

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 : 



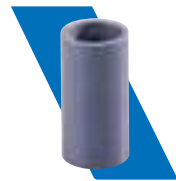
Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2447	3/8	10	10	10	10	10	3.3	10
149B 2448	1/2	10	10	10	10	10	3.3	10
149B 2450	1	10	10	10	10	10	3.3	10
149B 2452	1 1/2	10	10	10	x	10	3.3	6

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

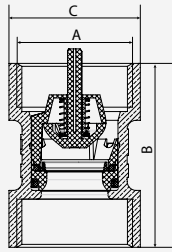


Part Number	A mm external Ø pipe	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3130	15	10	10	10	10	10	3.3	10
149B 3131	22	10	10	10	10	10	3.3	10

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

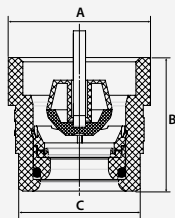


Type EA251 female/male

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

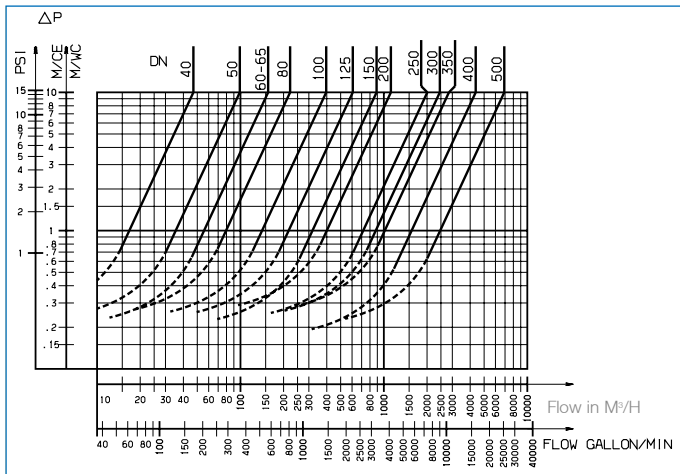
A mm	B mm	C mm	E mm	Kg	KV m ² /H	ζ
8	54,0	20	6,0	0,070	0,80	3,2
10	57,5	20	7,5	0,095	1,70	5,4
12	59,0	20	7,5	0,070	2,65	4,6
15	61,0	24	12,5	0,110	2,90	9,4
22	64,0	32	12,5	0,160	5,50	12,1
28	64,0	41	12,5	0,240	8,60	13,0

Chapter 2.2

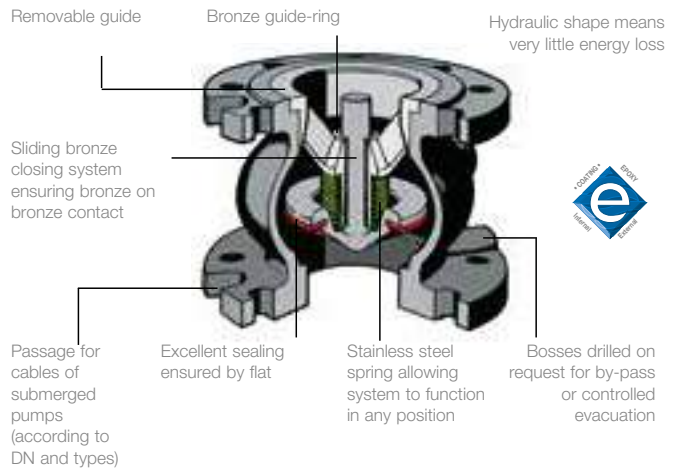
02 SYSTEM

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

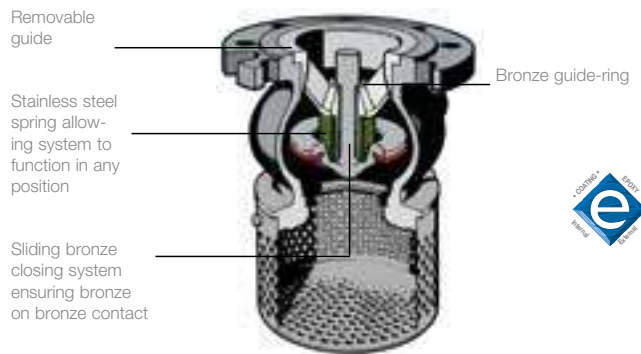
HEADLOSS CHART TYPE 402



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 : 
 O2 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.

