125	16	16	16	x	x	3.3	1
149B 2721	6	150	16	13	16	x	x	3.3	1
149B 2722	8	200	16	10	16	x	x	3.3	1
149B 2723	10	250	16	10	16	x	x		1
149B 2724	12	300	16	10	16	x	x		1
149B 2725	14	350	16	10	16	x	x		1
149B 2726	16	400	16	10	16	x	x		1

Dimensions at the end of the section.

FOOT VALVES - CLEAR AND AGRESSIVE WATER PUMPING

322 with PN10 flange

PRESSURE PFA / PS in bar θ 100°

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 :



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2616	2	50	16	16	16	x	x	3.3	1
149B 2617	2 ^{1/2}	65	16	16	16	x	x	3.3	1
149B 2618	3	80	16	16	16	x	x	3.3	1
149B 2619	4	100	16	16	16	x	x	3.3	1
149B 2620	5	125	16	16	16	x	x	3.3	1
149B 2621	6	150	16	13	16	x	x	3.3	1
149B 2622	8	200	10	10	10	x	x	3.3	1
149B 2623	10	250	10	10	10	x	x	1	1
149B 2624	12	300	10	10	10	x	x	1	1
149B 2625	14	350	10	10	10	x	x	1	1
149B 2626	16	400	10	10	10	x	x	1	1

Dimensions at the end of the section.

FOOT VALVES - PUMPING OF CORROSIVE MEDIUM INDUSTRIAL PROCESS, HYDROCARBONS

302X with PN10 flange

PRESSURE PFA / PS in bar θ 140°

CASING : stainless steel (304)

CLOSING SYSTEM + GUIDING SYSTEM : stainless steel (304)

SPRING : stainless steel

SEAL : FKM

STRAINER : stainless steel (304)

APPROVALS :




OPTIONS : Also available on special request in stainless steel AISI 304L, 316 L, Super Duplex

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 14714	2	50	16	16	16	x	x	3.3	1
149B 14715	2 ^{1/2}	65	16	16	16	x	x	3.3	1
149B 14716	3	80	16	16	16	x	x	3.3	1
149B 14717	4	100	16	16	16	x	x	3.3	1
149B 14718	5	125	16	16	16	x	x	3.3	1
149B 14434	6	150	16	13	16	x	x	3.3	1
149B 14719	8	200	10	10	10	x	x	3.3	1
149B 14720	10	250	10	10	10	x	x	1	1
Special	12	300	10	10	10	x	x	1	1
Special	14	350	10	10	10	x	x	1	1
Special	16	400	10	10	10	x	x	1	1

Dimensions at the end of the section.

FOOT VALVES - AGRESSIVE MEDIUMS PUMPING, SALTED SOLUTIONS, SEA WATER

302Z with PN10 flange

PRESSURE PFA / PS in bar θ 80°
 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 :  ACS



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2776	2	50	25	25	25	x	x	3.3	1
149B 2777	2 1/2	65	16	16	16	x	x	3.3	1
149B 2778	3	80	16	16	16	x	x	3.3	1
149B 2779	4	100	16	16	16	x	x	3.3	1
149B 14925	5	125	16	16	16	x	x	3.3	1
149B 15032	6	150	16	16	16	x	x	3.3	1
149B 15917	8	200	16	16	16	x	x	3.3	1
149B 24322	10	250	16	16	16	x	x	3.3	1
Special	12	300	16	16	16	x	x	3.3	1
149B 24545	14	350	16	16	16	x	x	3.3	1
149B 24521	16	400	16	16	16	x	x	3.3	1

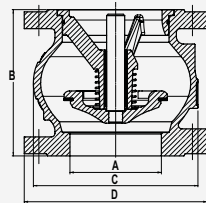
Dimensions at the end of the section.

OVERALL DIMENSIONS

Types

402 - 402B - 402V
402RR - 402S* - 402Z
402TTP - 422

with flanges



A		B mm	C mm	D mm	D 402S	Kg	KV m³/H	ζ
"	mm							
11/2	40	85	80	150	150	4,2	47	1,80
2	50	100	97	165	165	5,8	99	1,00
21/4	60	120	125	185	185	8,1	159	1,10
21/2	65	120	125	185	185	8,1	159	1,10
3	80	140	150	200	200	10,2	222	1,30
4	100	170	187	220	235	14,5	396	1,00
5	125	200	220	250	270	24	619	1,00
6	150	230	250	285	300	32	890	1,00
8	200	289	340	340	360	53	1120	2,00
10	250	354	420	405	425	94	2010	1,50
12	300	396	490	460	485	140	2459	2,10
14	350	473	586	533	555	225	2843	2,90
16	400	560	680	597	620	312	4370	2,10
18*	450	560	684	-	670	342	4370	2,10
20	500	750	880	670	670	540	6914	2,05

* only for type 402S

Type 402B/402 flanges

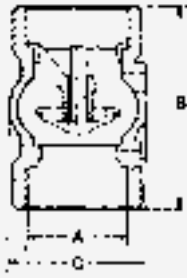
with flanges



A		B mm	C mm	D mm	Kg
"	mm				
2	50	202	97	165	11,6
21/2	65	242	125	185	16,2
3	80	282	150	200	20,4
4	100	342	187	220	29
5	125	402	220	250	48
6	150	462	260	285	64
8	200	578	340	340	106
10	250	704	420	405	188
12	300	792	490	485	280
14	350	946	586	555	450
16	400	1122	680	620	624

**Types
202 - 202 TTP - 202V**

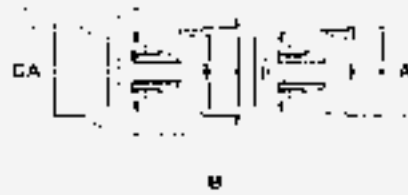
female/female



A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
2 1/2	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

Type 202B/212

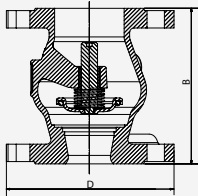
female/female



A		B mm	C mm	Kg
"	mm			
2 1/2	65	263	97	5,9
3	80	312	125	11,1
4	100	365	150	17,9

462

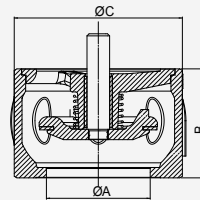
Type 462
with flanges



DN		B mm	D mm	Kg	KV m ³ /H	ζ
"	mm					
2	50	150	165	6,70	69	2,10
2 1/2	65	170	185	9,30	125	1,80
3	80	180	200	10,90	157	2,65
4	100	190	220	14,30	350	1,30
5	125	200	250	20,90	582	1,15
6	150	210	285	27,70	710	1,60
8	200	230	340	40,70	1031	2,40

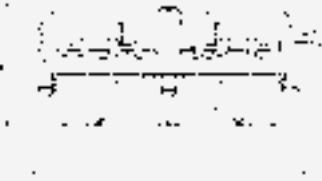
882

Type 882
between flanges



A "	B mm	C				Kg
		PN 10/16	PN 25	PN 40	ASA 150	
65	75	126	126	126	121	2,7
80	85	142	142	142	-	4
100	105	162	170	170	170	6
125	90	194	194	194	194	7
150	106	218	222	222	222	11
200	140	273	-	-	273	22
200	140	-	285	-	-	22
200	140	-	-	289	-	22
250	200	-	339	-	-	47
250	200	328	-	352	328	47

892



Type 892
between flanges

A		B mm	C					Kg
"	mm		PN10	PN16	PN 25	PN40	ASA150	
3	80	80	142	142	142	142	142	3,3
4	100	100	162	162	170	170	170	5,0
6	150	150	218	218	225	225	218	13,0
8	200	129	273	273	-	-	273	23,5
8	200	129	-	-	285	285	-	24,0
10	250	140	328	328	339	-	328	33,0
10	250	140	-	-	-	355	-	33,5
12	300	181	381	381	405	-	405	59,0
14	350	222	440	440	-	-	440	103,0
14	350	222	-	-	460	-	-	103,0
16	400	232	493	493	513	-	513	124,0
20	500	292	596	623	623	-	596	237,0

412



Types
412- 412 S
with flanges

A		B mm	C mm	D mm	Kg	KV m ² /H	ζ
"	mm						
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

A		B mm	C mm	D mm	Kg	KV m ² /H	ζ
"	mm						
5	125	201	190	270	20,0	357	3,0
6	150	220	212	300	27,5	476	3,5
8	200	280	266	375	49,2	607	6,8
10	250	345	324	450	95,0	1000	6,1
12	300	365	420	515	130,0	1452	6,0

202 - 202 TTP 202V



female/female

A		B mm	C mm	Kg	KV m ² /H	ζ
"	mm					
2 1/2	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

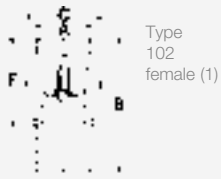
212 - 212 S



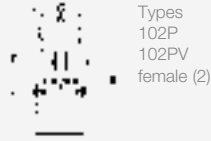
male/female

A		B mm	C mm	Kg	KV m ² /H	ζ
"	mm					
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

102



Type 102 female (1)



Types 102P 102PV female (2)

A	B mm		C	F	Kg		KV	ζ
	mm	(1) (2)			mm	mm		
2 1/4	60/70	167 195	97	123	3,10	3	82	3,0
2 1/2	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

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

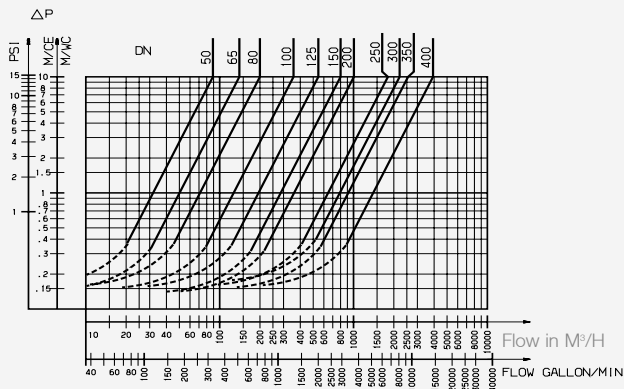


with flange

A mm	B mm	B* mm	C mm	D mm	Kg 302	KV M ³ /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

HEADLOSS CHART

TYPE 302



Chapter 2.3

03 HP SYSTEM

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

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

233 female/female

PRESSURE PFA/PS in bar θ 100°

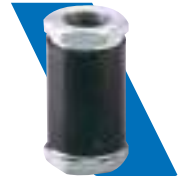
CASING : high pressure check valve in carbon steel

CLOSING SYSTEM : stainless steel

SPRING : stainless steel

SEALS : NBR (nitrile)

Opening pressure 0,5 bar



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3240	1/4	8	400	400	400	400	400	3.3	1
149B 3241	3/8	10	350	350	350	350	350	3.3	1
149B 3242	1/2	15	300	300	300	300	300	3.3	1
149B 3243	3/4	20	250	250	250	250	250	3.3	1
149B 3244	1	25	200	200	200	200	200	3.3	1
149B 3245	1 1/4	32	150	62	150	0,5	150	3.3	1
149B 3246	1 1/2	40	100	50	100	0,5	25	3.3	1
149B 3247	2	50	100	40	100	0,5	20	3.3	1

Dimensions at the end of the section.

233X female/female

PRESSURE PFA/PS in bar θ 230°

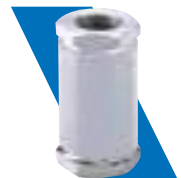
CASING : high pressure check valve in stainless steel AISI 304

CLOSING SYSTEM : stainless steel

SPRING : stainless steel

SEALS : PTFE and FKM

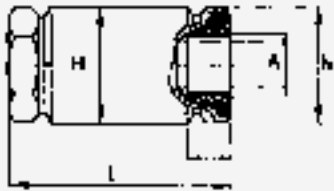
Opening pressure 0,5 bar



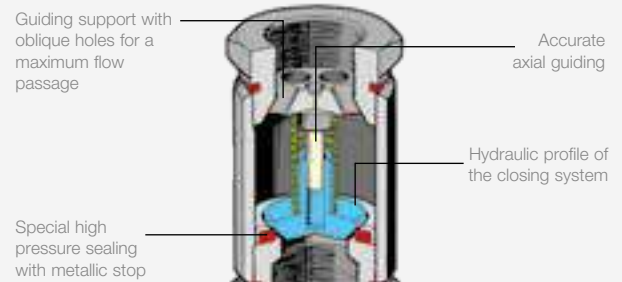
Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3240 X	1/4	8	160	160	160	160	160	3.3	1
149B 3241 X	3/8	10	160	160	160	160	160	3.3	1
149B 3242 X	1/2	15	160	160	160	160	160	3.3	1
149B 3243 X	3/4	20	160	160	160	160	160	3.3	1
149B 3244 X	1	25	160	160	160	160	160	3.3	1
149B 3245 X	1 1/4	32	100	62	100	0,5	100	3.3	1
149B 3246 X	1 1/2	40	100	50	100	0,5	25	3.3	1
149B 3247 X	2	50	100	40	100	0,5	20	3.3	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

Types
233 - 233X

A		L mm	H mm	h mm	Kg
"	mm				
1/4	8	73	24	22	0,17
3/8	10	76	30	27	0,28
1/2	15	77	38	32	0,41
3/4	20	92	48	41	0,78
1	25	109	57	50	1,26
1 1/4	32	123	70	65	2,12
1 1/2	40	141	80	70	3,07
2	50	164	100	90	5,54

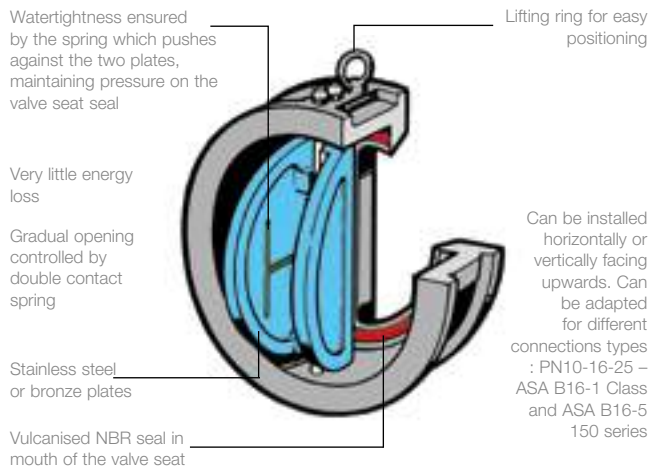


Chapter 2.4

05 HP SYSTEM

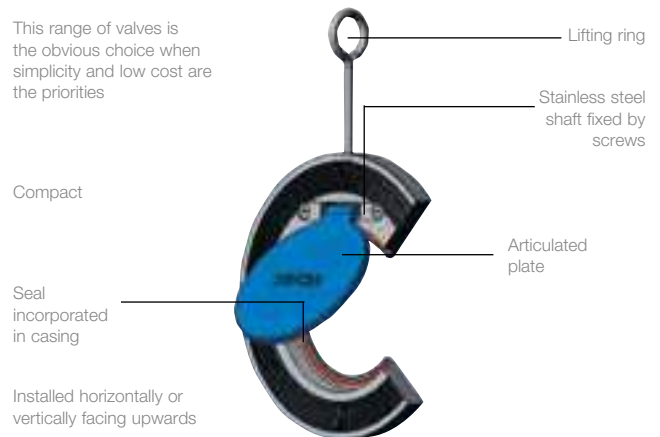
DOUBLE PLATE BETWEEN FLANGES

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



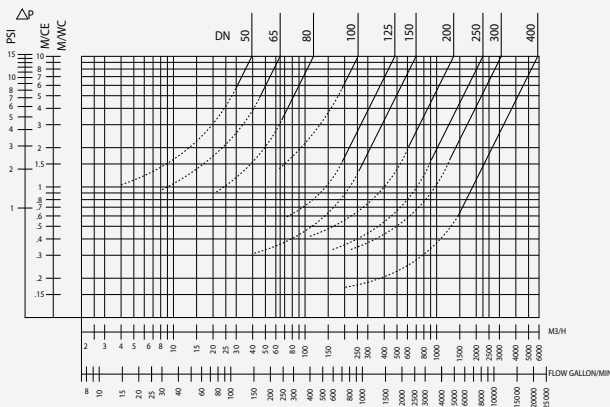
SINGLE PLATE BETWEEN FLANGES

- Space-saving
- Simple and reliable
- Competitive price

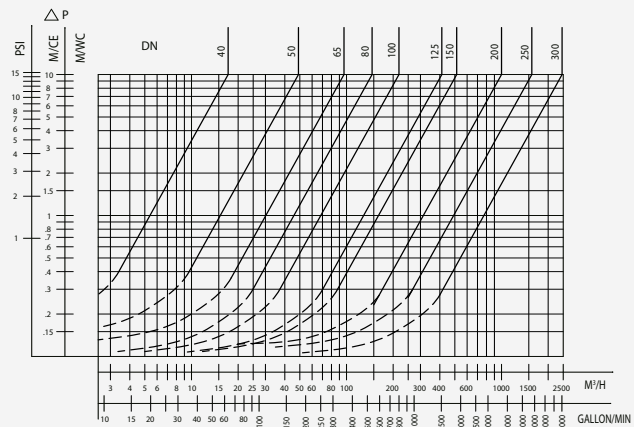


HEADLOSS CHART

TYPE 895



HEADLOSS CHART



DOUBLE PLATE**PUMPING, WATER DISTRIBUTION, GENERAL INDUSTRY****895 double plate between flanges PN10-16**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 :   ACS

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 3000	2	50	16	16	16	16	16	I	1
149B 3001	2 1/2	65	16	16	16	15	16	I	1
149B 3002	3	80	16	16	16	12	16	I	1
149B 3003	4	100	16	16	16	10	16	I	1
149B 3004	5	125	16	16	16	0,5	16	I	1
149B 3005	6	150	16	13	16	0,5	16	I	1
149B 3006	8	200	16	10	16	0,5	16	I	1
149B 3007	10	250	16	10	16	0,5	14	I	1
149B 3008	12	300	16	10	16	0,5	11	I	1
149B 3010	16	400	16	10	16	x	8	I	1

Dimensions at the end of the section.

PUMPING, WATER DISTRIBUTION, GENERAL INDUSTRY, HYDROCARBONS**895V double plate between flanges PN10-16**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 :  

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 3000 V	2	50	16	16	16	16	16	I	1
149B 3001 V	2 1/2	65	16	16	16	15	16	I	1
149B 3002 V	3	80	16	16	16	12	16	I	1
149B 3003 V	4	100	16	16	16	10	16	I	1
149B 3004 V	5	125	16	16	16	0,5	16	I	1
149B 3005 V	6	150	16	13	16	0,5	16	I	1
149B 3006 V	8	200	16	10	16	0,5	16	I	1
149B 3007 V	10	250	16	10	16	0,5	14	I	1
149B 3008 V	12	300	16	10	16	0,5	11	I	1
149B 3010 V	16	400	16	10	16	x	8	I	1

Dimensions at the end of the section.

DOUBLE PLATE

PUMPING, WATER DISTRIBUTION, GENERAL INDUSTRY

815 double plate between flanges PN25

PRESSURE PFA 25 bar / PS in bar θ EPDM 100°C - NBR 80°C

BODY : GJS ductile iron epoxy coated

PLATES DN 50 to 300 + 400 : INOX DN 350 + 450 to 600 : ALU. BRONZE

SEAL DN 50 to 300 + 400 : EPDM DN 350 + 450 to 600 : NBR

SPRING : stainless steel

APPROVALS :  PED 97/23/CE
 ACS DN50 to 300 + DN400



SPECIAL : PN10-16 consult us

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 3290	2	50	25	25	25	20	25	I	1
149B 3291	2 1/2	65	25	25	25	15	25	I	1
149B 3292	3	80	25	25	25	12	25	I	1
149B 3293	4	100	25	20	25	10	25	I	1
149B 3294	5	125	25	16	25	0,5	25	I	1
149B 3295	6	150	25	13	25	0,5	23	I	1
149B 3296	8	200	25	10	25	0,5	17	I	1
149B 3297	10	250	25	10	25	0,5	14	I	1
149B 3298	12	300	25	10	25	0,5	11	I	1
149B 2650	14	350	25	10	25	x	10	I	1
149B 3340	16	400	25	10	25	x	8	I	1
149B 2652	18	450	25	10	25	x	7	I	1
149B 2653	20	500	25	10	25	x	7	I	1
149B 2654	24	600	25	10	25	x	5	I	1

Dimensions at the end of the section.

PUMPING, WATER DISTRIBUTION, GENERAL INDUSTRY

805 double plate between flanges PN10-16

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



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 3270	2	50	16	16	16	16	16	I	1
149B 3271	2 1/2	65	16	16	16	15	16	I	1
149B 3272	3	80	16	16	16	12	16	I	1
149B 3273	4	100	16	16	16	10	16	I	1
149B 3274	5	125	16	16	16	0,5	16	I	1
149B 3275	6	150	16	13	16	0,5	16	I	1
149B 3276	8*	200	16	10	16	0,5	16	I	1
149B 3277	10*	250	16	10	16	0,5	14	I	1
149B 3278	12*	300	16	10	16	0,5	11	I	1
149B 2590	14	350	16	10	16	x	10	I	1
149B 3330	16*	400	16	10	16	x	8	I	1
149B 2592	18	450	16	10	16	x	7	I	1
149B 2593	20	500	16	10	16	x	7	I	1
149B 2594	24	600	16	10	16	x	5	I	1

Dimensions at the end of the section.

DOUBLE PLATE**INDUSTRIAL PROCESSES, HYDROCARBONS****825 double plate between flanges PN25**


PRESSURE PFA 25 bar / PS in bar 0 130°C

BODY : stainless steel (316)

PLATES : stainless steel (316)

SEAL : FKM

SPRING : stainless steel

APPROVALS :  PED 97/23/CE

SPECIAL : PN10-16 consult us

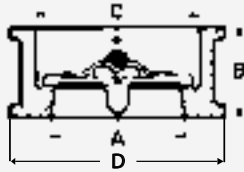


Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3170	2	50	25	25	25	20	25	I	1
149B 3171	2 ^{1/2}	65	25	25	25	15	25	I	1
149B 3172	3	80	25	25	25	12	25	I	1
149B 3173	4	100	25	20	25	10	25	I	1
149B 3174	5	125	25	16	25	0,5	25	I	1
149B 3175	6	150	25	13	25	0,5	23	I	1
149B 3176	8	200	25	10	25	0,5	17	I	1
149F 020384	10	250	25	10	25	0,5	14	I	1
149F 020386	12	300	25	10	25	0,5	11	I	1
149B 2669	14	350	25	10	25	x	10	I	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

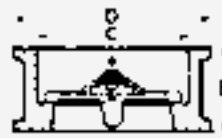
895 - 895V



Types 895 - 895V
between flanges

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
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

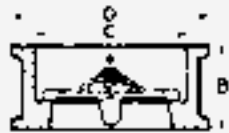
805



Type 805
between flanges

DN		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
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

815-825



Types 815-825
between flanges

DN		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
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	1,60

SINGLE PLATE

GENERAL INDUSTRY, HYDROCARBONS

635V single plate between flanges PN10PRESSURE PFA / PS in bar θ 150°

BODY & PLATE : Steel cataphoresis coated

SEAL : FKM

APPROVALS :  PED 97/23/CE 

Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149F021308	40	16	10	10	10	10	I	1
149F021309	50	16	10	10	10	10	I	1
149F021310	65	16	10	10	10	10	I	1
149F021311	80	16	10	10	10	10	I	1
149F021312	100	16	10	10	10	10	I	1
149F021313	125	16	10	10	0,5	10	I	1
149F021314	150	16	10	10	0,5	10	I	1
149F021315	200	10	10	10	0,5	10	I	1
149F021316	250	10	10	10	0,5	10	I	1
149F021317	300	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

GENERAL WATER CIRCUITS, PUMPING, WATER DISTRIBUTION

635E single plate between flanges PN10PRESSURE PFA / PS in bar θ 110°

BODY & PLATE : Steel cataphoresis coated

SEAL : EPDM on seat

APPROVALS :  PED 97/23/CE 

Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149G3550	40	16	10	10	10	10	I	1
149G3551	50	16	10	10	10	10	I	1
149G3552	65	16	10	10	10	10	I	1
149F021283	80	16	10	10	10	10	I	1
149F021284	100	16	10	10	10	10	I	1
149F021285	125	16	10	10	0,5	10	I	1
149F021286	150	16	10	10	0,5	10	I	1
149F021287	200	10	10	10	0,5	10	I	1
149F021288	250	10	10	10	0,5	10	I	1
149F021289	300	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

SINGLE PLATE

SEA WATER, SALTED AND AGGRESSIVE SOLUTIONS, GENERAL INDUSTRIAL CIRCUITS

696V single plate between flanges PN10

PRESSURE PFA / PS in bar θ 150°

BODY : wafer aluminium bronze

PLATE : aluminium copper

SEAL : FKM on seat

APPROVAL : 



Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149F021325	40	16	10	10	10	10	I	1
149F021326	50	16	10	10	10	10	I	1
149F021327	65	16	10	10	10	10	I	1
149F021328	80	16	10	10	10	10	I	1
149F021329	100	16	10	10	10	10	I	1
149F021330	125	16	10	10	0,5	10	I	1
149F021331	150	16	10	10	0,5	10	I	1
149F021332	200	10	10	10	0,5	10	I	1
149F021333	250	10	10	10	0,5	10	I	1
149F021334	300	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

GENERAL WATER CIRCUITS, HYDRO-CARBONS, INDUSTRIAL PROCESSES

627V single plate between flanges PN10

PRESSURE PFA / PS in bar θ 150°

BODY : wafer in stainless steel (316)

PLATE : stainless steel (316)

SEAL : FKM on seat

APPROVALS :  



Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149F021226	40	16	10	10	10	10	I	1
149F021227	50	16	10	10	10	10	I	1
149F021228	65	16	10	10	10	10	I	1
149F021318	80	16	10	10	10	10	I	1
149F021319	100	16	10	10	10	10	I	1
149F021320	125	16	10	10	0,5	10	I	1
149F021321	150	16	10	10	0,5	10	I	1
149F021322	200	10	10	10	0,5	10	I	1
149F021323	250	10	10	10	0,5	10	I	1
149F021324	300	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

SINGLE PLATE

GENERAL WATER CIRCUITS, PUMPING, INDUSTRIAL PROCESSES

627E single plate between flanges PN10

PRESSURE PFA / PS in bar 0 110°

BODY : wafer in stainless steel (316)

PLATE : stainless steel (316)

SEAL : EPDM on seat

APPROVALS : PED 97/23/CE

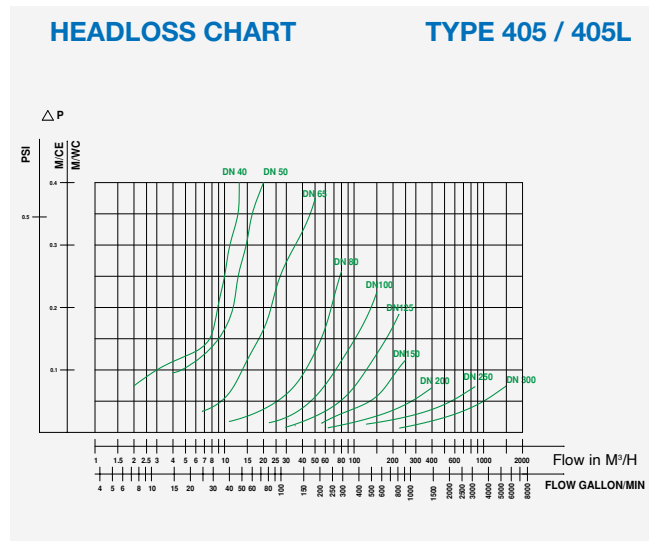
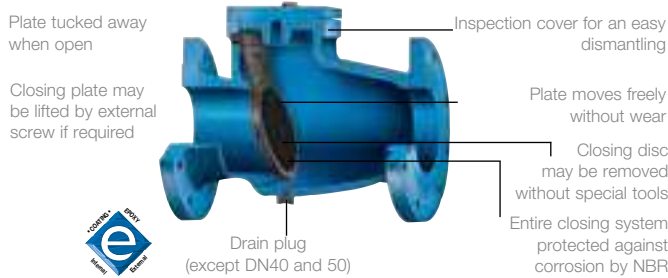


Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149G3560	40	16	10	10	10	10	I	1
149G3561	50	16	10	10	10	10	I	1
149G3562	65	16	10	10	10	10	I	1
149F021290	80	16	10	10	10	10	I	1
149F021292	100	16	10	10	10	10	I	1
149F021293	125	16	10	10	0,5	10	I	1
149F021294	150	16	10	10	0,5	10	I	1
149F021295	200	10	10	10	0,5	10	I	1
149F021296	250	10	10	10	0,5	10	I	1
149F021297	300	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

SINGLE PLATE

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



SINGLE PLATE

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

405 single plate PN16

PRESSURE PFA / PS in bar θ 70°

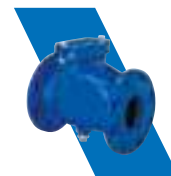
CASING : ductile iron GJS (DN65 to 300) epoxy coated inside / outside

PLATE : GJS ductile iron fully coated with NBR (nitrile)

OPTIONS : price on request for lifting system of the closing plate (DN65 to 300).

DN200 to 300 : PN16 version, price on request

APPROVALS :  PEB 97/23/CE 



Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3461	65*	16	16	16	15	16	I	1
149B 3462	80	16	16	16	12	16	I	1
149B 3463	100	16	16	16	10	16	I	1
149B 3464	125	16	16	16	0,5	16	I	1
149B 3465	150	16	13	16	0,5	16	I	1
149B 3466	200	10	10	10	0,5	10	I	1
149B 3467	250	10	10	10	0,5	10	I	1
149B 3468	300	10	10	10	0,5	10	I	1

* Threaded flanges 4 and 8 holes

Dimensions at the end of the section.

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

405L single plate PN16

PRESSURE PFA / PS in bar θ 70°

CASING and COVER : Cast iron GJL epoxy coated inside/outside

PLATE : GJS ductile iron NBR coated

STEM : Brass

The head loss is very low as the plate folds away completely

OPTIONS : Drain plug

APPROVALS :  PEB 97/23/CE 

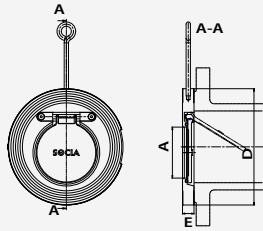


Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3459	40	16	16	16	0,5	16	3.3	1
149B 3460	50	16	16	16	0,5	16	3.3	1
149B 3772	65	16	16	16	0,5	15	3.3	1
149B 3773	80	16	16	16	0,5	12	3.3	1
149B 3774	100	16	16	16	0,5	10	3.3	1
149B 3775	125	16	16	16	0,5	8	3.3	1
149B 3776	150	16	13	16	0,5	6	3.3	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

Types
635V/635E/696V
627V/627E



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

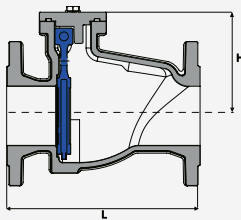
405



Type 405
 between flanges

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

405L



Type 405L
 between flanges

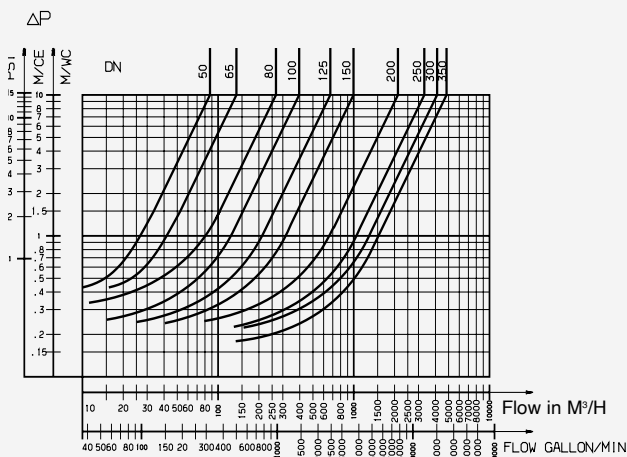
DN	L mm	H mm	Kg
40	180	89	6
50	200	95,5	7,5
65	240	122,5	11
80	260	139,5	15
100	300	154,5	21
125	350	162	30
150	400	179	39

Chapter 2.5

B SYSTEM

HEADLOSS CHART

TYPE 408 / 418



DOUBLE PLATE BETWEEN FLANGES

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

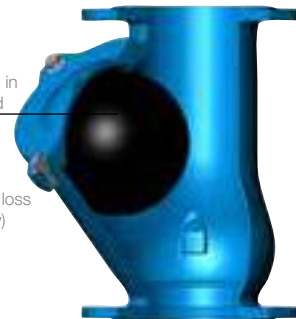
NON-RETURN VALVE

Anti-incrustation materials

Can be installed horizontally or vertically, upwards

Self-cleaning ball in specially adapted materials

Very little energy loss (unrestricted flow)



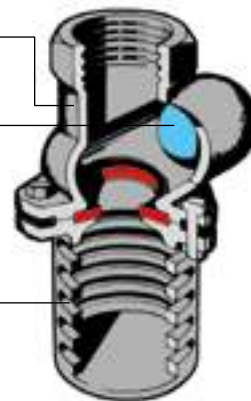
Inspection cover for access and maintenance

FOOT VALVE

Anti-incrustation materials

Self-cleaning ball in specially adapted materials

Very little energy loss (unrestricted flow)



Can be installed horizontally or vertically, upwards



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	•	

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.

The diagram illustrates two product labels with detailed annotations. The left label is for a 'Socia sas' valve with a nominal diameter of DN 148. Annotations include: 'Figure', 'Casing material', 'Press. max. admissible pour liquide L1/L2', 'Label + manufacturing Standard / CPD', 'Mini/maxi working temp', 'Reference', 'Nominal diameter', 'Max. admissible pressure PS', 'G1/G2 (gas)', 'Manufacturing month/year', 'Manufacturing order', 'Connecting flanges', 'Approvals', 'ATEX 94/9/CE marking', and 'Notified body number for the Directive PED 97/23/CE'. The right label is for a 'Socia sas' valve with a nominal diameter of DN 148 and a maximum admissible pressure of PS 20°C : xx bar. Annotations include: 'Figure', 'Manufacturing month/year', 'Nominal diameter', 'Reference', 'Max. admissible pressure PS L1/L2 (liquids)', 'Max. admissible pressure PS G1/G2 (gas)', 'Mini/maxi working temperature', 'Connecting flanges', 'Manufacturing order', 'Label + manufacturing Standard / CPD', 'Casing material', 'ATEX 94/9/CE marking', and 'Notified body number for the Directive PED 97/23/CE'.

WASTE WATER, VISCOUS AND LOADED LIQUIDS, PURIFICATION**418 and 408 with PN10/16 flanges**PRESSURE PFA / PS in bar θ 80°

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 :



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3140	2	50	10	10	10	10	10	I	1
149B 3141	2 1/2	65	10	10	10	10	10	I	1
149B 3142	3	80	10	10	10	10	10	I	1
149B 3143	4	100	10	10	10	10	10	I	1
149B 3144	5	125	10	10	10	0,5	10	I	1
149B 3145	6	150	10	10	10	0,5	10	I	1
149B 3146	8	200	10	10	10	0,5	10	I	1
149B 2907	10	250*	10	10	10	0,5	10	I	1
149B 2908	12	300*	10	10	10	0,5	10	I	1
149B 2909	14	350*	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

WASTE WATER, VISCOUS AND LOADED LIQUIDS**508 female/female**PRESSURE PFA / PS in bar θ 80°

CASING : GJL cast iron external epoxy coated

BALL : resin

SEAL : NBR (nitrile)

APPROVALS :



Part Number	DN		PFA water	PS				Cat	UV
	"			L1	L2	G1	G2		
149B 3202	1	10	10	10	10	10	3.3	1	
149B 3203	1 1/4	10	10	10	10	10	I	1	
149B 3204	1 1/2	10	10	10	10	10	I	1	
149B 3205	2	10	10	10	10	10	I	1	
149B 3206	2 1/2	10	10	10	10	10	I	1	

Dimensions at the end of the section.

WASTE WATER, VISCOUS LIQUIDS

208P female/female

PRESSURE PFA / PS in bar θ 60°

CASING : PVC

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

APPROVAL : 



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 5221	1	6	6	6	6	6	3.3	1
149B 5222	1 1/4	6	6	6	x	6	3.3	1
149B 3448	1 1/2	6	6	6	x	6	3.3	1
149B 5224	2	6	6	6	x	6	3.3	1
149B 5225	2 1/2	6	6	6	x	6	3.3	1
149B 3456	3	6	6	6	x	6	3.3	1

Dimensions at the end of the section.

50 female/female

PRESSURE PFA / PS in bar θ 80°

CASING : GJL cast iron epoxy coated

BALL : synthetic resin

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

APPROVALS : 

(1) except DN 3"



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2522	1	10	10	10	10	10	3.3	1
149B 2523	1 1/4	10	10	10	10	10	1	1
149B 2524	1 1/2	10	10	10	10	10	1	1
149B 2525	2	10	10	10	10	10	1	1
149B 2527	2 1/2	10	10	10	10	10	1	1
149B 2528	3	10	10	10	10	10	1	1

Dimensions at the end of the section.

