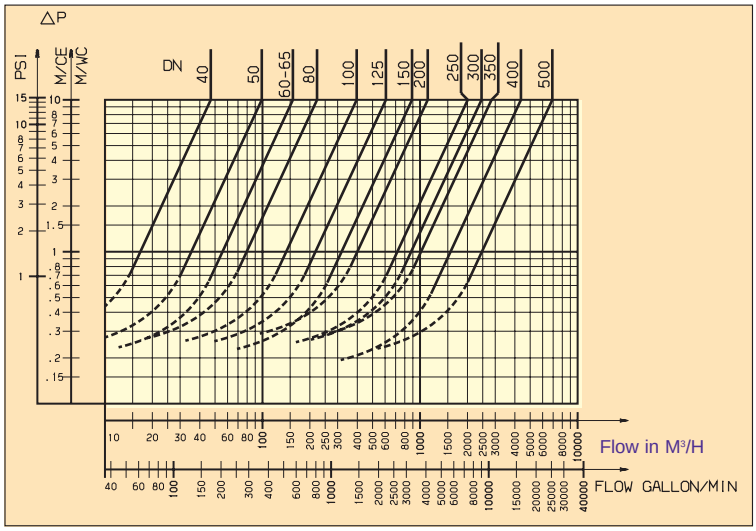


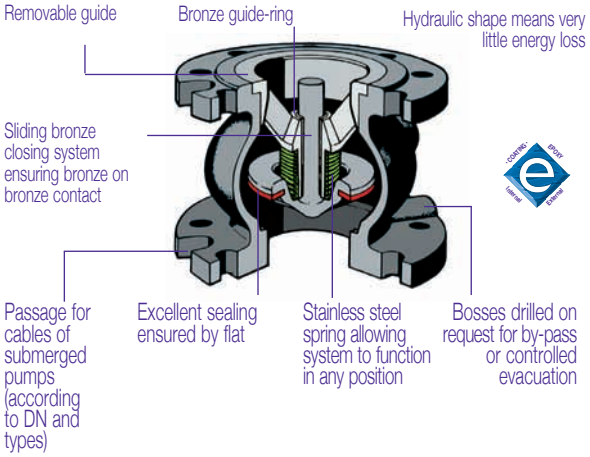
SYSTEM 02

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

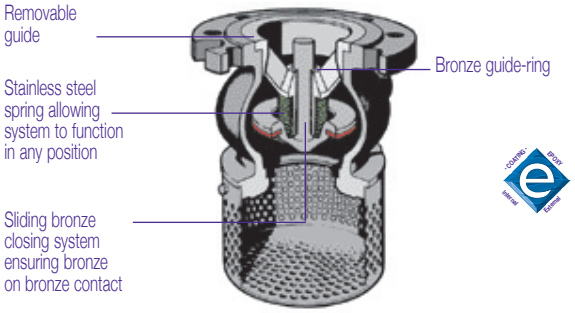
HEADLOSS CHART — TYPE 402



NON-RETURN VALVE



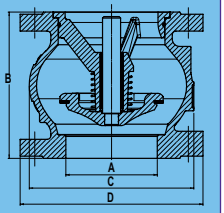
FOOT VALVES



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	●	

TECHNICAL INFORMATION

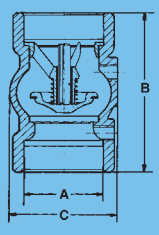
Types
402- 402 B
402 RR - 402 S - 402 Z
402 TTP - 422
with flanges



A "	A mm	B mm	C mm	D mm	D 402S	Kg	KV m³/H	ζ
1 1/2	40	85	80	150	150	4,2	47	1,80
2	50	100	97	165	165	5,8	99	1,00
2 1/4	60	120	125	185	185	8,1	159	1,10
2 1/2	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

Types
202 - 202 TTP - 202V
female/female



A "	A mm	B mm	C mm	Kg	KV m3/H	ζ
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

NON-RETURN

WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

462

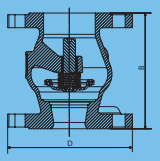


PRESSURE PFA/PS in bar — θ 100°
BODY WITH INTEGRATED ONE-ARM GUIDE : GJL cast iron, epoxy coated
Face to face dimensions according to EN558-14
SEAL : EPDM
CLOSING SYSTEM : Brass
RING + STEM : Bronze - SPRING : Stainless steel
APPROVALS : CE PED 97/23/CE ACS WRAS approved materials

with PN 10 flanges

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

TECHNICAL INFORMATION



Type 462 with flanges

DN "	DN mm	B mm	D mm	Kg	KV m3/H	ζ
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

