

PVGX-Plunger valve

FEATURES

- High strength ductile iron body used
- Design & Manufacturing according to EN 1074-1 / EN 1074-5 / EN 1349
- Face-to-face according to EN 558 S15 (F5)
- Flanges according to EN 1092-1/2 or ANSI B16.5 CL 150/300/600
- Class A tightness According to EN 12266
- From DN 80 to DN 150 Body in Stainless Steel
- From DN 200 to DN 1400 Body in Ductile Iron

PVGX- Plunger Valve is used as pressure control, flow rate control, safety valve, or dissipation of high hydrostatic pressure under high pressure difference. It can prevent cavitation issue in high flow rate or high differential pressure. Sizing of this valve is also important since the calculation can help to predict the cavitation and add certain kit to avoid cavitation.



Service Fields:

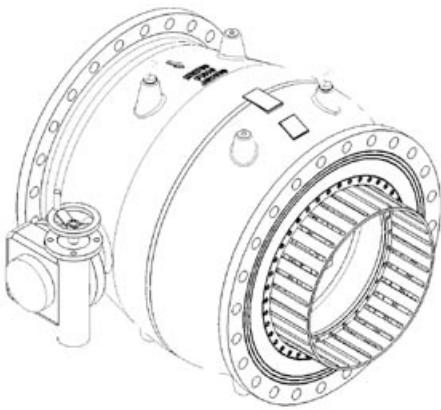
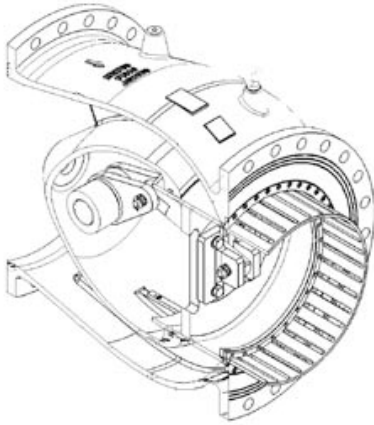
Mainly used for clean water as pressure, flow control or release water under dam.

Technical Data:

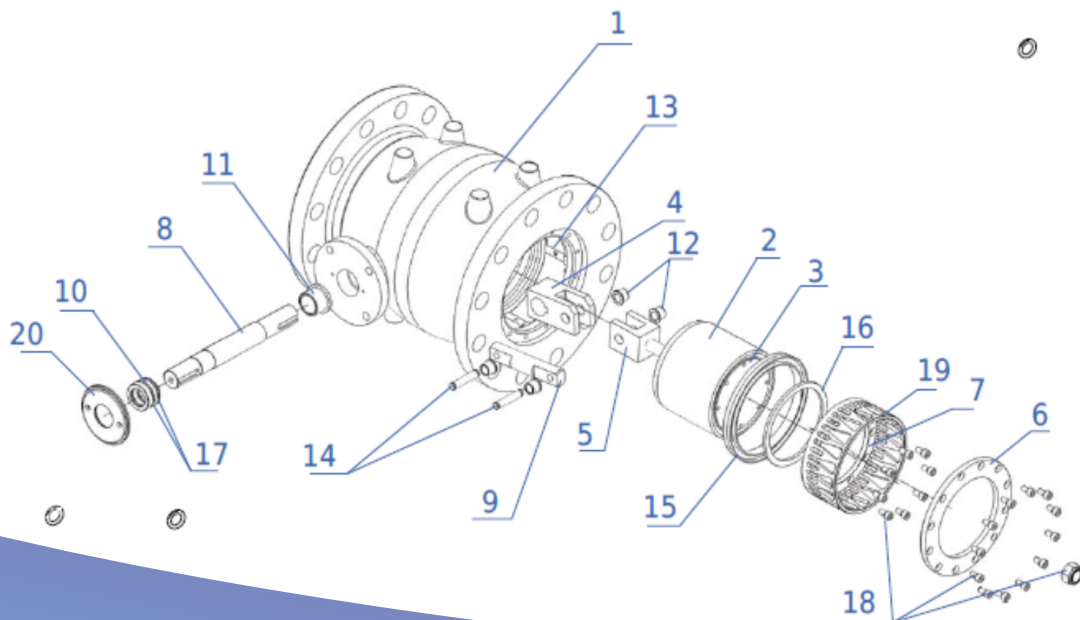
Size Range: DN50-1400mm
Pressure Ratings: 1.0Mpa; 1.6Mpa; 2.5Mpa.
Working Temperature: -10°C-80°C
Flow Media: Clean Water
End Connections: PN10, PN16, PN25.