FOR USE AS AN AIR VENT OR ANTI FLOODING VALVE

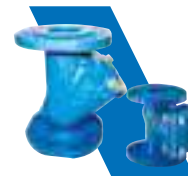
418F and 408F with PN10 flangesPRESSURE PFA 10 bar θ 60°

CASING : same as type 418/408

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

SEAL : NBR (nitrile)

APPROVAL :



Part Number	DN		UV
	"	mm	
149B 3140 F	2	50	1
149B 3141 F	2 ^{1/2}	65	1
149B 3142 F	3	80	1
149B 3143 F	4	100	1
149B 3144 F	5	125	1
149B 3145 F	6	150	1
149B 3146 F	8	200	1
149B 2907 F	10	250*	1
149B 2908 F	12	300*	1
149B 2909 F	14	350*	1

* Type 408F

508F female/femalePRESSURE PFA 10 bar θ 80°

CASING : same as type 508

BALL : floating, epoxy resin coated SEAL : NBR (nitrile)

APPROVAL :



Part Number	DN		UV
	"	mm	
149B 3212	1		1
149B 3213	1 ^{1/4}		1
149B 3214	1 ^{1/2}		1
149B 3215	2		1
149B 3216	2 ^{1/2}		1

* Type 408F

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

418V with PN10 flangesPRESSURE PFA/PS in bar θ 100°

CASING : same as type 418

BALL : FKM coated SEAL : FKM


APPROVAL :



Part Number	DN	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3140 V	2	50	10	10	10	10	10	I
149B 3141 V	2 ^{1/2}	65	10	10	10	10	10	I
149B 3142 V	3	80	10	10	10	10	10	I
149B 3143 V	4	100	10	10	10	10	10	I
149B 3144 V	5	125	10	10	10	0,5	10	I
149B 3145 V	6	150	10	10	10	0,5	10	I
149B 3146 V	8	200	10	10	10	0,5	10	I

AIR VALVE APPLICATION TO PREVENT WASTE WATER BACKFLOW

50F female/female


PRESSURE PFA 10 bar θ 80°
 CASING : same as type 50
 BALL : floating, epoxy resin coated
 SEAL : NR (natural rubber), except DN1½, CR (polychloroprene)
 APPROVAL : 




Part Number	DN “	UV
149B 2122	1	1
149B 2123	1 1/4	1
149B 2124	1 1/2	1
149B 2125	2	1
149B 2127	2 1/2	1
149B 14077	3	1

DEGASIFICATION, WASTE WATER, LOADED LIQUIDS

418D with PN10 flanges

PRESSURE PFA 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 : 

«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-off
- Position of the ball during bleeding



Part Number	DN “	PFA mmm water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3140 D	2	50	10	10	10	10	I	1
149B 3141 D	2 1/2	65	10	10	10	10	I	1
149B 3142 D	3	80	10	10	10	10	I	1
149B 3143 D	4	100	10	10	10	10	I	1
149B 3144 D	5	125	10	10	0,5	10	I	1
149B 3145 D	6	150	10	10	0,5	10	I	1
149B 3146 D	8	200	10	10	0,5	10	I	1

LOADED AGGRESSIVE LIQUIDS INDUSTRIAL PROCESS

408X with PN10 flanges

PRESSURE PFA/PS in bar θ 150°
 CASING : stainless steel (304)
 BALL : DN 50-100 : aluminium
 DN > cast iron FKM coating
 BOLTS and NUTS : stainless steel (304)
 SEAL : FKM
 APPROVALS : 



Part Number	DN “	PFA mmm water	PS				Cat	UV
			L1	L2	G1	G2		
149B 15052	2	50	16	16	16	16	I	1
149B 15053	2 1/2	65	16	16	15	16	I	1
149B 15054	3	80	16	16	12	16	I	1
149B 15055	4	100	16	16	10	16	I	1
149B 15056	5	125	16	16	0,5	16	I	1
149B 15057	6	150	16	13	0,5	16	I	1
149B 15058	8	200	10	10	0,5	10	I	1

FOOT VALVES - VISCOUS, LOADED OR THICK LIQUIDS

318 and 308 drilled flange PN10

PRESSURE PFA / PS in bar @ 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 :



Part Number	DN "	PFA mm water	PS				Cat	UV	
			L1	L2	G1	G2			
149B 3150	2	50	10	10	10	x	x	3.3	1
149B 3151	2 ^{1/2}	65	10	10	10	x	x	3.3	1
149B 3152	3	80	10	10	10	x	x	3.3	1
149B 3153	4	100	10	10	10	x	x	3.3	1
149B 3154	5	125	10	10	10	x	x	3.3	1
149B 3155	6	150	10	10	10	x	x	3.3	1
149B 3156	8	200	10	10	10	x	x	3.3	1
149F 019180	10	250*	10	10	10	x	x	1	1
149F 018860	12	300*	10	10	10	x	x	1	1
149B 3029	14	350*	10	10	10	x	x	1	1

* Type 308 Dimensions at the end of the section.

FOOT VALVES - SEWAGE SYSTEMS, WASTE WATER, SLURRIES

30 female

PRESSURE PFA / PS in bar @ 80°

CASING : cast iron with epoxy coating

BALL : synthetic resin

SEAL : NR (natural rubber) /

CR (polychloroprene)

APPROVAL :

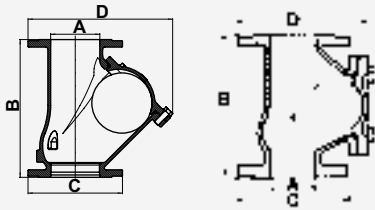


Part Number	DN "	PFA water	PS				Cat	UV	
			L1	L2	G1	G2			
149B 2322	1	10	10	10	10	x	x	3.3	1
149B 2323	1 ^{1/4}	10	10	10	10	x	x	3.3	1
149B 2324	1 ^{1/2}	10	10	10	10	x	x	3.3	1
149B 2325	2	10	10	10	10	x	x	3.3	1
149B 2327	2 ^{1/2}	10	10	10	10	x	x	3.3	1
149B 2368	3	10	10	10	10	x	x	3.3	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

418 408



With flanges

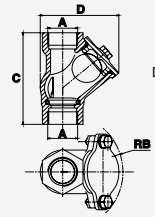
Type 418-418F-418V-418D

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
2	50	200	165	173	6,5	71,5	1,95
2 1/2	65	240	185	214	9,1	171,5	0,97
3	80	260	200	252	13,3	217,5	1,38
4	100	300	220	289	20,9	319	1,57
5	125	350	250	368	27,5	744,9	0,7
6	150	400	285	424	35,7	1133,7	0,63
8	200	500	340	509	63,7	2766	0,33

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

508



Types 508 - 508F female/female

A		RB mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
1	26/34	76	114	95	1,30	19,6	1,6
1 1/4	33/42	85	132	110,5	1,90	29,4	1,9
1 1/2	40/49	93	145	121	2,45	57,8	1,2
2	50/60	107	173,5	144	3,50	78,3	1,6
2 1/2	66/76	127	200	174,5	5,90	110,4	2,3

208P



Type 208P female/female

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
1	26/34	207	114	65,5	0,60	22,3	3,3
1 1/4	33/42	143	114	65,5	0,50	22,3	3,3
1 1/2	40/49	154	135	80,0	0,60	57,8	1,2
2	50/60	179	160	88,5	0,79	68,3	2,1
2 1/2	66/76	198	189	110	1,50	89,6	3,6
3	80/90	276	225	133	2,80	-	-

50

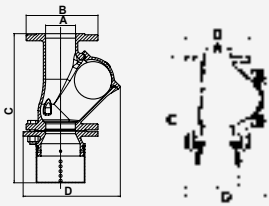


Type 50 female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
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

OVERALL DIMENSIONS

318-308



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

30



Type 30 female

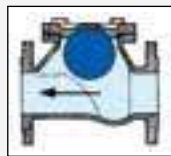
A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
1	26/34	104	183	1,9	16	2,40
1 1/4	33/42	119	198	2,4	23	3,10
1 1/2	40/49	137	215	3,2	40	2,50
2	50/60	157	256	4,1	63	2,50
2 1/2	66/76	179	292	6,5	103	2,60
3	80/90	214	303	12,9	165	2,35

STANDARD FUNCTIONING 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



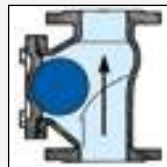
VERTICAL ASCENDING



HORIZONTAL Lodging of the ball above the axis

FUNCTIONING 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 up

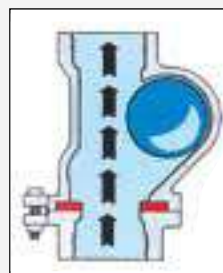


HORIZONTAL MOUNTING Lodging of the ball below the axis. The arrow shows the direction in which the liquid is rising.

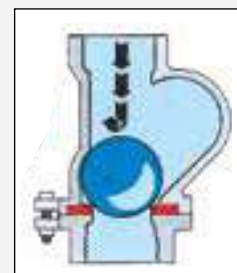


APPLICATIONS

- 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 CHAMBER



NO FLOW PHASE OPENING IS CLOSED

Chapter 2.6

M & MI SYSTEM

M SYSTEM
NON-RETURN CHECK VALVE

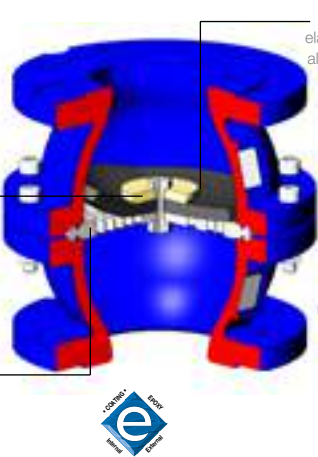
- Silent operation (in all positions)
- Protects against water hammering
- Very reliable
- Adapts to fluctuating flow rates

No moving mechanical part

Closing system, a flexible membrane which changes shape with the flow, held at its centre on a perforated steel seat

Water-tightness ensured by the automatic closure of the membrane

Valve seat, a steel polyamide coated grille allowing flow equivalent to the nominal cross-section



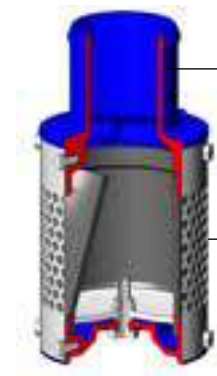
The thickness and the elasticity of the membrane allow progressive opening and closing, particularly suitable for variable flow pumps and pulsatory operation

Several concentric membranes are used for wide membrane diameters. A thin-membraned version is available for special applications eg gases, vacuums

MI SYSTEM
FOOT VALVE

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

Closing system EPDM seal



Many types of connections

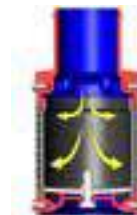
Full passage



WORKING PRINCIPLE OF THE "MI" SYSTEM



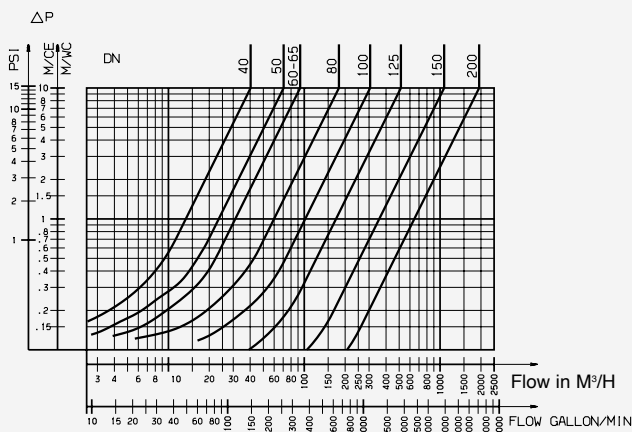
SUCTION



FLOW STOPS

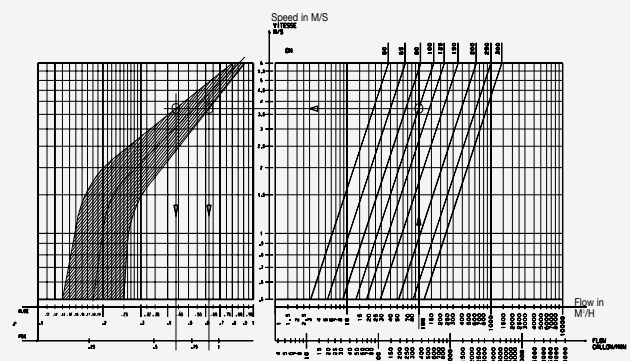
HEADLOSS CHART

TYPE 407



HEADLOSS CHART

TYPE MI



CALCULATION EXAMPLE :
CHECK VALVE DN 100 FLOW 100M³/H
HEADLOSS / BETWEEN 0.44 AND 0.62 M/WC

BOOSTING UNITS, VACUUM PUMPS, COMPRESSED AIR...**407 with PN10 flanges**PRESSURE PFA / PS in bar θ 60°

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

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2164	1 1/2	40*	16	16	16	16	16	I	1
149B 2165	2	50*	16	16	16	16	16	I	1
149B 2166	2 1/2	65*	16	16	16	15	16	I	1
149B 2167	3	80*	16	16	16	12	16	I	1
149B 2168	4	100	16	16	16	10	16	I	1
149B 2169	5	125	16	16	16	0,5	16	I	1
149B 2170	6	150	16	13	16	0,5	16	I	1
149B 2237	8	200	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

207 female/femalePRESSURE PFA / PS in bar θ 60°

CASING : GJL cast iron epoxy coated stainless steel seat

SEAL : EPDM

MEMBRANE : NR (natural rubber)

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

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2019	3/8*	16	16	16	16	16	3.3	1
149B 2100	1/2	16	16	16	16	16	3.3	1
149B 2101	3/4	16	16	16	16	16	3.3	1
149B 2102	1	16	16	16	16	16	3.3	1
149B 2103	1 1/4	16	16	16	16	16	I	1
149B 2104	1 1/2	16	16	16	16	16	I	1
149B 2105	2	16	16	16	16	16	I	1
149B 2106	2 1/2	16	16	16	15	16	I	1
149B 2107	3	16	16	16	12	16	I	1

*Aluminium casing and seat

Dimensions at the end of the section.

INDUSTRIAL SERVICES, COMPRESSED AIR, VACUUM PUMPS, HYDROCARBONS

447 with PN10 flanges

PRESSURE PFA / PS in bar θ 60°

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* 



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2842	2 1/2	65*	16	16	16	15	16	I	1
149B 2843	3	80*	16	16	16	12	16	I	1
149B 2844	4	100	16	16	16	10	16	I	1
149B 2845	5	125	16	16	16	0,5	16	I	1
149B 2846	6	150	16	13	16	0,5	16	I	1
149B 2847	8	200	10	10	10	0,5	10	I	1

Dimensions at the end of the section.

INDUSTRIAL SERVICES, COMPRESSED AIR, VACUUM PUMPS, HYDROCARBONS

407V with PN10 flanges & 207V female / female

PRESSURE PFA / PS in bar θ 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 :  

(207V)



407V with PN10 flanges

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 1859	1 1/2	40	16	16	16	16	16	I	1
149B 1523 9	2	50	16	16	16	16	16	I	1
149B 1861	2 1/2	65	16	16	16	15	16	I	1
149B 1832	3	80	16	16	16	12	16	I	1
149B 1907	4	100	16	16	16	10	16	I	1
149B 1491 6	5	125	16	16	16	0,5	16	I	1
149B 1410 4	6	150	16	13	16	0,5	16	I	1
149B 1492 2	8	200	10	10	10	0,5	10	I	1

207V female / female

Part Number	DN “	PFA water		PS				Cat	UV
		L1	L2	G1	G2				
149B 1513 4	3/8*	16	16	16	16	16	16	3.3	1
149B 1407 6	1/2	16	16	16	16	16	16	3.3	1
149B 1640	3/4	16	16	16	16	16	16	3.3	1
149B 1412 4	1	16	16	16	16	16	16	3.3	1
149B 1413 4	1 1/4	16	16	16	16	16	16	I	1
149B 1817	1 1/2	16	16	16	16	16	16	I	1
149B 1826	2	16	16	16	16	16	16	I	1
149B 1684	2 1/2	16	16	16	15	16	16	I	1
149B 1529 6	3	16	16	16	12	16	16	I	1

*Aluminium casing and seat



THERMAL WATER, AGGRESSIVE LIQUIDS**407RR with PN10 flanges & 447V with PN10 flanges**

PRESSURE PFA / PS in bar @ 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 :  PED 9723/CE

(407RR)

**407RR with PN10 flanges**

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 1720	1 1/2	40	16	16	16	16	16	I	1
149B 1721	2	50	16	16	16	16	16	I	1
149B 1533	2 1/2	65	16	16	16	15	16	I	1
149B 1722	3	80	16	16	16	12	16	I	1
149B 1723	4	100	16	16	16	10	16	I	1
149B 1977	5	125	16	16	16	0,5	16	I	1
149B 1972	6	150	16	13	16	0,5	16	I	1
149B 1512 7	8	200	10	10	10	0,5	10	I	1

447RR with PN10 flanges

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2842 RR	2 1/2	65	16	16	16	15	16	I	1
149B 2843 RR	3	80	16	16	16	12	16	I	1
149B 2844 RR	4	100	16	16	16	10	16	I	1
149B 2845 RR	5	125	16	16	16	0,5	16	I	1
149B 2846 RR	6	150	16	13	16	0,5	16	I	1
149B 2847 RR	8	200	10	10	10	0,5	10	I	1



BOOSTING UNITS, VACUUM PUMPS, COMPRESSED AIR...

407B with PN10 flanges & 447B with PN10 flanges

PRESSURE PFA / PS in bar θ 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 :  PED 97/23/CE  ACS*

 (407B)



407B with PN10 flanges

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 1166	1 1/2	40*	16	16	16	16	16	I	1
149B 1167	2	50*	16	16	16	16	16	I	1
149B 2163	2 1/4	60*	16	16	16	16	16	I	1
149B 1168	2 1/2	65*	16	16	16	15	16	I	1
149B 1169	3	80*	16	16	16	12	16	I	1
149B 1170	4	100	16	16	16	10	16	I	1
149B 1171	5	125	16	16	16	0,5	16	I	1
149B 1172	6	150	16	13	16	0,5	16	I	1
149B 1173	8	200	10	10	10	0,5	10	I	1

447B with PN10 flanges

Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2842 B	2 1/2	65*	16	16	16	15	16	I	1
149B 2843 B	3	80*	16	16	16	12	16	I	1
149B 2844 B	4	100	16	16	16	10	16	I	1
149B 2845 B	5	125	16	16	16	0,5	16	I	1
149B 2846 B	6	150	16	13	16	0,5	16	I	1
149B 2847 B	8	200	10	10	10	0,5	10	I	1



417 with PN25 flanges

PRESSURE PFA / PS in bar θ 60°

CASING : GJL cast iron

SEAT : DN40 to 80 : Stainless Steel DN100 to 200 : Polyamid coated steel

SEALS and MEMBRANE : EPDM

APPROVALS :  PED 97/23/CE  ACS*





Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2054	1 1/2	40	25	25	25	25	25	I	1
149B 2055	2	50	25	25	25	20	25	I	1
149B 2056	2 1/2	65	25	25	25	15	25	I	1
149B 2058	3	80	25	25	25	12	25	I	1
149B 2060	4	100	25	20	25	10	25	I	1
149B 2061	5	125	25	16	25	0,5	25	I	1
149B 2062	6	150	25	13	25	0,5	23	I	1

FOOT VALVES - IRRIGATION, LIMITED WORKING PRESSURE

317 nipple

PRESSURE PFA / PS in bar @ 60°

NIPPLE : GJL cast iron epoxy coated

STRAINER : galvanised steel

MEMBRANE : EPDM

OPTIONS : stainless steel (316L) strainer. Mounting with flexible hoses

APPROVAL : ACS*



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2535	40	30	6	6	6	x	x	3.3	1
149B 2537	50	40	6	6	6	x	x	3.3	1
149B 2539	60	50	6	6	6	x	x	3.3	1
149B 2541	70	60	6	6	6	x	x	3.3	1
149B 2543	80	70	6	6	6	x	x	3.3	1
149B 2544	90	80	6	6	6	x	x	3.3	1
149B 2546	100	90	6	6	6	x	x	3.3	1
149B 2547	110	98	6	6	6	x	x	3.3	1
149B 2548	120	108	6	6	6	x	x	3.3	1
149B 2550	150	138	6	6	6	x	x	3.3	1
149B 2551	200	180	6	6	6	x	x	3.3	1
149F 013316	250	230	6	6	6	x	x	3.3	1
149B 2553	300	276	6	6	6	x	x	3.3	1
Type with draining system									
149B 2551 D	200	180	6	6	6	x	x	3.3	1
149B 2552 D	250	230	6	6	6	x	x	3.3	1
149B 2553 D	300	276	6	6	6	x	x	3.3	1

327 with flange PN10

PRESSURE PFA / PS in bar @ 60°

FLANGE : GJL cast iron epoxy coated

STRAINER : galvanised steel

MEMBRANE : EPDM

OPTIONS : stainless steel (316L) strainer

APPROVAL : ACS*



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2555	2	50	6	6	6	x	x	3.3	1
149B 2556	2 ^{1/2}	65	6	6	6	x	x	3.3	1
149B 2558	3	80	6	6	6	x	x	3.3	1
149B 2560	4	100	6	6	6	x	x	3.3	1
149B 2561	5	125	6	6	6	x	x	3.3	1
149B 2562	6	150	6	6	6	x	x	3.3	1
149B 2564	8	200	6	6	6	x	x	3.3	1
149B 2565	10	250	6	6	6	x	x	3.3	1
149B 2566	12	300	6	6	6	x	x	3.3	1
Type with draining system									
149B 2564 D	8	200	6	6	6	x	x	3.3	1
149B 2565 D	10	250	6	6	6	x	x	3.3	1

See draining kit for DN 60 to 150 mm

337 female

PRESSURE PFA / PS in bar θ 60°
 CONNECTION : GJL cast iron epoxy coated
 STRAINER : galvanised steel
 MEMBRANE : EPDM
 OPTIONS : stainless steel (316L) strainer
 APPROVAL : ACS*



Part Number	DN “	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2572	2	6	6	6	x	x	3.3	1
149B 2574	2 1/2	6	6	6	x	x	3.3	1
149B 2575	3	6	6	6	x	x	3.3	1
149B 2577	4	6	6	6	x	x	3.3	1

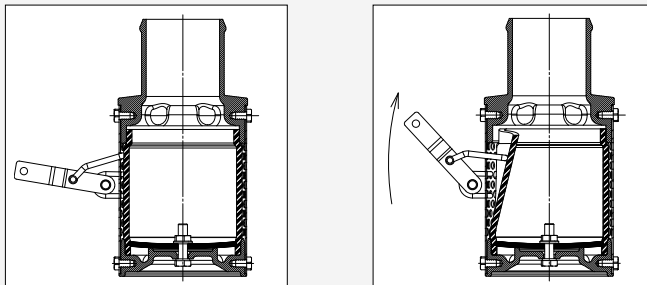
Kit

Optional draining system
 For types 317, 327 and 337
 For diameters over 150 mm, we realise all the mounting of the kit.



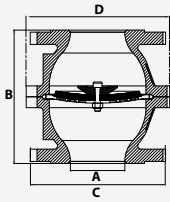
Part Number	DN “	mm	UV
149F 0084 49	120-150	1	
149F 0084 52	200-300	1	

WORKING PRINCIPLE OF THE DRAINAGE SYSTEM (OPTIONAL)



OVERALL DIMENSIONS

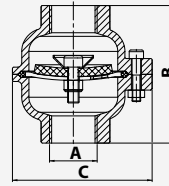
407



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

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
1 1/2	40	148	150	140	6,9	40,3	2,50
2	50	158	164	159	8,9	70,5	1,97
2 1/2	65	176	183	169	11,9	93,3	3,21
3	80	196	200	212	15,9	180,0	1,98
4	100	213	220	234	19,5	305,5	1,68
5	125	228	250	250	25,4	515,0	1,44
6	150	266	285	324	39,5	1072,0	0,70
8	200	439	340	426	81,6	1940,0	0,60

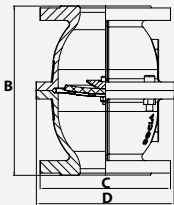
207



Type 207-207V
female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
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

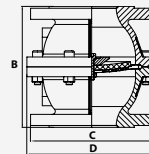
447



Types 447/447B
447RR
with flanges

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
2 1/2	65	240	185	169	11,9	78,4	4,55
3	80	258	200	212	16,5	157,0	2,60
4	100	299	220	234	26,3	255,0	2,40
5	125	347	250	250	33,2	448,9	1,90
6	150	396	285	324	49,8	966,4	0,85
8	200	496	340	426	87,3	2044,8	0,60

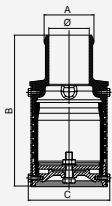
417



Type 417
with flanges

A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
"	mm						
1 1/2	40	148	150	140	7,2	25,5	6,1
2	50	158	165	160	9,1	43,5	5,2
2 1/2	65	176	185	170	10,8	55,4	9,1
3	80	196	200	212	16,0	111,1	5,2
4	100	331	235	245	25,0	181,0	4,8
5	125	329	270	274	30,0	317,0	3,8
6	150	395	300	341	44,0	683,0	1,7

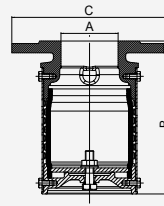
317



Type 317
nipple

Diam. passage	A mm	B mm	C mm	Kg	KV m ³ /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

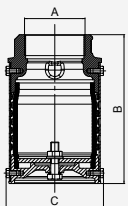
327



Type 327
with flanges

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
2	50	151	165	3,15	113	0,77
2 1/2	65	182	185	4,96	191	0,77
3	80	205	200	6,22	221	0,77
4	100	228	220	7,58	289	0,77
5	125	258	250	10,37	366	0,77
6	150	303	285	16,02	451	0,77
8	200	385	340	31,60	705	0,77
10	250	441	395	44,10	1015	0,77
12	300	506	445	63,60	1205	0,77

337



Type 337
female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
2	50/60	153	92	1,88	113	0,77
2 1/2	66/76	185	121	3,41	191	0,77
3	80/90	205	137	4,38	221	0,77
4	102/104	230	150	5,65	289	0,77

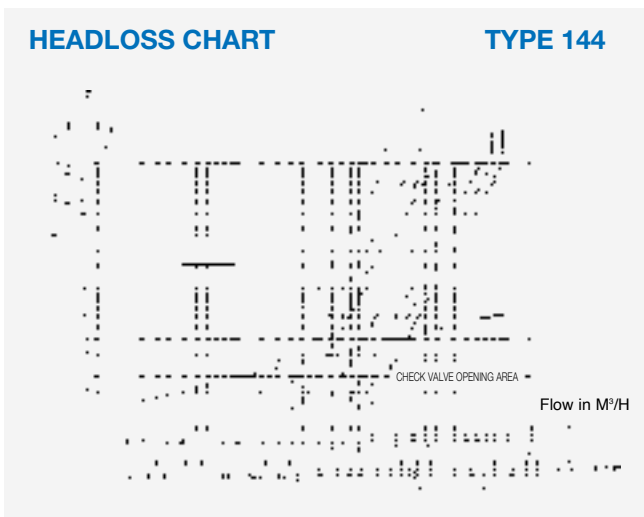
Chapter 2.7

TJ SYSTEM & TJO + FL + 04 SYSTEMS

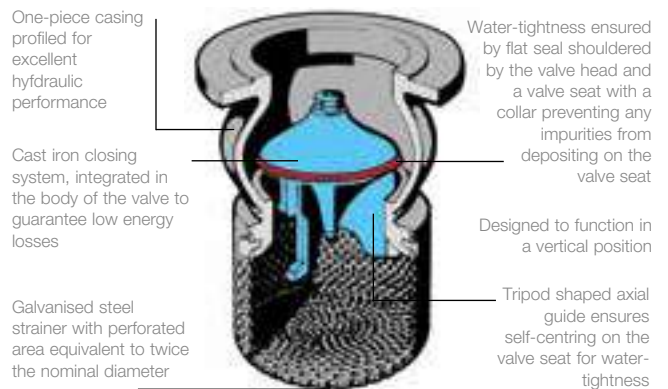
TJ SYSTEM

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

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.



FOOT VALVE



PUMPING, WATER DISTRIBUTION

144 with PN10 flange

PRESSURE PFA / PS in bar @ 60°
 CASING : GJL cast iron external epoxy coated
 CLOSING SYSTEM + GUIDE : GJL cast iron
 SEAL : EPDM
 STRAINER : galvanised steel
 APPROVALS :



Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3414	200	10	10	10	x	x	3.3	1
149B 3415	250	6	6	6	x	x	3.3	1
149B 3416	300	6	6	6	x	x	3.3	1
149B 3417	350	6	6	6	x	x	1	1
149B 3418	400	6	6	6	x	x	1	1
149B 3419	450	4	4	4	x	x	3.3	1
149B 3420	500	4	4	4	x	x	3.3	1
149B 3422	600	4	4	4	x	x	1	1

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PUMPING

290 female/female

PRESSURE PFA / PS in bar @ 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



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3118	1/4	10	10	10	10	10	3.3	10
149B 3119	3/8	10	10	10	10	10	3.3	10
149B 3120	1/2	10	10	10	10	10	3.3	10
149B 3121	3/4	10	10	10	10	10	3.3	10
149B 3122	1	10	10	10	10	10	3.3	10
149B 3123	1 1/4	10	10	10	x	10	3.3	10
149B 3124	1 1/2	10	10	10	x	10	3.3	6
149B 3125	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

HEATING, HYDROCARBONS PUMPING, CIRCULATING PUMPS

297 female/female

PRESSURE PFA / PS in bar @ 80°

CASING : brass

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

SEAL : FKM

SPRING : stainless steel

APPROVAL : 



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3168	1/4	10	10	10	10	10	3.3	10
149B 3159	3/8	10	10	10	10	10	3.3	10
149B 3160	1/2	10	10	10	10	10	3.3	10
149B 3161	3/4	10	10	10	10	10	3.3	10
149B 3162	1	10	10	10	10	10	3.3	10
149B 3163	1 1/4	10	10	10	x	10	3.3	10
149B 3164	1 1/2	10	10	10	x	10	3.3	6
149B 3165	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

HOUSING, WATER DISTRIBUTION, PUMPING**290D female/female**

PRESSURE PFA / PS in bar @ 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

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3319	3/8	10	10	10	10	10	3.3	10
149B 3320	1/2*	10	10	10	10	10	3.3	10
149B 3321	3/4	10	10	10	10	10	3.3	10
149B 3322	1	10	10	10	10	10	3.3	10

*PA 11

Dimensions at the end of the section.

HEATING, HYDROCARBONS PUMPING, CIRCULATING PUMPS**297D female/female**

PRESSURE PFA / PS in bar @ 80°

CASING : POM (polyacetal)

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

SEAL : FKM O'ring

SPRING : stainless steel

APPROVAL : 

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3359	3/8	10	10	10	10	10	3.3	10
149B 3360	1/2	10	10	10	10	10	3.3	10
149B 3361	3/4	10	10	10	10	10	3.3	10
149B 3362	1	10	10	10	10	10	3.3	10

Dimensions at the end of the section.

INDUSTRY, CHEMICAL AND FOOD INDUSTRIES**290P female/female**

PRESSURE PFA / PS in bar @ 80°

CASING : PP (polypropylene)

CLOSING SYSTEM : PP (polypropylene)

SEAL : FKM O'ring

SPRING : stainless steel


APPROVAL : 

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 1129	3/8	10	10	10	10	10	3.3	1
149B 14066	1/2	10	10	10	10	10	3.3	1
149B 1502	3/4	10	10	10	10	10	3.3	1

Dimensions at the end of the section.

INDUSTRY, CHEMICAL AND FOOD INDUSTRIES

290X female/female

PRESSURE PFA / PS in bar @ 80°
 CASING : stainless steel (304)
 CLOSING SYSTEM : idem Type 290
 SEAL : FKM O'ring
 SPRING : stainless steel
 APPROVAL : 



OPTIONS : can be delivered with PTFE closing system for corrosive fluids and high temperature (180°C)

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 1109	1/4	10	10	10	10	10	3.3	1
149B 1110	3/8	10	10	10	10	10	3.3	1
149B 1111	1/2	10	10	10	10	10	3.3	1
149B 1112	3/4	10	10	10	10	10	3.3	1
149B 1113	1	10	10	10	10	10	3.3	1
149B 1114	1 1/4	10	10	10	x	10	3.3	1
149B 1115	1 1/2	10	10	10	x	10	3.3	1
149B 1116	2	10	10	10	x	10	3.3	1

Dimensions at the end of the section.

WATER DISTRIBUTION, BUILDING, HEATING

209 female/female

PRESSURE PFA / PS in bar @ 80°
 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



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3250	1/2	10	10	10	10	10	3.3	10
149B 3251	3/4	10	10	10	10	10	3.3	10
149B 3252	1	10	10	10	10	10	3.3	10
149B 3253	1 1/4	10	10	10	x	10	3.3	10
149B 3254	1 1/2	10	10	10	x	10	3.3	6
149B 3255	2	10	10	10	x	10	3.3	6

Dimensions at the end of the section.

FOOT VALVES - HOUSING, PUMPING**190 female**

PRESSURE PFA / PS in bar @ 60°

CASING : brass

CLOSING SYSTEM : POM (polyacetal)

SEAL : EPDM

SPRING : stainless steel

STRAINER : PE (polyethylene)

APPROVALS :  ACS

OPTIONS : can be delivered with PTFE closing system for corrosive fluids and high temperature (180°C)

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3924	1 1/2	10	10	10	x	x	3.3	6
149B 3925	2	10	10	10	x	x	3.3	6

Dimensions at the end of the section.

190D female

PRESSURE PFA / PS in bar @ 60°

CASING : POM (polyacetal)

CLOSING SYSTEM : DN3/8" to 1/2" : PA (polyamid) DN3/4" to 2" : POM (polyacetal)

SEAL : EPDM

SPRING : stainless steel

STRAINER : PE (polyethylene)

APPROVALS :  ACS

Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3719	3/8	10	10	10	x	x	3.3	10
149B 3720	1/2	10	10	10	x	x	3.3	10
149B 3721	3/4	10	10	10	x	x	3.3	10
149B 3722	1	10	10	10	x	x	3.3	6
149B 3723	1 1/4	10	10	10	x	x	3.3	6
149B 3724	1 1/2	10	10	10	x	x	3.3	6
149B 3725	2	10	10	10	x	x	3.3	6

Dimensions at the end of the section.

FOOT VALVES - PUMPING OF SPECIAL FLUIDS (CHEMICAL AND HYDROCARBONS)**190P female**

PRESSURE PFA / PS in bar @ 60°

CASING : PP (polypropylene)

CLOSING SYSTEM : PP (polypropylene)

SEAL : FKM

SPRING : stainless steel

STRAINER : PP (polypropylene)

APPROVAL :  ACS

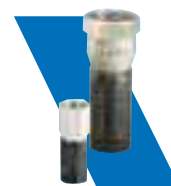
Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2017	3/8	10	10	10	x	x	3.3	1
149B 14065	1/2	10	10	10	x	x	3.3	1
149B 1128	3/4	10	10	10	x	x	3.3	1

Dimensions at the end of the section.

FOOT VALVES - INDUSTRY, CHEMICAL APPLICATIONS, HYDROCARBONS, PUMPING

190X female

PRESSURE PFA / PS in bar θ 60°
 CASING : 304L stainless steel
 CLOSING SYSTEM : POM (polyacetal)
 SEAL : FKM
 SPRING : stainless steel
 STRAINER : PE (polyethylene)
 APPROVAL :



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 1118	3/4	10	10	10	x	x	3.3	1
149B 1119	1	10	10	10	x	x	3.3	1
149B 1120	1 1/4	10	10	10	x	x	3.3	1
149B 1121	1 1/2	10	10	10	x	x	3.3	1
149B 1122	2	10	10	10	x	x	3.3	1

Dimensions at the end of the section.

FOOT VALVES - HOUSING, PUMPING, HYDROCARBONS...

193D female

PRESSURE PFA / PS in bar θ 60°
 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 :



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3619	3/8	10	10	10	x	x	3.3	10
149B 3620	1/2	10	10	10	x	x	3.3	10
149B 3621	3/4	10	10	10	x	x	3.3	10
149B 3622	1	10	10	10	x	x	3.3	10
149B 3623	1 1/4	10	10	10	x	x	3.3	10
149B 3624	1 1/2	10	10	10	x	x	3.3	6
149B 3625	2	10	10	10	x	x	3.3	6

Dimensions at the end of the section.

193/114 femalePRESSURE PFA / PS in bar θ 65°

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 :



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3819	3/8	10	10	10	x	x	3.3	10
149B 3820	1/2	10	10	10	x	x	3.3	10
149B 2371 V	3/4*	10	10	10	x	x	3.3	10
149B 2372 V	1*	10	10	10	x	x	3.3	10
149B 2373 V	1 ^{1/4} *	10	10	10	x	x	3.3	10
149B 3824	1 ^{1/2}	10	10	10	x	x	3.3	6
149B 3825	2	10	10	10	x	x	3.3	6

* Type 114

Dimensions at the end of the section.