WATER SUPPLY, WATER DISTRIBUTION, PUMPING, INDUSTRY

402



202



PRESSURE PFA/PS in bar — θ 100°
CASING : GJL cast iron, epoxy coated - 2 undrilled bosses
SEAL : EPDM - SPRING : stainless steel (type 202)
Type 402 :
CLOSING SYSTEM DN 40 brass, DN 50 and 65 bronze, other DN : cast iron with bronze stem
GUIDING : DN 50 bronze, other DN : cast iron with bronze ring
Type 202 :
CLOSING SYSTEM : DN 2"1/2 & 3" bronze, DN4" cast iron with bronze stem
GUIDING : DN2"1/2 bronze, other DN cast iron with bronze ring
APPROVALS : BUREAU VERITAS ACS CE PED 97/23/CE WRAS approved materials

with PN 10 flanges

DN "	DN mm	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	U V	
1 1/2	40	16	16	16	16	16	I	149B 2281	1	
2	50	16	16	16	16	16	I	149B 2282	1	
2 1/4	60	16	16	16	16	16	I	149B 1176	1	
2 1/2	65	16	16	16	15	16	I	149B 2283	1	
3	80	16	16	16	12	16	I	149B 2284	1	
3	80	16	16	16	16	16	II	149B 2284C2	1	
4	100	16	16	16	10	16	I	149B 2285	1	
4	100	16	16	16	16	16	II	149B 2285C2	1	
5	125	16	16	16	0,5	16	I	149B 2226	1	
5	125	16	16	16	16	16	II	149B 2226C2	1	
6	150	16	13	16	0,5	16	I	149B 2227	1	
6	150	16	16	16	16	16	II	149B 2227C2	1	
8	200	10	10	10	10	10	II	149B 2229	1	
10	250	10	10	10	10	10	II	149B 2230	1	
12	300	10	10	10	10	10	II	149B 2231	1	
14	350	10	10	10	0,5	10	II	149B 2232	1	
16	400	10	10	10	0,5	10	II	149B 2233	1	
20	500	10	10	10	0,5	10	II	149B 2235	1	

Other approvals available : kiwa VdS *Consult us.*

female/female

DN "	DN mm	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	U V	
2 1/2	65	16	16	16	15	16	I	149B 2286	1	
3	80	16	16	16	12	16	I	149B 2287	1	
4	100	16	16	16	10	16	I	149B 2288	1	

Other approvals available : VdS *Consult us.*

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

BOOSTING UNITS PUMPING, WATER DISTRIBUTION, INDUSTRY

882



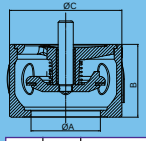
PRESSION PFA 40 bar / PS in bar — θ 100°
CASING : GJS ductile iron epoxy coated
SEAL : EPDM
CLOSING SYSTEM : DN 65 bronze, other DN cast iron
GUIDING SYSTEM : cast iron, bronze guiding ring
APPROVALS : BUREAU VERITAS CE PED 97/23/CE ACS WRAS approved materials
SPECIAL : PN for Ø 200 and 250 (see technical information)

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

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

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

TECHNICAL INFORMATION



Type 882 between flanges

A "	B mm	C mm PN 10/16	C mm PN 25	C mm PN 40	C mm ASA 150	Kg
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

BOOSTING UNITS PUMPING, WATER DISTRIBUTION, INDUSTRY

892

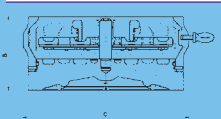


PRESSION PFA/PS en bar — θ 100°
CASING + SEAT : GJS ductile iron epoxy coated
SEAL : EPDM - GUIDE : Bronze
CLOSING SYSTEM : Stainless steel
NUTS + SPRING : Stainless steel
LIFTING EYES : Galvanised steel
Reduces the water hammers
APPROVALS : BUREAU VERITAS ACS (Up to DN200) CE PED 97/23/CE WRAS approved materials

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

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

TECHNICAL INFORMATION



Type 892 between flanges

A "	A mm	B mm	C PN10	C PN16	C PN25	C PN40	C ASA150	Kg
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

402B



PROTECTION OF DRINKING WATER NETWORKS, WATER DISTRIBUTION, INDUSTRY

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 : BUREAU VERITAS, CE PED 97/23/CE, ACS, WRAS approved materials

Other approvals available : kiwa VG

Consult us.