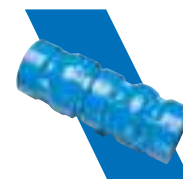
BUILDING INDUSTRY, WATER SUPPLY, PROTECTION OF DRINKING WATER NETWORKS

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

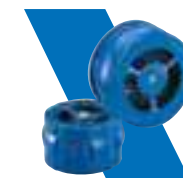
CLOSING SYSTEM : DN 65 bronze, other DN cast iron

GUIDING SYSTEM : cast iron, bronze guiding ring

APPROVALS : 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 flangesPRESSURE 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 flangesPRESSURE 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	PS				Cat	UV
	“		L1	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		1
149B 2346	2	50	16	16	16	16	16		1
149B 2347	2 1/2	65	16	16	16	15	16		1
149B 2348	3	80	16	16	16	12	16		1
149B 2349	4	100	16	16	16	10	16		1
149B 2226 V	5	125	16	16	16	0,5	16		1
149B 2227 V	6	150	16	13	16	0,5	16		1
149B 2229 V	8	200	10	10	10	0,5	10		1
149B 2230 V	10	250	10	10	10	0,5	10		1
149B 2231 V	12	300	10	10	10	0,5	10		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		
149B 2357	3		16	16	16	12	16		
149B 2358	4		16	16	16	10	16		



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		1
149B 2255	6	150	16	13	16	0,5	16		1
149B 2256	8	200	16	10	16	0,5	16		1
149B 2277	10	250	16	10	16	0,5	14		1
149B 2278	12	300	16	10	16	0,5	11		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		1
149B 2455	3		16	16	16	12	16		1
149B 2456	4		16	16	16	10	16		1
149B 2257	5		16	16	16	0,5	16		1
149B 2258	6		16	13	16	0,5	16		1
149B 2259	8		16	10	16	0,5	16		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 :   ACS



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

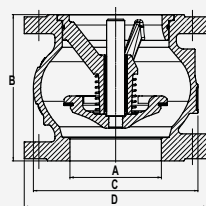
Dimensions at the end of the section.

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

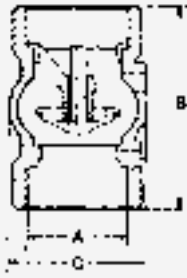
with flanges



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**

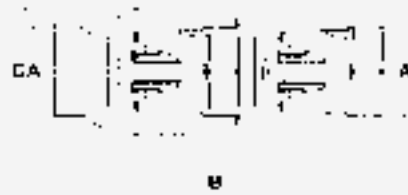
female/female



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

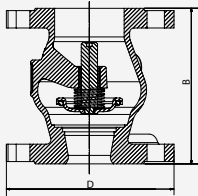
female/female



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

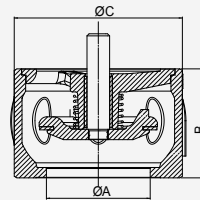
Type 462
with flanges



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

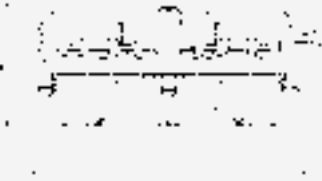
882

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

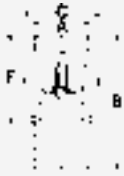
212 - 212 S



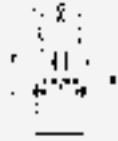
male/female

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)			(1)	(2)		
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

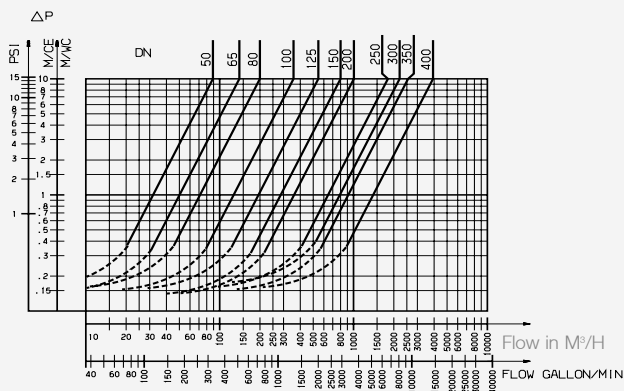


with flange

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

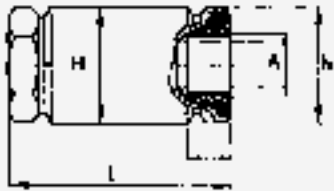


Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3240 X	1/4	8	160	160	160	160	160	3.3	1
149B 3241 X	3/8	10	160	160	160	160	160	3.3	1
149B 3242 X	1/2	15	160	160	160	160	160	3.3	1
149B 3243 X	3/4	20	160	160	160	160	160	3.3	1
149B 3244 X	1	25	160	160	160	160	160	3.3	1
149B 3245 X	1 1/4	32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