DOMESTIC PUMPING, HOUSING**60S female**PRESSURE PFA / PS in bar θ 80°

CASING : bronze

CLOSING SYSTEM + GUIDE : 3/4" to 2" : POM (polyacetal) bottom plate in PE (polyethylene)

2 1/2" to 4" : all in bronze

SEAL : NBR (nitrile)

SPRING : stainless steel

STRAINER and screws : stainless steel


APPROVAL :



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 4101 B	3/4	16	16	16	x	x	3.3	1
149B 4102 B	1	16	16	16	x	x	3.3	1
149B 4103 B	1 ^{1/4}	16	16	16	x	x	3.3	1
149B 4104 B	1 ^{1/2}	16	16	16	x	x	3.3	1
149B 4105 B	2	16	16	16	x	x	3.3	1
149B 4106 B	2 ^{1/2}	16	16	16	x	x	3.3	1
149B 4107 B	3	16	16	16	x	x	3.3	1
149B 4108 B	4	16	16	16	x	x	3.3	1

Dimensions at the end of the section.

104 female


PRESSURE PFA / PS in bar @ 65°
 CASING : brass
 CLOSING SYSTEM : POM (polyacetal)
 SEAL : EPDM
 SPRING : stainless steel
 STRAINER : PE (polyethylene)
 APPROVALS :  ACS



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2371	3/4	10	10	10	x	x	3.3	10
149B 2372	1	10	10	10	x	x	3.3	10
149B 2373	1 1/4	10	10	10	x	x	3.3	10

Dimensions at the end of the section.

104P female

PRESSURE PFA / PS in bar @ 65°
 CASING : PPO (polyphenylene oxide) Except for DN 1" : POM (polyacetal)
 CLOSING SYSTEM : POM (polyacetal)
 SEAL : EPDM
 SPRING : stainless steel
 STRAINER : PE (polyethylene)
 APPROVALS :  ACS



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2361	3/4	10	10	10	x	x	3.3	10
149B 2362	1	10	10	10	x	x	3.3	10
149B 2363	1 1/4	10	10	10	x	x	3.3	10

Dimensions at the end of the section.

OVERALL DIMENSIONS

144



Type 144 with flange

A mm	B mm	C mm	D mm	Kg	KV m ³ /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

290X



Type 290X female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
1/4	8/13	52,5	19	0,080	2,00	1,6
3/8	12/17	54,0	19	0,080	3,13	1,6
1/2	15/21	66,0	27	0,130	5,00	3,1
3/4	20/27	73,0	30	0,220	8,23	3,7
1	26/34	94,0	38	0,370	12,07	4,2
1 1/4	33/42	105,0	47	0,470	23,00	3,1
1 1/2	40/49	127,0	53	0,750	30,00	4,4
2	50/60	156,0	66	1,010	46,60	4,5

290 - 297



Types 290 - 297 female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
1/4	8/13	52,5	20	0,060	2,00	1,6
3/8	12/17	54,0	20	0,075	3,13	1,6
1/2	15/21	66,0	24	0,125	5,00	3,1
3/4	20/27	73,0	30	0,200	8,23	3,7
1	26/34	94,0	38	0,200	12,07	4,2
1 1/4	33/42	105,0	47	0,430	23,00	3,1
1 1/2	40/49	120,0	53	0,650	30,00	4,4
2	50/60	156,0	66	1,050	46,60	4,5

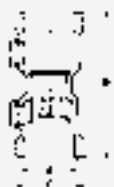
290D 290P - 297D



Types 290D 290P - 297D female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
3/8	12/17	54	23	0,018	3,13	1,6
1/2	15/21	66	28	0,030	5,00	3,1
3/4	20/27	80	34	0,043	8,23	3,7
1	26/34	100	44	0,075	12,07	4,2

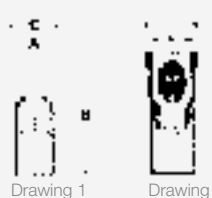
209



Type 209 female/female

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
1/2	15/21	66	26	0,160	5,00	3,1
3/4	20/27	73	30	0,185	8,23	3,7
1	26/34	94	38	0,295	12,07	4,2
1 1/4	33/42	105	47	0,420	23,00	3,1
1 1/2	40/49	127	53	0,590	30,00	4,4
2	50/60	156	66	1,090	46,60	4,5

190 / 190X



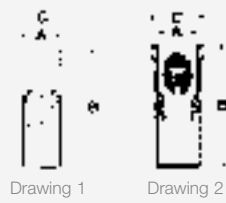
Types 190/190X female

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

Drawing 2 : Ø 3/8 - 1/2 - 1

A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
190						
*1 1/2	40/49	148	53	0,320	30,6	4,3
*2	50/60	179	66	0,820	48,5	4,1
190X						
*3/4	20/27	75	31	0,120	7,9	4,0
1	26/34	97	36	0,210	11,9	4,3
*1 1/4	33/42	119	47	0,360	23,0	3,1
*1 1/2	40/49	148	53	0,530	27	5,5
*2	50/60	179	66	0,820	42	5,5

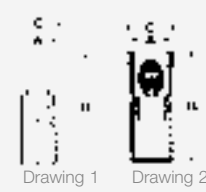
190P / 190D



Types 190P/190D female
 Drawing 1* : Ø 3/4 - 1 1/4 - 1 1/2 - 2
 Drawing 2 : Ø 3/8 - 1/2 - 1

A		B mm	C mm	Kg	KV m³/H	ζ
"	mm					
190P						
3/8	12/17	56	23	0,015	2,8	2,0
1/2	15/21	56	27	0,020	2,8	10,8
*3/4	20/27	75	31	0,044	7,4	4,6
190X						
3/8	12/17	56	23	0,015	2,9	1,9
1/2	15/21	56	27	0,020	2,9	9,4
*3/4	20/27	75	31	0,044	7,9	4,0
1	26/34	95	40	0,073	11,9	4,3
*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

193D



Type 193D female

A		B mm	C mm	Kg	KV m³/H	ζ
"	mm					
3/8	12/17	59,0	23	0,060	2,5	2,50
1/2	15/21	59,0	24	0,050	2,5	12,70
3/4	20/27	64,5	30	0,085	8,0	3,90
1	26/34	78,5	37	0,115	11,9	4,30
1 1/4	33/42	97,0	47	0,240	20,0	4,11
1 1/2	40/49	148,0	53	0,530	24,0	7,00
2	50/60	179,0	66	0,820	37,3	7,00

Drawing 1 : Ø 3/4 - 1 1/4 - 1 1/2 - 2
 Drawing 2 : Ø 3/8 - 1/2 - 1

114



Type 114 female

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

60S



Type 60S female

A		B mm	C mm	Kg	KV m³/H	ζ
"	mm					
3/4	20/27	90	33	0,14	6,5	5,90
1	26/34	125	49	0,36	16,5	2,24
1 1/4	33/42	127	57	0,45	26,0	2,40
1 1/2	40/49	138	65	0,73	34,0	3,50
2	50/60	146	77	0,95	52,0	3,60
2 1/2	66/76	198	93	2,80	75,0	5,00
3	80/90	243	116	5,00	111,0	5,20
4	102/114	315	156	8,60	171,0	5,36

104 - 104P



Types 104 - 104P female

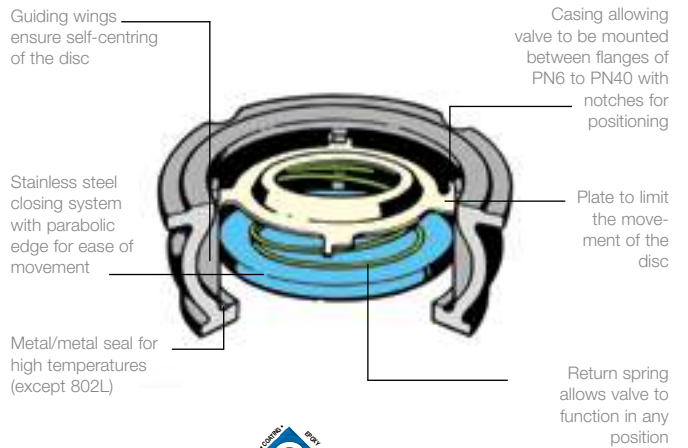
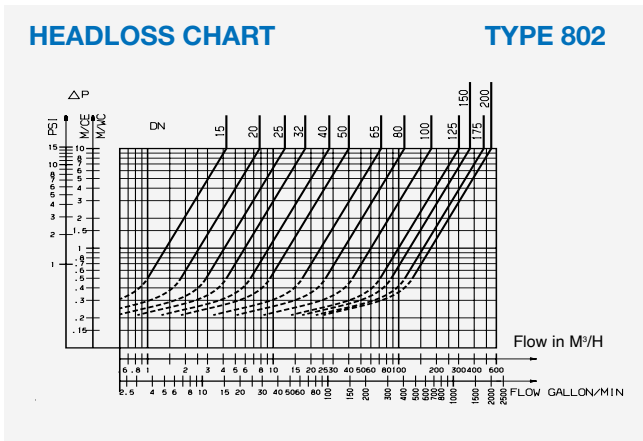
A		B mm	C mm	Kg	KV m³/H	ζ
"	mm					
3/4	20/27	64,5	34	0,03	8,0	3,90
1	26/34	78,5	40	0,04	11,9	4,30
1 1/4	33/42	97,0	49	0,07	20,0	4,11

Chapter 2.8

W SYSTEMS

W SYSTEM

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



HEATING, INDUSTRIAL PROCESS

802 between flanges PN6-10-16-ASA150

PRESSURE PFA / PS in bar θ 200°, 65 to 200mm θ 100°

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 : PED 97/23/CE ACS



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 2413	1 1/4	32	16	16	16	16	16		1
149B 2414	1 1/2	40	16	16	16	16	16		1
149B 2415	2	50	16	16	16	16	16		1
149B 2416	2 1/2	65	16	16	16	15	16		1
149B 2417	3	80	16	16	16	12	16		1
149B 2418	4	100	16	16	16	10	16		1
149B 2439	5	125	16	16	16	0,5	16		1
149B 2440	6	150	16	13	16	0,5	16		1
149B 2441	8	200	16	10	16	0,5	16		1

*DN 125 to 200 : assembling PN 10/16

Dimensions at the end of the section.

INDUSTRY, CORROSIVE FLUIDS, HIGH PRESSURE AND TEMPERATURE

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

PRESSURE PFA 40 bar θ 350°

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 :   PED 97/23/CE ACS



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2420	1/2	15	40	40	40	40	40	3.3	1
149B 2421	3/4	20	40	40	40	40	40	3.3	1
149B 2421C2*	3/4	20	40	40	40	40	40	II	1
149B 2422	1	25	40	40	40	40	40	3.3	1
149B 2422C2*	1	25	40	40	40	40	40	II	1
149B 2423	1 1/4	32	40	40	40	30	40	I	1
149B 2423C2*	1 1/4	32	40	40	40	40	40	II	1
149B 2424	1 1/2	40	40	40	40	25	40	I	1
149B 2424C2*	1 1/2	40	40	40	40	40	40	II	1
149B 2425	2	50	40	40	40	20	40	I	1
149B 2425C2*	2	50	40	40	40	40	40	II	1
149B 2426	2 1/2	65	40	30	40	15	40	I	1
149B 2426C2*	2 1/2	65	40	40	40	40	40	II	1
149B 2427	3	80	40	25	40	12	40	I	1
149B 2427C2*	3	80	40	40	40	40	40	II	1
149B 2428	4	100	40	20	40	10	40	I	1
149B 2428C2*	4	100	40	40	40	40	40	II	1
149B 2429	5	125	40	16	40	0,5	28	I	1
149B 2429C2*	5	125	40	40	40	28	40	II	1
149B 2430	6	150	40	13	40	0,5	23	I	1
149B 2430C2*	6	150	40	40	40	23	33	II	1
149B 2431*(1)	8	200	16	16	16	16	16	II	1
149B 2432*(2)	8	200	40	40	40	17	25	II	1

(1) PN16-ASA150 - (2) PN25/40-ASA300 * Conformed to the Directive 94/9/CE (products or systems used in a explosive atmosphere)

INDUSTRY, PROCESS LIQUIDS, HIGH PRES-SURE AND TEMPERATURE, STEAM SERVICE

812X between flanges PN6-10-16-25-40-ASA150-ASA300PRESSURE PFA 40 bar θ 350°

All stainless steel (316L)

Between flanges

APPROVALS :   ACS

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2420X	1/2	15	40	40	40	40	40	3.3	1
149B 2421X	3/4	20	40	40	40	40	40	3.3	1
149B 027054*	3/4	20	40	40	40	40	40	II	1
149B 2422X	1	25	40	40	40	40	40	3.3	1
149B 027055*	1	25	40	40	40	40	40	II	1
149B 2423X	1 1/4	32	40	40	40	30	40	I	1
149B 018819*	1 1/4	32	40	40	40	40	40	II	1
149B 2424X	1 1/2	40	40	40	40	25	40	I	1
149B 018820*	1 1/2	40	40	40	40	40	40	II	1
149B 2425X	2	50	40	40	40	20	40	I	1
149B 018821*	2	50	40	40	40	40	40	II	1
149B 2426X	2 1/2	65	40	30	40	15	40	I	1
149B 018822*	2 1/2	65	40	40	40	40	40	II	1
149B 2427X	3	80	40	25	40	12	40	I	1
149B 018823*	3	80	40	40	40	40	40	II	1
149B 2428X	4	100	40	20	40	10	40	I	1
149B 018824*	4	100	40	40	40	40	40	II	1
149B 2429X	5	125	40	16	40	0,5	28	I	1
149B 018825*	5	125	40	40	40	28	40	II	1
149B 2430X	6	150	40	13	40	0,5	23	I	1
149B 018826*	6	150	40	40	40	23	33	II	1
149B 2431X*(1)	8	200	16	16	16	16	16	II	1
149B 2432X*(2)	8	200	40	40	40	17	25	II	1

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

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

INDUSTRY, PROCESS LIQUIDS, HIGH PRES-SURE AND TEMPERATURE, STEAM SERVICE

802L between flanges PN6-10-16-ASA150PRESSURE PFA/PS in bar θ 100°CASING : \varnothing 32 to 50 mm : DZR brass, \varnothing 65 to 100 mm : cast iron GJL ext. epoxy coated

CLOSING SYSTEM : brass

GUIDE : austenitic steel

SPRING : austenitic steel

SEAL : EPDM

APPROVALS :   

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2413 L	1 1/4	32	16	16	16	16	16	I	1
149B 2414 L	1 1/2	40	16	16	16	16	16	I	1
149B 2415 L	2	50	16	16	16	16	16	I	1
149B 2416 L	2 1/2	65	16	16	16	15	16	I	1
149B 2417 L	3	80	16	16	16	12	16	I	1
149B 2418 L	4	100	16	16	16	10	16	I	1

CORROSIVE FLUIDS, HIGH TEMPERATURE

802Z between flanges PN6-10-16-ASA150

PRESSURE PFA/PS in bar θ 230°

CASING : bronze

CLOSING SYSTEM : 316L stainless steel or bronze

GUIDE : stainless steel or bronze

SPRING : stainless steel

APPROVALS :   PED 97/23/CE ACS



Part Number	DN "	mm	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 2413 Z	1 1/4	32	16	16	16	16	16	I	1
149B 2414 Z	1 1/2	40	16	16	16	16	16	I	1
149B 2415 Z	2	50	16	16	16	16	16	I	1
149B 2416 Z	2 1/2	65	16	16	16	15	16	I	1
149B 2417 Z	3	80	16	16	16	12	16	I	1
149B 2418 Z	4	100	16	16	16	10	16	I	1
149B 2439 Z	5	125	16	16	16	0,5	16	I	1
149B 2440 Z	6	150	16	13	16	0,5	16	I	1
149B 2441 Z	8	200	16	10	16	0,5	16	I	1

HEATING, INDUSTRIAL APPLICATIONS

802T between flanges female/female

PRESSURE PFA/PS in bar θ 200°

CASING : DZR brass with stainless steel (316) threaded connections, (3 pieces)

CLOSING SYSTEM : stainless steel (316L)

GUIDE : austenitic steel

SPRING : stainless steel

APPROVALS :   PED 97/23/CE ACS



Part Number	DN "	mm	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 2413 T	1 1/4	32	16	16	16	16	16	I	1
149B 2414 T	1 1/2	40	16	16	16	16	16	I	1
149B 2415 T	2	50	16	16	16	16	16	I	1

Dimensions at the end of the section.

INDUSTRY, PROCESS LIQUIDS, STEAM SERVICE

812XT between flanges female/femalePRESSURE PFA 40 bar/PS in bar θ 200°

All stainless steel (316L and 316)

3 piece – threaded ends

APPROVALS :   PED 97/23/CE ACS

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2420 XT	1/2	15	40	40	40	40	40	3.3	1
149B 027060*	1/2	15	40	40	40	40	40	II	1
149B 2421 XT	3/4	20	40	40	40	40	40	3.3	1
149B 027063*	3/4	20	40	40	40	40	40	II	1
149B 2422 XT	1	25	40	40	40	40	40	3.3	1
149B 027068*	1	25	40	40	40	40	40	II	1
149B 2423 XT	1 1/4	32	40	40	40	30	40	I	1
149B 018837*	1 1/4	32	40	40	40	40	40	II	1
149B 2424 XT	1 1/2	40	40	40	40	25	40	I	1
149B 018838*	1 1/2	40	40	40	40	40	40	II	1
149B 2425 XT	2	50	40	40	40	20	40	I	1
149B 018839*	2	50	40	40	40	40	40	II	1

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

Dimensions at the end of the section.

812XB between flanges butt weldedPRESSURE PFA 40 bar/PS in bar θ 200°

All stainless steel (316L and 316)

3 piece – butt welded

APPROVALS :   PED 97/23/CE ACS

Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2420 XB	1/2	15	40	40	40	40	40	3.3	1
149B 027058*	1/2	15	40	40	40	40	40	II	1
149B 2421 XB	3/4	20	40	40	40	40	40	3.3	1
149B 027061*	3/4	20	40	40	40	40	40	II	1
149B 2422 XB	1	25	40	40	40	40	40	3.3	1
149B 027065*	1	25	40	40	40	40	40	II	1
149B 2423 XB	1 1/4	32	40	40	40	30	40	I	1
149B 018831*	1 1/4	32	40	40	40	40	40	II	1
149B 2424 XB	1 1/2	40	40	40	40	25	40	I	1
149B 018832*	1 1/2	40	40	40	40	40	40	II	1
149B 2425 XB	2	50	40	40	40	20	40	I	1
149B 018833*	2	50	40	40	40	40	40	II	1

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

Dimensions at the end of the section.

INDUSTRY, PROCESS LIQUIDS, STEAM SERVICE

812XS between flanges socket welded

PRESSURE PFA 40 bar/PS in bar θ 200°

All stainless steel (316L and 316)

3 piece – socket welded

APPROVALS :   PED 97/23/CE ACS



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2420 XS	1/2	15	40	40	40	40	40	3.3	1
149B 027059*	1/2	15	40	40	40	40	40	II	1
149B 2421 XS	3/4	20	40	40	40	40	40	3.3	1
149B 027062*	3/4	20	40	40	40	40	40	II	1
149B 2422 XS	1	25	40	40	40	40	40	3.3	1
149B 027067*	1	25	40	40	40	40	40	II	1
149B 2423 XS	1 1/4	32	40	40	40	30	40	I	1
149B 018834*	1 1/4	32	40	40	40	40	40	II	1
149B 2424 XS	1 1/2	40	40	40	40	25	40	I	1
149B 018835*	1 1/2	40	40	40	40	40	40	II	1
149B 2425 XS	2	50	40	40	40	20	40	I	1
149B 018836*	2	50	40	40	40	40	40	II	1

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

Dimensions at the end of the section.

INDUSTRY, PROCESS LIQUIDS, HIGH PRES-SURE AND TEMPERATURE, STEAM SERVICE

812XL between flanges PN6-10-16-25-40-ASA150-ASA300

PRESSURE PFA 40 bar/PS in bar θ 350°

All stainless steel (316L)

SEAL : EPDM

APPROVALS :   PED 97/23/CE ACS



Part Number	DN		PFA water	PS				Cat	UV
	“	mm		L1	L2	G1	G2		
149B 2423 XL	1 1/4	32	40	40	40	30	40	I	1
149B 2424 XL	1 1/2	40	40	40	40	25	40	I	1
149B 2425 XL	2	50	40	40	40	20	40	I	1
149B 2426 XL	2 1/2	65	40	30	40	15	40	I	1
149B 2427 XL	3	80	40	25	40	12	40	I	1
149B 2428 XL	4	100	40	20	40	10	40	I	1

Dimensions at the end of the section.

PROTECTION OF PUMPS, VALVES, PRESSURE REDUCING VALVE

Y333 with PN16 flanges

PRESSURE PFA/PS in bar @ 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 



Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B3260	1 1/2	40	16	16	16	x	x	3.3	1
149B3261	2	50	16	16	16	x	x	3.3	1
149B3262	2 1/2	65	16	16	16	x	x	3.3	1
149B3263	3	80	16	16	16	x	x	3.3	1
149B3264	4	100	16	16	16	x	x	3.3	1
149B3265	5	125	16	16	16	x	x	3.3	1
149B3266	6	150	16	13	16	x	x	3.3	1
149B23119	8	200	10	10	10	x	x	3.3	1
149B23121	10	250	10	10	10	x	x	1	1
149B23123	12	300	10	10	10	x	x	1	1
149B3794	14	350	10	10	10	x	x	1	1
149B3797	16	400	10	10	10	x	x	1	1

Sizes up to & including DN300 to suit PN16 flange drilling. DN350/DN400 PN10 drilling only.

Dimensions at the end of the section.

Y222 female/female

PRESSURE PFA 25 bar @ 110°

WATER FILTER : brass

STRAINER : stainless steel

mesh : 500 microns

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

APPROVAL : ACS



Part Number	DN "	UV
149B 6520	1/2	1
149B 1769	3/4	1
149B 1770	1	1
149B 1771	1 1/4	1
149B 1772	1 1/2	1
149B 1773	2	1

Dimensions at the end of the section.

INDUSTRIAL PROCESS, CORROSIVE LIQUIDS, HIGH PRESSION, HIGH TEMPERATURE

Y666 female/female

PRESSURE PFA 40 bar/PS in bar θ 175°
 FILTER : AISI 316 stainless steel. Threaded with purge plug
 MESH : 600 microns



Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 5271	1/4	40	40	40	x	x	3.3	1
149B 5272	3/8	40	40	40	x	x	3.3	1
149B 5273	1/2	40	40	40	x	x	3.3	1
149B 5274	3/4	40	40	40	x	x	3.3	1
149B 5275	1	40	40	40	x	x	3.3	1
149B 5276	1 1/4	40	40	40	x	x	3.3	1
149B 5277	1 1/2	40	40	40	x	x	3.3	1
149B 5278	2	40	40	40	x	x	3.3	1

Dimensions at the end of the section.

PUMPING

101 male

θ 60°
 Male CONNECTION : PA6 (polyamid)
 STRAINER : AISI 304 stainless steel
 MESH Ø : Ø 1,2
 APPROVAL :



Part Number	DN "	UV
149B 5361 P	3/8	10
149B 5362 P	1/2	10
149B 5363 P	3/4	10
149B 5364 P	1	10
149B 5365 P	1 1/4	10
149B 5366 P	1 1/2	6
149B 5367 P	2	6

Dimensions at the end of the section.

191D female

θ 60°
 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



Part Number	DN "	UV
149B 3739	3/8	10
149B 3740	1/2	10
149B 3741	3/4	10
149B 3742	1	10
149B 3743	1 1/4	10
149B 3744	1 1/2	6
149B 3745	2	6


Dimensions at the end of the section.

PUMPING, IRRIGATION**46 with PN10 flange**

θ 80°

FLANGE : cast iron epoxy coated

STRAINER : PP (polypropylene)

APPROVAL :  ACS

Part Number	“	DN	mm		UV
149B 2815	2		50		1
149B 2816	2 ^{1/2}		65		1
149B 2818	3		80		1
149B 2820	4		100		1


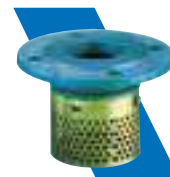
Dimensions at the end of the section.

46G with PN10 flange

θ 100°

FLANGE : cast iron epoxy coated

STRAINER : galvanised steel

APPROVAL :  ACS

Part Number	“	DN	mm		UV
149B 2139	2		50		1
149B 2140	2 ^{1/2}		65		1
149B 2141	3		80		1
149B 2142	4		100		1
149B 2821	5		125		1
149B 2822	6		150		1
149B 2823	7		175		1
149B 2824	8		200		1
149B 2825	10		250		1
149B 2826	12		300		1
149B 2827	14		350		1
149B 2828	16		400		1

Dimensions at the end of the section.

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

46 X with PN10 flange

Ø 350°

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

Part Number	DN		UV
	“	mm	
149B 5846 A	1 1/2	40	1
149B 5847 A	2	50	1
149B 5848 A	2 1/2	65	1
149B 5849 A	3	80	1
149B 5850 A	4	100	1
149B 5851 A	5	125	1
149B 5852 A	6	150	1
149B 5853 A	7	175	1
149B 5854 A	8	200	1
149B 5855 A	10	250	1
149B 5856 A	12	300	1
149B 5857 A	14	350	1
149B 5858 A	16	400	1
149B 5859 A	18	450	1
149B 5860 A	20	500	1
149B 5861 A	24	600	1
149B 5862 A	28	700	1
149B 5863 A	32	800	1
149B 5864 A	36	900	1
149B 5865 A	42	1000	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

802 - 802L - 802Z - 812 - 812X - 812XL



Types 802 - 802L - 802Z - 812 - 812X - 812XL between flanges

	A		B mm	C PN6 mm	C PN10/16 mm	Kg	KV m ³ /H	ζ
	"	mm						
1	1/2	15	16,0	44	53	0,10	4,24	4,4
	3/4	20	19,0	54	63	0,14	7,80	4,1
	1	25	22,0	64	73	0,23	12,40	4,0
	1 1/4	32	28,0	78	84	0,35	18,00	5,0
	1 1/2	40	31,5	88	94	0,52	28,00	5,1
2	2	50	40,0	98	109	0,73	40,10	6,1
	2 1/2	65	46,0	118	129	1,52	72,50	5,3
	3	80	50,0	134	144	2,17	111,00	5,2
3	4	100	60,0	154	162	3,35	182,00	4,7
	5	125	90,0		192	8,55	302,00	4,2
	6	150	106,0		218	12,70	370,00	5,8
	8	200	140,0		273	23,40	546,00	8,4

802T-812XT



Types 802T-812XT female/female

	A		B		C		D		Kg	KV m ³ /H	ζ
	"	mm	802T	812XT	802T	812XT	802T	812XT			
1/2	15	-	62,5	-	29,5	-	64,5	0,4	4,24	4,4	
	3/4	20	-	68,5	-	36,0	-	81,0	0,6	7,80	4,1
1	25	-	81,0	-	43,0	-	86,0	0,7	12,40	4,0	
	1 1/4	32	100,0	100,0	53,0	53,0	102,0	107,0	1,0	18,00	5,0
1 1/2	40	105,5	107,0	61,0	61,0	108,0	109,0	2,2	28,00	5,1	
	2	50	118,0	120,0	73,0	74,0	127,0	127,0	3,2	40,10	6,1
1/2	15	-	62,5	-	29,5	-	64,5	0,4	4,24	4,4	
	3/4	20	-	68,5	-	36,0	-	81,0	0,6	7,80	4,1
1	25	-	81,0	-	43,0	-	86,0	0,7	12,40	4,0	
	1 1/4	32	100,0	100,0	53,0	53,0	102,0	107,0	1,0	18,00	5,0
1 1/2	40	105,5	107,0	61,0	61,0	108,0	109,0	2,2	28,00	5,1	
	2	50	118,0	120,0	73,0	74,0	127,0	127,0	3,2	40,10	6,1

812XS



Type 812XS for socket welding

	A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
	"	mm						
1/2	21,6	64,5	33,2	64,5	0,43	4,24	4,4	
3/4	27,2	72,5	42,0	81,0	0,75	7,80	4,1	
1	34,0	80,0	48,0	86,0	1,03	12,40	4,0	
1 1/4	42,8	96,0	57,0	107,0	1,60	18,00	5,0	
1 1/2	48,7	107,5	70,0	109,0	2,60	28,00	5,1	
2	60,8	120,0	81,0	127,0	3,70	40,10	6,1	

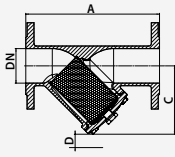
812XB



Type 812XB for butt welding

	A		B mm	C mm	D mm	Kg	KV m ³ /H	ζ
	"	mm						
1/2	16,0	67,5	23	64,5	0,43	4,24	4,0	
3/4	20,4	71,5	28	81,0	0,61	7,80	4,1	
1	26,8	84,0	35	86,0	0,90	12,40	4,0	
1 1/4	34,9	88,0	44	107,0	1,33	18,00	5,0	
1 1/2	40,8	98,5	52	109,0	2,10	28,00	5,1	
2	52,3	113,0	63	127,0	3,15	40,10	6,1	

Y333



Type Y333 with flanges

Ø mm	A mm	C mm	D mm	Mesh mm	Kg	KV m ³ /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

Y222

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

Y666



Type Y666 female/female

A "	B mm	C mm	Kg	KV m ³ /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

101



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

191D



Type 191D female

A		B mm	C mm	Kg
"	mm			
3/8	12/17	57,0	23	0,010
1/2	15/21	57,0	27	0,015
3/4	20/27	64,5	34	0,028
1	26/34	78,5	40	0,040
1 1/4	33/42	97,0	49	0,063
1 1/2	40/49	149,0	56	0,108
2	50/60	180,0	66	0,130

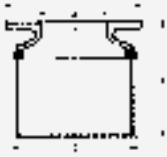
46



Type 46 with flange

A		B mm	C mm	D mm	Kg
"	mm				
2	50	127	165	101	2,05
2 1/2	65	149	185	120	2,75
3	80	179	200	143	3,75
4	100	215	220	174	4,84

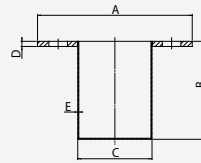
46G



Type 46G with flange

A		B mm	C mm	D mm	Kg
"	mm				
2	50	100	165	97	2,15
2 1/2	65	120	185	117	2,93
3	80	140	200	139	3,99
4	100	167	220	169	5,81
5	125	217	250	225	7,00
6	150	250	285	265	9,50
7	175	281	315	315	14,00
8	200	326	340	366	20,00
10	250	366	395	436	25,00
12	300	414	445	506	36,50
14	350	444	505	636	55,00
16	400	464	565	696	75,50

46X



Type 46X with flange

DN	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	463	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

Chapter 3

Regulation Systems

STABILISERS

PROTECTION

DESBORDES PRESSURE
REDUCING VALVES

MISCELLANEOUS

SOLENOID VALVES

AIR VALVES

Chapter 3.1

Choosing a specific control system

SELECTION PROCESS

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 C
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										
Holding a differential pressure										
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)											

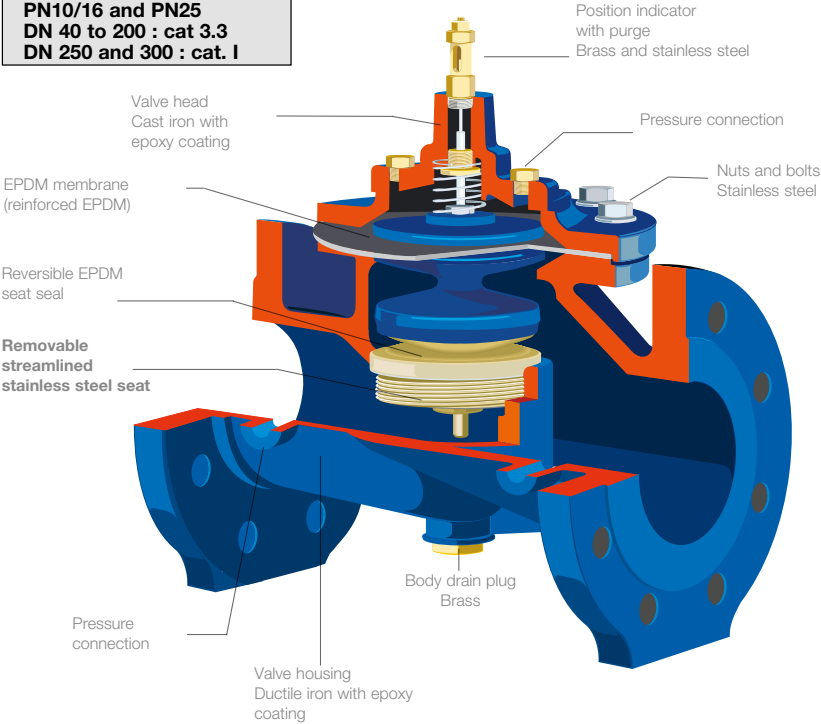
AIR CONTROL

	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 influx of air			

MAIN VALVE

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 " mm	PN	PFA bar	PS				Cat	
			L1	L2	G1	G2		
1 1/2"		10/16	16	16	16	x	x	3.3
40 and 50	10/16	16	16	16	16	x	x	3.3
65	10/16	16	16	16	16	x	x	3.3
80	10/16	16	16	16	16	x	x	3.3
100	10/16	16	16	16	16	x	x	3.3
125	10/16	16	16	16	16	x	x	3.3
150	10/16	16	16	16	16	x	x	3.3
200	10	10	10	10	10	x	x	3.3
250	10	10	10	10	10	x	x	I
300	10	10	10	10	10	x	x	I
200	16	16	10	16	16	x	x	3.3
250	16	16	10	16	16	x	x	I
300	16	16	10	16	16	x	x	I
1 1/2"		25	25	25	25	x	x	3.3
40 and 50	25	25	25	25	25	x	x	3.3
65	25	25	25	25	25	x	x	3.3
80	25	25	25	25	25	x	x	3.3
100	25	25	20	25	25	x	x	3.3
125	25	25	16	25	25	x	x	3.3
150	25	25	13	25	25	x	x	3.3
200	25	25	10	25	25	x	x	3.3
250	25	25	10	25	25	x	x	I
300	25	25	10	25	25	x	x	I

INSTALLATION EXAMPLE TYPE C101 - C102 - C104 - C108



Butterfly valve
SOCLA
page 152



Filter Y333P
SOCLA
page 8



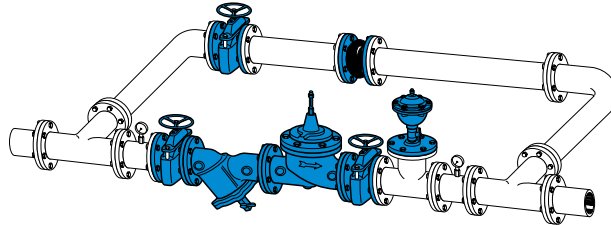
Rubber expansion joint
SOCLA
page 146



Pressure gauge
page 132



Air valve VE120
SOCLA
page 141



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.

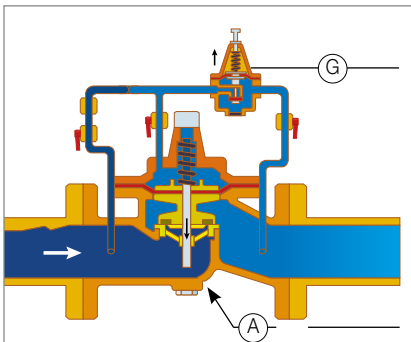
Purging the upper chamber by means of the visual position indicator.

Flushing the valves not frequently used.

Every 5 years, a general maintenance is advisable.

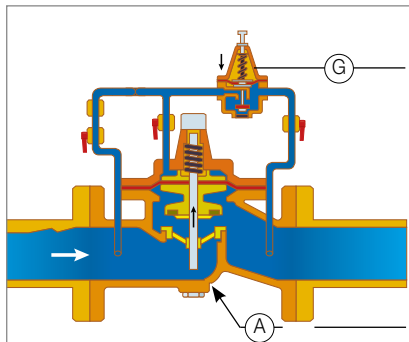
WORKING PRINCIPLE (PRESSURE REDUCING VALVE TYPE C101)

CLOSING



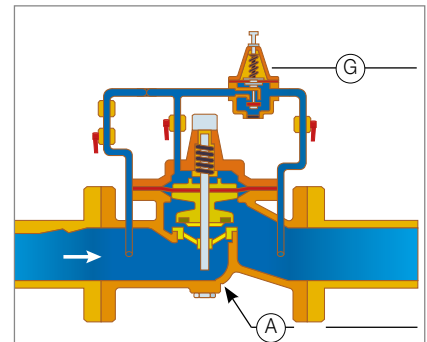
When the downstream pressure rises, the pilot valve G closes. Pressure in the upper chamber rises also and forces the membrane to close the main valve A which reproduces the movement of the pilot.

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



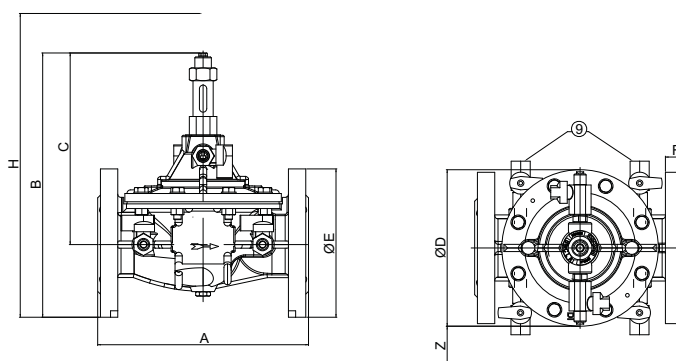
When the pilot G opens or closes, pressure in the upper chamber forces more or less on the membrane to open or close the main valve.