with PN10 flanges

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

*Casing : GJS ductile iron epoxy coated

402RR



FOOD INDUSTRY, WATER DISTRIBUTION AND INDUSTRY,

PRESSURE PFA/PS in bar θ 80°

CASING : GJL cast iron PA (polyamid) coating

CLOSING SYSTEM : 304 Stainless steel

SEAL : EPDM

GUIDING SYSTEM : DN 2" in bronze, other DN in cast iron with stainless steel ring

APPROVALS : BUREAU VERITAS, CE PED 97/23/CE, ACS

Other approvals available : kiwa

Consult us.

with PN10 flanges

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

* Consult us

402S



HIGH PRESSURE, PUMPING, WATER DISTRIBUTION, INDUSTRY

PRESSURE PFA/PS in bar θ 100°

Up to 150 mm : PN 25-40
From 200 to 500 mm : PN 25

CASING : GJS ductile iron epoxy coated

Two undrilled bosses

CLOSING SYSTEM : DN40 brass, DN50 to 250 bronze, DN350 to 500 GJS ductile iron

GUIDE + SEAL : the same as valve type 402

APPROVALS : BUREAU VERITAS, CE PED 97/23/CE, ACS

with PN25-40 flanges

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

402Z



CORROSIVE ENVIRONMENTAL OR CORROSIVE PRODUCTS

PRESSURE PFA/PS in bar θ 100°

CASING : bronze

Two undrilled bosses

SEAL : EPDM

CLOSING SYSTEM + GUIDING SYSTEM : bronze

APPROVALS : BUREAU VERITAS, CE PED 97/23/CE, ACS

with PN10 flanges

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

* Consult us

402X



CHEMISTRY, CORROSIVE PRODUCTS, HYDROCARBONS, INDUSTRY

PRESSURE PFA/PS in bar θ 140°

CASING : stainless steel

Two undrilled bosses

CLOSING SYSTEM + GUIDING SYSTEM : 304 stainless steel

SEAL : FKM

APPROVALS : BUREAU VERITAS, CE PED 97/23/CE

with PN10 flanges

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

* Consult us

422



CORROSION RESISTANT, PUMPING, WATER DISTRIBUTION, INDUSTRY

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 : BUREAU VERITAS, CE PED 97/23/CE, ACS

with PN10 flanges

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

402TTP



202TTP



INDUSTRIAL SERVICES, INDUSTRY

PRESSURE PFA/PS in bar θ 100°

CASING : GJL cast iron inside and outside PTFE coated

Two threaded bosses 1/4" sealed with plugs

SEAL : EPDM

CLOSING SYSTEM + GUIDING SYSTEM : GJL cast iron PTFE coated

APPROVALS : BUREAU VERITAS, CE PED 97/23/CE

with PN10 flanges

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

* Consult us

Other approvals available : kiwa

Consult us.

female/female

DN "	DN mm	PFA water	PS L1	PS L2	PS G1	PS G2	Cat	Ref.	UV	
2 1/2		16	16	16	15	16	I	149B 2850	1	
3		16	16	16	12	16	I	149B 2851	1	
4		16	16	16	10	16	I	149B 2852	1	

NON-RETURN

INDUSTRIAL SERVICES, HYDROCARBONS AND INDUSTRY

402V



202V



PRESSURE PFA/PS in bar — θ 100°
CASING : GJL cast iron epoxy coated
Two undrilled bosses
SEAL : FKM
CLOSING SYSTEM + GUIDING SYSTEM : same as valves type 402 and 202
APPROVALS : BUREAU VERITAS, CE PED 97/23/CE

with PN10 flanges

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

female/female

DN	PFA	PS				Cat	Ref.	U	
"	water	L1	L2	G1	G2			V	
2 1/2	16	16	16	15	16	I	149B 2356	1	
3	16	16	16	12	16	I	149B 2357	1	
4	16	16	16	10	16	I	149B 2358	1	

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION

412



212



TEL 0870 241 70 60

PRESSURE PFA/PS in bar — θ 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 : BUREAU VERITAS, VdS, CE PED 97/23/CE, ACS

with PN16 flanges

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

male/female

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

FOR SUBMERSIBLE PUMPS, WATER DISTRIBUTION, HIGH PRESSURE

412S



212S



PRESSURE 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 : BUREAU VERITAS, CE PED 97/23/CE, ACS

with PN40 flanges

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

male/female

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

TECHNICAL INFORMATION

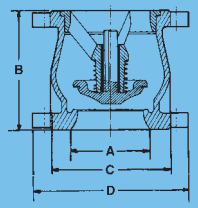
412

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

412 S

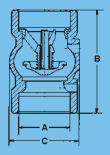
A		B	C	D	Kg	KV	ζ
"	mm	mm	mm	mm		m3/H	
5	125	201	190	270	20,0	357	3,0
6	150	220	212	300	27,5	476	3,5
8	200	280	266	375	49,2	607	6,8
10	250	345	324	450	95,0	1000	6,1
12	300	365	420	515	130,0	1452	6,0