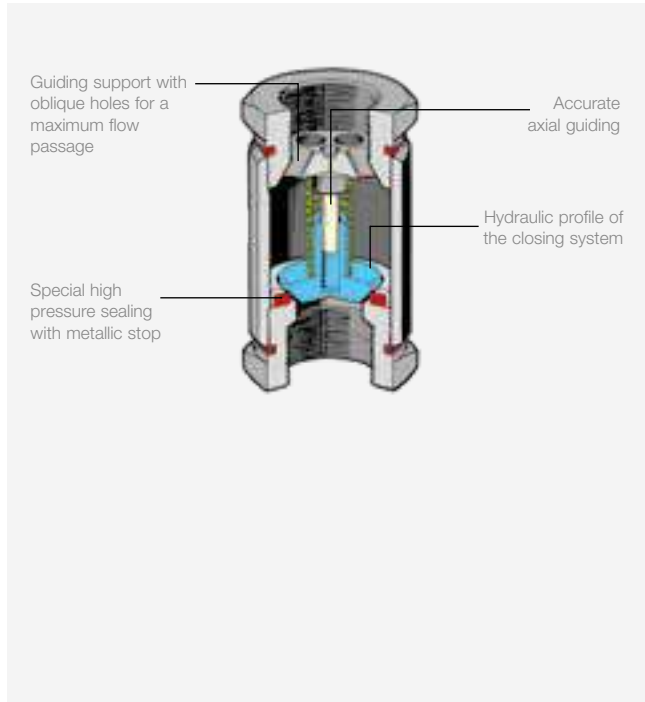
Dimensions at the end of the section.