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



DIMENSIONS (EXCEPT TYPE 900)

DN	A mm	B mm	C mm	Ø D mm	Ø E mm	F mm	H mm*	H mm C501	Z mm	Kg	9	10
1" 1/2(F/F)	230	267	210	170	6 pans (1)	-	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

It is advisable to use a strainer upstream and an air relief valve downstream

*(Except C501) (1) 78 / flats

DIMENSIONS 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

IMPORTANT

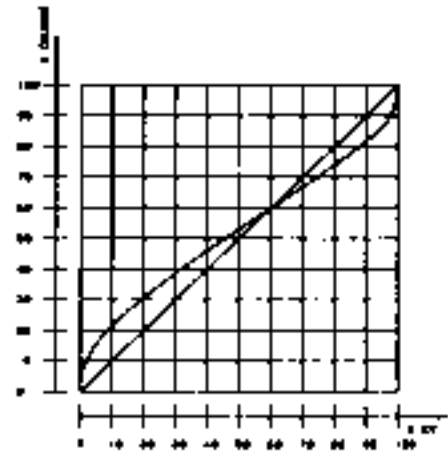
- Pilot circuit always mounted on the right hand side of valve, looking downstream direction of valve (for other execution, consult us).
- Control valve installed according to your parameters. These parameters are always required with the order : this is necessary to guarantee a correct functioning of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

HOW TO SELECT THE RIGHT SIZE

KV FACTOR

FLOW RATE OPENING

Sizes	Except C 900	C900	Maxi m ³ /h	m ³ /h	L/s	ζ
1"1/2	0,520	-	20,34	26,35	7,32	5,78
40	0,675	5	32,00	45,66	12,68	1,93
50	0,675	7	32,00	45,66	12,68	4,70
65	0,855	14	54,00	57,75	16,08	8,39
80	1,600	18	82,00	80,00	22,22	10,00
100	2,720	28	127,00	136,00	37,78	8,47
125	4,400	44	199,00	220,00	61,11	7,90
150	5,280	64	286,00	264,00	73,33	11,38
200	13,500	113	509,00	600,00	166,67	6,96
250	25,000	177	795,00	900,00	250,00	7,56
300	40,900	255	1145,00	1224,00	340,00	8,47



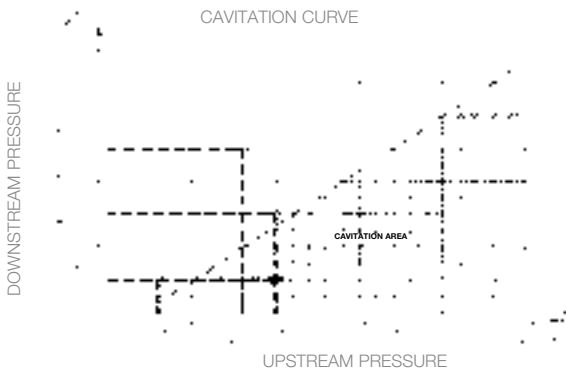
To size this valve correctly and avoid undesirable operating characteristics (noise, excessive wear, poor regulation) which result from oversizing (or undersizing), use the sizing guide and choose the smallest valve size compatible with the indicated flow rates.

NOTE :

- 1 - For a throttling valve application requiring a wide range of flows a dual valve installation should be used.
- 2 - 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.
- 3 - For C900 series : min. flow 1m/s.a

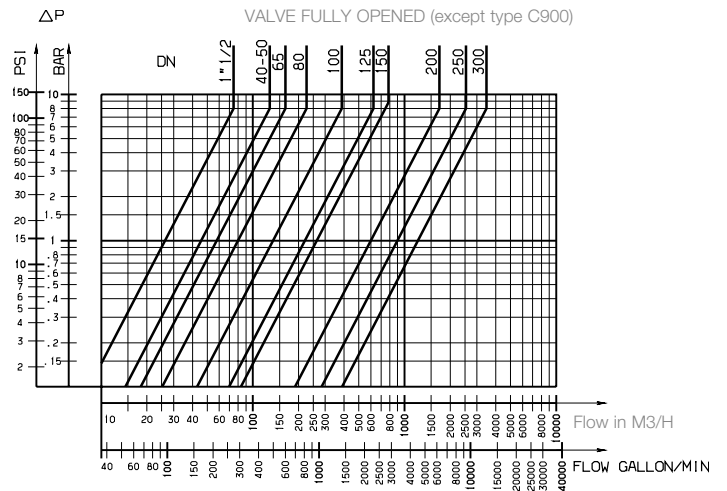
CAVITATION

HEADLOSS CHART



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



Chapter 3.2

Stabilisers

PRESSURE REDUCING VALVES

C101

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C101C

Type C 101 provided with a check valve feature.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C102

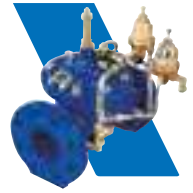
Type C 101 equipped with two identical pilot valves. The addition of a second pilot allows uninterrupted working while servicing one of the pilots or ease the change of a different pressure setting.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C108

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

COMBINED PRESSURE REDUCING VALVES

C104

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C104C

Type C 104 provided with a check valve feature.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

BACK PRESSURE VALVES

C301

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C301C

Type C 301 provided with a check valve feature.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

DIFFERENTIAL BACK PRESSURE

C306

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C306C

Type C 306 provided with a check valve feature.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

Chapter 3.3

Altitude

ALTITUDE VALVES FLOAT OPERATED

C701

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	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C702

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	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C717

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 : 3,6m. (Connecting pipe Ø4/6 mm from the pressure tap to the valve not included)



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

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 non included.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C707

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	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C727

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

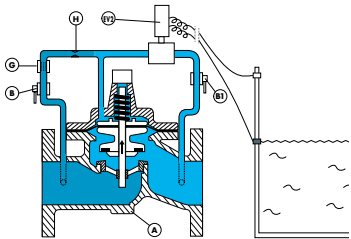


DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

WORKING PRINCIPLE

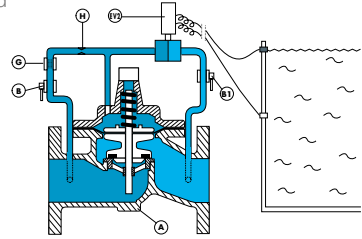
EXAMPLE : Type C707

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.

- A Main valve housing : cast iron
- B Upstream isolation valve : nickel-plated brass
- ⓑ Downstream isolation valve : nickel-plated brass
- ⓔ 2 ways solenoid valve - G Filter : brass
- H Orifice-needle valve : stainless steel or brass



ALTITUDE VALVES PILOT OPERATED

C201

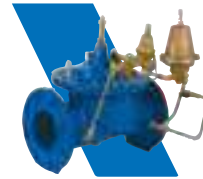
Prevents overflowing and maintains the level of water in a storage tank, pilot controlled exists in top-fill or bottom-fill versions. Minimum setting : 2 m.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

C221

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

Chapter 3.4

Protection

OVERPRESSURE PROTECTION, DISCHARGE VALVE

C401

Installed for the protection against the excess of pressure.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300



C401C

Type C401 provided with a check valve feature.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300



ANTI-WATER HAMMER PROTECTION

C501

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300



PUMP PROTECTION

C601

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



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

ON/OFF OPTION ELECTRICALLY CONTROLLED

C801/C802

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.



DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300

OVERSPEED PROTECTION

C906

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

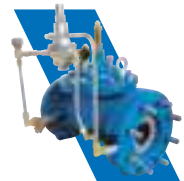


DN	DN
40 and 50	150
65	200
80	250
100	300
125	

FLOW RATE CONTROL/FLOW LIMITER

C901

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



DN	DN
40 and 50	150
65	200
80	250
100	300
125	

FLOW RATE CONTROL/FLOW LIMITER

C902

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

DN	DN
40 and 50	150
65	200
80	250
100	300
125	



C903

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).

DN	DN
40 and 50	150
65	200
80	250
100	300
125	



C904

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

DN	DN
40 and 50	150
65	200
80	250
100	300
125	



PRESSURE GAUGES

OPTION 1

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

DN	DN
1" 1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300



SOLENOID VALVE

OPTION 2

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

Normally Closed		Normally Open	
DC	12V/CC	DC	12V/CC
DC	24V/CC	DC	24V/CC
AC	24V/50Hz	AC	24V/50Hz
AC	220V/50Hz	AC	220V/50Hz



POSITION INDICATOR

OPTION 3

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

DN	DN
1"1/2 (F/F)	125
40 and 50	150
65	200
80	250
100	300



MOTORISATION

OPTION 4

TYPE C900 EXCEPT C906 MOTORISATION 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



OVERPRESSURE PROTECTION - WATER DISTRIBUTION

AB900 PN 16*

Safety valve to protect pipe systems from water hammering.
Cast iron or C-steel cap, C-steel flange, polyurethane seal, steel spring.
PFA PRESSURE 16 bar*

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

APPROVAL : ACS



Part Number	DN
149B 5891	60
149B 5892	65
149B 5893	80
149B 5894	100
149B 5895	125
149B 5896	150
149B 5897*	200

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

Dimensions at the end of the section.

AB900 PN 25

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

PFA PRESSURE 25 bar

APPROVAL : ACS



3

Part Number	DN
149B 009172	60
149B 009174	65
149B 009175	80
149B 009176	100
149B 009178	125
149B 009179	150

Spring : 16 to 25 bar

Dimensions at the end of the section.

WATER DISTRIBUTION AND HOT WATER HEATING SYSTEMS**14BIS HP**

Safety valve with progressive opening @ 80°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

**male/female**

Part Number	DN
male/female	
149B7089	3/8"
149B7095	1/2"
149B56836	3/4"
149B7113	1"
14 BIS HP PL	
149B7255	3/8"
149B7096	1/2"
149B7106	3/4"
149B7114	1"

Dimensions at the end of the section.

14BIS BP

Safety valve with progressive opening @ 80°C

Casing : bronze - brass

Spring : stainless steel

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



male/female

Part Number	DN
male/female	
149B7077	3/8"
149B7079	1/2"
149B7081	3/4"
149B7083	1"
14 BIS BP PL	
149B7078	3/8"
149B7080	1/2"
149B7082	3/4"
149B7084	1"

Dimensions at the end of the section.

14BIS HPT & 14BIS BPT

Safety valve with progressive opening @ 80°C

Casing : bronze - brass

Spring : stainless steel

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



male/female

Part Number	DN
14BIS HPT male/female	
149B7121	3/8"
149B7122	1/2"
149B7123	3/4"
149B7124	1"
14 BIS BPT male/female	
149B7085	3/8"
149B7086	1/2"
149B7087	3/4"
149B7088	1"

Dimensions at the end of the section.

EVACUATES PRESSURE FOR WATER APPLICATION**SV1821 - female / female**

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



3

Part Number	DN
149B6834	3/8"
149B6835	1/2"
149B6836	3/4"
149B6837	1"
149B6838	1 ¹ / ₄ "
149B6839	1 ¹ / ₂ "
149B6840	2"
149B6841	2 ¹ / ₂ "
149B6842	3"

RP204 - female / female

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



Part Number	DN
149B6670	15
149B6671	20
149B6672	25
149B6664	32
149B6665	40
149B6666	50
149B6667	65
149B6668	80
149B6673	100

OVERALL DIMENSIONS

Type AB900

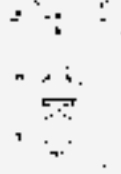
Type AB900



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

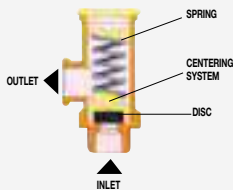
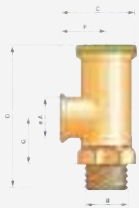
Type AB900

Type AB900



DN	H mm	L x l 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

14BIS

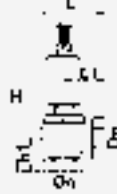


Types
 14BIS HP - 14BIS HP PL
 14BIS BP - 14BIS BP PL
 14BIS HPT - 14BIS BPT
 male/female

DN	θ B mm	θ 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

SV1821

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

RP204

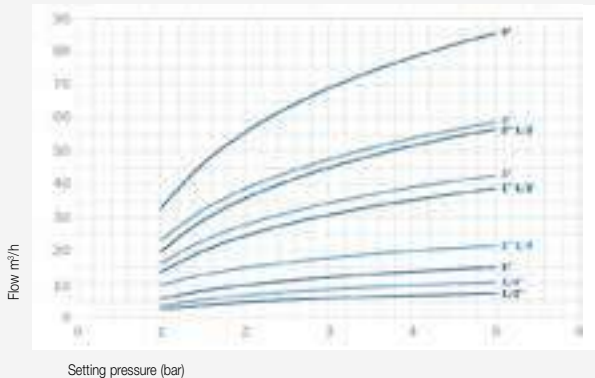


Type RP 204
female/female

DN	D		L mm	A mm	H mm	h1 mm	h2 mm
	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

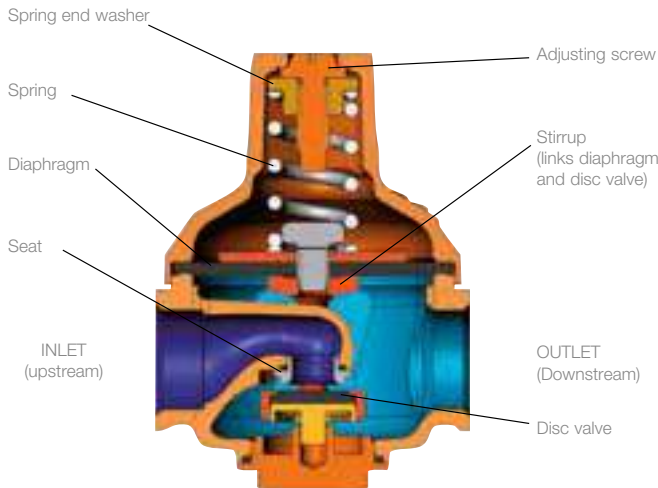
TYPE RP204



Chapter 3.5

Desbordes 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  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 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.

SETTING THE PRESSURE REDUCING VALVE

To increase downstream pressure :



To decrease downstream pressure :



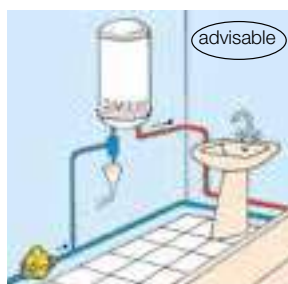
INSTALLATION



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.



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

10 & 10RC male / 10BIS & 10BISRC female/female

Maximum upstream pressure 25 bar @ 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 : 

3

Part Number	DN	Part Number	DN
10		10RC	
149B7000	15	149B7029	15
149B7001	20	149B7030	20
149B7002	25	149B7031	25

Part Number	DN	Part Number	DN
10BIS		10BIS RC	
149B7003	10	149B7019	10
149B7004	15	149B7020	15
149B7005	20	149B7021	20
149B7006	25	149B7022	25
149B7007	32	149B7023	32
149B7008	40	149B7024	40
149B7009	50	149B7025	50
149B7011	65	149B7027	65
149B7012	80	149B7028	80
149B7225	100	-	100



Dimensions at the end of the section.

10TER & 10TER RC with flanges

Maximum upstream pressure 16 bar @ 80°C

Flange drilling PN16

Standard EN1092.

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

APPROVAL : ACS



Part Number	DN	Part Number	DN
10 TER		10TER RC	
149B7032	32	149B7038	32
149B7033	40	149B7039	40
149B7034	50	149B7040	50
149B7036	65	149B7042	65
149B7037	80	149B7043	80
149B7226	100	-	100

Dimensions at the end of the section.

SEA WATER APPLICATIONS VERY AGGRESSIVE WATER

10 BIS BZ female/female

Maximum upstream pressure 25 bar @ 80°C

All internal components in Bronze

With 1/4" plugs on both sides to allow pressure gauge connection - Setting : from 1 to 6 bar (indicative value according to EN1567 standard)

APPROVAL : ACS

Manufactured on order only



Part Number	DN
149B7013	25
149B7014	32
149B7015	40
149B7016	50
149B7017	65
149B7018	80

Dimensions at the end of the section.

SPARE PARTS

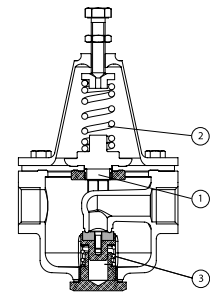
for pressure reducers Ref. 10, 10 BIS and 10 TER

* The complete stirrup includes :

the stirrup, the stirrup plug, the diaphragm, the seal and the counter seat, fully assembled.

DN100 : membrane (ref. 149F023362)

1. Complete stirrup*	2. Setting spring	3. Compensating spring	DN	mm	"
Part Number	Part Number	Part Number			
149B7045	149B7285	149F025550	10	12/17	3/8
149B7045	149B7285	149F025550	15	15/21	1/2
149B7046	149B7286	149B7354	20	20/27	3/4
149B7047	149B7287	149F025552	25	26/34	1
149B7048	149B7288	149B7356	32	33/42	1¼
149B7049	149B7289	149F025554	40	40/49	1½
149B7050	149B7290	149F025555	50	50/60	2
149B7052	149F025528	149F025556	65	66/76	2½
149B7053	149B7293	149F025557	80	80/90	3
	consult us		100	102/114	4



Pressure gauge nipple - 487 female/male

Female/male with 1/4" plug

Casing in bronze

Part Number	DN
149B7179	1/2
149B7180	3/4
149B7181	1
149B7182	1¼
149B7183	1½
149B7184	2
149B7185	2¼
149B7186	2½
149B7187	3





FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

11 & 11RC male/male / 11BIS & 10BISRC female/female / 11EP female/male

Maximum upstream pressure 25 bar @ 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   : DN15-20-25
 : (11-11BIS)

Part Number	DN	Part Number	DN
11		11RC	
149B7054	15	149B7068	15
149B7055	20	149B7069	20
149B7489	25		
149B7548	32		
149B7567	40		
149B7565	50		


Part Number	DN	Part Number	DN
11BIS		11BIS RC	
149B7056	15	149B7063	15
149B7057	20	149B7064	20
149B7314	25		
149B7549	32		
149B7558	40		
149B7561	50		

Part Number	DN
11EP	
149B7511	20

Dimensions at the end of the section.

FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

11 DO male/male

Maximum upstream pressure 25 bar @ 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 removables
 casing : bronze
 COVER : Bronze (*cover : composite material)
 seat : stainless steel
 APPROVALS : ACS  : DN15-20-25



Part Number	DN	Part Number	DN
	11		11RC
149B7640	15	149B7218	20*
149B7641	20		
149B7228	25		
149B7550	32		
149B7559	40		
149B7562	50		

Dimensions at the end of the section.

VERY LOW PRESSURE, AGRICULTURE, IRRIGATION, LABORATORY

11BIS RCBP female/female

Maximum upstream pressure 10 bar @ 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



Part Number	DN
149B7065	20

Dimensions at the end of the section.

MULTI 7 - FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MULTI 7 MULTI CONNECTIONS

Maximum upstream pressure 16 bar @ 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"
 APPROVAL : ACS



Part Number	DN
149B7540	20

Dimensions at the end of the section.

JUNIOR - FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

JUNIOR

Maximum upstream pressure 16 bar @ 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



3

Part Number	DN
7BIS - female/female	
149B7209	15
149B7210	20
149B7552	25
149B7553	32
149B7554	40
149B7555	50

Part Number	DN
7EP - female/male	
149B7211	15
149B7212	20



Part Number	DN
7SP - male/female	
149B7248	20



Dimensions at the end of the section.

PROTECTION OF INDIVIDUAL DEVICE, WATER HEATER

SECURO 5 SP male/female

Maximum upstream pressure 16 bar @ 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




Part Number	DN
149B7312	20

Dimensions at the end of the section.

WATER SUPPLY OF HOUSE BLOCKS, COLLECTIVE HOUSING

REDUNEUF 9 male/male & 9 BIS female/female

Maximum upstream pressure 25 bar @ 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



Part Number	DN
9 male/male	
149B7219	15
149B7220	20
149B7221	25

Part Number	DN
9BIS female/female	
149B7222	15
149B7223	20
149B7224	25



Dimensions at the end of the section.

PRESSURE REDUCING VALVE QUATRO

12 BIS SR female / female

Maximum upstream pressure 25 bar @ 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

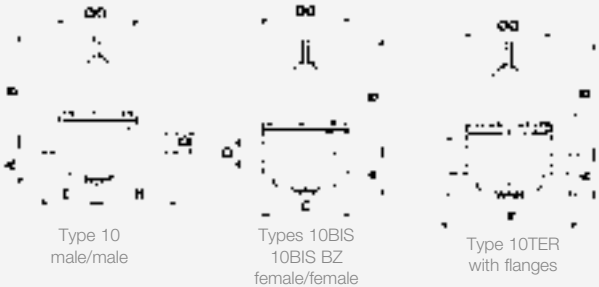


Part Number	DN
149B7076	20

Dimensions at the end of the section.

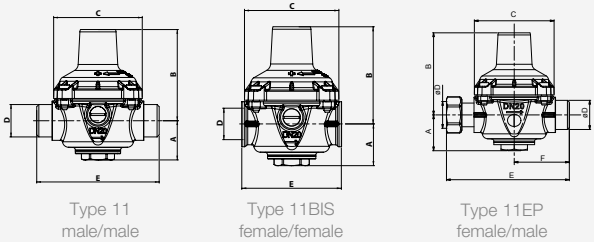
OVERALL DIMENSIONS

Type 10



DN	D		A mm	B mm	C mm	E mm	F mm	G mm	H mm	Kg			
	mm	"								10	10BIS	10TER	10BISBZ
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	-	-

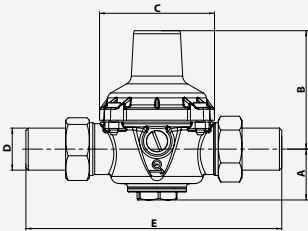
Type 11



DN	D		A mm	B mm	C mm	E mm Ref. 11	E mm Ref. 11bis	Kg	
	mm	"						Ref. 11	Ref. 11bis
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

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

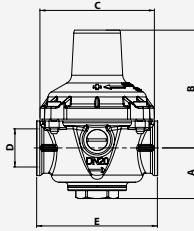
Type 11DO



Type 11DO male/male

DN	D		A mm	B mm	C mm	E mm	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

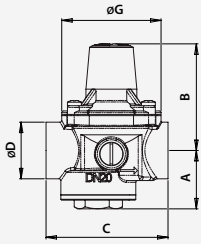
Type 11BIS RCBP



Type 11BIS RCBP female/female

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

MULTI 7



Type MULTI 7
multi connections

DN	D		A mm	B mm	C mm	G mm
	mm	"				
20	20/27	3/4	33	61	70	57

7 Junior



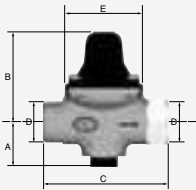
Type 7BIS
female/female

Type 7EP
female/male

Type 7SP
male/female

D	D		A mm	B mm	C mm	E mm	F "	G mm	H "	Kg		
	mm	"								7BIS	7EP	7SP
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	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	-	-

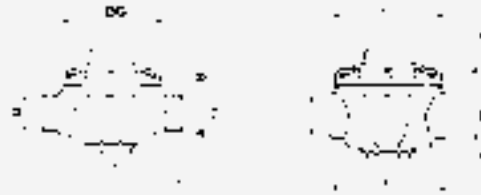
5 SP



Type 5 SP
male/female

DN	D		A mm	B mm	C mm	E mm	kg
	mm	"					
20	20/27	3/4	29	58	82	50	0,4

Type 9



Type 9
male/male

Type 9BIS
female/female

DN	D		A mm	B mm	E mm	C mm	G mm	Kg	
	mm	"						9	9 BIS
15	15/21	1/2	31	53	66	85	59	0,55	0,56
20	20/27	3/4	31	59	76,5	100	73	0,78	0,84
25	26/34	1	43	66	98	122	94	1,45	1,54

12BIS



Type 12BIS
female/female

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

Chapter 3.6

Miscellaneous

WATER HAMMER ARRESTORS

21 Range

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

Part Number	DN
21 male/male	
149B7138	20
21BIS D female/female	
149B7243	15
21BIS E female/female	
149B7244	15
21BIS EB female	
149B7245	20
21BIS Flex female/female	
149B7246	15

Dimensions at the end of the section.



PRESSURE GAUGES

212AD

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



Part Number
149B7145

2212 B male

Gauge with central needle
 ABS casing
 Male thread 1/4" vertical
 Diameter 50 mm



Part Number	Scale in bar
149B7157	1
149B7161	4
149B7162	6
149B7158	10
149B7159	16
149B7160	25

212G male

Gauge with glycerine bath -Glycerine bath protects from vibrations
 Stainless steel casing
 Male thread 1/4" vertical
 Diameter 60 mm



Part Number	Scale in bar
149B7139	1
149B7143	4
149B7144	6
149B7140	10
149B7141	16
149B7142	25

3212 B male

Gauge with central needle
 ABS casing with axial connection
 Male thread 1/4" horizontal
 Diameter 50 mm



Part Number	Scale in bar
149B7176	4
149B7177	6
149B7174	10
149B7175	16

312 G male

Gauge with glycerine bath
 Glycerine bath protects from vibrations
 Stainless steel casing with axial connection
 Male thread 1/4" vertical
 Diameter 60 mm



3

Part Number	Scale in bar
149B7176	4
149B7177	6
149B7174	10
149B7175	16

213 BIS male/female

Stop valve in brass with automatic drain cock
 Male thread 1/4" Female output



Part Number	DN
149B7156	1/4
149B7155	3/8

PRESSURE SWITCHES

Pressure Switch CS

θ 60°C
 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, hydrophoric groups



Part Number without valve	Setting range (*) (bar)	Part Number with valve compression	Setting range (*) (bar)
149B 5906	2 - 6	149B 5909	2 - 6
149B 5907	4 - 12	149B 5910	4 - 12
1	UV	1	UV

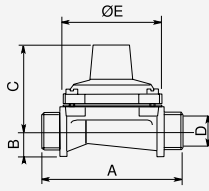
*Air Pressure

Accessories

DECOMPRESSION VALVE
 To be mounted on pressure switch CS (above)

Part Number without valve	UV
149B 5905	1

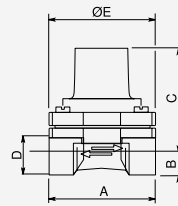
21



Type 21
male/male

DN	D		A mm	B mm	C mm	E mm	kg
	mm	"					
20	20/27	3/4	100	18,0	61,0	72,5	0,75

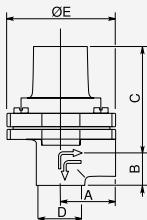
21BIS D



Type 21BIS D
female/female

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

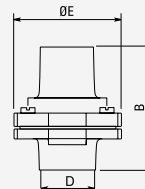
21BIS E



Type 21BIS E
female/female

DN	D		A mm	B mm	C mm	E mm	kg
	mm	"					
15	15/21	1/2	29,5	17,0	59,0	59,0	0,50

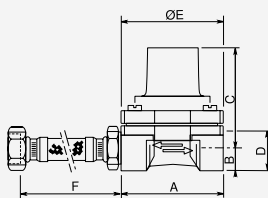
21BIS EB



Type 21BIS EB
female

DN	D		E mm	B mm	kg
	mm	"			
20	20/27	3/4	59,0	66,0	0,45

21BIS FLEX



Type 21BIS FLEX
female/female

DN	D		A mm	B mm	C mm	E mm	F mm	kg
	mm	"						
15	15/21	1/2	59,0	13,5	59,0	59,0	130	0,50

Chapter 3.7

Solenoid Valves

3

SOLENOID VALVES

INDIRECT ACTION, NORMALLY CLOSED - WKB2 female/female

θ max 100°C

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 :  (EPDM version)
ACS



Part Number 220V/50Hz	Part Number 24V/50Hz	Part Number 24DC	∅ “	mm	UV
EPDM					
149B 6699	149B 6706	149B 6713	3/8	12	1
149B 6700	149B 6707	149B 6714	1/2	15	1
149B 6701	149B 6708	149B 6715	3/4	20	1
149B 6702	149B 6709	149B 6716	1	25	1
149B 6703	149B 6710	149B 6717	1 1/4	32	1
149B 6704	149B 6711	149B 6718	1 1/2	40	1
149B 6703V	149B 6710V	149B 6717V	1 1/4	32	1
149B 6704V	149B 6711V	149B 6718V	1 1/2	40	1
149B 6705V	149B 6712V	149B 6719V	2	50	1
FKM					
149B 6705	149B 6712	149B 6719	2	50	1
149B 6699V	149B 6706V	149B 6713V	3/8	12	1
149B 6700V	149B 6707V	149B 6714V	1/2	15	1
149B 6701V	149B 6708V	149B 6715V	3/4	20	1
149B 6702V	149B 6709V	149B 6716V	1	25	1

Dimensions at the end of the section.

INDIRECT ACTION, NORMALLY OPEN - WZB2 female/female

θ max 100°C

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 :  (EPDM version)



Part Number 220V/50Hz	Part Number 24V/50Hz	Part Number 24DC	“	Ø mm	UV
EPDM					
149B 6720	149B 6727	149B 6734	3/8	12	1
149B 6721	149B 6728	149B 6735	1/2	15	1
149B 6722	149B 6729	149B 6736	3/4	20	1
149B 6723	149B 6730	149B 6737	1	25	1
149B 6724	149B 6731	149B 6738	1 1/4	32	1
149B 6725	149B 6732	149B 6739	1 1/2	40	1
149B 6726	149B 6733	149B 6740	2	50	1
FKM					
149B 6720V	149B 6727V	149B 6734V	3/8	12	1
149B 6721V	149B 6728V	149B 6735V	1/2	15	1
149B 6722V	149B 6729V	149B 6736V	3/4	20	1
149B 6723V	149B 6730V	149B 6737V	1	25	1
149B 6724V	149B 6731V	149B 6738V	1 1/4	32	1
149B 6725V	149B 6732V	149B 6739V	1 1/2	40	1
149B 6726V	149B 6733V	149B 6740V	2	50	1

Dimensions at the end of the section.

INDIRECT ACTION, DIRECT ACTION 1/8”, 1/4” - WB12 female/female

θ max 100°C

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”



Part Number 220V/50Hz 9W	Part Number 24V/50Hz 9W	Part Number 24DC 15W	“	Ø mm	UV
149B 6741	149B 6749	149B 6757	1/8	3	1
149B 6742	149B 6750	149B 6758	1/4	4,5	1
149B 6743	149B 6751	149B 6759	3/8	15	1
149B 6744	149B 6752	149B 6760	1/2	15	1
149B 6745	149B 6753	149B 6761	3/4	20	1
149B 6746	149B 6754	149B 6762	1	25	1
149B 6747	149B 6755	149B 6763	1 1/4	32	1
149B 6748	149B 6756	149B 6764	1 1/2	40	1

Dimensions at the end of the section.

INDIRECT ACTION, NORMALLY CLOSED - WZE2 female/female

θ max 100°C

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

Protection : IP 65 with connection

Approval :  ACS



3

Part Number 220V/50Hz	Part Number 24V/50Hz	Part Number 24DC	“	∅ mm	UV
149B 6765	149B 6768	149B 6771	3/8	10	1
149B 6766	149B 6769	149B 6772	1/2	10	1
149B 6767	149B 6770	149B 6773	3/4	18	1

Dimensions at the end of the section.

ASSISTED LIFT OPERATED, NORMALLY CLOSED - HK2 female/female

θ max 100°C

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 :  ACS



Part Number 220V/50Hz	Part Number 24V/50Hz	Part Number 24DC	“	∅ mm	UV
149B 6789	149B 6793	149B 6797	3/8	10	1
149B 6790	149B 6794	149B 6798	1/2	12	1
149B 6791	149B 6795	149B 6799	3/4	18	1
149B 6792	149B 6796	149B 6800	1	22	1

Dimensions at the end of the section.

DIRECT ACTION FOR GAS OIL, NORMALLY CLOSED - AKB2 female/female

θ max 100°C

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



Part Number 220V/50Hz	Part Number 24V/50Hz	Part Number 24DC	“	∅ mm	UV
149B 6774	149B 6779	149B 6784	1/8	3	1
149B 6775	149B 6780	149B 6785	1/4*	3	1
149B 6776	149B 6781	149B 6786	1/4	4,5	1
149B 6777	149B 6782	149B 6787	3/8	4,5	1
149B 6778	149B 6783	149B 6788	1/2	8	1

Dimensions at the end of the section.

Coil

θ max ambient 40°C

Coil without connection for solenoid valve : WZB2 - WKB2 - WKE2 - WBI2 - HK2 - AKB2
(IP65 with connection)



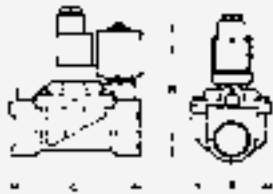
Part Number	Tension	UV
149B 5290	220/230V 50Hz 9W	1
149B 5291	380/400V 50Hz 9W	1
149B 5292	24V 50Hz 9W	1
149B 5293	12V 50Hz 9W	1
149B 5294	110V 50Hz 9W	1
149B 5295	12V d.c 15W	1
149B 5296	24V d.c 15W	1
149B 5583	48V 50Hz 9W	1

OVERALL DIMENSIONS

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.

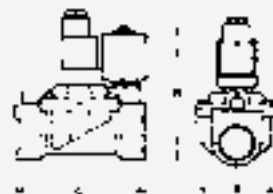
WKB2 - WZB2



Types WKB2
WZB2

Connect. FF	Passage	A mm	B mm	C mm	kg	Kv m ³ /H	T opening ms*	T closing 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 1/4	32	82	142	120	2,16	18	1000	2500
1 1/2	40	95	156	130	3,36	24	1500	4000
2	50	113	167	162	4,46	40	5000	10000

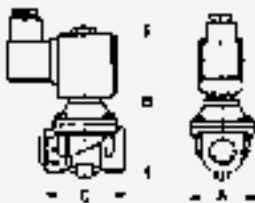
WB12



Type
WB12

Connect. FF	Passage	A mm	B mm	C mm	kg	Kv m ³ /H	T opening ms*	T closing ms*
1/8	3	34	84	35	0,36	0,30	20	20
1/4	4,5	34	84	35	0,36	0,55	20	20
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 1/4	32	82	142	120	2,16	18	1000	2500
1 1/2	40	95	156	130	3,36	24	1500	4000

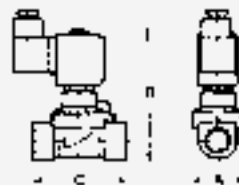
WKE2



Types WKE2

Connect. FF	Passage	A mm	B mm	C mm	kg	Kv m ³ /H	T opening ms*	T closing ms*
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

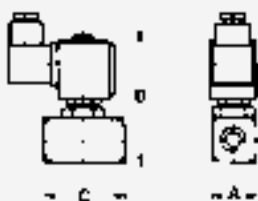
HK2



Types HK2

Connect. FF	Passage	A mm	B mm	C mm	kg	Kv m ³ /H	T opening ms*	T closing ms*
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	58	118,6	90	1,26	7	150	100

AKB2



Types AKB2

Connect. FF	Passage	A mm	B mm	C mm	kg	Kv m ³ /H	T opening ms*	T closing ms*
1/8	3	34	84	38	0,36	0,30	20	20
1/4	3	34	84	38	0,36	0,30	20	20
1/4	4,5	34	84	38	0,36	0,55	20	20
3/8	4,5	34	84	38	0,36	0,55	20	20
1/2	8	48	90	49	0,45	1	20	30

* The indicated times concern the medium water.
The exact time depends of pressure conditions.

Chapter 3.8

Air Valves

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.



TRIPLE FUNCTION FOR CLEAR WATER

VE320 with flange PN16

PRESSURE PFA 16 bar θ 60°C

Triple function air valves for clear water. Ductile iron casing, PA 6 (polyamid) spindle, stainless steel drain cock, NBR (nitrile) drain cock seal, large orifice seal in polyurethane or NBR (DN100).

APPROVAL : ACS



Part Number	DN
149B 5884	40-50-60
149B 5885	65
149B 5886	80
149B 5887	100
With stop valve*	
149B 5884 R	40-50-60
149B 5885 R	65

*Other Ø consult us

VE320 with flange PN25

PRESSURE PFA 16 bar θ 60°C

Triple function air valves for clear water. Ductile iron casing, PA 6 (polyamid) spindle, stainless steel drain cock, NBR (nitrile) drain cock seal, large orifice seal in polyurethane or NBR (DN100).

APPROVAL : ACS



Part Number	DN
149B 0091 66	40-50-60
149B 0091 68	65
149B 0091 70	80
149B 0091 71	100
With stop valve*	
149B 0091 67	40-50-60
149B 0091 69	65

*Other Ø consult us

TRIPLE FUNCTION FOR WASTE WATER**VE330 with flange PN16**

PRESSURE PFA 16 bar @ 60°C

Delivered with set pin.

SEAL in polyurethane.