Parts List

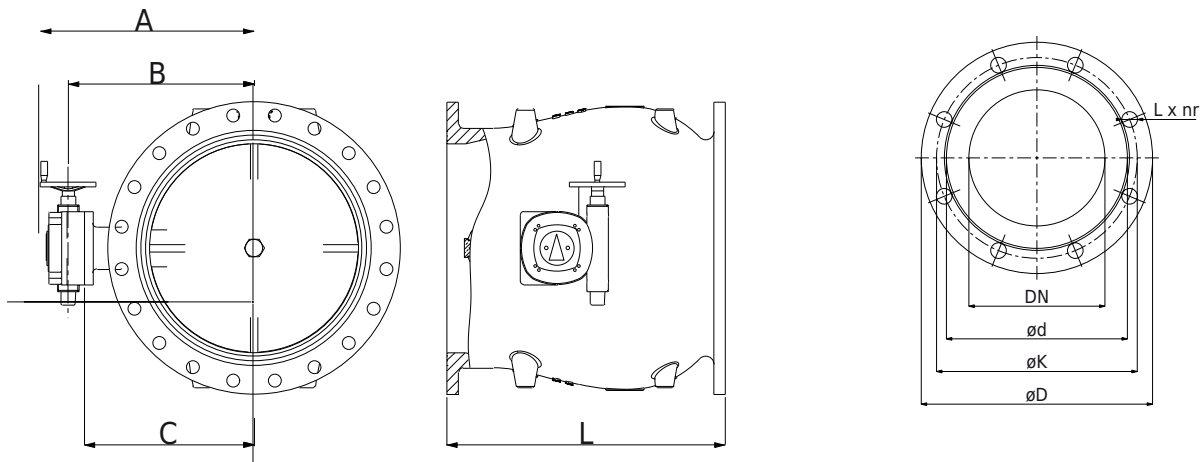
Needle Valve



No.	Description	Material	Standard
1	Body in ductile iron	ENGJS-500-7	EN1563
	Body in carbon steel	S235JR	EN10025-2
2	Obturator (ext sheel)in s.s	AISI304	EN10088-3
3	Obturator (int sheel)in s.s	AISI420B(DN80-500)	EN10088-3
4	Crank in s.s DN80-700	AISI420B(DN80-500)	EN10025
	Crank in carbon steel DN800-1400	C40(DN600-1400)	EN10088-3
5	Fork in carbon steel	CW614N(DN80-100)	EN12164
		AISI420B(DN150-600)	EN10088-3
		C40(DN700-1400)	EN10025
6	Seating ring in s.s	AISI304(X5CRNI18-10)	EN10088-3
7	Seal retaining ring in s.s	AISI304(X5CRNI18-10)	EN10088-3
8	Shaft in stainless steel	AISI420B(X20CR13)	EN10088-3
9	Piston rod in s.s	AISI420B(X20CR13)	EN10088-3
		AISI304(X5CRNI18-10)	EN10088-3
10	Outer bearing in bronze	G-cusn(cc483k)	EN1982
11	Inner bearing in bronze	G-cusn(cc483k)	EN1982
12	Bearing in bronze	G-cusn5zn5pb3	EN1982
13	Sliding guide en brass	Cuzn40pb2	EN12164
14	Connecting rods in s.s	AISI420B	EN1008
15	Lip seal	NBR(DN80-150)	EN681-1
		TPU95A(DN200-1400)	EN681-1
16	Main seal in polyurethane	TPU95A	EN681-1
17	O-ring	NBR	EN681-1
18	Bolt	AISI304	EN10088-3
19	Anti-cavitation kit	AISI304(X5CRNI18-10)	EN10088-3
20	Coupling Disc	AISI304(X5CRNI18-10)	EN10088-3