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

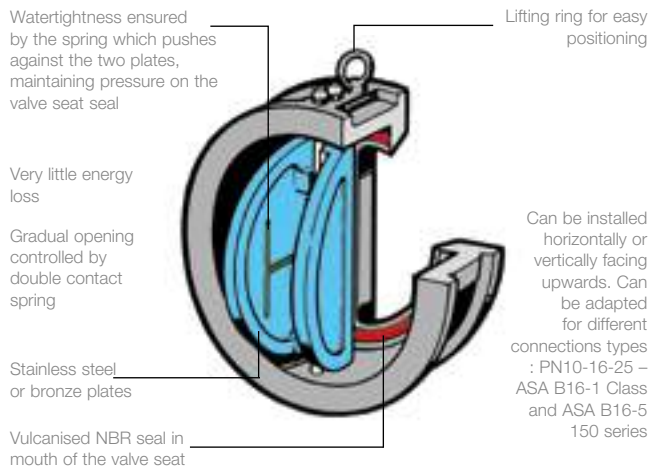


Chapter 2.4

05 HP SYSTEM

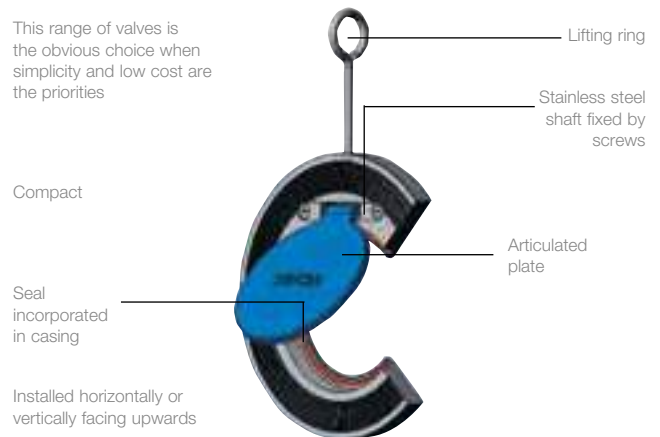
DOUBLE PLATE BETWEEN FLANGES

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



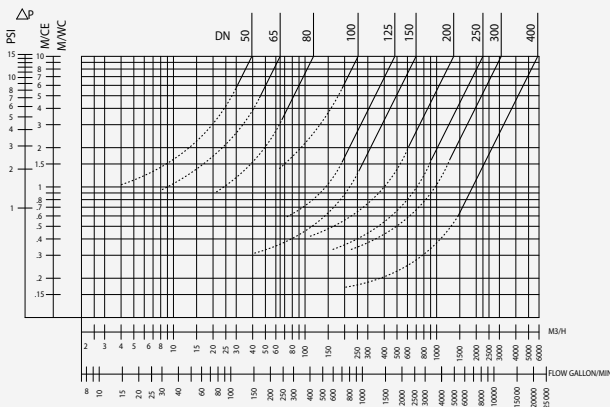
SINGLE PLATE BETWEEN FLANGES

- Space-saving
- Simple and reliable
- Competitive price

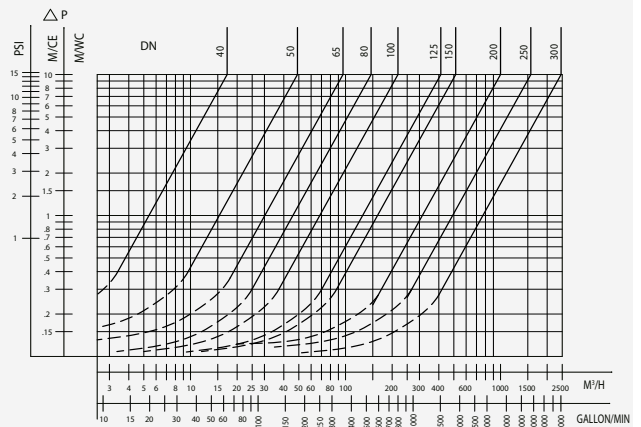


HEADLOSS CHART

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

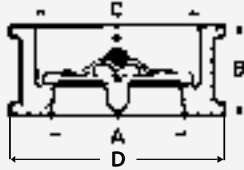


Part Number	DN		PFA water	PS				Cat	UV
	"	mm		L1	L2	G1	G2		
149B 3170	2	50	25	25	25	20	25	I	1
149B 3171	2 ^{1/2}	65	25	25	25	15	25	I	1
149B 3172	3	80	25	25	25	12	25	I	1
149B 3173	4	100	25	20	25	10	25	I	1
149B 3174	5	125	25	16	25	0,5	25	I	1
149B 3175	6	150	25	13	25	0,5	23	I	1
149B 3176	8	200	25	10	25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

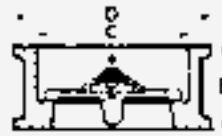
895 - 895V



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

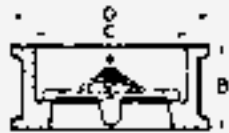
805



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

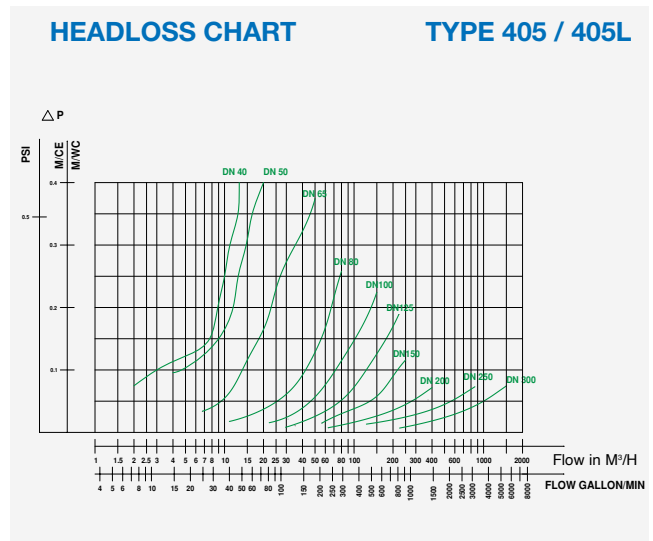
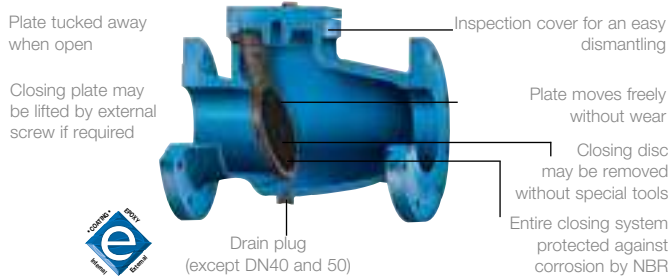


Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149G3560	40	16	10	10	10	10	I	1
149G3561	50	16	10	10	10	10	I	1
149G3562	65	16	10	10	10	10	I	1
149F021290	80	16	10	10	10	10	I	1
149F021292	100	16	10	10	10	10	I	1
149F021293	125	16	10	10	0,5	10	I	1
149F021294	150	16	10	10	0,5	10	I	1
149F021295	200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

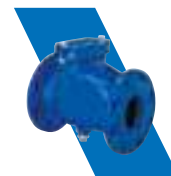
CASING : ductile iron GJS (DN65 to 300) epoxy coated inside / outside

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 :  PED 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 :  PED 97/23/CE 

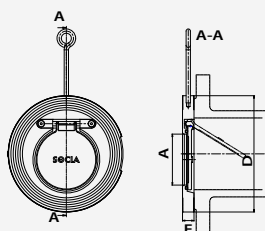


Part Number	DN mm	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 3459	40	16	16	16	0,5	16	3.3	1
149B 3460	50	16	16	16	0,5	16	3.3	1
149B 3772	65	16	16	16	0,5	15	3.3	1
149B 3773	80	16	16	16	0,5	12	3.3	1
149B 3774	100	16	16	16	0,5	10	3.3	1
149B 3775	125	16	16	16	0,5	8	3.3	1
149B 3776	150	16	13	16	0,5	6	3.3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