CASING : DN80 and 100, GJS ductile iron DN150 in Steel

SPINDLE : Polyamid (PA66).



3

Part Number	DN
149B 5888	80
149B 5889	100
149B 5890	150

Air valve with stop valve : consult us

SINGLE FUNCTION FOR CLEAR WATER**VE120**

PRESSURE PFA 16 bar @ 100°C

Ductile iron casing, NBR (nitrile) seal.

Drain valve : nickel plated brass.

APPROVAL : ACS



Part Number	Designation
149B 2867	Air valve alone F1"
149B 2867 BR	Air valve with flange with connection*
149B 2867 RM	Air valve with connection M1"
149B 2867 VA	Air valve with stop valve M1"
149B 2867 VB	Air valve with stop valve + with flange*

*Flange DN 40 / 50 / 60

VE120 with flange PN25

PRESSURE PFA 25 bar @ 100°C

Ductile iron casing, NBR (nitrile) seal.

Drain valve : nickel plated brass.

APPROVAL : ACS



Part Number	Designation
149B 2868	Air valve alone F1"
149B 2868 BR	Air valve with flange with connection*
149B 2868 RM	Air valve with connection M1"
149B 2868 VA	Air valve with stop valve M1"
149B 2868 VB	Air valve with stop valve + with flange*

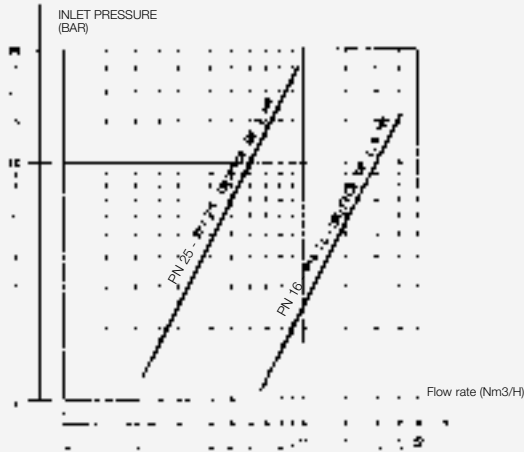
*Flange DN 40 / 50 / 60

OVERALL DIMENSIONS & TECHNICAL INFORMATION

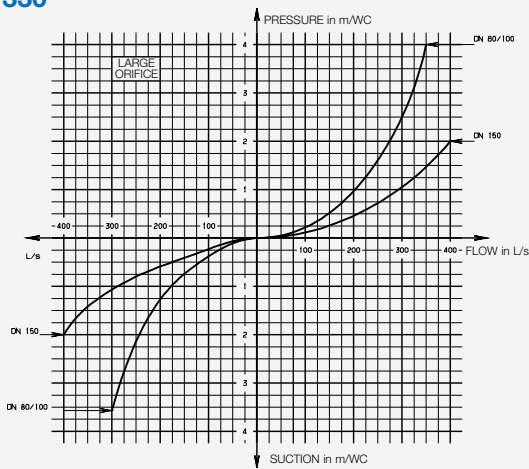
TECHNICAL PARAMETERS FLOW/PRESSURE GRAPHS

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.

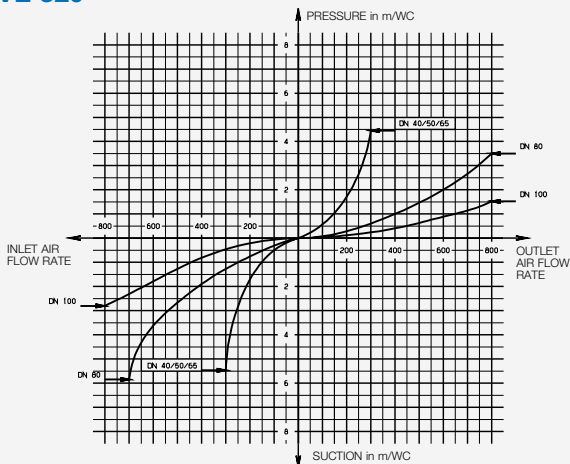
VE 120



VE 330



VE 320



VE320



Type VE320

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				
40/50/60	≤ 200	196	465	13
65	≤ 200	196	456	13

TRIPLE FUNCTION AIR VALVE TYPE VE 320 FOR CLEAR WATER

This model ensures continuous and automatic evacuation, but also influx and release of air at fast speed.

FUNCTION 1



FAST RELEASE OF AIR

FUNCTION 2



RELEASING AIR UNDER PRESSURE

FUNCTION 3



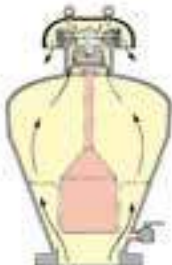
RAPID INFLUX OF AIR

3 FUNCTION AIR VALVES FOR WASTE WATER

This model works in the same way as VE 320.

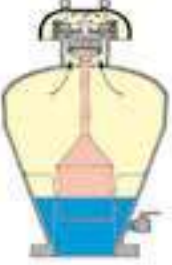
The body of the valve is simply over-sized to avoid contact between waste water and the top part of the moving section.

1. FUNCTION



FAST RELEASE OF AIR

2. FUNCTION



RELEASING AIR UNDER PRESSURE

3. FUNCTION



RAPID INFLUX OF AIR

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.

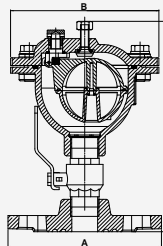
VE330



Type VE330

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

VE120



Type VE120

DN	A mm	B mm	Total Length	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

VE120

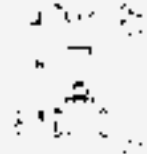


Type VE120

DN	H mm	L X I mm	* mm
40 - 50 - 60	900	600 x 600	150 x 150

*Minimum air entrance section of air at top of manhole

VE320



Type VE320

DN	H mm	L X I mm	* 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

VE330



Type VE330

DN	H mm	L X I mm	* 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

Chapter 4

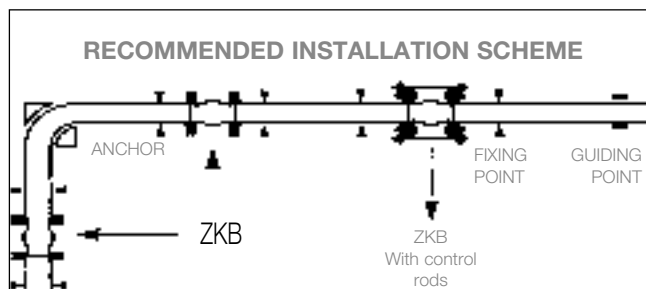
Rubber Expansion Joints



Chapter 4

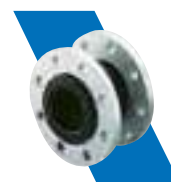
Rubber Expansion Joints

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
 θ 28" to 36" : consult us
 OPTION : with vacuum ring



Part Number EPDM	Part Number NBR	DN "	PFA mm water	PS				Cat	UV	
				L1	L2	G1	G2			
PN10 flanges										
149B 5141 C	149B 5141 N	1 1/4	32	16	16	16	0,5	16	3.3	1
149B 5142 C	149B 5142 N	1 1/2	40	16	16	16	0,5	16	3.3	1
149B 5143 C	149B 5143 N	2	50	16	16	16	0,5	16	3.3	1
149B 5144 C	149B 5144 N	2 1/2	65	16	16	16	0,5	15	3.3	1
149B 5145 C	149B 5145 N	3	80	16	16	16	0,5	12	3.3	1
149B 5146 C	149B 5146 N	4	100	16	16	16	0,5	10	3.3	1
149B 5147 C	149B 5147 N	5	125	16	16	16	0,5	8	3.3	1
149B 5148 C	149B 5148 N	6	150	16	13	16	0,5	6	3.3	1
149B 5149 C	149B 5149 N	8	200	10	10	10	0,5	5	3.3	1
149B 5150 C	149B 5150 N	10	250	10	8	10	0,5	4	3.3	1
149B 5151 C	149B 5151 N	12	300	10	6	10	0,5	3	3.3	1
149B 5152 C	149B 5152 N	14	350	8	5	8	0,5	2	3.3	1
149B 5153 C	149B 5153 N	16	400	8	5	8	0,5	2	3.3	1
149B 5154 C	149B 5154 N	18	450	8	4	8	0,5	2	3.3	1
149B 5155 C	149B 5155 N	20	500	8	4	8	0,5	2	3.3	1
149B 5156 C	149B 5156 N	24	600	8	3	8	0,5	1	3.3	1
PN16 flanges										
149B 008285	149B 5007 N	8	200	16	10	16	0,5	5	3.3	1
149B 008287	149B 5008 N	10	250	16	8	16	0,5	4	3.3	1
149B 008291	149B 5009 N	12	300	16	6	16	0,5	3	3.3	1
149B 008294	149B 5010 N	14	350	8	5	8	0,5	2	3.3	1
149B 008301	149B 5011 N	16	400	8	5	8	0,5	2	3.3	1
149B 008305	149B 5012 N	18	450	8	4	8	0,5	2	3.3	1
149B 008312	149B 5013 N	20	500	8	4	8	0,5	2	3.3	1
149B 008314	149B 5014 N	24	600	8	3	8	0,5	1	3.3	1

Dimensions at the end of the section.

ZKT - female/female

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.



Part Number EPDM	Part Number NBR	DN "	PFA water	PS				Cat	UV
				L1	L2	G1	G2		
149B 5126	149B 5126 N	3/4	10	10	10	10	10	3.3	1
149B 5127	149B 5127 N	1	10	10	10	10	10	3.3	1
149B 5128	149B 5128 N	1 1/4	10	10	10	0,5	10	3.3	1
149B 5129	149B 5129 N	1 1/2	10	10	10	0,5	10	3.3	1
149B 5130	149B 5130 N	2	10	10	10	0,5	10	3.3	1
149B 5131	149B 5131 N	2 1/2	10	10	10	0,5	10	3.3	1
149B 5132	149B 5132 N	3	10	10	10	0,5	10	3.3	1

Dimensions at the end of the section.

Control Rods for flanges PN10 and PN16

Galvanised steel

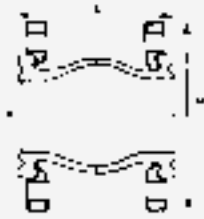
Control rods.

Part Number PN10	Part Number PN16	DN "	mm	UV
149B 5436	-	1 1/4	32	1
149B 5437	-	1 1/2	40	1
149B 5438	-	2	50	1
149B 5439	-	2 1/2	65	1
149B 5440	-	3	80	1
149B 5441	-	4	100	1
149B 5442	-	5	125	1
149B 5443	-	6	150	1
149B 5444	149B 0089 40	8	200	1
149B 5445	149B 0089 41	10	250	1
149B 5446	149B 0089 42	12	300	1
149B 5447	149B 0089 43	14	350	1
149B 5448	149B 0089 44	16	400	1
149B 5449	149B 0089 45	18	450	1
149B 5450	149B 0089 47	20	500	1
149B 5451	149B 0089 48	24	600	1



OVERALL DIMENSIONS & TECHNICAL INFORMATION

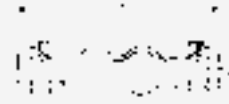
ZKB



Type ZKB with flanges

DN "	A mm	H mm	L mm	Kg
1 1/4	32	140	95	3,00
1 1/2	40	150	95	3,50
2	52	165	105	3,86
2 1/2	68	185	115	5,45
3	76	200	130	6,50
4	103	220	135	7,00
5	128	250	170	11,00
6	152	285	180	14,00
8	194	340	205	20,91
10	250	395	240	25,00
12	300	445	260	38,18
14	320	505	265	50,00
16	372	565	265	60,00
18	415	615	265	70,00
20	454	670	265	88,64
24	580	780	254	95,00

ZKT

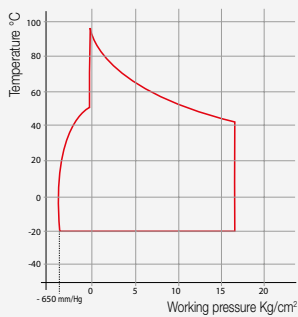


Type ZKT female/female

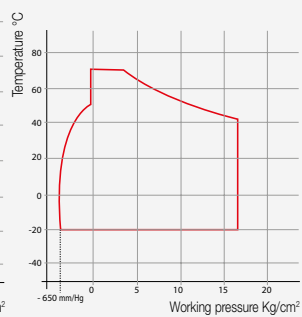
A		L mm	Kg
"	mm		
3/4	20	200	0,775
1	25	200	0,685
1 1/4	32	200	1,585
1 1/2	40	200	1,985
2	50	200	2,980
2 1/2	65	225	2,335
3	80	225	2,600

PRESSURE TEMPERATURE CURVES FOR WATER APPLICATION

EPDM



NBR





Chapter 5

Shut Off Valves

SYLAX WITH NOTCHED DUCTILE
HANDLEVER

SYLAX - ANSI 150 AND PN25 VALVE
OPTIONS

SYLAX WITH MANUAL GEARBOX

SYLAX FM/CNPP FOR SPRINKLER
SYSTEMS WITH MANUAL GEAR BOX

SYLAX GAS

TILIS

LYCENE

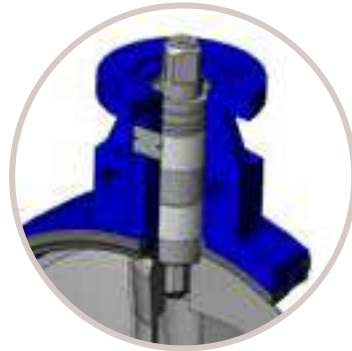
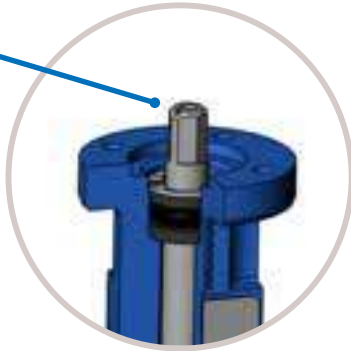
EMARIS

MANUAL ACTUATIONS AND
ACCESSORIES

BALL VALVES

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.

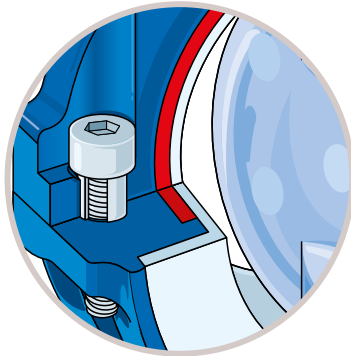


SYLAX
(DN>350mm) feature :

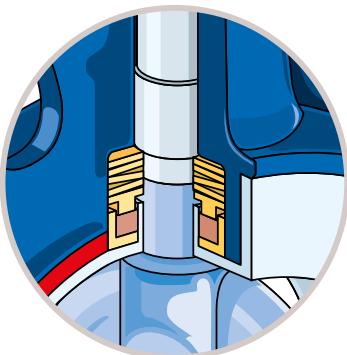
- Safety anti-ejection circlip keeps shaft in place and allows easy maintenance
- Safety reinforced by double watertightness

- 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.

- 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.



- Very high level of working safety for chemical media, food processing industries and pure water thanks 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

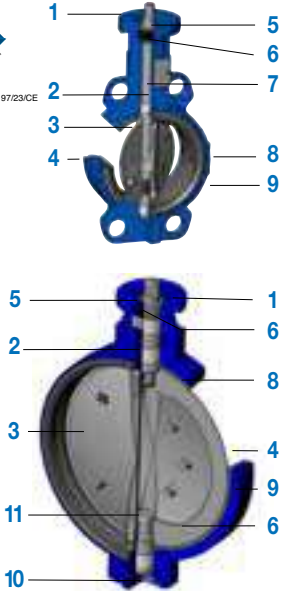


TRACEABILITY

- 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

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.

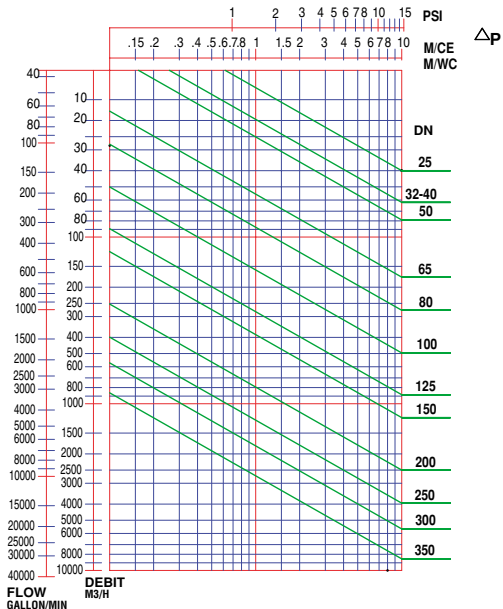
Sylax is well recognised in the car, chemical, food industries, water plants...

For special applications, especially for particularly difficult media, contact our technical team.

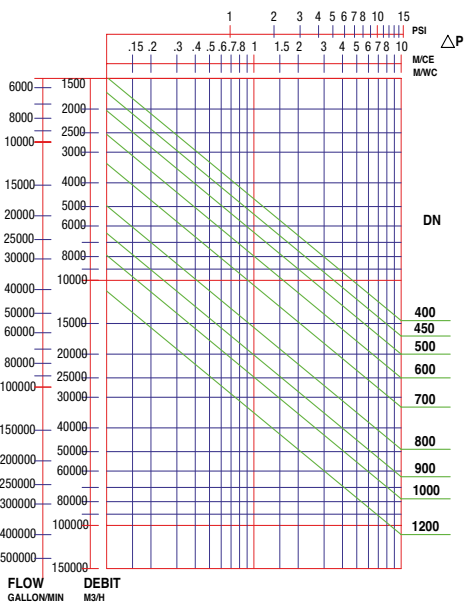
On request : we can supply butterfly valves type SYLAX conforming to the Directive 94/9/CE (products or systems used in an explosive atmosphere : see the extra price table page 87)



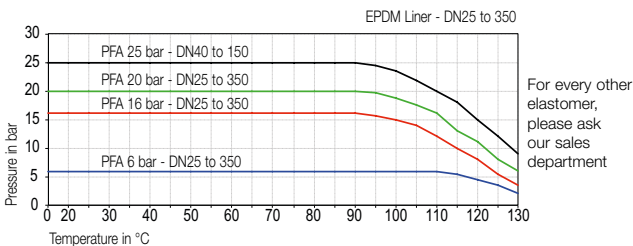
HEADLOSS CHART FOR WATER AT 20°C SYLAX



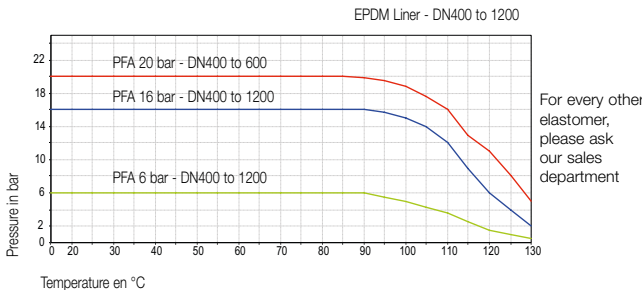
HEADLOSS CHART FOR WATER AT 20°C SYLAX



PRESSURE/TEMPERATURE CHART



PRESSURE/TEMPERATURE CHART

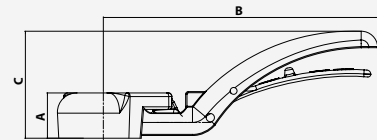


Chapter 5.1

Shut Off Valves - Sylax with Notched Ductile Handlever

SYLAX WITH NOTCHED DUCTILE IRON HANDLEVER

EPDM - High content Nitrile Carboxylated nitrile - Silicone	FKM - CSM	White EPDM	A	B	C
DN 25 a 100	DN 32 a 100	DN 32 a 100	33	200	78
DN 125 a 150	DN 125	-	33	290	98
DN 200 a 250	DN 150 a 250	DN 125 a 200	42	450	128
DN 300	-	-	42	450	128



SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - General and industrial services

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - General and industrial services, untreated water

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 010 894	149G 011 078	50	3,3
149G 010 909	149G 011 087	65	3,6
149G 010 928	149G 011 093	80	4,0
149G 097 543	149G 011 107	100	6,3
149G 059 144	149G 011 116	125	7,5
149G 011 005	149G 011 120	150	8,5
149G 016 257	149G 016 275	200	16,8
149G 410 10	149G 016 276 (*)	250	23,1
149G 023 900	149G 41 031 (*)	300	32,9

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar maxi and PN 10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 012 151	149G 012 242	50	3,3
149G 012 159	149G 012 244	65	3,6
149G 012 166	149G 012 247	80	4,0
149G 012 180	149G 012 254	100	7,1
149G 016 116	149G 012 260	125	7,5
149G 012 197	149G 016 096	150	8,4
149G 026 175	149G 420 29	200	16,6
149G 420 10	149G 420 30 (*)	250	22,9
149G 026 474	149G 420 31 (*)	300	32,5

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar maxi and PN 10

SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC**EPDM - General and industrial services**

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - General and industrial services, untreated water

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 027 890	149G 011 616	50	3,7
149G 027 891	149G 011 620	65	4,1
149G 027 888	149G 059 316	80	5,1
149G 027 889	149G 011 626	100	7,6
149G 016 710	149G 018 958	125	10,0
149G 062 568	149G 011 631	150	11,0
149G 025 186 (*)	149G 025 187 (*)	200	23,0
149G 026 249 (*)	149G 414 30 (*)	250	29,7
149G 414 11 (*)	149G 414 31 (*)	300	39,5

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 012 491	149G 012 513	50	3,7
149G 012 493	149G 019 876	65	5,0
149G 019 826	149G 019 880	80	5,0
149G 012 497	149G 012 517	100	7,7
149G 019 834	149G 019 888	125	9,8
149G 012 500	149G 059 597	150	10,9
149G 424 12 (***)	149G 424 32 (***)	200	23,1
149G 424 13 (***)	149G 424 33 (**)	250	28,0
149G 424 14 (***)	149G 424 34 (**)	300	38,4
149G 424 09 (*)	149G 424 29 (*)	200	23,6
149G 424 10 (*)	149G 424 30 (*)	250	28,1
149G 424 11 (*)	149G 424 31 (*)	300	38,3

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

(**) PFA = PS maxi = 10 bar and PN16

(***) PN16

SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

CARBOXYLATED NITRILE - Powdery, abrasive fluids

θ +5°/+110°



Part Number (1)	DN mm	Kg
CAST IRON GG25 BODY		
149G 041 693	50	3,3
149G 041 694	65	3,7
149G 026 512	80	3,9
149G 024 662	100	6,3
149G 041 695	125	7,5
149G 041 696	150	8,6
149G 025 065 (*)	200	16,8
149G 041 697 (*)	250	23,0
149G 041 698 (*)	300	32,3

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar

Part Number (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 038 008	50	3,2
149G 028 380	65	3,7
149G 027 995	80	4,0
149G 038 009	100	7,1
149G 038 010	125	7,5
149G 038 011	150	11,1
149G 035 117 (*)	200	16,7
149G 038 012 (*)	250	22,8
149G 038 013 (*)	300	32,0

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar

SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC**CARBOXYLATED NITRILE - Powdery, abrasive fluids**

θ +5°/+110°



Part Number (1)	DN mm	Kg
CAST IRON GG25 BODY		
149G 039 432	50	3,7
149G 039 433	65	4,2
149G 039 434	80	5,1
149G 039 435	100	7,6
149G 039 436	125	4,2
149G 039 437	150	11,1
149G 039 438 (*)	200	23,1
149G 039 439 (*)	250	29,6
149G 039 440 (*)	300	30,2

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar and PN10

Part Number (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 039 441	50	3,7
149G 039 442	65	5,1
149G 039 443	80	5,0
149G 039 444	100	7,7
149G 039 445	125	8,6
149G 039 446	150	11,0
149G 039 447 (**)	200	23,2
149G 039 448 (**)	250	27,0
149G 039 449 (**)	300	36,7
149G 039 450 (*)	200	22,5
149G 039 451 (*)	250	27,0
149G 039 452 (*)	300	36,7

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar and PN10

(**) PFA = PS maxi = 6 bar and PN16

SYLAX WAFER TYPE - DUCTILE IRON EPOXY COATED DISC

EDPM - Drinking water

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body



Nitrile - Untreated Water

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 032 103	149G 045 107	50	3,3
149G 032 113	149G 045 108	65	3,6
149G 032 123	149G 045 109	80	4,0
149G 032 133	149G 045 110	100	6,3
149G 032 143	149G 045 111	125	7,5
149G 032 153	149G 045 112	150	8,5
149G 093 562	149G 045 113	200	16,8
149G 431 70	149G 045 114 (*)	250	23,1
149G 431 71	149G 045 115 (*)	300	32,9

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 036 113	149G 045 116	50	3,3
149G 039 453	149G 045 117	65	3,6
149G 023 622	149G 045 118	80	4,0
149G 038 573	149G 045 119	100	7,1
149G 038 574	149G 045 120	125	7,5
149G 038 575	149G 045 121	150	8,4
149G 039 454	149G 045 122	200	16,6
149G 039 455	149G 045 123 (*)	250	22,9
149G 039 456	149G 045 124 (*)	300	32,5

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

SYLAX LUG TYPE - DUCTILE IRON EPOXY COATED DISC**EDPM - Drinking water**

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

**Nitrile - Untreated Water**

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 032 852	149G 045 125	50	3,7
149G 032 862	149G 045 126	65	4,1
149G 032 872	149G 045 127	80	5,1
149G 032 882	149G 045 128	100	7,6
149G 032 892	149G 045 129	125	10,0
149G 032 902	149G 045 130	150	11,0
149G 032 912 (*)	149G 045 131(*)	200	23,0
149G 032 921 (*)	149G 045 132(*)	250	29,7
149G 032 929 (*)	149G 045 133(*)	300	39,5

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 039 457	149G 045 134	50	3,7
149G 039 458	149G 045 135	65	5,0
149G 039 459	149G 045 136	80	5,0
149G 039 460	149G 045 137	100	7,7
149G 039 461	149G 045 138	125	9,8
149G 039 462	149G 045 139	150	10,9
149G 039 463 (***)	149G 045 140 (***)	200	23,1
149G 039 464 (***)	149G 045 141 (**)	250	28,0
149G 039 465 (***)	149G 045 142 (**)	300	38,4
149G 039 466 (*)	149G 045 143 (*)	200	23,6
149G 039 467 (*)	149G 045 144 (*)	250	28,1
149G 039 468 (*)	149G 045 145 (*)	300	38,3

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

(**) PFA = PS maxi = 10 bar and PN16

(***) PN16

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

EDPM - Drinking water, general services and industrial processes, swimming pool water

θ -10°/+120° with CAST IRON GG25 body

θ - 15°/+120° with DUCTILE IRON GGG40 body

Nitrile - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 059 712 (*)	149G 036 917 (*)	25	2,4
149G 011 254	149G 011 375	32/40	2,6
149G 011 266	149G 011 378	50	3,3
149G 011 287	149G 011 387	65	3,7
149G 011 297	149G 011 394	80	4,0
149G 011 316	149G 011 399	100	6,3
149G 011 334	149G 011 404	125	7,7
149G 059 260	149G 011 409	150	9,2
149G 016 281	149G 016 283	200	16,8
149G 097 060	149G 016 284 (*)	250	23,4
149G 023 904	149G 411 11 (*)	300	25,6

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 012 313	149G 019 665	32/40	2,9
149G 012 322	149G 026 594	50	3,3
149G 012 332	149G 012 399	65	3,7
149G 012 339	149G 012 401	80	4,0
149G 059 541	149G 012 403	100	7,1
149G 012 360	149G 012 406	125	7,7
149G 012 368	149G 012 409	150	9,1
149G 420 89	149G 421 09	200	16,6
149G 420 90	149G 421 10 (*)	250	23,2
149G 420 91	149G 421 11 (*)	300	25,2

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC**EDPM - Drinking water, general services and industrial processes, swimming pool water**

θ -10°/+120° with CAST IRON GG25 body

θ - 15°/+120° with DUCTILE IRON GGG40 body

**Nitrile - General services and industrial processes, hydrocarbons**

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G 028 008	149G 011 720	50	3,7
149G 011 686	149G 011 722	65	4,2
149G 011 691	149G 011 724	80	5,1
149G 011 696	149G 011 726	100	7,6
149G 028 007	149G 011 728	125	10,2
149G 028 006	149G 059 358	150	11,7
149G 092 060 (*)	149G 415 09 (*)	200	23,0
149G 414 90 (*)	149G 025 988 (*)	250	30,0
149G 414 91 (*)	149G 415 11 (*)	300	32,2

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

(**) PFA = PS maxi = 10 bar and PN16

(***) PFA = PS maxi = 16 bar and PN16

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G 016 753	149G 016 755	32	3,4
149G 016 754	149G 059 626	40	3,4
149G 016 219	149G 016 303	50	3,7
149G 012 574	149G 059 628	65	5,1
149G 012 577	149G 038 678	80	5,0
149G 012 582	149G 012 602	100	7,7
149G 012 584	149G 012 605	125	10,0
149G 012 586	149G 012 607	150	11,6
149G 424 92 (***)	149G 425 12 (***)	200	23,1
149G 424 93 (***)	149G 425 13 (**)	250	28,3
149G 424 94 (***)	149G 425 14 (**)	300	31,1
149G 424 89 (*)	149G 425 09 (*)	200	23,6
149G 424 90 (*)	149G 425 10 (*)	250	28,4
149G 424 91 (*)	149G 425 11 (*)	300	31,0

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

(**) PFA = PS maxi = 10 bar and PN16

(***) PFA = PS maxi = 16 bar and PN16

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

Silicone - Air or dry hot gas, ice-cold water, industrial process

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body



FKM - Industrial fluids, acids, bases hydrocarbons

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.

Part Number SILICONE (1)	Kg	Part Number FKM (2)	Kg	DN mm
CAST IRON GG25 BODY				
149G 039 474	2,6	-	-	32/40
149G 039 475	3,3	-	-	50
149G 039 476	3,8	149G 027 936	3,8	65
149G 039 477	4,0	149G 022 723	4,0	80
149G 088 187	6,3	149G 013 493	6,4	100
149G 039 479	7,8	149G 039 486	7,9	125
149G 039 480	9,3	149G 062 148	9,6	150
149G 039 481 (*)	17,1	149G 045 768	17,2	200
149G 039 482 (*)	23,4	-	-	250
149G 039 483 (*)	25,6	-	-	300

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar

Part Number SILICONE (3)	Kg	Part Number FKM (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G 020 771	2,9	149G 012 052	2,9	32/40
149G 020 775	3,3	149G 012 054	3,3	50
149G 020 779	3,7	149G 019 277	3,8	65
149G 016 543	4,0	149G 016 085	4,1	80
149G 020 787	7,1	149G 012 063	7,2	100
149G 020 791	7,8	149G 012 066	7,9	125
149G 017 229	9,1	149G 072 719	9,4	150
149G 020 799 (*)	16,9	149G 036 556	17,0	200
149G 020 803 (*)	23,2			250
149G 020 807 (*)	25,3			300

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC**Silicone - Air or dry hot gas, ice-cold water, industrial process**

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body

**FKM - Industrial fluids, acids, bases hydrocarbons**

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.

Part Number SILICONE (1)	Kg	Part Number FKM (2)	Kg	DN mm
CAST IRON GG25 BODY				
149G 039 490	3,7	149G 039 529	3,7	50
149G 039 491	4,2	149G 039 530	4,3	65
149G 039 492	5,1	149G 039 503	5,2	80
149G 039 493	7,6	149G 039 504	7,7	100
149G 039 494	10,2	149G 039 531	10,4	125
149G 039 495	11,8	149G 073 769	12,1	150
149G 039 496 (*)	23,4	149G 046 218(**)	23,4	200
149G 039 497 (*)	30,0			250
149G 039 498 (*)	32,3			300

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar and PN10

(**) PN10

Part Number SILICONE (3)	Kg	Part Number FKM (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G 022 126	4,5	149G 022 188	3,4	32
149G 022 130	4,5	149G 022 192	3,4	40
149G 022 134	4,8	149G 014 686	3,8	50
149G 022 138	5,1	149G 022 200	5,2	65
149G 022 142	5,0	149G 022 204	5,1	80
149G 022 146	7,7	149G 059 993	7,8	100
149G 022 150	10,1	149G 014 692	10,2	125
149G 014 676	11,7	149G 073 770	11,9	150
149G 022 173 (**)	23,4	149G 046 220 (****)	23,5	200
149G 022 177 (**)	27,2	-	-	250
149G 022 181 (**)	29,4	-	-	300
149G 022 158 (*)	23,9	149G 046 219 (***)	24,0	200
149G 022 162 (*)	27,3	-	-	250
149G 022 166 (*)	31,1	-	-	300

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar and PN10

(**) PFA = PS maxi = 6 bar and PN16

(***) PN10

(****) PN16

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

CARBOXYLATED NITRILE - Powdery, abrasive fluids

θ +5°/+110°



Part Number (1)	Kg	Part Number (2)	Kg	DN mm
149G 045 006	2,6	149G 042 613	2,9	32/40
149G 045 007	3,3	149G 035 671	3,2	50
149G 045 008	3,7	149G 035 672	3,7	65
149G 045 009	4,0	149G 035 673	4,0	80
149G 045 010	6,3	149G 093 454	7,1	100
149G 045 011	7,8	149G 017 247	7,7	125
149G 045 012	9,3	149G 035 676	9,2	150
149G 045 014 (*)	16,9	149G 035 677 (*)	16,7	200
149G 045 015 (*)	23,3	149G 035 678 (*)	23,1	250
149G 045 017 (*)	25,0	149G 035 679 (*)	24,7	300

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC

CARBOXYLATED NITRILE - Powdery, abrasive fluids

θ +5°/+110°



Part Number (3)	Kg	Part Number (4)	Kg	DN mm
-	-	149G 045 031	3,4	32
-	-	149G 045 032	3,4	40
149G 045 022	3,7	149G 045 033	3,7	50
149G 045 024	4,2	149G 045 034	5,1	65
149G 042 964	5,1	149G 045 035	5,0	80
149G 045 025	7,6	149G 045 036	7,7	100
149G 045 026	10,2	149G 045 037	10,1	125
149G 045 027	11,8	149G 045 038	11,7	150
149G 045 028 (*)	23,1	149G 045 039 (**)	23,2	200
149G 045 029 (*)	29,9	149G 045 040 (**)	28,2	250
149G 045 030 (*)	31,7	149G 045 044 (**)	30,5	300
-	-	149G 045 042 (*)	23,7	200
-	-	149G 045 043 (*)	28,2	250
-	-	149G 045 041 (*)	30,5	300

Flange rating PN10/16. PFA 10 bar (water) / PS (p.234)

(*) PFA = PS maxi = 6 bar and PN10

(**) PFA = PS maxi = 6 bar and PN16

SYLAX WAFER TYPE - ALU BRONZE DISC**EDPM - General and industrial services, swimming pool water**

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
CAST IRON GG25 BODY			
149G 011 158	149G 011 207	3,5	32/40
149G 011 172	149G 011 213	3,4	50
149G 011 177	149G 011 218	3,7	65
149G 011 181	149G 011 223	3,9	80
149G 011 186	149G 011 226	6,4	100
149G 011 192	149G 011 229	7,8	125
149G 011 195	149G 011 233	8,6	150
149G 016 277	149G 016 280	16,6	200
149G 410 50	149G 016 361(*)	22,4	250
149G 023 902	149G 023 903(*)	25,6	300

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

Part Number EPDM (3)	Part Number NITRILE (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 012 273	149G 016 864	3,8	32/40
149G 016 135	149G 012 293	3,3	50
149G 019 541	149G 012 295	3,7	65
149G 016 136	149G 012 297	4,0	80
149G 019 549	149G 016 029	7,1	100
149G 019 553	149G 012 300	7,8	125
149G 012 282	149G 016 296	8,5	150
149G 420 49	149G 420 69	16,4	200
149G 420 50	149G 420 70(*)	22,2	250
149G 420 51	149G 420 71(*)	25,2	300

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

SYLAX LUG TYPE - ALU BRONZE DISC

EDPM - General and industrial services, swimming pool water

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body



Nitrile - Sea water, ship yards

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
CAST IRON GG25 BODY			
149G 018 982	149G 019 010	3,7	50
149G 018 985	149G 016 157	4,2	65
149G 018 988	149G 016 158	5,1	80
149G 018 991	149G 016 299	7,7	100
149G 018 994	149G 019 022	10,3	125
149G 018 997	149G 019 025	11,1	150
149G 414 49(*)	149G 414 69(*)	22,9	200
149G 414 50(*)	149G 414 70(*)	28,9	250
149G 414 51(*)	149G 414 71(*)	32,2	300

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 012 527	149G 019 968	4,5	32
149G 035 531	149G 019 972	4,3	40
149G 019 922	149G 058 955	3,7	50
149G 012 534	149G 044 002	5,1	65
149G 019 930	149G 019 984	5,0	80
149G 019 934	149G 019 988	7,8	100
149G 019 938	149G 019 992	10,1	125
149G 019 942	149G 019 996	11,0	150
149G 424 52(***)	149G 424 72(***)	22,9	200
149G 424 53(***)	149G 424 73(**)	27,3	250
149G 424 54(***)	149G 424 74(**)	29,4	300
149G 424 49(*)	149G 424 69(*)	23,5	200
149G 424 50(*)	149G 424 70(*)	27,4	250
149G 424 51(*)	149G 424 71(*)	31,1	300