Dimension: PN10 DN80-1400



EN558					EN1092-2 PN10					PESI / WEIGHTS	
DN	L (S15)	A*	B*	C*	øD	øK	øL	nr	M	ød	Kg
80	260	280	180	125	200	160	19	8	M16	132	35
100	300	290	190	130	220	180	19	8	M16	156	45
125	300	290	190	130	250	210	19	8	M16	184	50
150	350	325	225	165	285	240	23	8	M20	211	75
200	400	365	265	205	340	295	23	8	M20	266	130
250	450	400	300	240	395	350	23	12	M20	319	150
300	500	430	330	270	445	400	23	12	M20	370	200
400	600	540	415	337	565	515	28	16	M24	480	410
500	700	630	505	422	670	620	28	20	M27	582	640
600	800	695	570	488	780	725	31	20	M27	682	780
700	900	790	630	550	895	840	31	24	M27	794	1020
800	1000	860	700	620	1015	950	34	24	M30	901	1320
900	1100	925	765	685	1115	1050	34	28	M30	1001	1770
1000	1200	1100	835	755	1230	1160	37	28	M33	1112	2200
1200	1400	1201	985	890	1455	1380	41	32	M36	1328	3385
1400	1600	1301	1085	990	1675	1590	44	36	M39	1530	4960

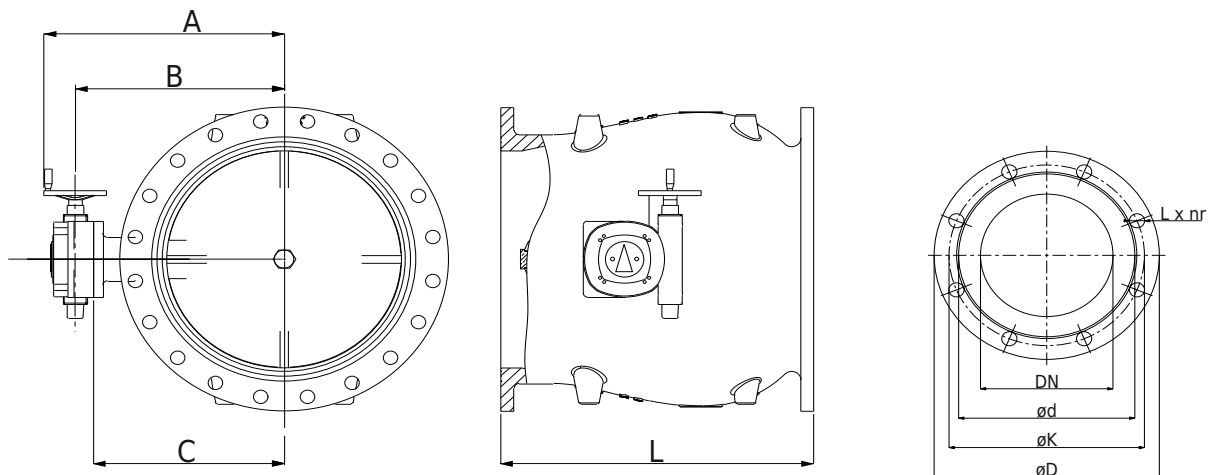
DIMENSIONI INDICATIVE / INDICATIVE DIMENSIONS

PN16

DN80-1400

FIG.801

Dimension:



EN558					EN1092-2 PN16				PESI / WEIGHTS		
DN	L (S15)	A*	B*	C*	øD	øK	øL	nr	M	ød	Kg
80	260	280	180	125	200	160	19	8	M16	132	35
100	300	290	190	130	220	180	19	8	M16	156	45
125	300	290	190	130	250	210	19	8	M16	184	50
150	350	325	225	165	285	240	23	8	M20	211	75
200	400	365	265	205	340	295	23	12	M20	266	130
250	450	400	300	240	405	355	28	12	M24	319	150
300	500	430	330	270	460	410	28	12	M24	370	200
400	600	540	415	337	580	525	31	16	M27	480	410
500	700	630	505	422	715	650	34	20	M30	609	640
600	800	695	570	488	840	770	37	20	M33	720	780
700	900	790	630	550	910	840	37	24	M33	794	1020
800	1000	860	700	620	1025	950	41	24	M36	901	1320
900	1100	925	765	685	1125	1050	41	28	M36	1001	1770
1000	1200	1100	835	755	1255	1170	44	28	M39	-	2200
1200	1400	1201	985	890	1485	1390	50	32	M45	1328	3385
1400	1600	1301	1085	990	1685	1590	50	36	M45	1530	4960
DIMENSIONI INDICATIVE / INDICATIVE DIMENSIONS											

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