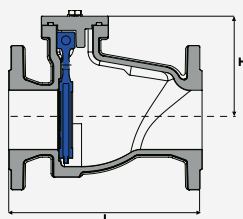
405



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

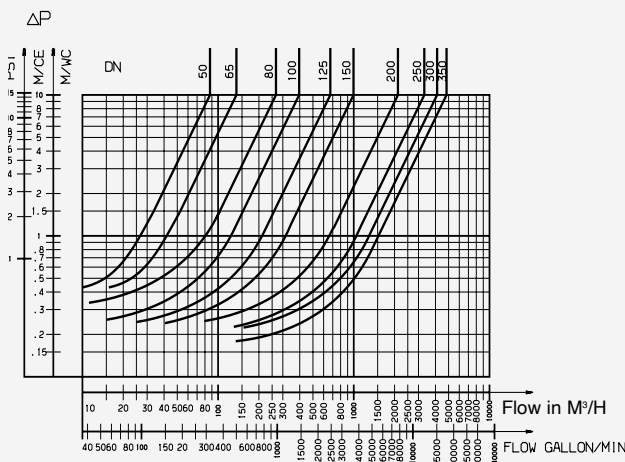
DN	L mm	H mm	Kg
40	180	89	6
50	200	95,5	7,5
65	240	122,5	11
80	260	139,5	15
100	300	154,5	21
125	350	162	30
150	400	179	39

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

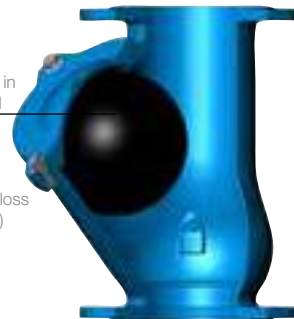
NON-RETURN VALVE

Anti-incrustation materials

Can be installed horizontally or vertically, upwards

Self-cleaning ball in specially adapted materials

Very little energy loss (unrestricted flow)



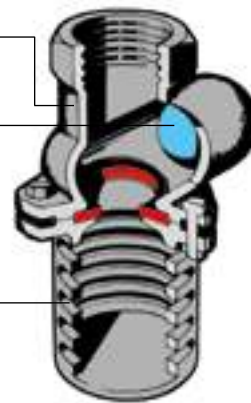
Inspection cover for access and maintenance

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 examples of product labels for a non-return valve. The left label is for a 'Socia sas' valve with a nominal diameter of DN 148. It includes information such as 'Made in France', 'Reference 148B0000X', 'Max. admissible pressure PS 20°C', 'Liqu. 1/2 : XX / XX bar', 'Gaz 1/2 : XX / XX bar', 'TB : -10°C / +100°C', 'PN XX/XX', and 'XX0000X'. It is marked with CE and ATEX 94/9/CE. The right label is for a 'Socia sas' valve with a nominal diameter of DN 148. It includes information such as 'Reference XX / XXXX', 'Max. admissible pressure PS 20°C : xx bar', 'Liqu. 1/2 : XX / XX bar', 'Gaz 1/2 : XX / XX bar', 'PN XX / XX', 'TB : -10°C / +100°C', and 'XX0000X-X'. It is marked with CE and Ex 120D. Annotations point to various regulatory requirements like 'Maximum admissible pressure Water 20°C', 'Nominal diameter', 'Max. admissible pressure PS', 'G1/G2 (gas)', 'Manufacturing month/year', 'Manufacturing order', 'Connecting flanges', 'Approvals', 'ATEX 94/9/CE marking', 'Notified body number for the Directive PED 97/23/CE', 'Casing material', 'Max. admissible pressure PS L1/L2 (liquids)', 'Figure', 'Manufacturing month/year', 'Reference', 'Notified body number for the Directive PED 97/23/CE', 'Max. admissible pressure PS G1/G2 (gas)', 'Mini/maxi working temperature', 'Connecting flanges', 'Manufacturing order', and 'Label + manufacturing Standard / CPD'.