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar and PN10

(**) PFA = PS maxi = 10 bar and PN16

(***) PN16

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

EDPM - Drinking water, general services and industrial processes, swimming pool water
 θ -15°/+120° Steel Body

Nitrile - General services and industrial processes, hydrocarbons
 θ +5°/+85° Steel Body



Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
STEEL BODY			
149G 041 699	149G 041 700	2,8	32/40
149G 016 771	149G 016 780	3,0	50
149G 016 772	149G 016 781	3,0	65
149G 016 773	149G 016 782	3,2	80
149G 016 774	149G 016 783	4,2	100
149G 016 775	149G 016 784	8,5	125
149G 016 776	149G 016 785	9,5	150
149G 016 777	149G 016 786	18,2	200
149G 016 778	149G 016 797(*)	25,1	250
149G 016 779	149G 016 798(*)	30,8	300

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

EDPM - Drinking water, general services and industrial processes, swimming pool water
 θ -15°/+120° Stainless Steel body

Nitrile - General services and industrial processes, hydrocarbons
 θ +5°/+85° Stainless Steel body



Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
STAINLESS STEEL BODY			
149G 016 610	149G 018 560	2,8	32/40
149G 012 987	149G 016 818	3,0	50
149G 012 991	149G 016 819	3,0	65
149G 012 993	149G 016 820	4,3	80
149G 012 998	149G 016 816	4,2	100
149G 015 990	149G 016 821	8,5	125
149G 013 005	149G 016 817	9,5	150
149G 013 009	149G 016 822	18,2	200
149G 016 814	149G 016 823(*)	25,1	250
149G 016 815	149G 016 824(*)	30,8	300

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) PFA = PS maxi = 10 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC

EDPM - Drinking water, general services and industrial processes, swimming pool water
 θ -15°/+120° with STAINLESS STEEL body

Nitrile - General services and industrial processes, hydrocarbons
 θ +5°/+85° with STAINLESS STEEL body



Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
STAINLESS STEEL BODY			
149G 020 660	149G 020 669	3,9	50
149G 020 661	149G 020 670	4,9	65
149G 020 662	149G 020 671	3,2	80
149G 020 663	149G 020 672	5,8	100
149G 063 722	149G 020 673	5,9	125
149G 020 665	149G 020 674	7,0	150
149G 020 666 ^(****)	149G 020 675 ^(****)	34,0	200
149G 020 667 ^(****)	149G 020 676 ^(**)	44,0	250
149G 020 668 ^(****)	149G 020 677 ^(**)	58,0	300
149G 041 721 ^(*)	149G 041 724 ^(*)	34,0	200
149G 041 722 ^(*)	149G 041 725 ^(*)	44,0	250
149G 041 723 ^(*)	149G 041 726 ^(*)	58,0	300

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

(*) ISO PN10 and PN10

(**) ISO PN10

(****) ISO PN16

Chapter 5.2

Shut Off Valves - ANSI 150 and PN25 Valve Options

SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EDPM - General and industrial services

 θ -10°/+90°

Nitrile - General and industrial services, untreated water

 θ +5°/+85°

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ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 039 540	149G 046 105	3,3	50
149G 014 779	149G 046 106	3,7	65
149G 039 541	149G 046 107	3,2	80
149G 039 542	149G 042 781	7,1	100
149G 039 568	149G 046 108	7,6	125
149G 039 543	149G 046 109	9,7	150
149G 039 544	149G 046 110	16,7	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 015 179	4,3	50
149G 026 507	3,9	65
149G 016 807	4,2	80
149G 028 957	7,7	100
149G 026 545	9,4	125
149G 026 546	10,2	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EDPM - General and industrial services

θ -10°/+90°

Nitrile - General and industrial services, untreated water

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 039 554	149G 046 152	3,8	50
149G 039 555	149G 046 153	4,1	65
149G 039 556	149G 046 154	3,9	80
149G 039 557	149G 046 155	8,2	100
149G 039 569	149G 046 156	9,0	125
149G 039 558	149G 046 157	12,2	150
149G 039 559	149G 046 158	23,6	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 046 571	3,8	50
149G 062 787	5,0	65
149G 060 016	5,2	80
149G 034 285	8,3	100
149G 034 288	11,2	125
149G 034 291	11,8	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX WAFER TYPE - ALU BRONZE DISC**EDPM - General and industrial services** θ -10°/+90°**Nitrile - Sea water, ship yards** θ +5°/+85°**ANSI 150 / 20 Bar**

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 039 545	149G 046 135	3,8	40
149G 039 546	149G 046 136	3,3	50
149G 039 547	149G 046 137	2,9	65
149G 039 548	149G 046 138	3,2	80
149G 039 549	149G 046 139	7,2	100
149G 039 570	149G 043 396	7,8	125
149G 044 114	149G 044 657	9,8	150
149G 039 551	149G 046 140	16,5	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 039 534	3,8	40
149G 016 808	4,3	50
149G 016 809	4,7	65
149G 021 130	3,4	80
149G 033 106	7,7	100
149G 033 109	9,6	125
149G 033 112	10,3	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX LUG TYPE - ALU BRONZE DISC

EDPM - General and industrial services

θ -10°/+90°

Nitrile - Sea water, ship yards

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 039 560		2,6	32
149G 039 561	149G 046 167	3,7	40
149G 039 562	149G 046 168	3,8	50
149G 039 563	149G 046 169	4,3	65
149G 039 564	149G 046 170	3,9	80
149G 062 814	149G 046 171	8,2	100
149G 039 571	149G 058 929	9,0	125
149G 039 566	149G 046 173	9,9	150
149G 039 567	149G 046 174	20,6	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 039 537	2,6	32
149G 039 538	4,3	40
149G 016 803	3,8	50
149G 016 804	5,8	65
149G 016 805	4,5	80
149G 034 306	8,3	100
149G 034 309	9,0	125
149G 034 312	12,6	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX WAFER TYPE - 316 L STAINLESS STEEL DISC

EDPM - Drinking water, general and industrial services

θ -10°/+90°

Nitrile - Sea water, general and industrial services

θ +5°/+85°

**ANSI 150 / 20 Bar**

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 045 545	149G 046 119	2,9	40
149G 038 570	149G 046 120	3,3	50
149G 085 477	149G 046 121	3,7	65
149G 045 550	149G 046 122	3,2	80
149G 028 535	149G 046 123	7,5	100
149G 044 406	149G 046 124	8,0	125
149G 045 552	149G 046 125	10,4	150
149G 045 553	149G 046 126	17,0	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 045 554	2,9	40
149G 045 555	4,3	50
149G 045 556	4,7	65
149G 016 813	4,2	80
149G 027 934	8,2	100
149G 045 557	9,6	125
149G 044 395	10,2	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX LUG TYPE - 316 L STAINLESS STEEL DISC

EDPM - Drinking water, general and industrial services

θ -10°/+90°

Nitrile - Sea water, general and industrial services

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY			
149G 048 642		2,6	32
149G 045 558	149G 046 159	2,9	40
149G 045 559	149G 046 160	3,8	50
149G 045 560	149G 046 161	4,2	65
149G 045 561	149G 046 162	3,9	80
149G 045 562	149G 046 163	8,5	100
149G 045 563	149G 046 164	10,3	125
149G 045 564	149G 046 165	12,9	150
149G 045 565	149G 046 166	23,9	200

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 / 25 Bar

Part Number EDPM (1)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G 045 566	3,5	32
149G 045 567	3,5	40
149G 045 571	4,1	50
149G 016 079	5,8	65
149G 093 463	7,2	80
149G 045 572	8,8	100
149G 045 573	11,5	125
149G 045 574	12,4	150

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

Chapter 5.3

Shut Off Valves - Sylax with Manual Gearbox

SYLAX WITH MANUAL GEAR BOX



**MANUAL GEAR BOX
LONGLIFE LUBRICATED
ACTUATED WITH GEAR**



5

SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - General and industrial services

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - General and industrial services, untreated water

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G079086	149G080005	50	3,6
149G079084	149G080006	65	4,0
149G079085	149G079453	80	4,3
149G079087	149G079730	100	6,3
149G079088	149G079960	125	7,4
149G079089	149G079341	150	8,5
149G079076	149G079404	200	16,5
149G079915	149G079961 (*)	250	22,9
149G079071	149G079962 (*)	300	34,3
149G079075 (*)	149G079516 (*)	350	41,4

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080012	149G080013	50	3,6
149G079923	149G080014	65	4,0
149G079839	149G080015	80	4,3
149G079094	149G079602	100	6,2
149G079297	149G079969	125	8,1
149G079095	149G079603	150	8,5
149G079298	149G079370	200	16,3
149G079968	149G079971 (*)	250	22,7
149G079188	149G079335 (*)	300	33,9
149G079207	149G080016	350	40,4

Flange rating PN 6/10/16/ASA 150. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - General and industrial services

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body



Nitrile - General and industrial services, untreated water

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G079925	149G080010	50	4,0
149G080008	149G080011	65	7,6
149G079616	149G079215	80	5,4
149G079124	149G079902	100	7,9
149G079412	149G079170	125	9,9
149G079091	149G079966	150	11,9
149G079077 (*)	149G079168 (*)	200	22,9
149G079965 (*)	149G079433 (*)	250	29,6
149G079147 (*)	149G079967 (*)	300	41,3
149G080007 (*)	149G080009 (*)	350	49,7

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080019	149G080023	50	4,0
149G080020	149G080024	65	4,5
149G080021	149G080025	80	5,4
149G079327	149G079977	100	7,7
149G079972	149G079978	125	9,9
149G079973	149G079737	150	8,0
149G079974 (*)	149G079486 (*)	200	22,5
149G079975 (*)	149G079540 (*)	250	29,0
149G079787 (*)	149G079371 (*)	300	40,4
149G079295 (*)	149G080026 (*)	350	49,2
149G079288 (***)	149G079454 (***)	200	22,2
149G079976 (***)	149G079980 (**)	250	28,5
149G079343 (***)	149G079981 (**)	300	39,9
149G080022 (***)	149G080027 (***)	350	48,4

Flange rating PN 10/16. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

** PFA = PS maxi = 10 bar and PN16

*** PN16

SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC**CARBOXYLATED NITRILE - Powdery, abrasive fluids**

θ +5°/+110°



Part Number	DN mm	Kg
CAST IRON GG25 BODY		
149G080028	50	3,6
149G080029	65	4,1
149G080030	80	4,3
149G079893	100	7,9
149G079982	125	9,0
149G079983	150	10,1
149G079963 (*)	200	16,6
149G079656 (*)	250	25,4
149G079984 (*)	300	34,8
149G080031 (*)	350	45,8

Flange rating PN 6/10/16/ASA 150 PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080037	50	3,6
149G080039	65	4,1
149G080036	80	4,3
149G079994	100	7,7
149G079953	125	9,6
149G079996	150	10,1
149G079995 (*)	200	16,3
149G079997 (*)	250	25,1
149G079993 (*)	300	34,4
149G080038 (*)	350	44,8

Flange rating PN 6/10/16/ASA 150 PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC

CARBOXYLATED NITRILE - Powdery, abrasive fluids

θ +5°/+110°



Part Number	DN mm	Kg
CAST IRON GG25 BODY		
149G080032	50	4,0
149G080033	65	4,6
149G080034	80	5,4
149G079954	100	9,4
149G079955	125	11,5
149G079956	150	11,9
149G079957 (*)	200	22,9
149G079958 (*)	250	32,0
149G079959 (*)	300	41,7
149G080035 (*)	350	54,0

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080040	50	4,0
149G080041	65	4,5
149G080042	80	5,5
149G079952	100	9,3
149G079985	125	11,5
149G079992	150	9,7
149G079989 (*)	200	22,6
149G079990 (*)	250	31,4
149G079991 (*)	300	40,9
149G080044 (*)	350	53,6
149G079986 (**)	200	22,3
149G079987 (**)	250	31,4
149G079988 (**)	300	40,9
149G080043 (**)	350	52,6

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar and PN16

SYLAX WAFER TYPE - DUCTILE IRON EPOXY COATED DISC**EPDM - Drinking water**

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

NITRILE - Untreated water

θ +5°/+85°

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G079907	149G080104	50	3,6
149G079663	149G080105	65	4,0
149G079204	149G080106	80	4,3
149G079724	149G080070	100	6,3
149G079304	149G080071	125	7,4
149G079097	149G080072	150	8,5
149G079305	149G079489	200	16,5
149G080058	149G079050 (*)	250	22,9
149G079205	149G080073 (*)	300	34,3
149G079140 (*)	149G080074	350	41,4

Flange rating PN 6/10/16/ASA 150. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080113	149G080117	50	3,6
149G080114	149G080118	65	4,1
149G080115	149G080119	80	4,3
149G079944	149G080082	100	6,3
149G080049	149G080083	125	8,1
149G080050	149G080084	150	10,1
149G079466	149G080085	200	16,3
149G080051	149G080086 (*)	250	22,7
149G079145	149G080087 (*)	300	33,9
149G079146	149G080052	350	40,5

Flange rating PN 6/10/16/ASA 150. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar



SYLAX WAFER TYPE - DUCTILE IRON EPOXY COATED DISC (Continued)

EPDM - Drinking water

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

NITRILE - Untreated water

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G073186	149G082440	400	71,2
149G073187	149G073189	450	89,0
149G073188	149G073190	500	113,0
149G082453	149G082502	600	174,3
149G082362	149G082364	700	251,6
149G082363	149G082365	800	296,6
149G065431	149G065440	900	497,0
149G065432	149G082545	1000	556,0

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082327	149G082443	400	71,2
149G073192	149G073194	450	89,0
149G070889	149G073195	500	113,0
149G082454	149G082456	600	174,3
149G081136	149G082366	700	251,6
149G079805	149G085327	800	296,6
149G065448	149G065456	900	501,0
149G065449	149G082546	1000	556,0

Flange rating PN 16. PFA 10/16 bar (water) / PS (p.234)

SYLAX LUG TYPE - DUCTILE IRON EPOXY COATED DISC**EPDM - Drinking water**

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

NITRILE - Untreated water

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G080107	149G080110	50	4,0
149G080108	149G080111	65	4,5
149G079280	149G080112	80	5,4
149G080059	149G080075	100	7,8
149G080060	149G080076	125	9,9
149G079279	149G080077	150	10,3
149G079153 (*)	149G080078 (*)	200	22,9
149G080061 (*)	149G080079 (*)	250	29,6
149G079344 (*)	149G080080 (*)	300	41,2
149G080109 (*)	149G080081	350	49,6

Flange rating PN 10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080122	149G080125	50	4,0
149G080123	149G080126	65	4,4
149G080124	149G080127	80	5,4
149G080045	149G080092	100	7,7
149G080046	149G080093	125	9,9
149G080047	149G080094	150	8,0
149G080055 (*)	149G080089 (*)	200	22,5
149G080056 (*)	149G080090 (*)	250	28,9
149G080057 (*)	149G080091 (*)	300	40,4
149G080103 (*)	149G080088	350	49,2

Flange rating PN 10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

SYLAX LUG TYPE - DUCTILE IRON EPOXY COATED DISC (Continued)

EPDM - Drinking water

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

NITRILE - Untreated water

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G079184	149G080095	200	22,2
149G080048	149G080096 (**)	250	28,5
149G080054	149G080097 (**)	300	39,9
149G080128	149G080053	350	48,4

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

** PFA = PS maxi = 10 bar and PN16

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082444	149G082445	400	90,6
149G073197	149G073200	450	115,0
149G073198	149G073201	500	159,0
149G082420	149G082422	600	186,0

Flange rating PN10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (9)	Part Number NITRILE (10)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082446	149G082447	400	90,6
149G073202	149G073205	450	115,0
149G073203	149G073206	500	160,0
149G082421	149G082423	600	186,0

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

SYLAX DOUBLE FLANGED - DUCTILE IRON EPOXY COATED DISC (Continued)**EPDM - Drinking water**

θ -10°/+90° with CAST IRON GG25 body

θ -15°/+90° with DUCTILE IRON GGG40 body

NITRILE - Untreated water

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G079684	149G079799	150	8,5
149G079328	149G080099	200	20,8
149G079898	149G080100 (*)	250	30,7
149G079123	149G080101 (*)	300	49,6
149G079142 (*)	149G080102 (*)	350	63,1
149G079284 (**)	149G080098 (**)	350	62,9

Flange rating PN10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

** PN16

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082448	149G082449	400	95,6
149G073207	149G073209	450	111,0
149G071106	149G073210	500	155,0
149G082458	149G082505	600	227,0
149G082368	149G082369	700	318,0
149G081961	149G082370	800	434,0
149G065476	149G065485	900	610,0
149G065477	149G082547	1000	725,0
149G061911	149G061913	1200	1037,5

Flange rating PN10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082328	149G082450	400	95,6
149G073211	149G073213	450	111,0
149G072882	149G073214	500	152,0
149G082459	149G082509	600	227,0
149G081137	149G082372	700	318,0
149G082371	149G082373	800	434,0
149G065494	149G065503	900	608,0
149G065495	149G082550	1000	718,0
149G061912	149G061914	1200	1037,5

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

EPDM - Drinking water, general services and industrial processes, swimming pool water

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G079901 (*)	149G080168 (*)	25	2,8
149G079008	149G080165	32/40	2,9
149G079037	149G079723	50	3,6
149G079411	149G080166	65	4,0
149G079082	149G080167	80	4,3
149G079090	149G079006	100	6,3
149G079014	149G079005	125	7,7
149G079013	149G080131	150	8,9
149G079134	149G079447	200	16,5
149G080130	149G080132 (*)	250	23,2
149G079120	149G079121 (*)	300	35,2
149G079074 (*)	149G080188 (*)	350	42,1

Flange rating PN 6/10/16/ASA 150. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080175	149G080176	32/40	3,2
149G079065	149G080177	50	3,6
149G079400	149G080178	65	4,0
149G079334	149G080179	80	4,3
149G080139	149G079039	100	6,1
149G079096	149G080140	125	8,3
149G079311	149G079470	150	8,9
149G079080	149G079099	200	16,3
149G079562	149G080141 (*)	250	23,0
149G079122	149G080142 (*)	300	34,8
149G079906	149G080190	350	41,1

Flange rating PN 6/10/16/ASA 150. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC (continued)**EPDM - Drinking water, general services and industrial processes, swimming pool water**

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082462	149G082465	400	71,2
149G073229	149G073231	450	89,0
149G070632	149G073232	500	116,0
149G079240	149G082516	600	174,3
149G082273	149G082374	700	251,6
149G082151	149G082375	800	296,6
149G065646	149G065654	900	519,0
149G065647	149G082561	1000	582,0

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082467	149G082468	400	71,2
149G073233	149G073235	450	89,0
149G071143	149G073236	500	116,0
149G082460	149G082521	600	174,3
149G079446	149G082376	700	251,6
149G079804	149G082377	800	296,6
149G065662	149G065670	900	521,0
149G065663	149G082562	1000	589,0

Flange rating PN 16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC

EPDM - Drinking water, general services and industrial processes, swimming pool water

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EPDM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G079028	149G080173	50	4,0
149G080170	149G080174	65	4,5
149G079083	149G079167	80	5,4
149G079092	149G080134	100	7,8
149G079720	149G080135	125	10,1
149G079093	149G079780	150	10,7
149G079079 (*)	149G080136 (*)	200	22,9
149G080133 (*)	149G080137 (*)	250	29,9
149G079365 (*)	149G080138 (*)	300	42,1
149G079664 (*)	149G080189 (*)	350	50,3

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

Part Number EPDM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080182	149G080183	32	3,5
149G079643	149G080184	40	3,5
149G079357	149G080185	50	4,0
149G079156	149G080186	65	4,5
149G079578	149G080187	80	5,4
149G079137	149G080144	100	7,7
149G079367	149G080145	125	10,1
149G079358	149G091923	150	8,4
149G079359 (*)	149G080147 (*)	200	22,6
149G080143 (*)	149G080148 (*)	250	29,3
149G079678 (*)	149G080149 (*)	300	41,3
149G079677 (*)	149G080191 (*)	350	49,9

Flange rating PN 10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC (continued)**EPDM - Drinking water, general services and industrial processes, swimming pool water**

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G079423	149G080150	200	22,3
149G079473	149G080151 (**)	250	28,8
149G079472	149G080152 (**)	300	40,8
149G080192	149G080193	350	49,1

Flange rating PN 16. PFA 10/16 bar (water) / PS (p.234)

** PFA = PS maxi = 10 bar and PN16

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082469	149G082470	400	90,6
149G073237	149G073240	450	115,0
149G073238	149G073241	500	166,0
149G082424	149G082426	600	186,0

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (9)	Part Number NITRILE (10)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082471	149G082472	400	90,6
149G073242	149G073245	450	115,0
149G073243	149G073246	500	162,0
149G082425	149G082427	600	186,0

Flange rating PN 16. PFA 10/16 bar (water) / PS (p.234)

SYLAX DOUBLE FLANGED - 316 STAINLESS STEEL DISC

EPDM - Drinking water, general services and industrial processes, swimming pool water

θ -10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G079458	149G080194	150	8,9
149G079081	149G079796	200	20,8
149G097476	149G080162	250	31,0
149G097474	149G080163	300	50,6
149G079320 (*)	149G080164 (*)	350	63,8
149G080161 (**)	149G080160 (**)	350	63,6

Flange rating PN 10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

** PN16

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082476	149G082477	400	95,6
149G073247	149G073249	450	111,0
149G070498	149G073250	500	158,0
149G079366	149G082463	600	227,0
149G082378	149G082380	700	318,0
149G082379	149G082381	800	434,0
149G065703	149G065711	900	627,0
149G065704	149G082563	1000	746,0
149G065972	149G065372	1200	1037,5

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082479	149G082495	400	95,6
149G073251	149G073254	450	111,0
149G073252	149G073255	500	156,0
149G082125	149G081546	600	227,0
149G082119	149G082382	700	318,0
149G079803	149G082383	800	434,0
149G065719	149G065727	900	625,0
149G065720	149G082564	1000	744,0
149G065973	149G065373	1200	1037,5

Flange rating PN 16. PFA 10/16 bar (water) / PS (p.234)

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC**SILICONE** - Air or dry hot gas, ice-cold water, industrial processes

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body

FKM - Industrial fluids, acids, bases, hydrocarbons

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.

Part Number SILICONE (1)	Kg	Part Number FKM (2)	Kg	DN mm
CAST IRON GG25 BODY				
149G080235	1,1	-	-	32/40
149G080236	3,6	-	-	50
149G080237	2,7	149G080239	4,2	65
149G080238	4,3	149G080240	4,4	80
149G080213	6,3	149G079812	6,4	100
149G080214	9,4	149G080210	9,3	125
149G080215	10,5	149G080211	10,8	150
149G079418 (*)	16,7	149G079406	16,9	200
149G080216 (*)	24,0	149G080212	23,7	250
149G080217 (*)	30,2	149G079776	36,4	300
149G080266 (*)	42,4	149G080267	43,3	350

Flange rating PN 6/10/16/ASA 150. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

Part Number SILICONE (3)	Kg	Part Number FKM (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G080249	3,2	149G080252	3,3	32/40
149G080250	3,6	149G080253	4,2	50
149G080251	4,1	149G079100	4,2	65
149G080265	4,3	149G080254	4,4	80
149G079314	6,1	149G079040	6,3	100
149G080203	10,0	149G080201	9,9	125
149G080204	10,5	149G079583	10,8	150
149G079313 (*)	16,5	149G079238	16,7	200
149G080205 (*)	22,9	149G080234	23,5	250
149G080206 (*)	35,4	149G080202	35,9	300
149G080270 (*)	42,5	149G080271	42,8	350

Flange rating PN 6/10/16/ASA 150. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar



SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC (Continued)

SILICONE - Air or dry hot gas, ice-cold water, industrial processes

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body

FKM - Industrial fluids, acids, bases, hydrocarbons

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.



Part Number SILICONE (5)	Kg	Part Number FKM (6)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G082518 (*)	71,0	149G082523	77,0	400
149G073273 (*)	91,8	149G073276	98,5	450
149G073274 (*)	120,0	149G073277	126,0	500
149G082466 (*)	170,0	149G082534	194,0	600
149G082411 (*)	330,0	149G082580	373,8	700
149G082412 (*)	575,8	149G082581	580,9	800
149G065757 (*)	622,7	149G082555	622,7	900
149G065758 (*)	711,0	149G082565	711,0	1000

Flange rating PN 10. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

Part Number SILICONE (7)	Kg	Part Number FKM (8)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G073279 (*)	91,6	149G073280	98,3	450
149G073278 (*)	120,0	149G073281	126,0	500
149G082533 (*)	170,0	149G082535	194,0	600
149G082413 (*)	329,6	149G082582	373,4	700
149G082414 (*)	575,2	149G082583	580,3	800
149G065772 (*)	621,4	149G065779	621,4	900
149G065773 (*)	705,0	149G082566	705,0	1000

Flange rating PN 16. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC**SILICONE** - Air or dry hot gas, ice-cold water, industrial processes

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body

FKM - Industrial fluids, acids, bases, hydrocarbons

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.



Part Number SILICONE (1)	Kg	Part Number FKM (2)	Kg	DN mm
CAST IRON GG25 BODY				
149G080243	4,1	149G080246	4,1	50
149G080244	4,6	149G080247	4,7	65
149G080245	5,4	149G080248	5,5	80
149G080195	7,8	149G080233	7,9	100
149G080196	11,9	149G080207	11,8	125
149G080197	12,3	149G080208	12,6	150
149G080198 (*)	23,0	149G080209 (***)	23,2	200
149G080199 (*)	29,8	149G040135 (***)	35,6	250
149G080200 (*)	42,7	149G040136 (***)	50,8	300
149G080268 (*)	49,8	149G080269 (***)	51,6	350

Flange rating PN 6/10/16/ASA 150. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar

*** PN10

Part Number SILICONE (3)	Kg	Part Number FKM (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G080255	3,5	149G080260	3,6	32
149G080256	3,5	149G080261	3,6	40
149G080257	4,0	149G080262	3,9	50
149G080258	4,6	149G080263	4,6	65
149G080259	5,4	149G080264	5,5	80
149G080218	7,7	149G080227	7,9	100
149G080219	11,9	149G080228	11,7	125
149G080220	10,0	149G080229	10,4	150
149G080221 (*)	22,7	149G079862 (***)	23,0	200
149G080222 (*)	29,2	149G080230 (***)	29,8	250
149G080223 (*)	41,9	149G46611 (***)	50,0	300
149G080272 (*)	50,3	149G080273 (***)	51,2	350

Flange rating PN 10/16. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar

*** PN10

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC (Continued)

SILICONE - Air or dry hot gas, ice-cold water, industrial processes

θ -10°/+200° with CAST IRON GG25 body

θ - 25°/+200° with DUCTILE IRON GGG40 body

FKM - Industrial fluids, acids, bases, hydrocarbons

θ +5°/+180°

Whilst FKM and Silicone have high temperature thresholds, these materials are not recommended for use on WET DUTY at high temperature. DRY duties only recommended at high temperature thresholds. Not for use on hot water.



Part Number SILICONE (5)	Kg	Part Number FKM (6)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G080224 (**)	22,4	149G080231	22,6	200
149G080225 (**)	28,8	149G080232	29,3	250
149G080226 (**)	41,4	149G46615	49,4	300
149G080274 (**)	49,5	149G080275	50,4	350

Flange rating PN 16. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar

*** PN10

Part Number SILICONE (6)	Kg	Part Number FKM (7)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G082530 (*)	95,0	149G082524	100,0	400
149G073283 (*)	120,4	149G073286	126,8	450
149G073282 (*)	159,0	149G073287	165,0	500
149G082441 (*)	250,0	149G082541	273,0	600

Flange rating PN 10. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar

*** PN10

Part Number SILICONE (6)	Kg	Part Number FKM (7)	Kg	DN mm
DUCTILE IRON GGG40 BODY				
149G082528 (1)	95,0	149G082526	100,0	400
149G073289 (1)	118,5	149G073292	125,3	450
149G073290 (1)	159,0	149G073293	165,0	500
149G082442 (1)	246,0	149G082544	270,0	600

Flange rating PN 16. PFA 6/10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar

*** PN10

SYLAX WAFER TYPE - ALU BRONZE DISC**EDPM - General and industrial services, swimming pool water**

θ - 10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G080336	149G080340	32/40	6,5
149G080337	149G080341	50	7,7
149G080338	149G080342	65	4,3
149G080339	149G080343	80	4,5
149G080276	149G079471	100	6,3
149G080277	149G080282	125	9,9
149G080278	149G079587	150	10,8
149G079739	149G079912	200	16,3
149G079561	149G079650 (*)	250	22,1
149G080280	149G080283 (*)	300	34,1
149G080281 (*)	149G080284 (*)	350	42,0

Flange rating PN 6/10/16/ASA 150. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080353	149G080357	32/40	3,5
149G080354	149G080358	50	3,9
149G080355	149G079143	65	4,3
149G080356	149G080359	80	4,5
149G080297	149G080304	100	6,2
149G080298	149G079133	125	8,1
149G080299	149G079732	150	8,6
149G080300	149G079909	200	16,1
149G079078	149G080305 (1)	250	21,9
149G080302	149G079895 (1)	300	33,6
149G080303	149G080360	350	41,1

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX WAFER TYPE - ALU BRONZE DISC (continued)

EDPM - General and industrial services, swimming pool water

θ - 10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
CAST IRON GG25 BODY			
149G082496	149G082498	400	71,2
149G073310	149G073313	450	89,0
149G073311	149G073314	500	117,0
149G082497	149G082525	600	174,3
149G082473	149G082475	700	251,6
149G082474	149G082478	800	296,6
149G065537	149G065545	900	521,0
149G065538	149G082569	1000	579,0

Flange rating PN 10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082499	149G082500	400	71,2
149G093464	149G073320	450	89,0
149G073318	149G073321	500	117,0
149G082527	149G082529	600	174,3
149G082480	149G082015	700	251,6
149G082481	149G082482	800	296,6
149G065553	149G065561	900	520,0
149G065554	149G082570	1000	579,0

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

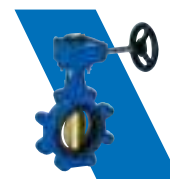
SYLAX LUG TYPE - ALU BRONZE DISC**EDPM - General and industrial services, swimming pool water**

θ - 10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
CAST IRON GG25 BODY			
149G080346	149G080351	50	4,3
149G080347	149G080352	65	4,8
149G080348	149G079681	80	5,7
149G080285	149G080292	100	7,9
149G080286	149G080293	125	10,0
149G080287	149G41668	150	10,4
149G080288 (*)	149G079680 (*)	200	22,7
149G080289 (*)	149G080294 (*)	250	28,9
149G080290 (*)	149G080295 (*)	300	41,0
149G080291 (*)	149G080296 (*)	350	50,3

Flange rating PN10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080363	149G079831	32	3,8
149G080364	149G079386	40	3,8
149G080365	149G080368	50	4,3
149G080366	149G080369	65	4,7
149G080367	149G080370	80	5,7
149G080314	149G079235	100	7,8
149G080315	149G079317	125	10,0
149G079218	149G079708	150	8,1
149G080316 (*)	149G079234 (*)	200	22,4
149G080372 (*)	149G079233 (*)	250	28,2
149G080317 (*)	149G080318 (*)	300	40,1
149G079375 (*)	149G080371 (*)	350	49,9

Flange rating PN10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX LUG TYPE - ALU BRONZE DISC (continued)

EDPM - General and industrial services, swimming pool water

θ - 10°/+120° with CAST IRON GG25 body

θ - 15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
CAST IRON GG25 BODY			
149G080319	149G080323	200	22,1
149G080320	149G080324 (**)	250	27,8
149G080321	149G080325 (**)	300	39,6
149G080322	149G080326	350	49,1

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

** PFA = PS maxi = 10 bar and PN16

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082503	149G082504	400	90,6
149G073323	149G073325	450	115,0
149G073324	149G073326	500	161,0
149G082483	149G082485	600	186,0

Flange rating PN10. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (7)	Part Number NITRILE (8)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082506	149G082508	400	90,6
149G073329	149G073332	450	115,0
149G073330	149G073333	500	162,0
149G082484	149G082486	600	186,0

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

SYLAX DOUBLE FLANGED - ALU BRONZE DISC**EDPM - General and industrial services, swimming pool water**

θ - 10°/+120° with CAST IRON GG25 body

θ -15°/+120° with DUCTILE IRON GGG40 body

Nitrile - Sea water, ship yards

θ +5°/+85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080373	149G080374	150	8,6
149G080327	149G080332	200	20,7
149G080328	149G079490 (*)	250	30,0
149G080329	149G080333 (*)	300	49,4
149G080331 (*)	149G080335 (*)	350	63,8
149G080330 (**)	149G080334 (**)	350	63,6

Flange rating PN10/16. PFA 10/16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar and PN10

** PN16

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082510	149G082512	400	95,6
149G073335	149G066734	450	111,0
149G073336	149G081720	500	158,0
149G082553	149G082554	600	227,0
149G082487	149G082489	700	318,0
149G082488	149G082490	800	434,0
149G065586	149G065594	900	627,0
149G065587	149G082577	1000	745,0
149G065974	149G065402	1200	1037,5

Flange rating PN10. PFA 10/16 bar (water) / PS (p.234)

Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G082514	149G082515	400	95,6
149G073340	149G073343	450	111,0
149G073341	149G073344	500	155,0
149G082551	149G082552	600	227,0
149G082491	149G082493	700	318,0
149G082492	149G082494	800	434,0
149G065602	149G065610	900	622,0
149G065603	149G082578	1000	741,0
149G065975	149G065403	1200	1037,5

Flange rating PN16. PFA 10/16 bar (water) / PS (p.234)

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

CARBOXYLATED NITRILE - Powdery, abrasive fluids

θ +5°/+110°



Part Number (1)	Kg	DN mm
CAST IRON GG25 BODY		
149G080475	2,9	40
149G080476	3,6	50
149G080477	4,1	65
149G080474	4,3	80
149G080457	7,9	100
149G080458	9,2	125
149G080459	10,5	150
149G080460 (*)	16,6	200
149G080461 (*)	25,7	250
149G080389 (*)	35,7	300

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

Part Number (2)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G080483	3,2	40
149G080484	3,6	50
149G080485	4,1	65
149G080486	4,3	80
149G080393	7,7	100
149G080394	9,9	125
149G080395	10,5	150
149G080396 (*)	11,0	200
149G080397 (*)	25,4	250
149G080398 (*)	35,3	300

Flange rating PN 6/10/16/ASA 150. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC**CARBOXYLATED NITRILE - Powdery, abrasive fluids**

θ +5°/+110°



Part Number (3)	Kg	DN mm
CAST IRON GG25 BODY		
149G080481	4,0	50
149G080482	4,6	65
149G080478	5,4	80
149G080462	9,4	100
149G080463	11,7	125
149G080464	12,3	150
149G080465 (*)	22,9	200
149G080427 (*)	32,3	250
149G080466 (*)	42,6	300

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

Part Number (4)	Kg	DN mm
DUCTILE IRON GGG40 BODY		
149G080487	3,5	32
149G080488	3,5	40
149G080489	4,0	50
149G080490	4,5	65
149G080491	5,5	80
149G080456	9,3	100
149G080467	11,7	125
149G080454	10,1	150
149G080468 (**)	22,3	200
149G080469 (**)	31,3	250
149G080470 (**)	41,3	300
149G080471 (*)	22,6	200
149G080472 (*)	31,7	250
149G080473 (*)	41,8	300

Flange rating PN 10/16. PFA 10 bar (water) / PS (p.234)

* PFA = PS maxi = 6 bar and PN10

** PFA = PS maxi = 6 bar and PN16

SYLAX WAFER TYPE - 316 STAINLESS STEEL DISC

EPDM - Drinking water, general and industrial services, swimming pool water

θ -15°/110°

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/85°



Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
STEEL BODY			
149G080540	149G080541	32/40	2,5
149G080537	149G080542	50	3,2
149G080538	149G080543	65	3,6
149G080539	149G080544	80	3,9
149G080428	149G080434	100	5,6
149G080429	149G080435	125	6,8
149G080430	149G080436	150	8,0
149G080431	149G080437	200	14,9
149G080432	149G080438 (*)	250	20,8
149G080433	149G080439 (*)	300	31,2

Flange rating PN10/16. PFA 16 bar (water) / PS (p.234)

* PFA = PS maxi = 10 bar

Part Number EDPM (3)	Part Number NITRILE (4)	DN mm	Kg
STAINLESS STEEL BODY			
149G080545	149G080549	32/40	2,9
149G080546	149G080550	50	3,7
149G080547	149G080551	65	4,1
149G080548	149G080552	80	4,5
149G080404	149G080410	100	6,5
149G080405	149G080411	125	7,9
149G080406	149G080412	150	8,5
149G080407	149G080413	200	16,9
149G080408	149G080414 (*)	250	23,4
149G080409	149G080415 (*)	300	34,6

Flange rating PN10/16. PFA 16 bar (water) / PS (p.234)