Types 412- 412 S with flanges



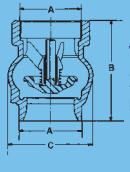
TECHNICAL INFORMATION

A		B	C	Kg	KV	ζ
"	mm	mm	mm		m3/H	
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



Types 202 - 202 TTP 202V female/female

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



Types 212 - 212 S male/female

Foot valves

PUMPING, CLEAR WATER

302



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 : BUREAU VERITAS CE PED 97/23/CE ACS

with PN10 flange

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

Stainless steel strainer version with PN10 flange

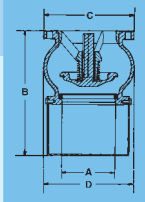
DN		PFA	PS				Cat	Ref.	U
"		water	L1	L2	G1	G2			V
2	50	16	16	16	x	x	3.3	149B 15094	1
2 1/2	65	16	16	16	x	x	3.3	149B 15001	1
3	80	16	16	16	x	x	3.3	149B 14999	1
4	100	16	16	16	x	x	3.3	149B 15428	1
5	125	10	10	10	x	x	3.3	149B 15002	1
6	150	10	10	10	x	x	3.3	149B 15424	1
8	200	10	10	10	x	x	3.3	149B 15036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

STRAINER : Stainless Steel 304L

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

APPROVALS : BUREAU VERITAS CE PED 97/23/CE ACS

TECHNICAL INFORMATION



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

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

PUMPING, CLEAR WATER

102



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

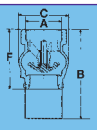
STRAINER : galvanised steel

APPROVAL : BUREAU VERITAS ACS

female

DN	PFA	PS				Cat	Ref.	U
"	water	L1	L2	G1	G2			V
2 1/4	16	16	16	x	x	3.3	149B 2766	1
2 1/2	16	16	16	x	x	3.3	149B 2767	1
3	16	16	16	x	x	3.3	149B 2768	1
4	16	16	16	x	x	3.3	149B 2769	1
5	16	16	16	x	x	3.3	149B 1162	1
6	16	13	16	x	x	3.3	149B 1163	1
7	16	10	16	x	x	3.3	149B 1164	1
8	16	10	16	x	x	3.3	149B 1165	1

TECHNICAL INFORMATION



Type 102 female (1)



Types 102P 102PV female (2)

A		B mm		C	F	Kg		KV	ζ
"	mm	(1)	(2)	mm	mm	(1)	(2)	m³/H	
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

PUMPING, CLEAR WATER

302P



102P



PRESSURE PFA/PS in bar — θ 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 : BUREAU VERITAS ACS

with PN10 flange

DN		PFA	PS				Cat	Ref.	U
"	mm	water	L1	L2	G1	G2			V
2	50	16	16	16	x	x	3.3	149B 2746	1
2 1/2	65	16	16	16	x	x	3.3	149B 2747	1
3	80	16	16	16	x	x	3.3	149B 2748	1
4	100	16	16	16	x	x	3.3	149B 2749	1

female

DN	PFA	PS				Cat	Ref.	U
"	water	L1	L2	G1	G2			V
2 1/4	16	16	16	x	x	3.3	149B 2758	1
2 1/2	16	16	16	x	x	3.3	149B 2759	1
3	16	16	16	x	x	3.3	149B 2760	1
4	16	16	16	x	x	3.3	149B 2761	1

Foot valves

PUMPING, HYDROCARBONS

302PV



PRESSURE PFA/PS in bar θ 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 : BUREAU VERITAS

with PN10 flange

DN		PFA	PS				Cat	Ref.	U	V
"	mm	water	L1	L2	G1	G2				
2	50	16	16	16	x	x	3.3	149B 2750	1	
2 1/2	65	16	16	16	x	x	3.3	149B 2751	1	
3	80	16	16	16	x	x	3.3	149B 2752	1	
4	100	16	16	16	x	x	3.3	149B 2753	1	

102PV



DN	PFA	PS				Cat	Ref.	U	V
"	water	L1	L2	G1	G2				
2 1/4	16	16	16	x	x	3.3	149B 2762	1	
2 1/2	16	16	16	x	x	3.3	149B 2763	1	
3	16	16	16	x	x	3.3	149B 2764	1	
4	16	16	16	x	x	3.3	149B 2765	1	