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
	"	mm		L1	L2	G1	G2		
149B 3202	1	10	10	10	10	10	10	3.3	1
149B 3203	1 1/4	10	10	10	10	10	10	I	1
149B 3204	1 1/2	10	10	10	10	10	10	I	1
149B 3205	2	10	10	10	10	10	10	I	1
149B 3206	2 1/2	10	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	I	1
149B 2524	1 1/2	10	10	10	10	10	I	1
149B 2525	2	10	10	10	10	10	I	1
149B 2527	2 1/2	10	10	10	10	10	I	1
149B 2528	3	10	10	10	10	10	I	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 :   PED 97/23/CE
CPR 305/2011/UE

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	16	15	I	1
149B 15054	3	80	16	16	16	12	I	1
149B 15055	4	100	16	16	16	10	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 :

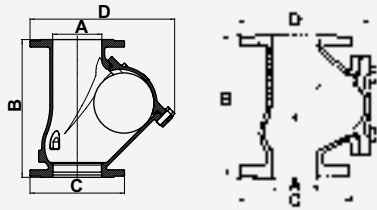


Part Number	DN "	PFA water	PS				Cat	UV	
			L1	L2	G1	G2			
149B 2322	1	10	10	10	10	x	x	3.3	1
149B 2323	1 ^{1/4}	10	10	10	10	x	x	3.3	1
149B 2324	1 ^{1/2}	10	10	10	10	x	x	3.3	1
149B 2325	2	10	10	10	10	x	x	3.3	1
149B 2327	2 ^{1/2}	10	10	10	10	x	x	3.3	1
149B 2368	3	10	10	10	10	x	x	3.3	1

Dimensions at the end of the section.

OVERALL DIMENSIONS

418 408

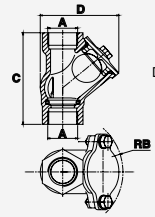


With flanges

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

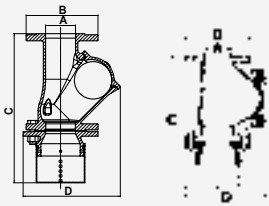


Type 50 female/female

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

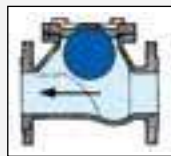
A		B mm	C mm	Kg	KV m ³ /H	ζ
"	mm					
1	26/34	104	183	1,9	16	2,40
1 1/4	33/42	119	198	2,4	23	3,10
1 1/2	40/49	137	215	3,2	40	2,50
2	50/60	157	256	4,1	63	2,50
2 1/2	66/76	179	292	6,5	103	2,60
3	80/90	214	303	12,9	165	2,35

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



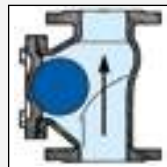
VERTICAL ASCENDING



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

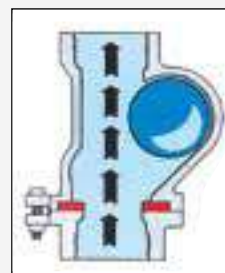


HORIZONTAL MOUNTING Lodging of the ball below the axis. The arrow shows the direction in which the liquid is rising.

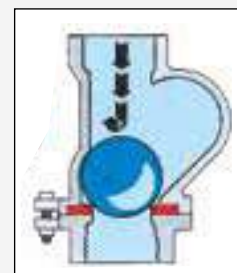


APPLICATIONS

- 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

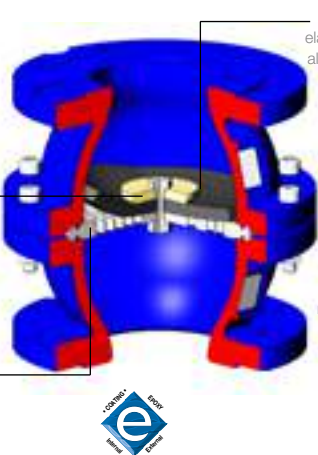
- Silent operation (in all positions)
- Protects against water hammering
- Very reliable
- Adapts to fluctuating flow rates

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

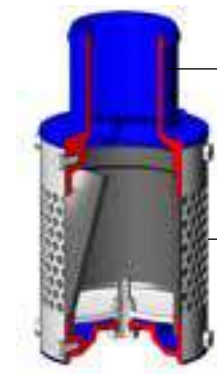
Several concentric membranes are used for wide membrane diameters. A thin-membraned version is available for special applications eg gases, vacuums