* ISO PN10

SYLAX LUG TYPE - 316 STAINLESS STEEL DISC

EPDM - Drinking water, general and industrial services, swimming pool water

θ -15°/110°

NITRILE - General services and industrial processes, hydrocarbons

θ +5°/85°



Part Number EDPM (5)	Part Number NITRILE (6)	DN mm	Kg
STAINLESS STEEL BODY			
149G080553	149G080556	50	1,6
149G080554	149G080557	65	5,1
149G080555	149G080558	80	5,9
149G080416	149G43586	100	2,5
149G43567	149G43587	125	6,6
149G080417	149G43588	150	12,3
149G43569 (***)	149G43589 (***)	200	9,1
149G43570 (***)	149G43590 (**)	250	18,0
149G43571 (***)	149G43591 (**)	300	39,5
149G041715 (*)	149G040184 (*)	200	9,1
149G041716 (*)	149G040185 (*)	250	37,5
149G080455 (*)	149G040186 (*)	300	44,2

Flange rating PN10/16. PFA 16 bar (water) / PS (p.234)

* ISO PN10 and PN10

** ISO PN10

*** ISO PN16

Chapter 5.4

Shut Off Valves - Sylax with Manual Gearbox ANSI 150 and PN25 Valve Options

SYLAX WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - General and industrial services

θ $-10^{\circ}/+90^{\circ}$

NITRILE - General and industrial services, untreated water

θ $+5^{\circ}/+85^{\circ}$

ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080631	149G080673	50	3,6
149G080632	149G080674	65	4,0
149G080633	149G080675	80	4,3
149G080566	149G080578	100	6,1
149G080567	149G080579	125	9,6
149G080568	149G080580	150	10,1
149G080591	149G080597	200	16,3
149G079443		250	25,1
149G080592		300	34,4
149G080599		350	45,0

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (3)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G079007	50	4,3
149G080637	65	4,0
149G080638	80	7,4
149G080588	100	7,7
149G080589	125	9,0
149G080590	150	9,9

Flange rating PN 25. PFA 20 bar (water) / PS (p.234)



SYLAX LUG TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - General and industrial services

θ -10°/+90°

NITRILE - General and industrial services, untreated water

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (4)	Part Number NITRILE (5)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080634	149G080678	50	4,0
149G080635	149G080677	65	4,4
149G080636	149G080676	80	4,9
149G080562	149G080593	100	7,7
149G080565	149G080559	125	11,2
149G080563	149G080587	150	12,6
149G048405	149G080560	200	23,4
149G080564	-	250	30,9
149G040216	-	300	47,9

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080639	50	3,9
149G080640	65	5,0
149G079318	80	5,4
149G080573	100	9,1
149G080574	125	11,0
149G080575	150	12,2

Flange rating PN 25. PFA 20 bar (water) / PS (p.234)

SYLAX WAFER TYPE - ALU BRONZE DISC

EPDM - General and industrial services, swimming pool water

θ -10°/+90°

NITRILE - Sea water, ship yards

θ +5°/+85°

**ANSI 150 / 20 Bar**

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080641	149G080679	32/40	3,5
149G080642	149G080680	50	3,9
149G080643	149G080681	65	4,3
149G080644	149G080682	80	4,5
149G080606	149G080613	100	6,2
149G080607	149G080614	125	9,7
149G080608	149G080615	150	10,2
149G080609	149G080616	200	16,2
149G080610		250	25,0
149G080611		300	34,1
149G080612		350	45,7

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (3)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080650	32/40	4,2
149G085224	50	4,6
149G080652	65	4,3
149G080653	80	4,5
149G079904	100	7,8
149G091976	125	17,3
149G080626	150	10,1

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX LUG TYPE - ALU BRONZE DISC

EPDM - General and industrial services, swimming pool water

θ -10°/+90°

NITRILE - Sea water, ship yards

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (4)	Part Number NITRILE (5)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080649	149G080687	32	3,8
149G080645	149G080683	40	3,8
149G080646	149G080684	50	4,3
149G080647	149G080685	65	4,7
149G080648	149G080686	80	5,1
149G080617	149G080622	100	7,8
149G080618	149G080623	125	11,3
149G080619	149G080624	150	12,7
149G048492	149G080625	200	23,3
149G080620		250	30,8
149G080621		300	40,1

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (6)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080654	32	4,5
149G080655	40	4,5
149G080656	50	4,1
149G080657	65	5,3
149G080658	80	5,7
149G080627	100	9,2
149G080628	125	11,0
149G080629	150	12,3

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX WAFER TYPE - 316 L STAINLESS STEEL DISC

EPDM - Drinking water, general services and industrial processes

 θ -10°/+90°

NITRILE - Sea water, general services and industrial processes

 θ +5°/+85°**ANSI 150 / 20 Bar**

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080659	149G080688	32/40	3,3
149G080660	149G080689	50	3,6
149G080661	149G080690	65	4,1
149G080662	149G080691	80	4,3
149G079421	149G079002	100	6,3
149G080569	149G080571	125	9,8
149G080570	149G080572	150	10,4
149G080584	149G080598	200	16,3
149G080585		250	25,5
149G080586		300	36,9
149G080600		350	45,8

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (3)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080668	32/40	3,1
149G080669	50	4,1
149G079287	65	4,1
149G079325	80	4,4
149G080581	100	7,8
149G080582	125	9,2
149G080583	150	10,2

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

SYLAX LUG TYPE - 316 L STAINLESS STEEL DISC

EPDM - Drinking water, general services and industrial processes

θ -10°/+90°

NITRILE - Sea water, general services and industrial processes

θ +5°/+85°



ANSI 150 / 20 Bar

Part Number EDPM (1)	Part Number NITRILE (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY			
149G080664	149G080692	32	3,6
149G080665	149G080693	40	3,6
149G080666	149G080694	50	4,0
149G080663	149G080695	65	4,5
149G080667	149G080696	80	4,9
149G080601	149G080594	100	7,9
149G080602	149G080595	125	11,4
149G080603	149G080596	150	12,9
149G079876	149G080561	200	22,9
149G080604		250	31,3
149G080605		300	42,9

Flange rating ASA 150. PFA 20 bar (water) / PS (p.234)

PN25 25 Bar

Part Number EDPM (3)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080672	32	3,4
149G079642	40	3,4
149G080670	50	3,9
149G080671	65	5,1
149G080630	80	5,5
149G079758	100	9,2
149G080576	125	11,1
149G080577	150	12,5

Flange rating PN 25. PFA 25 bar (water) / PS (p.234)

Chapter 5.5

SYLAX FM/CNPP for sprinkler systems with manual gear box

SYLAX FM/CNPP FOR SPRINKLER SYSTEMS WITH MANUAL GEAR BOX

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 WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - Sprinkler systems CNPP approval

θ -10°/+110°

With limit switches

Part Number EDPM (1)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 064 240	32/40	3,2
149G 029 208	50	4,5
149G 029 211	65	4,7
149G 029 214	80	4,8
149G 028 861	100	7,0
149G 029 219	125	8,2
149G 028 862	150	9,1
149G 029 224	200	17,5
149G 029 227	250	21,0
149G 029 230	300	30,3

Flange rating PN 6/10/16/ASA 150 with limit switches . PFA 16 bar (water) / PS (p.234)



SYLAX CNPP WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - Sprinkler systems CNPP approval

θ -10°/+110°

Without limit switches



Part Number EDPM (2)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 060 946	32/40	3,2
149G 029 207	50	4,5
149G 029 210	65	4,7
149G 029 213	80	4,8
149G 029 216	100	7,0
149G 029 218	125	8,2
149G 029 221	150	9,1
149G 029 223	200	17,5
149G 029 226	250	21,0
149G 029 229	300	30,3

Flange rating PN 6/10/16/ASA 150 without limit switches . PFA 16 bar (water) / PS (p.234)

SYLAX FM WAFER TYPE - DUCTILE IRON POLYAMIDE COATED DISC

EPDM - Sprinkler systems FM approval

θ -15°/+110°

With limit switches



Part Number EDPM (3)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 065 374	50	7,7
149G 065 375	65	8,0
149G 065 376	80	8,4
149G 065 377	100	11,0
149G 065 378	125	11,3
149G 065 379	150	12,4
149G 038 535	200	23,2
149G 038 536	250	28,6
149G 038 537	300	37,3

Flange rating PN 6/10/16/ASA 150 with limit switches . PFA 16 bar (water) / PS (p.234)

Without limit switches



Part Number EDPM (4)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 065 380	50	7,5
149G 065 381	65	7,9
149G 065 382	80	8,3
149G 065 401	100	10,9
149G 065 383	125	11,2
149G 065 384	150	12,1
149G 044 225	200	23,0
149G 044 226	250	28,4
149G 044 227	300	37,2

Flange rating PN 6/10/16/ASA 150 without limit switches . PFA 16 bar (water) / PS (p.234)

SYLAX FM WAFER TYPE - 316 STAINLESS STEEL DISC

EPDM - Sprinkler systems FM approval

θ -15°/+110°

With limit switches



Part Number EDPM (5)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 065 385	32/40	8,8
149G 065 386	50	7,7
149G 065 387	65	8,1
149G 065 388	80	8,4
149G 065 389	100	11,0
149G 065 390	125	11,6
149G 065 391	150	12,8
149G 043 788	200	23,2
149G 043 789	250	28,9
149G 043 790	300	30,0

Flange rating PN 6/10/16/ASA 150 with limit switches . PFA 16 bar (water) / PS (p.234)

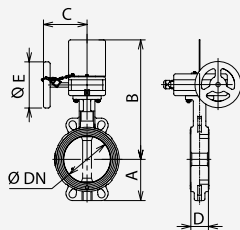
Without limit switches

Part Number EDPM (5)	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 065 392	32/40	8,8
149G 065 393	50	7,5
149G 065 394	65	7,9
149G 065 396	80	8,3
149G 065 398	100	10,9
149G 065 399	125	11,4
149G 065 400	150	12,5
149G 044 234	200	23,1
149G 044 235	250	28,7
149G 044 236	300	29,9

Flange rating PN 6/10/16/ASA 150 without limit switches . PFA 16 bar (water) / PS (p.234)

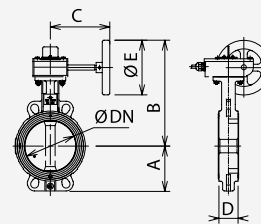
OVERALL DIMENSIONS & TECHNICAL INFORMATION

SYLAX CNPP



DN	A	B	C	D	E	Type
32/40	57	281	118	32	125	232-07 LX
50	62	294	118	43	125	232-07 LX
65	70	303	118	46	125	232-07 LX
80	89	309	118	46	125	232-07 LX
100	106	333	118	52	125	232-07 LX
125	120	348	118	56	125	232-07 LX
150	132	361	118	56	125	232-07 LX
200	164	419	205	60	200	232-10 LX
250	200	444	205	68	200	232-10 LX
300	238	469	205	78	200	232-10 LX

SYLAX FM



DN	A	B	C	D	E	Type
32/40	57	232	168	32	100	150 LX
50	62	238	168	43	100	150 LX
65	70	247	168	46	100	150 LX
80	89	253	168	46	100	150 LX
100	106	277	175	52	120	150 LX
125	120	292	175	56	120	150 LX
150	131	305	175	56	120	150 LX
200	164	386	228	60	200	550 LX
250	200	411,5	228	68	200	550 LX
300	235	461,5	234	78	250	550 LX

Chapter 5.6

Shut Off Valves - 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.

Valves also available with full yellow paint finish on the body – contact us for details

SYLAX GAS WAFER TYPE WITH NOTCHED YELLOW HANDLE - DUCTILE IRON POLYAMIDE COATED DISC

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 038 773	50	3,3
149G 032 650	65	3,7
149G 032 652	80	4,7
149G 038 774	100	7,1
149G 032 656	125	7,5
149G 032 658	150	8,5
149G 038 775	200	16,6
149G 038 776	250	23,0

Flange rating PN 6/10/16/ASA 150. PS 6 bar (p.234)

SYLAX GAS LUG TYPE WITH NOTCHED YELLOW HANDLE - DUCTILE IRON POLYAMIDE COATED DISC

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 038 777	50	3,7
149G 032 810	65	5,1
149G 032 812	80	5,8
149G 089 469	100	7,7
149G 032 816	125	9,8
149G 032 818	150	11,0
149G 038 781 (**)	200	23,1
149G 038 782 (**)	250	23,6
149G 038 779 (*)	200	28,1
149G 038 780 (*)	250	28,2

Flange rating PN 10/16. PS 6 bar (p.234)

* PN10

*** PN16

SYLAX GAS WAFER TYPE WITH MANUAL GEAR BOX - DUCTILE IRON POLYAMIDE COATED DISC

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 080 747	50	3,6
149G 080 748	65	4,1
149G 080 749	80	4,3
149G 079 267	100	6,3
149G 080 697	125	9,7
149G 080 698	150	10,1
149G 080 699	200	16,3
149G 080 700	250	22,7
149G 080 701	300	33,9

Flange rating PN 6/10/16/ASA 150. PS 6 bar (p.234)

SYLAX GAS LUG TYPE WITH MANUAL GEAR BOX - DUCTILE IRON POLYAMIDE COATED DISC

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 080753	50	4,0
149G 080754	65	4,5
149G 080755	80	5,4
149G 079846	100	7,9
149G 080713	125	11,5
149G 080714	150	9,7
149G 080715 (*)	200	22,6
149G 080716 (*)	250	29,0
149G 080717 (*)	300	40,4
149G 080718 (**)	200	22,3
149G 080719 (**)	250	28,5
149G 080720 (**)	300	39,9

Flange rating PN 10/16. PS 6 bar (p.234)

* PN10

** PN16

**SYLAX GAS WAFER TYPE WITH NOTCHED YELLOW HANDLE
- 316 STAINLESS STEEL DISC**

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 038 792	32/40	2,9
149G 038 793	50	3,3
149G 038 794	65	3,7
149G 038 795	80	4,0
149G 038 796	100	7,1
149G 038 797	125	7,7
149G 038 798	150	8,5
149G 038 799	200	16,6
149G 038 800	250	23,3

Flange rating PN 6/10/16/ASA 150. PS 6 bar (p.234)

**SYLAX GAS LUG TYPE WITH NOTCHED YELLOW HANDLE
- 316 STAINLESS STEEL DISC**

NITRILE - Gas applications

θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 038 811	32	3,3
149G 038 812	40	3,4
149G 038 813	50	3,7
149G 038 814	65	5,1
149G 038 815	80	5,1
149G 038 816	100	7,7
149G 038 817	125	10,1
149G 038 818	150	11,0
149G 038 821 (*)	200	23,1
149G 038 822 (*)	250	23,6
149G 038 819 (**)	200	28,4
149G 038 820 (**)	250	28,5

Flange rating PN10/16. PS 6 bar (p.234)

* PN10

** PN16

SYLAX GAS WAFER TYPE WITH MANUAL GEAR BOX - 316 STAINLESS STEEL DISC

NITRILE - Gas applications
 θ -20°/+60°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 080 759	40	3,3
149G 080 760	50	3,6
149G 080 761	65	4,1
149G 080 762	80	4,3
149G 080 726	100	6,3
149G 080 727	125	9,7
149G 080 728	150	10,6
149G 080 729	200	16,3
149G 080 730	250	23,0
149G 079 286	300	34,8

Flange rating PN 6/10/16/ASA 150. PS 6 bar (p.234)

SYLAX GAS LUG TYPE WITH MANUAL GEAR BOX - 316 STAINLESS STEEL DISC

NITRILE - Gas applications
 θ -20°/+60°



5

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 080767	40	3,6
149G 080768	50	4,0
149G 080769	65	4,6
149G 080770	80	5,5
149G 080734	100	7,9
149G 080735	125	11,6
149G 080736	150	10,1
149G 080737 (**)	200	22,2
149G 080738 (**)	250	28,8
149G 080739 (**)	300	40,8
149G 080731 (*)	200	22,6
149G 080732 (*)	250	29,3
149G 080733 (*)	300	41,4

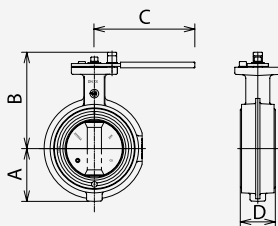
Flange rating PN 10/16. PS 6 bar (p.234)

* PN10

** PN16

OVERALL DIMENSIONS & TECHNICAL INFORMATION

SYLAX GAS RING SHAPED BODY



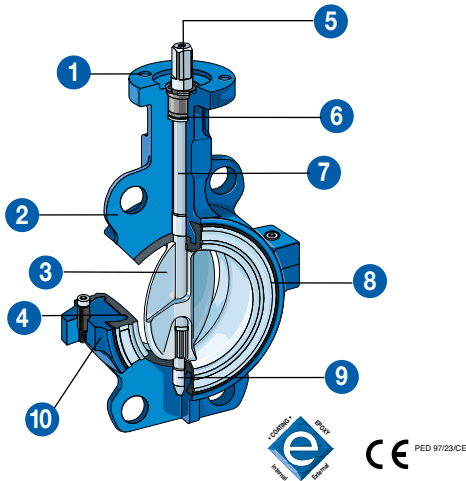
DN	A	B	D	C
50	58	137	43	140
80	72	153	46	140
100	83	165	52	140

Chapter 5.7

Shut Off Valves - TILIS

TILIS DN 50 TO 300MM

- 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.
NFEN 558 class 20.
API 609 table 2 |

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 EPDM liner, together with stainless steel 316 disc is highly recommended.

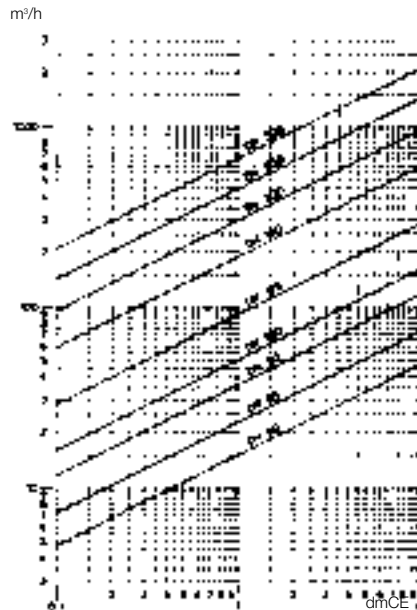
TILIS is designed for industrial applications where elastomer cannot be used. The two part body can be quickly taken apart for easy maintenance.

Greatly appreciated throughout industry, TILIS valves are used for mineral water, cosmetic process, detergents, fertilisers and weed-killers.

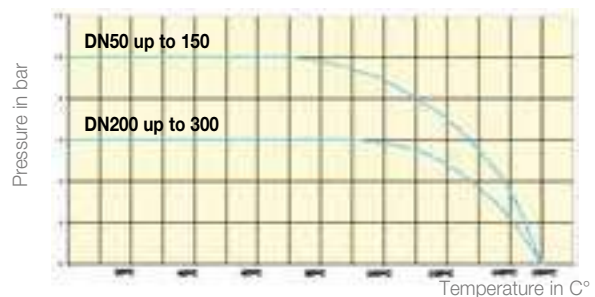
CE PED 97/23/CE ATEX 94/9/CE On request : we can supply butterfly valves type TILIS conformed to the Directive 94/9/CE

HEADLOSS CHART

For water at 20°C



TILIS - PRESSURE/TEMPERATURE DIAGRAM



TILIS WAFER TYPE 316 STAINLESS STEEL DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

 θ +5°/+150°

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 013 015	50	5,8
149G 013 025	65	5,9
149G 059 737	80	6,2
149G 013 039	100	7,3
149G 013 047	125	7,6
149G 013 051	150	9,0
149G 038 871 (*)	200	12,9

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)

* PS maxi = 6 bar

TILIS LUG TYPE 316 STAINLESS STEEL DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

 θ +5°/+150°

5

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 016 787	50	5,6
149G 059 869	65	4,9
149G 059 870	80	7,2
149G 059 871	100	7,4
149G 016 789	125	8,4
149G 059 872	150	11,0
149G 038 872 (*)	200	20,0
149G 038 873 (**)	200	20,0

Flange rating PN 10/16. PS 10 bar (water) (p.234)

* PS maxi = 6 bar and PN16

** PS maxi = 6 bar and PN10

TILIS WAFER TYPE 316 STAINLESS STEEL DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

 θ +5°/+150°

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080799	50	4,2
149G080800	65	4,7
149G080801	80	4,4
149G080790	100	8,0
149G080791	125	9,3
149G080792	150	10,3
149G080782 (*)	200	16,2
149G079617 (*)	250	14,4
149G080783 (*)	300	35,0

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)

* PS maxi = 6 bar

TILIS LUG TYPE 316 STAINLESS STEEL DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

θ +5°/+150°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080802	50	4,0
149G080803	65	4,5
149G080804	80	2,1
149G080793	100	3,7
149G080794	125	11,5
149G080795	150	12,6
149G088303 (*)	200	29,1
149G080796 (*)	250	30,7
149G080797 (*)	300	40,8
149G079858 (**)	200	29,5
149G080771 (**)	250	31,2
149G080772 (**)	300	41,4

Flange rating PN 10/16. PS 10 bar (water) (p.234)

* PS maxi = 6 bar and PN16

** PS maxi = 6 bar and PN10

TILIS WAFER TYPE 316 STAINLESS STEEL MIRROR POLISHED DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

θ +5°/+150°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 016 842	50	5,9
149G 016 843	65	6,1
149G 012 688	80	6,5
149G 016 844	100	7,9
149G 016 845	125	8,7
149G 016 846	150	10,3
149G 038 874 (*)	200	16,7

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)

* PS maxi = 6 bar

TILIS LUG TYPE 316 STAINLESS STEEL MIRROR POLISHED DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

θ +5°/+150°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 016 740	50	4,7
149G 016 741	65	4,9
149G 016 742	80	7,5
149G 016 743	100	7,4
149G 059 106	125	8,4
149G 059 107	150	11,0
149G 038 875 (*)	200	20,0
149G 038 876 (**)	200	20,0

Flange rating PN 10/16. PS 10 bar (water) (p.234)

* PS maxi = 6 bar and PN16

** PS maxi = 6 bar and PN10

TILIS WAFER TYPE 316 STAINLESS STEEL MIRROR POLISHED DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

 θ +5°/+150°

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080806	50	4,0
149G080807	65	4,5
149G080808	80	4,1
149G080784	100	7,3
149G080785	125	8,4
149G080786	150	9,0
149G080787 (*)	200	12,9
149G080788 (*)	250	8,8
149G080789 (*)	300	25,7

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)

* PS maxi = 6 bar

TILIS LUG TYPE 316 STAINLESS STEEL MIRROR POLISHED DISC

EPR/PTFE - Food fluids, drinks, pharmaceutical and cosmetic fluids

 θ +5°/+150°

Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080809	50	3,8
149G080810	65	4,2
149G080811	80	5,1
149G080776	100	8,7
149G080777	125	10,6
149G080778	150	11,3
149G080779 (*)	200	18,5
149G080780 (*)	250	25,1
149G080781 (*)	300	32,1
149G080773 (**)	200	18,9
149G080774 (**)	250	25,6
149G080775 (**)	300	31,6

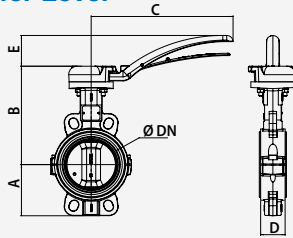
Flange rating PN 10/16. PS 10 bar (water) (p.234)

* PS maxi = 6 bar and PN16

** PS maxi = 6 bar and PN10

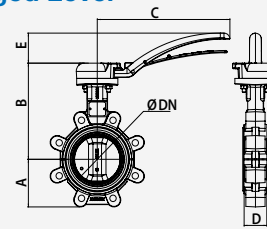
OVERALL DIMENSIONS & TECHNICAL INFORMATION

Tilis Wafer Lever



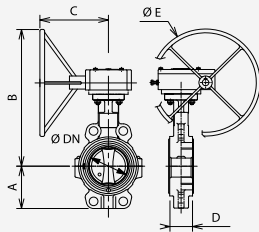
DN	A	B	C	D	E
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	290	52	65
125	120	223	290	56	65
150	131	236	290	56	65
200	164	293	450	60	86

Tilis Lugged Lever



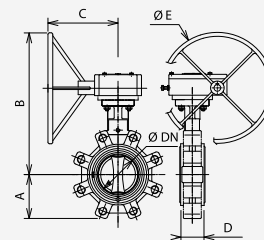
DN	A	B	C	D	E
50	62	169	200	43	45
65	70	178	200	46	45
80	89	184	200	46	45
100	106	208	290	52	65
125	120	223	290	56	65
150	131	236	290	56	65
200	164	293	450	60	86

Tillis Wafer Gearbox



DN	A	B	C	D	E	Kg
50	61	224,5	120	41	125	4,1
65	69	233,5	120	44	125	4,5
80	88	239,5	120	44	125	5,1
100	105	302	197	50	200	8,2
125	119	317	197	54	200	9,2
150	130	330	197	54	200	11,1
200	163	372,5	197	58	200	18,6
250	199	433	239	66	250	24,8
300	234	483	293	76	300	36,7

Tilis Lugged Gearbox



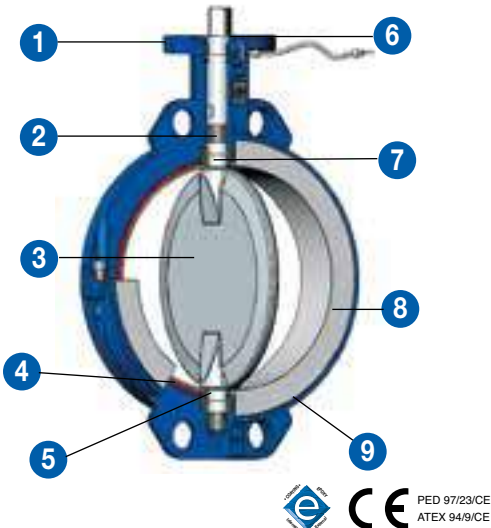
DN	A	B	C	D	E	Kg
50	61	224,5	120	41	125	4,4
65	69	233,5	120	44	125	5,0
80	88	239,5	120	44	125	5,9
100	106	302	197	50	200	9,8
125	123	317	197	54	200	12,3
150	149	330	197	54	200	13,8
200	178	372,5	197	58	200	24,2
250	211	433	239	66	250	33,1
300	243	483	293	76	300	43,7

Chapter 5.8

Shut Off Valves - LYCENE

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

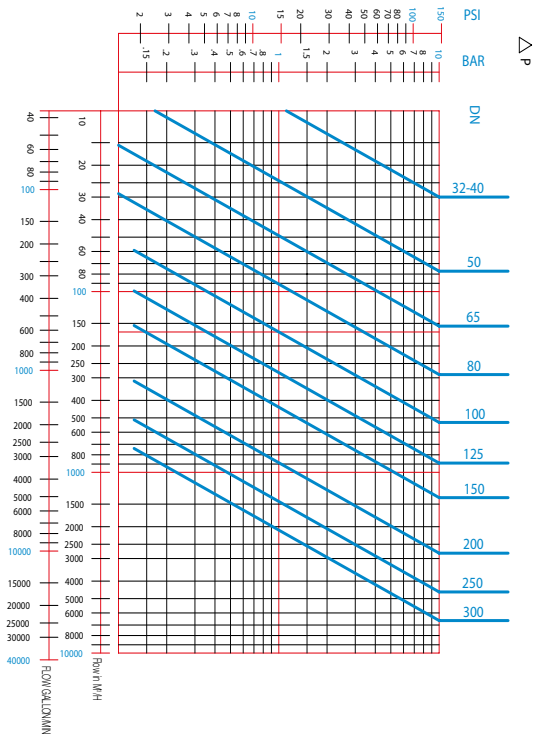


MAIN TECHNICAL FEATURES DESIGNED IN ACCORDANCE WITH EN593

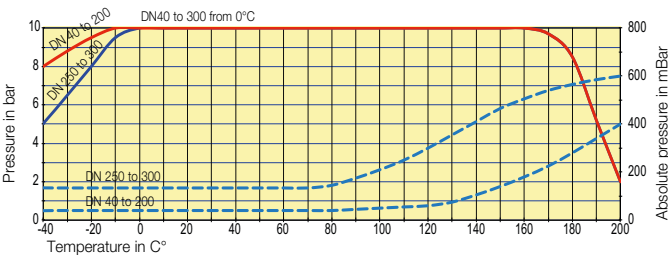
- 1 ISO top connection according to EN ISO 5211
 - 2 Anti-friction bearing
 - 3 One piece blow out proof shaft and PFA coated disc (2,5 mm thick)
 - 4 Liner back-up is enclosed in the body
 - 5 PFA moulding up the stem ensuring zero leakage
 - 6 Upper sealing
 - 7 Tightness at shaft location with bearing and spring
 - 8 PTFE liner (3 mm thick)
- Face to face dimensions according to :
- 9 ISO 5720 class 20.
EN 558 class 20.
API 609 table 2.

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



From -40°C up to 0°C and from +80°C up to +200°C, the temperature variation does not exceed 30°C in continuous functioning. Peaks beyond this variation are tolerated.

Torque figures available on request.

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°C < T < +60°C ; 0,8 bar ≤ P ≤ 1,2 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 :  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 :  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 WITH NOTCHED DUCTILE IRON HANDLEVER.
 WITH NOTCHED DUCTILE IRON HANDLEVER 10 POSITIONS PADLOCKABLE**



**LYCENE WAFER TYPE 316 STAINLESS STEEL DISC
 SILICONE/PTFE - Corrosive fluids, food processing industries and pure water**
 θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 058 826	32	3,9
149G 035 093	40	3,4
149G 010 607	50	4,6
149G 010 608	65	5,2
149G 010 609	80	7,1
149G 056 603	100	8,8
149G 056 685	125	15,0
149G 056 686	150	20,4
149G 056 687	200	29,5
149G 010 614	250	39,3

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)
 Dimensions at the end of the section.

**LYCENE LUG TYPE 316 STAINLESS STEEL DISC
 SILICONE/PTFE - Corrosive fluids, food processing industries and pure water**
 θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 058 828	32	3,9
149G 035 098	40	4,2
149G 016 672	50	5,7
149G 016 673	65	6,5
149G 016 674	80	9,0
149G 056 691	100	11,2
149G 056 692	125	18,2
149G 056 693	150	25,6
149G 016 678 (*) 149G 038 916 (**)	200	37,0
149G 016 679 (*) 149G 038 917 (**)	250	49,6

Flange rating PN 10/16. PS 10 bar (water) (p.234)
 * PN16
 ** PN10
 Dimensions at the end of the section.

LYCENE WAFER TYPE 316 STAINLESS STEEL PFA COATED DISC
SILICONE/PTFE - Corrosive fluids, food processing industries and pure water
 θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 058 827	32	3,4
149G 056 266	40	4,6
149G 014 525	50	5,2
149G 014 526	65	7,1
149G 014 527	80	8,8
149G 056 028	100	15,0
149G 056 596	125	20,4
149G 056 605	150	29,5
149G 060 195	200	39,3

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)
 Dimensions at the end of the section.

LYCENE LUG TYPE 316 STAINLESS STEEL PFA COATED DISC
SILICONE/PTFE - Corrosive fluids, food processing industries and pure water
 θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G 058 829	32	4,2
149G 035 100	40	5,7
149G 016 681	50	6,5
149G 016 682	65	9,0
149G 016 683	80	11,2
149G 056 688	100	18,2
149G 056 689	125	25,6
149G 056 690	150	37,0
149G 016 687 (*)	200	49,6
149G 038 919 (**)		

Flange rating PN 10/16. PS 10 bar (water) (p.234)
 (*) PN16
 (**) PN10
 Dimensions at the end of the section.

**LYCENE WITH NOTCHED DUCTILE IRON HANDLEVER.
WITH MANUAL GEAR BOX LONGLIFE LUBRICATED ACTUATED WITH GEAR**

LYCENE WAFER TYPE 316 STAINLESS STEEL DISC

SILICONE/PTFE - Corrosive fluids, food processing industries and pure water

θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080825	32	4,2
149G080819	40	4,2
149G080820	50	3,8
149G080821	65	5,2
149G080822	80	4,3
149G080823	100	7,6
149G080824	125	8,8
149G080813	150	12,3
149G080814	200	18,1
149G080815	250	26,9
149G079679	300	39,9

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)
Dimensions at the end of the section.

LYCENE LUG TYPE 316 STAINLESS STEEL DISC

SILICONE/PTFE - Corrosive fluids, food processing industries and pure water

θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080837	32	4,3
149G080826	40	4,3
149G080827	50	4,6
149G080828	65	5,1
149G080829	80	5,5
149G080830	100	9,1
149G080831	125	11,2
149G080832	150	14,6
149G080833 (*)	200	24,1
149G080835 (**)		
149G080812 (*)	250	33,2
149G080816 (**)		
149G080834 (*)	300	46,9
149G080836 (**)		

Flange rating PN 10/16. PS 10 bar (water) (p.234)

(*) PN16

(**) PN10

Dimensions at the end of the section.

LYCENE WAFER TYPE 316 STAINLESS STEEL PFA COATED DISC
SILICONE/PTFE - Corrosive fluids, food processing industries and pure water
 θ -40°/+200°



Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080838	32	4,4
149G080839	40	4,4
149G080840	50	4,0
149G079165	65	5,5
149G080841	80	4,6
149G080842	100	7,8
149G080843	125	9,0
149G079469	150	11,3
149G079834	200	18,4
149G080818	250	29,7
149G080844	300	39,8

Flange rating PN 6/10/16/ASA 150. PS 10 bar (water) (p.234)
 Dimensions at the end of the section.

LYCENE LUG TYPE 316 STAINLESS STEEL PFA COATED DISC
SILICONE/PTFE - Corrosive fluids, food processing industries and pure water
 θ -40°/+200°

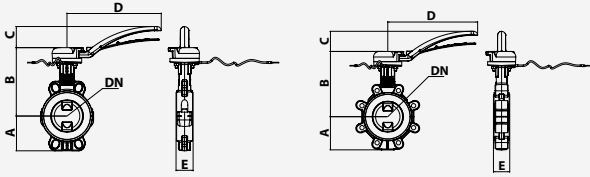


Part Number	DN mm	Kg
DUCTILE IRON GGG40 BODY		
149G080855	32	4,5
149G079132	40	4,5
149G080845	50	4,9
149G080846	65	5,3
149G080847	80	5,7
149G080848	100	9,3
149G080849	125	11,4
149G080850	150	13,7
149G080851 (*)	200	24,4
149G080854 (**)		
149G079210 (*)	250	35,9
149G080817 (**)		
149G080852 (*)	300	46,8
149G080853 (**)		

Flange rating PN 10/16. PS 10 bar (water) (p.234)
 (*) PN16
 (**) PN10
 Dimensions at the end of the section.

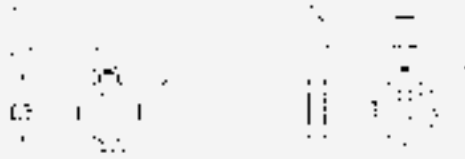
OVERALL DIMENSIONS

Lycene PCF



DN	INOX & PFA					Kg	
	A	B	C	D	E	Water	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

Lycen RM



DN	A	B	C	D	E	Kg Water	Kg Lug
32	73	219,5	120	32,5	125	4,30	4,30
40	73	219,5	120	32,5	125	4,30	4,30
50	69	228,5	120	43,5	125	4,50	5,00
65	73	234	120	46,5	125	4,90	5,40
80	89	239,5	120	46,5	125	5,10	6,10
100	106	304,5	197	52,5	200	8,80	10,3
125	119,5	317	197	56,5	200	10,60	13,0
150	132	330	197	56,5	200	12,20	14,4
200	164	372,5	197	60,5	200	18,40	24,7
250	200	398	197	68,5	200	25,00	31,6
300	235	458	239	78,5	250	37,40	44,8

Chapter 5.9

Emaris butterfly valves - DN 50-300mm



EMARIS BUTTERFLY VALVES

DN 50 up to 300 mm (DN350 upto 900 mm, available on request)

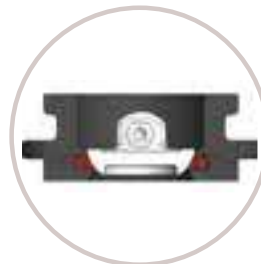
- Available in tapped lug version
- Vertical and horizontal mounting of the shaft
- Easy access to the packing gland without removing the actuator
- Tightness seal in RTFE 15% graphite
- Reliable technology : no need of spring or tightness bearing



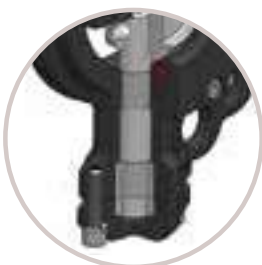
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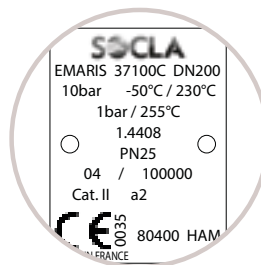
- Body with long neck and integrated arcade, designed to allow insulation.
- Excellent dynamic tightness due to easy adjustment of the packing gland.
- Direct mounting of the actuators on an integrated arcade with large normalised surface.
- Safety anti-ejection circlip keeps shaft in place



- Body : Full range of mounting thanks to centring lug with multiple connections
- Fixation of the the guide plate outside of the seal bearing which guarantees an optimal tightness on the flange
- Disc : long life durability due to double off set disc operating principle minimizing seat wear
- Low torque values
- Tightness zone extended out of the shaft way.