PUMPING, INDUSTRY, HYDROCARBONS

302V



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 : CE PED 97/23/CE

with PN10 flange

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

*Consult us

CLEAR WATER PUMPING

312



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
STEAL : EPDM
STRAINER : galvanised steel
APPROVALS : BUREAU VERITAS CE PED 97/23/CE ACS

with PN16 flange

DN		PFA	PS				Cat	Ref.	U	V
"	mm	water	L1	L2	G1	G2				
5	125	16	16	16	x	x	3.3	149B 2720	1	
6	150	16	13	16	x	x	3.3	149B 2721	1	
8	200	16	10	16	x	x	3.3	149B 2722	1	
10	250	16	10	16	x	x	I	149B 2723	1	
12	300	16	10	16	x	x	I	149B 2724	1	
14	350	16	10	16	x	x	I	149B 2725	1	
16	400	16	10	16	x	x	I	149B 2726	1	

CLEAR AND AGRESSIVE WATER PUMPING

322



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 : BUREAU VERITAS CE PED 97/23/CE ACS

with PN10 flange

DN		PFA	PS				Cat	Ref.	U	V
"	mm	water	L1	L2	G1	G2				
2	50	16	16	16	x	x	3.3	149B 2616	1	
2 1/2	65	16	16	16	x	x	3.3	149B 2617	1	
3	80	16	16	16	x	x	3.3	149B 2618	1	
4	100	16	16	16	x	x	3.3	149B 2619	1	
5	125	16	16	16	x	x	3.3	149B 2620	1	
6	150	16	13	16	x	x	3.3	149B 2621	1	
8	200	10	10	10	x	x	3.3	149B 2622	1	
10	250	10	10	10	x	x	I	149B 2623	1	
12	300	10	10	10	x	x	I	149B 2624	1	
14	350	10	10	10	x	x	I	149B 2625	1	
16	400	10	10	10	x	x	I	149B 2626	1	

PUMPING OF CORROSIVE MEDIUM INDUSTRIAL PROCESS, HYDROCARBONS

302X



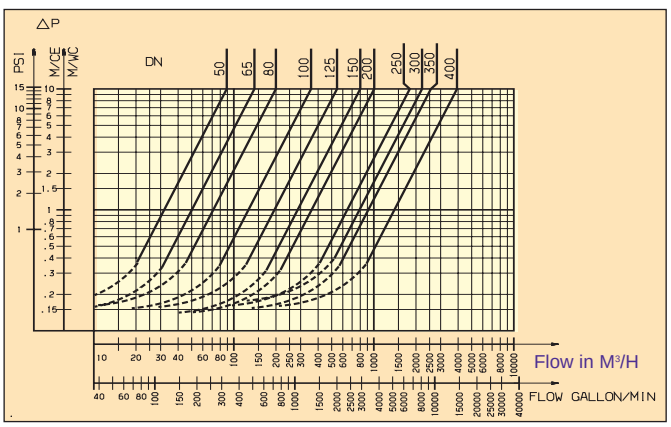
PRESSURE PFA/PS in bar θ 140°
CASING : stainless steel (304)
CLOSING SYSTEM + GUIDING SYSTEM : stainless steel (304)
SPRING : stainless steel
SEAL : FKM
STRAINER : stainless steel (304)
APPROVALS : BUREAU VERITAS CE PED 97/23/CE
OPTIONS : Also available on special request in stainless steel AISI 304L or 316 L

with PN10 flange

DN		PFA	PS				Cat	Ref.	U	V
"	mm	water	L1	L2	G1	G2				
2	50	16	16	16	x	x	3.3	149B 14714	1	
2 1/2	65	16	16	16	x	x	3.3	149B 14715	1	
3	80	16	16	16	x	x	3.3	149B 14716	1	
4	100	16	16	16	x	x	3.3	149B 14717	1	
5	125	16	16	16	x	x	3.3	149B 14718	1	
6	150	16	13	16	x	x	3.3	149B 14434	1	
8	200	10	10	10	x	x	3.3	149B 14719	1	
10	250	10	10	10	x	x	I	149B 14720	1	*
12	300	10	10	10	x	x	I	Special	1	*
14	350	10	10	10	x	x	I	Special	1	*
16	400	10	10	10	x	x	I	Special	1	*

*Consult us

HEADLOSS CHART TYPE 302



AGRESSIVE MEDIUMS PUMPING, SALTED SOLUTIONS, SEA WATER

302Z



PRESSURE PFA/PS in bar θ 80°
CASING : bronze
CLOSING SYSTEM : bronze
SPRING : stainless steel
SEAL : EPDM
STRAINER : PP (polypropylene)
APPROVALS : BUREAU VERITAS ACS

with PN10 flange

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

*Consult us