MI SYSTEM
FOOT VALVE

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

Closing system EPDM seal



Many types of connections

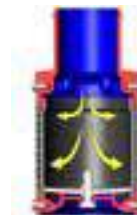
Full passage



WORKING PRINCIPLE OF THE "MI" SYSTEM



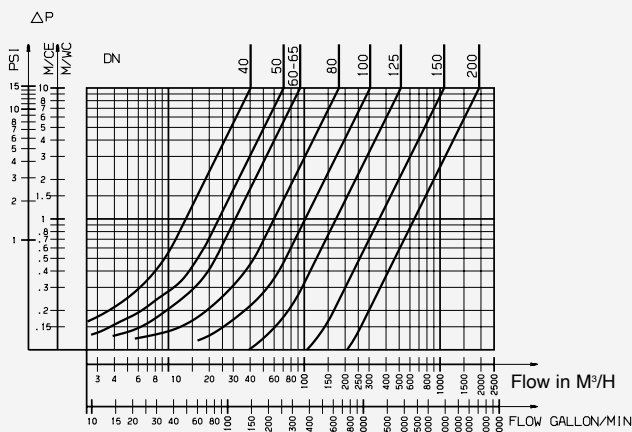
SUCTION



FLOW STOPS

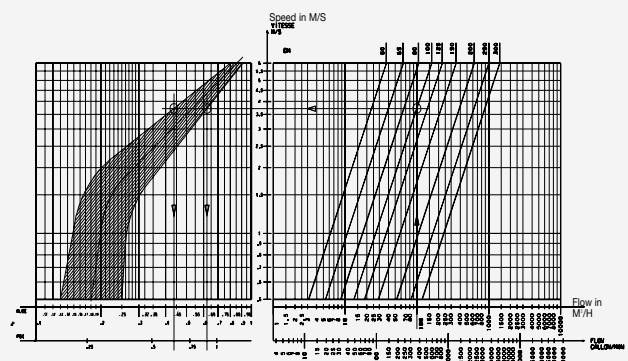
HEADLOSS CHART

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°

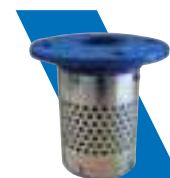
FLANGE : GJL cast iron epoxy coated

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

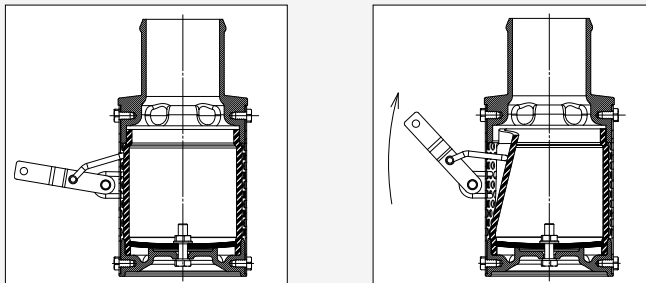
Kit

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



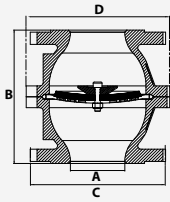
Part Number	DN	UV
	" mm	
149F 0084 29	65-110	1
149F 0084 49	120-150	1
149F 0084 52	200-300	1

WORKING PRINCIPLE OF THE DRAINAGE SYSTEM (OPTIONAL)



OVERALL DIMENSIONS

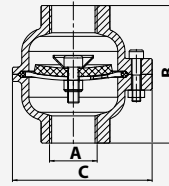
407



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

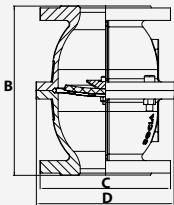
207



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

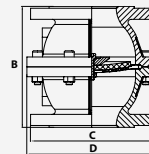
447



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

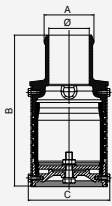
417



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

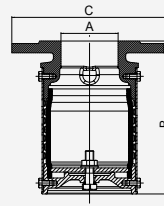
317



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

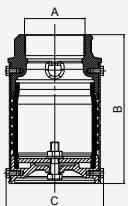
327



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

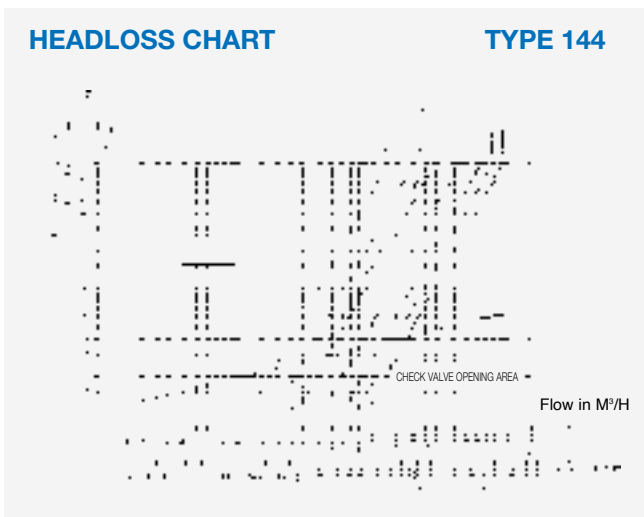
Chapter 2.7

TJ SYSTEM & TJO + FL + 04 SYSTEMS

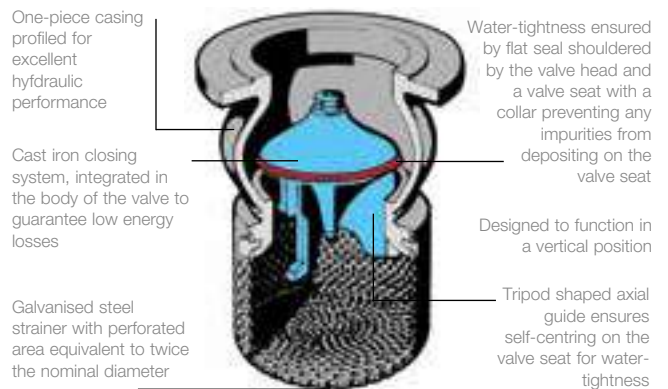
TJ SYSTEM

- 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 θ 80°

CASING : brass

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

SEALS : EPDM O’ring

SPRING : stainless steel

APPROVALS :  ACS



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 θ 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