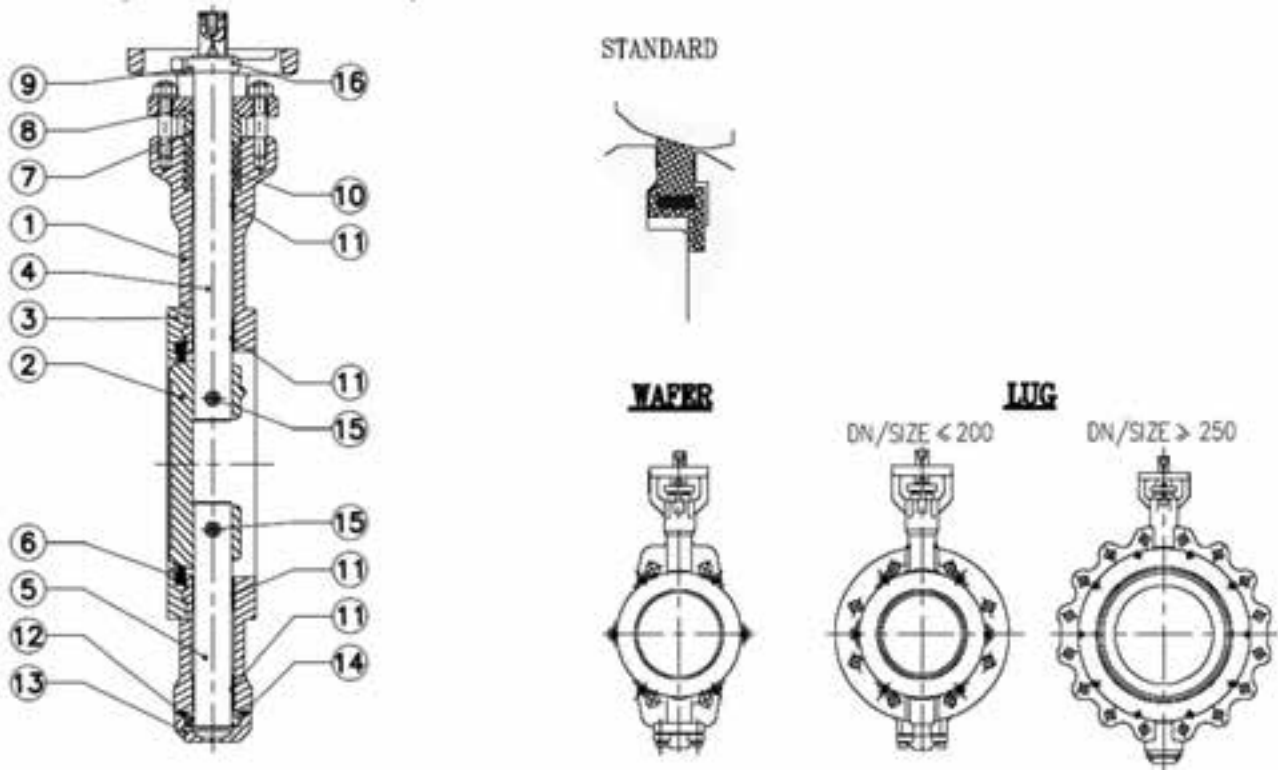


- Excellent guiding and centring of the shaft due to anti-friction bearings
- Double-direction butterfly valve
- Easy-directional maintenance due to a simple design to avoid any mistake by mounting the seal.
- Assembly of the guide plate by screws ensuring an easy access to the seal.
- The external tightness allows a security at the lower shaft way thanks to the o-ring.



- Identification and traceability ensured by riveted metal tag : see page 10

SPARE PARTS LIST AND MATERIALS



No	Description	Nb	Materials	EN
1	Body	1	Carbon Steel	1.0619 / A216 WCB
			Stainless Steel	1.4408 / A351 CF8M
2	Disc	1	Stainless Steel	1.4408 / A351 CF8M
3	Seat Ring	1	Carbon Steel	1.0619 / A216 WCB
			Stainless Steel	1.4408 / A351 CF8M
4	Upper Stem	1	Stainless Steel	1.4021 / A276 Gd420
5	Lower Stem	1	Stainless Steel	1.4542 / A564 Gd630
6	Seat	1	Standard : RTFE 15% Graphite	
7	Packing Gland	1	Stainless Steel	1.4307
8	Gland Follower	1	Carbon Steel	1.1149
			Stainless Steel	1.4401
9	Travel Stop	1	Stainless Steel	1.4306
10	Packing	4 to 6	Graphite	
11	Bearing	4	Carbon Steel + PTFE	
			Stainless Steel + PTFE	
12	Disc Locating Shoulder	1	Stainless Steel	1.4307
13	Cover	1	Carbon Steel	1.0619 / A216 WCB
			Stainless Steel	1.4408 / A351 CF8M
14	Bottom Seal	1	Graphite / PTFE 25% Glass	
15	Pin	1	Stainless Steel	1.4404
16	Circlips	1	Carbon Steel	
			Stainless Steel	

APPROVALS

DESIGN

According to EN 593 and marking according to EN 19

ISO TOP CONNECTION FOR ACTUATIONS

According to EN ISO 5211

FACE TO FACE

According to 558 series 20
ISO 5752 series 20
API 609 table 2 Class 300

CONNECTING FLANGES

According to EN 1092-1 and EN1092-2 : PN10-16-25-40
ASME/ANSI B16.5 : ASA 150 and 300

TESTS

According to EN12266-1

- Resistance and tightness of the body (directive PED 2014/68/UE) : test P11 (1,5 x allowable operating pressure).
- Tightness of the seat : test P12 rate A (1,1 x allowable operating pressure).

EUROPEAN DIRECTIVES

Our butterfly valves are in accordance to the safety requirements of the following directives :

Directive 2014/68/UE : Equipments 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 (group 1/2)*, 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 : 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 alteration of the products to working conditions not previously specified by the customer.

Machinery Directive 2006/42/CE : Machinery Directive

In its Appendix I it sets a certain number of Essential Health and Safety Requirements which must be met. It applies to motorised butterfly valves, (with electric, pneumatic or hydraulic actuators). 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. 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.

An instruction notice specifying the installation characteristics and the commission of the Emaris is added to every product ; it is available on our web site www.socla.com or on request by our sales department.

DIRECTIVES

DIRECTIVE 2014/68/UE EQUIPMENTS UNDER PRESSURE

Products manufactured in conformity with the requirements of the directive, according to pressure, DN and fluid (see upper page)

Liners	DN mm	Cat.	Mounting	PFA	PS				
					L1	L2	G1	G2	
40 bar	RTFE 15% graphite	50 up to 300	II	Flanges	40	25	40	25	25
			I	End of line	40	18	18	18	18
25 bar			II	Flanges	25	25	25	25	25
			I	End of line	25	18	18	18	18
16 bar			II	Flanges	16	16	16	16	16
			I	End of line	16	16	16	16	16
10 bar			II	Flanges	10	10	10	10	10
			I	End of line	10	10	10	10	10

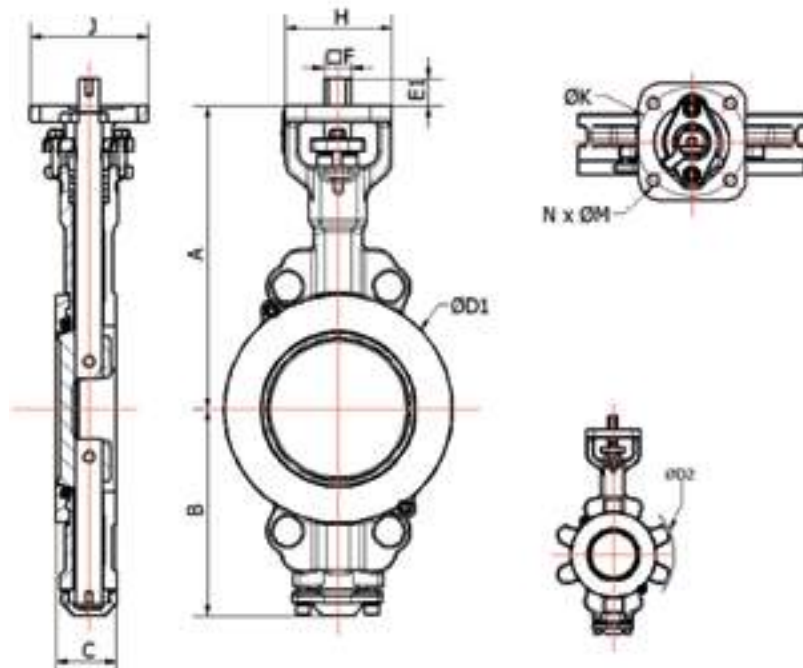
NOTE : Butterfly valves of category II used as «end of line», please consult us.

PS : Maximum allowable pressure (in bar) according to Directive 2014/68/UE

PFA : Allowable operating pressure (in bar) for supply, distribution and disposal of water.

NOTE : for end of line valves, valve must not be mounted between flange (mandatory blind flange).

APPROVALS

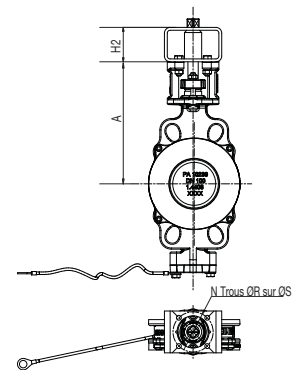


DN	A	B	C	ØD1	ØD2	SQUARE		TOP FLANGE			ISO5211 ISO5210		WEIGHT KG		
						E1	F	N°	H	J	K	N	M	WAFER	LUG
50	175	102	43	97	153	25,5	11	F07	70	80	70	4	9	3,9	4,6
65	191	116	46	117	173	25,5	11	F07	70	80	70	4	9	5	7,1
80	197	122	46	130	190	25,5	11	F07	70	80	70	4	9	5,4	7,9
100	233	149	52	158	225	25,5	14	F10	100	100	102	4	11	9,1	11,6
125	245	160	56	188	261	25,5	14	F10	100	100	102	4	11	11	14,9
150	283	193	56	212	294	25,5	19	F10	100	110	102	4	11	15,7	20,1
200	307	217	60	267	365	25,5	19	F10	100	110	102	4	14	21,9	33,7
250	371	254	68	321	420	36	27	F12	132	140	125	4	14	37,1	51,6
300	399	302	78	372	476	36	27	F12	132	140	125	4	14	54	87

CONNECTING KIT FOR ACTUATION

We recommend direct mounting of the actuator, otherwise see table below.

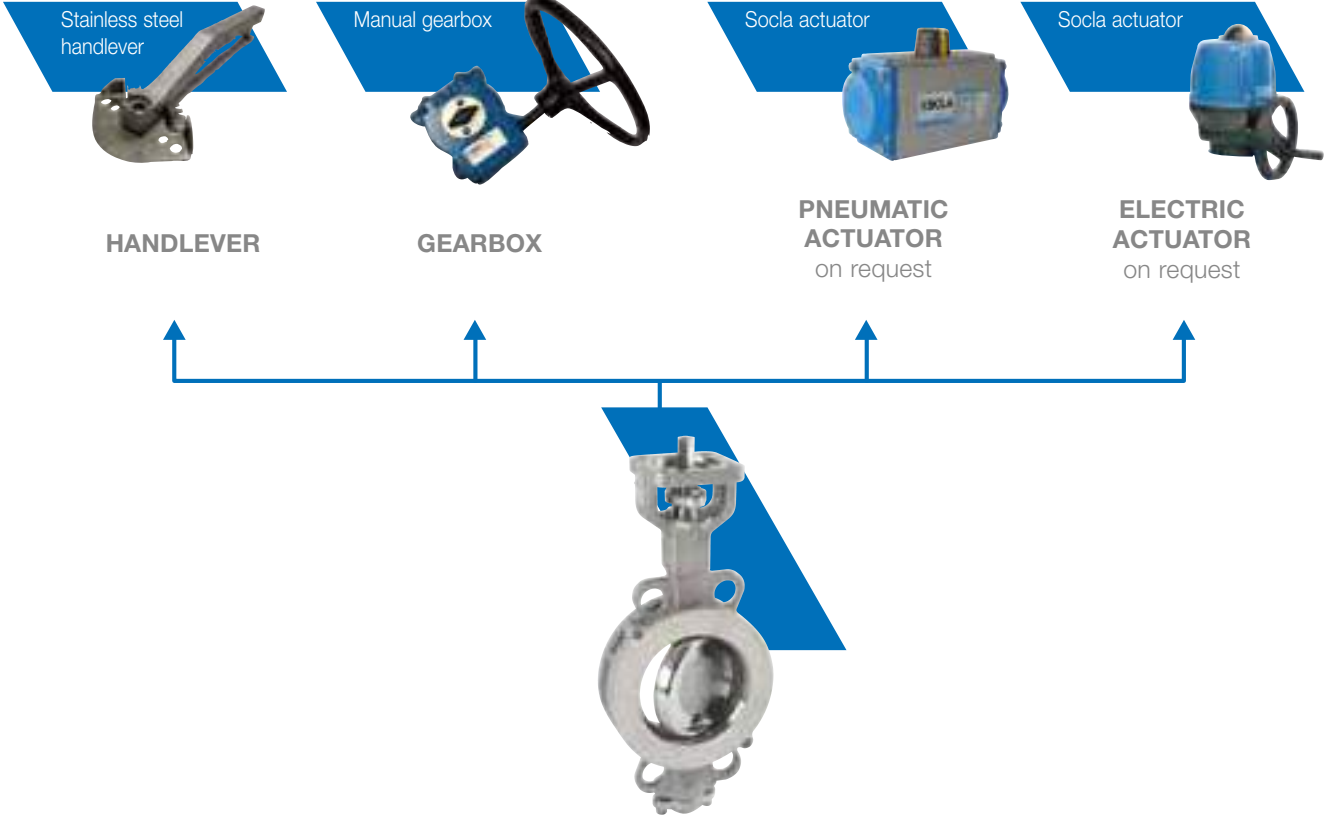
		Exceeding length of the shaft																															
DN	NPS	Iso to of the valve	F05			F07			F10			F12			F14			F16															
			H2	4x ØR	ØS	H2	4x ØR	ØS	H2	4x ØR	ØS	H2	4x ØR	ØS	H2	4x ØR	ØS	H2	4x ØR	ØS													
50	2	F07/□11	60	6,5	50	60	8,5	70	80	10,5	102	80	12,5	125																			
65	2 1/2																																
80	3																																
100	4	F10/□14	80	6,5	50	80	8,5	70	80	10,5	102	80	12,5	125	90	17	140																
125	5																																
150	6	F10/□19	80	6,5	50	80	8,5	70	80	10,5	102	80	12,5	125	90	17	140																
200	8																																
250	10	F12/□27	80	8,5	70	80	10,5	102	80	10,5	102	90	12,5	125	90	17	140																
300	12																																



Reminder of the iso top dimensions EN ISO 5211 (see also the overall dimensions). On request : other special executions is subject to technical feasibility.

ACTUATIONS

Find below the different standard assembly combinations.
For any other information, please ask our technical Department.



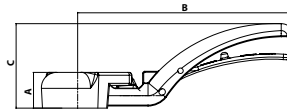
**PLEASE CONTACT US WITH YOUR REQUIREMENTS,
FOR MORE INFORMATION OR POA QUOTATIONS**

Chapter 5.10

Shut Off Valves - Manual Actuations and accessories

(1) PCF

Cast iron notched handle : sturdy, reliable, 10 adjustment positions, padlocked for security, wide range of fittings.



Part Number	DN mm	A	B	C	Kg
149H 001 294	25 to 100	33	200	78	0,8
149H 001 454	125 to 150	33	290	98	1,2
149H 001 455	200	42	450	128	2,9
149H 001 302	250	42	450	128	2,8
149H 001 457	300	42	450	128	3,4

(2) NOTCHED HANDLEVER WITH 1 MECHANICAL LIMIT SWITCH

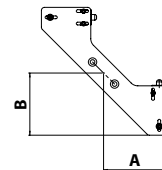
On/off position

Part Number	DN mm	Kg
149G CM1 721	25 to 100	1,1
149G CM1 726	125 to 150	1,6
149G CM1 728	200	3,4
149G CM1 729	250	3,3
149G CM1 730	300	3,9



(3) PLATE WITH 1 MECHANICAL LIMIT SWITCH FOR PCF HANDLEVER

IP66 limit switch set



Part Number	DN mm	A	B	Kg
149G 3E	25 to 100	105	100	0,3
149G 3G	125 to 150	106	100	0,3
149G 3H	200	138	103	0,4
149G 3H	250	138	103	0,4
149G 3I	300	138	103	0,5

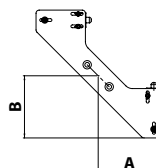
(4) NOTCHED HANDLEVER WITH 2 MECHANICAL LIMIT SWITCHES

Signalisation to 0° and 90°

Part Number	DN mm	Kg
149G CM1 742	25 to 100	1,2
149G CM1 746	125 to 150	1,7
149G CM1 748	200	3,5
149G CM1 749	250	3,4
149G CM1 750	300	4



(5) PLATE WITH 2 MECHANICAL LIMIT SWITCHES FOR PCF HANDLEVER



Part Number	DN mm	A	B	Kg
149G 3J	25 to 100	105	100	0,4
149G 3K	125 to 150	106	100	0,4
149G 3L	200	138	103	0,5
149G 3L	250	138	103	0,5
149G 3M	300	138	103	0,6

5

(6) NOTCHED HANDLEVER WITH IP67 SWITCHBOX

with 2 mechanical limit switches.

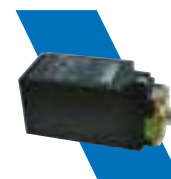
On/off position

Part Number Switchmaster SM-M2 Ref.	DN mm	Kg	Part Number Switchmaster SC-M2 Ref.	DN mm	Kg
149G CM1 812	25 to 100	1,8	149G CM1 782	25 to 100	1,8
149G CM1 816	125 to 150	2,3	149G CM1 786	125 to 150	2,3
149G CM1 818	200	4,6	149G CM1 788	200	4,6
149G CM1 819	250	4,6	149G CM1 789	250	4,6
149G CM1 820	300	5,5	149G CM1 790	300	5,5

(7) IP66 MECHANICAL LIMIT SWITCH

IP66 mechanical limit switch

Part Number	Type	Kg
149H 003 115	IP 66 switch limit - Plunger	0.1
149H 003 119	IP 66 switch limit - Roller plunger	0.1



(8) NOTCHED HANDLEVER WITH IP67 SWITCHBOX

With 2 inductive limit switches.

On/off position

Part Number Switchmaster SM-D2 Ref.	DN mm	Kg	Part Number Switchmaster SC-D2 Ref.	DN mm	Kg
149G CM1 882	25 to 100	1,8	149G CM1 792	25 to 100	1,8
149G CM1 883	125 to 150	2,3	149G CM1 796	125 to 150	2,3
149G CM1 884	200	4,6	149G CM1 798	200	4,6
149G CM1 885	250	4,6	149G CM1 799	250	4,6
149G CM1 886	300	5,5	149G CM1 800	300	5,5

(9) SWITCHBOX

IP67 switchbox with 2 limit switches.

Part Number Switchmaster Ref.	Type	Kg	Part Number Switchcontrol Ref.	Type	Kg
149G YE	IP67 mechanical	0,4	149G YF	IP67 mechanical	0,8
149G Y9	IP67 inductive	0,4	149G YG	IP67 inductive	0,8
149G ZJ	IP67 ATEX	0,4	149G YH	IP67 ATEX	0,8



(10) NOTCHED CAST IRON HANDLEVER

with 2 inductive limit switches.

On/off position

Part Number	DN mm	Kg
149G CM1 822	25 to 100	1,3
149G CM1 826	125 to 150	1,7
149G CM1 828	200	3,4
149G CM1 829	250	3,3
149G CM1 830	300	4

























(11) CONNECTION FOR INDUCTIVE LIMIT SWITCH

(suitable for PCF handlever - manual gear box DA and SA actuators)

Part Number	Male connection for inductive limit switch	Kg
149F 018 965	To be wired	0,02
149F 018 966	With 2 meter wire	0,02
149F 018 967	With 5 meter wire	0,10



THE APPROVALS AND TESTS

Organisations	N°	Products	Sector	Organisations	N°	Products	Sector
	P-14574 P-14575	SYLAX - TILIS SYLAX DN 400 to 1200	SHIPBUILDING	 Water Regulations Advisory Scheme	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 DG - 4313 BS 0449	SYLAX DN 25 to 350 SYLAX GAS DN 32 to 300	WATER GAS
	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	 AIB VINCOTTE	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	 Le futur en construction	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		3029234	SYLAX FM DN 32 to 300	FIREFIGHTING NETWORKS
	08.96.0273/0220	BUTTERFLY VALVES DN 32 to 350	GAS		PV N° 81	SYLAX 25 to 350 SYLAX 400 to 1200	SOCIETE DU CANAL DE PROVENCE
ACS FRENCH MINISTRY APPROVAL	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		R09/62/86 R09/62/37	BUTTERFLY VALVE WITH ELASTOMER LINER	LF Antar France ELF Aquitaine production ELF Atochem Petroleum Petro chemical Chemical industry
	9005-2445	SYLAX DN 32 to 350 SYLAX DN 400 to 600	WATER		03/1992	SYLAX, TILIS, LYCENE	CAR INDUSTRY
		SYLAX DN 25 to 1200	WATER		DA/PGIO 88.986	SYLAX, TILIS, LYCENE	CAR INDUSTRY
	K 82439/01	SYLAX DN 25 to 1200	WATER				

DIRECTIVE 97/23/CE : PRESSURE EQUIPMENT DIRECTIVE
 Manufacturing in accordance with the directive requirements for pressure, DN and fluid

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.	MOUN- TING	PFA water	PS				
						L1	L2	G1	G2	
SYLAX DN25 to 350 mm	6 bar EPDM, Nitrile (CC333G disc), White EPDM	32 to 150	3.3	Flanges End of line	6 4	6 4	6 4	6 4	6 4	
		200 to 350	I	Flanges End of line	6 4	6 4	6 4	6 4	6 4	
		32 to 100	I	Flanges	6	6	6	6	6	6
				End of line	4	4	4	4	4	
		125 to 350	II	Flanges	6	6	6	6	6	6
				End of line	4	4	4	4	4	
	10 bar EPDM, Nitrile (CC333G disc), White Nitrile, Carboxylated nitrile, White EPDM	25 to 100	3.3	Flanges End of line	10 6	10 6	10 6	10 6	10 6	
		125 - 150	I	Flanges End of line	10 6	10 6	10 6	10 6	10 6	
		200 to 350	I	Flanges End of line	10 6	10 6	10 6	10 6	10 6	
		25	3.3	End of line	6	6	6	6	6	
		32 to 100	I	Flanges	10	10	10	10	10	10
				End of line	6	6	6	6	6	
	125 to 350	II	Flanges	10	10	10	10	10	10	
			End of line	6	6	6	6	6		
	16 bar EPDM, Nitrile (CC333G disc)	32 to 100	3.3	Flanges End of line	16 12	16 12	16 12	16 12	10 10	
		125	I	Flanges End of line	16 12	16 12	16 12	16 12	10 10	
		150	I	Flanges	16	16	16	16	10	
				End of line	12	6	12	10	10	
		200 to 300	I	Flanges End of line	16 10	16 6	16 10	16 10	10 10	
		350	I	Flanges End of line	16 8	16 6	16 8	16 8	10 8	
	20 bar Nitrile (except CC333G disc), Neoprene, Butyl, CSM, Natural rubber, White natural rubber	32 to 100	3.3	Flanges End of line	20 12	20 12	20 12	20 12	20 12	
		125 - 150	II	Flanges End of line	20 12	20 12	20 12	20 12	20 12	
		200 to 300	II	Flanges End of line	20 10	20 10	20 10	20 10	20 10	
		350	II	Flanges End of line	20 8	20 8	20 8	20 8	20 8	
32 to 250		3.3	Flanges End of line	20 12	20 12	20 12	20 12	20 12		
300 - 350		I	Flanges End of line	20 12	20 12	20 12	20 12	20 12		
25 bar EPDM, Nitrile (CC333G disc)	32 to 100	3.3	Flanges End of line	25 16	25 16	25 16	25 16	25 16		
	125 to 350	II	Flanges End of line	25 12	25 12	25 12	25 12	25 12		
	32 to 80	3.3	Flanges	25	25	25	25	25		
			End of line	16	16	16	16	16		
	100 to 150	II	Flanges	25	25	25	25	25		
			End of line	16	16	16	16	16		
6 bar EPDM, Nitrile, White EPDM, White Nitrile, Carboxylated nitrile	400 to 500	I	Flanges End of line	6 4	6 4	6 4	6 4	6 4		
	600	I	Flanges End of line	6 4	6 4	6 4	6 4	5 4		
	700 to 800	I	Flanges End of line	6 4	6 4	6 4	6 4	4 4		
	900 to 1000	I	Flanges End of line	6 4	6 4	6 4	6 4	3,5 4		
	1200	I	Flanges End of line	6 4	6 4	6 4	6 4	2,5 4		
	400 to 500	I	Flanges End of line	6 4	6 4	6 4	6 4	6 4		
	600 to 800	II	Flanges End of line	6 4	6 4	6 4	6 4	6 4		
	900 to 1000	II	Flanges End of line	6 4	6 4	6 4	6 4	5 4		
	1200	II	Flanges End of line	6 4	6 4	6 4	6 4	4 4		
	10 bar EPDM, Nitrile, White EPDM	400 to 1200	I	Flanges End of line	10 6	10 6	10 6	10 6	10 6	
		400 to 1200	I	Flanges End of line	10 6	10 6	10 6	10 6	10 6	
	16 bar EPDM, Nitrile	400 to 1200	I	Flanges End of line	16 8	16 8	16 8	16 8	16 8	
400 to 1200		I	Flanges End of line	16 8	16 8	16 8	16 8	16 8		
20 bar EPDM, Nitrile	400 to 600	I	Flanges End of line	20 10	20 10	20 10	20 10	20 10		

FAMILY	LINERS	DN mm	Cat.	MOUN- TING	PFA water	PS			
						L1	L2	G1	G2
SYLAX FM/ CNPP	16 bar EPDM (CNPP approval), EPDM (FM approval)	32 to 300	3.3	Flanges	16	16	16	16	16
				End of line	12	12	12	12	
SYLAX GAS	6 bar Nitrile	32 to 100	I	Flanges	6	6	6	6	6
				End of line	4	4	4	4	4
	125 to 300	II	Flanges	6	6	6	6	6	
			End of line	4	4	4	4	4	
8 bar Nitrile	32 to 100	I	Flanges	8	8	8	8	8	
			End of line	6	6	6	6	6	
125 to 300	II	Flanges	8	8	8	8	8		
		End of line	6	6	6	6	6		
TILIS	EPR/PTFE	50 to 100	I	Flanges	10	10	10	10	10
				End of line	6	6	6	6	6
		125 - 150	II	Flanges	10	10	10	10	10
				End of line	6	6	6	6	6
		200 to 300	II	Flanges	6	6	6	6	6
				End of line	4	4	4	4	4
LYCENE	PTFE/Silicone	40 to 100	I	Flanges	10	10	10	10	10
				End of line	6	6	6	6	6
		125 to 300	II	Flanges	10	10	10	10	10
				End of line	6	6	6	6	6
EMARIS	50 bar PTFE reinforced	50 to 100	II	Flanges	50	50	50	50	50
				End of line	36	36	36	36	36
		125	II	Flanges	50	50	50	28	40
				End of line	36	36	36	36	36
	150	II	Flanges	50	50	50	23	33	
			End of line	36	36	36	33	33	
	200	II	Flanges	25	25	25	17,5	25	
			End of line	18	18	18	18	18	
250	II	Flanges	25	25	25	14	20		
		End of line	18	18	18	18	18		
300	II	Flanges	25	25	25	11,5	16,5		
		End of line	18	18	18	16,5	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.

Chapter 5.11

Shut Off Valves - Ball Valves

This range will be subject to design and part changes during 2021, please contact your Watts representative for more information

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



5

Part Number	DN "	mm	PFA water	PS		G1	G2	Cat	UV
				L1	L2				
X3777 Female/Female									
149B 6041	1/4	8	63	63	63	63	63	3.3	1
149B 6042	3/8	10	63	63	63	63	63	3.3	1
149B 6043	1/2	15	63	63	63	63	63	3.3	1
149B 6044	3/4	20	63	63	63	63	63	3.3	1
149B 6045	1	25	63	63	63	63	63	3.3	1
149B 6046	1 1/4	32	63	63	63	63	63	II	1
149B 6047	1 1/2	40	63	63	63	63	63	II	1
149B 6048	2	50	40	40	40	40	40	II	1
149B 6049	2 1/2	65	25	25	25	25	25	II	1
149B 6050	3	80	25	25	25	25	25	II	1
149B 6051	4	100	25	25	25	25	25	II	1

BSP female threaded connection

X3777S Socket welding connection ends									
149B 6041S	1/4	8	63	63	63	63	63	3.3	1
149B 6042S	3/8	10	63	63	63	63	63	3.3	1
149B 6043S	1/2	15	63	63	63	63	63	3.3	1
149B 6044S	3/4	20	63	63	63	63	63	3.3	1
149B 6045S	1	25	63	63	63	63	63	3.3	1
149B 6046S	1 1/4	32	63	63	63	63	63	II	1
149B 6047S	1 1/2	40	63	63	63	63	63	II	1
149B 6048S	2	50	40	40	40	40	40	II	1
149B 6049S	2 1/2	65	25	25	25	25	25	II	1
149B 6050S	3	80	25	25	25	25	25	II	1
149B 6051S	4	100	25	25	25	25	25	II	1

Socketwelding



(continued)

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



Part Number	DN	PFA	PS				Cat	UV	
	“ mm	water	L1	L2	G1	G2			
X3777B - Butt welding connection ends									
149B 6041B	1/4	8	63	63	63	63	63	3.3	1
149B 6042B	3/8	10	63	63	63	63	63	3.3	1
149B 6043B	1/2	15	63	63	63	63	63	3.3	1
149B 6044B	3/4	20	63	63	63	63	63	3.3	1
149B 6045B	1	25	63	63	63	63	63	3.3	1
149B 6046B	1 1/4	32	63	63	63	63	63	II	1
149B 6047B	1 1/2	40	63	63	63	63	63	II	1
149B 6048B	2	50	40	40	40	40	40	II	1
149B 6049B	2 1/2	65	25	25	25	25	25	II	1
149B 6050B	3	80	25	25	25	25	25	II	1
149B 6051B	4	100	25	25	25	25	25	II	1

Buttwelding

X3777V - female/female									
149B 6041V	1/4	8	63	63	63	63	63	3.3	1
149B 6042V	3/8	10	63	63	63	63	63	3.3	1
149B 6043V	1/2	15	63	63	63	63	63	3.3	1
149B 6044V	3/4	20	63	63	63	63	63	3.3	1
149B 6045V	1	25	63	63	63	63	63	3.3	1
149B 6046V	1 1/4	32	63	63	63	63	63	II	1
149B 6047V	1 1/2	40	63	63	63	63	63	II	1
149B 6048V	2	50	40	40	40	40	40	II	1
149B 6049V	2 1/2	65	25	25	25	25	25	II	1
149B 6050V	3	80	25	25	25	25	25	II	1
149B 6051V	4	100	25	25	25	25	25	II	1

BSP female threaded connection



INDUSTRY, HIGH TEMPERATURE, HIGH PRESSURE

PRESSURE PFA/PS in bar

BODY : carbon steel, Full bore

BALL : 304 stainless steel

SEALS : PTFE reinforced with 25% of glass fibre

HANDLE : with locking system

APPROVAL :  PED 97/23/CE

Part Number EPDM	DN “	mm	PFA water	PS		G1	G2	Cat	UV
				L1	L2				
X3444 - female/female									
149B 6052	1/4	8	63	63	63	63	63	3.3	1
149B 6053	3/8	10	63	63	63	63	63	3.3	1
149B 6054	1/2	15	63	63	63	63	63	3.3	1
149B 6055	3/4	20	63	63	63	63	63	3.3	1
149B 6056	1	25	63	63	63	63	63	3.3	1
149B 6057	1 1/4	32	63	63	63	63	63	II	1
149B 6058	1 1/2	40	63	63	63	63	63	II	1
149B 6059	2	50	40	40	40	40	40	II	1
149B 6060	2 1/2	65	25	25	25	25	25	II	1
149B 6061	3	80	25	25	25	25	25	II	1
149B 6062	4	100	25	25	25	25	25	II	1

BSP female threaded connection

X3444S - Socket welding connection ends

149B 6052S	1/4	8	63	63	63	63	63	3.3	1
149B 6053S	3/8	10	63	63	63	63	63	3.3	1
149B 6054S	1/2	15	63	63	63	63	63	3.3	1
149B 6055S	3/4	20	63	63	63	63	63	3.3	1
149B 6056S	1	25	63	63	63	63	63	3.3	1
149B 6057S	1 1/4	32	63	63	63	63	63	II	1
149B 6058S	1 1/2	40	63	63	63	63	63	II	1
149B 6059S	2	50	40	40	40	40	40	II	1
149B 6060S	2 1/2	65	25	25	25	25	25	II	1
149B 6061S	3	80	25	25	25	25	25	II	1
149B 6062S	4	100	25	25	25	25	25	II	1

Socketwelding

X3444B - Butt welding connection ends

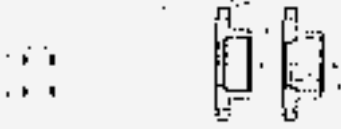
149B 6052B	1/4	8	63	63	63	63	63	3.3	1
149B 6053B	3/8	10	63	63	63	63	63	3.3	1
149B 6054B	1/2	15	63	63	63	63	63	3.3	1
149B 6055B	3/4	20	63	63	63	63	63	3.3	1
149B 6056B	1	25	63	63	63	63	63	3.3	1
149B 6057B	1 1/4	32	63	63	63	63	63	II	1
149B 6058B	1 1/2	40	63	63	63	63	63	II	1
149B 6059B	2	50	40	40	40	40	40	II	1
149B 6060B	2 1/2	65	25	25	25	25	25	II	1
149B 6061B	3	80	25	25	25	25	25	II	1
149B 6062B	4	100	25	25	25	25	25	II	1

Buttwelding



OVERALL DIMENSIONS & TECHNICAL INFORMATION

X3777 & X3444

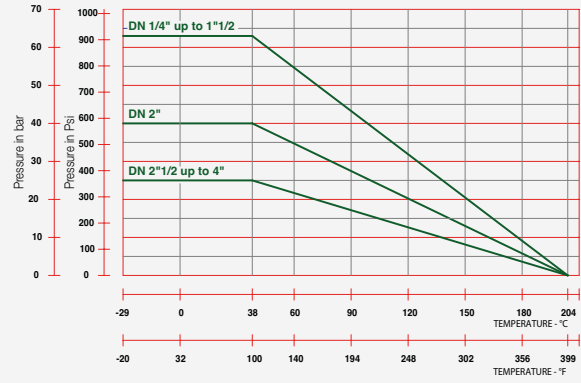


female/female
Types X3777-X3777S-
X3777B*-X3777V-
X3444-X3444S-
X3444B*

DN		A	B	B*	C	D	E	X	F	Kg
"	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1/4	8	11	65(1)	65(1)	105	58	14,2	10	18,5	0,40
3/8	10	12,5	65(1)	65(1)	105	58	17,6	10	18,5	0,40
1/2	15	15	74	74	105	58	21,8	13	22,5	0,68
3/4	20	20	83	83	105	60	27,2	15	28,5	0,96
1	25	25,4	94	94	125	68	33,9	15	34,5	1,35
1 1/4	32	32	109	111	125	72	42,7	15	43,5	2,50
1 1/2	40	38	126	130	150	89	48,8	16	50	3,00
2	50	50	148	151	150	96	61,2	17	63	4,50
2 1/2	65	65	180	185	260	126	77,0	17	86	8,00
3	80	80	202	212	260	146	89,8	17	91	14,20
4	100	100	233	268	280	180	115,3	20	117	21,50

B* = 74 mm

BALL VALVE :
PRESSURE TEMPERATURE CHART



SOCLA WARRANTY:

Unless otherwise stipulated, the Supplier provides a 5 years warranty including the Socla pneumatic and electric actuators (except backflow preventer RPZ, water meters and all other type of motorisations which are guaranteed 1 year). The warranty begins from the date of provision of the products in the Supplier's premises. Said warranty covers only defective materials and manufacturing. To invoke the warranty, the Purchaser must immediately notify the Supplier in writing of defects it has observed in the product, and specify the operating circumstances in which these defects were noticed. The disconnectors type BA are subjected to an annual statutory check and are guaranteed if the installation conditions are complied with, for a duration of one year from the date of invoicing of the product.

The warranty, at the Supplier's discretion, consists only of repairing or replacing products that it finds defective upon their arrival at its premises. Travel, transport and shipment costs and assembly and disassembly costs such as handling costs are not included in the warranty.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.
Watts Industries reserves the right to carry out any technical and design improvements to its products without prior notice. Warranty: All sales and contracts for sale are expressly conditioned on the buyer's assent to Watts terms and conditions found on its website at www.wattswater.eu. Watts hereby objects to any term, different from or additional to Watts terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Watts.