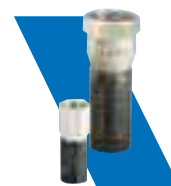
Part Number	DN "	PFA water	PS				Cat	UV
			L1	L2	G1	G2		
149B 2017	3/8	10	10	10	x	x	3.3	1
149B 14065	1/2	10	10	10	x	x	3.3	1
149B 1128	3/4	10	10	10	x	x	3.3	1

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

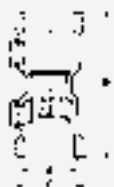
290D 290P - 297D



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

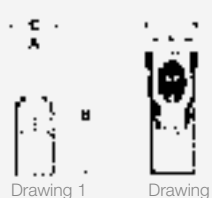
209



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



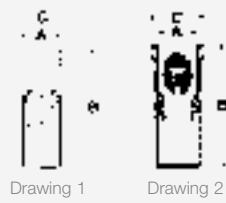
Types 190/190X female

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

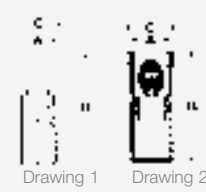
190P / 190D



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

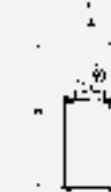
114



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

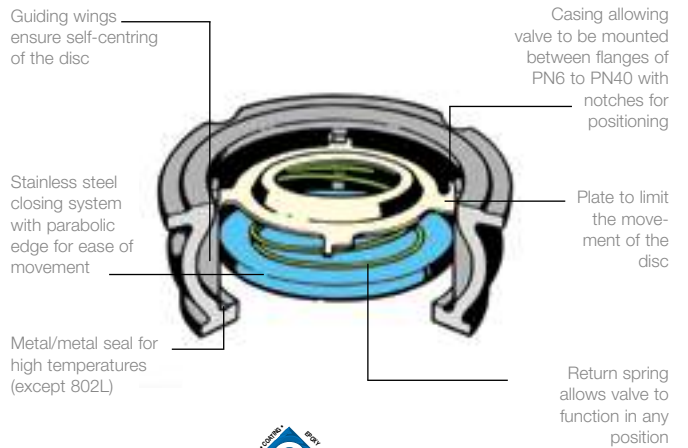
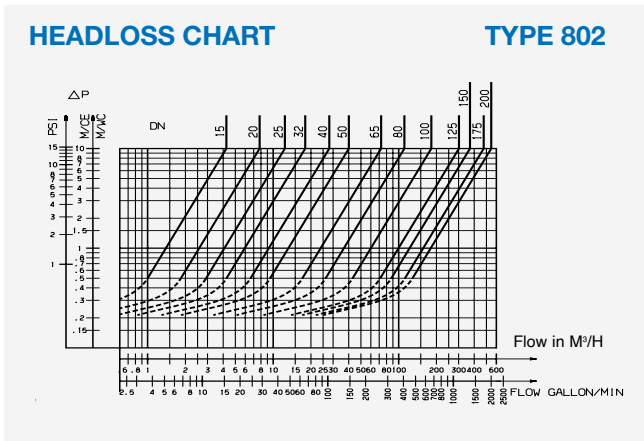
A		B mm	C mm	Kg	KV m³/H	ζ
"	mm					
3/4	20/27	64,5	34	0,03	8,0	3,90
1	26/34	78,5	40	0,04	11,9	4,30
1 1/4	33/42	97,0	49	0,07	20,0	4,11

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 \emptyset : \emptyset 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


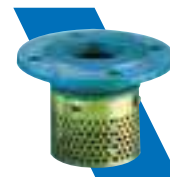
Dimensions at the end of the section.

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	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	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	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	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	

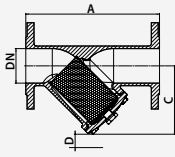
812XB



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

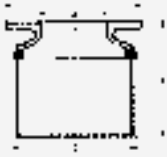
46



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

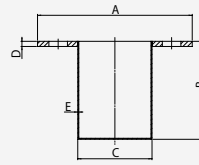
46G



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