



Semsan
PUMPS AND VALVES COMPANY

PUMP, VALVE AND DAM EQUIPMENT PRODUCT CATALOGUE



Since 1984, SEMSAN PUMP is main mechanical equipment and specific process pumps manufacturer for most important projects of Turkey. SEMSAN is most wanted company in Turkey market when SEMSAN PUMP established.

SEMSAN PUMP relocated in Samsun organized industrial zone at 2002 for growing marketing requests.

SEMSAN PUMP has 5000m2 work field in Samsun Industrial zone. Our company has 2x2000 kg. + 2x750 kg. Inductotherm brand twin induction furnaces. We can offer our brands manufacturing and high-tech forming and induction equipment's we can produce stainless steel and ductile products.

SEMSAN PUMP has TSE certificates on all products and all processes have to obey TSE ISO 9001:2008, TSE-EN-ISO 14001, İSG-OHSAS TS18001 quality management.

SEMSAN PUMP also has European CE Declaration of conformity for pumps and valves.

SEMSAN PUMP has innovative perspective, daily gaining new features on our company. Also SEMSAN PUMP check updates and newest products in the marketing world wide and keeps updating and upgrading self.

CERTIFICATION

- K-Q TSE ISO EN 9000 QUALITY MANAGEMENT SYSTEM
- TSE İSG-OHSAS TS 18001 HEALTH AND SAFETY MANAGEMENT SYSTEM
- Ç-E TSE-ISO-EN 14000 ENVIROMENTAL MANAGEMENT SYSTEM
- TS EN 593 BUTTERFLY VALVE
- TS EN 12334 CHECK VALVE
- TS 12599 SUBMERSIBLE SEWAGE PUMP
- TSE K 461 DISMANTLIG JOINT
- 97/23/EC PRESSURE EQUIPMENT CASTING CERTIFICATE
- CE DECLARATION OF CONFORMITY ABOUT PUMPS
- TS 12873 SERVICE QUALIFICATION CERTIFICATE - PUMPS
- TS 12844 SERVICE QUALIFICATION CERTIFICATE - VALVE
- WRAS - COATING AND EPDM SEALING SUITABLE FOR DRINKING WATER



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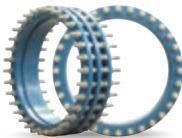
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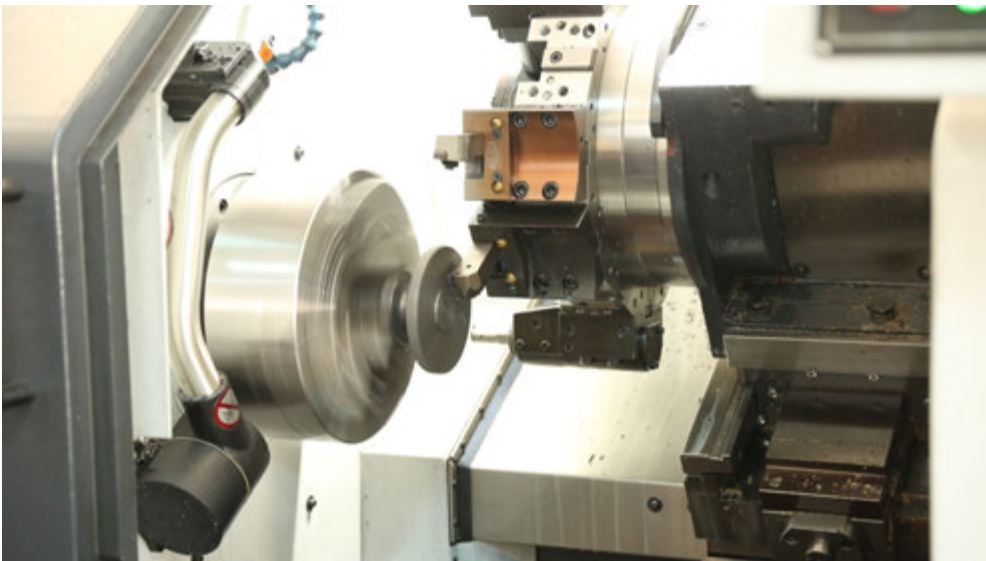
37
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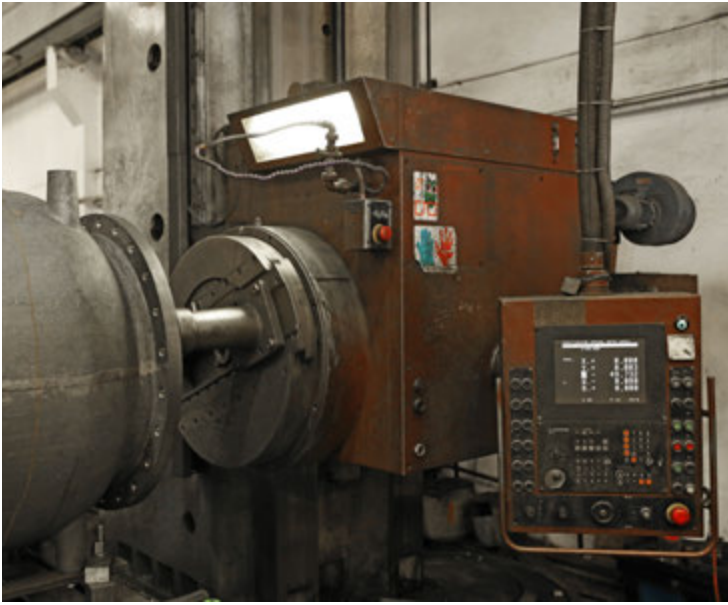


40
SUBMERSIBLE SEWAGE
PUMP

MANUFACTURING

- FOUNDRY; 2x2000 kg + 2x750 kg Inductotherm Induction Furnace
- CNC Machining Department
- Electrostatic Epoxy Coating Line
- Double Compound Wet Epoxy Line
- Quality Control
- Material Laboratory: Spectrometer, Tensile Strength Test Machine, Microstructure Analysis Microscope, Hardness Tests
- Hydrostatic Pressure Tests for EN 12266 -1,2
- Pump Performance Tests for ISO 9906
- Material Certification for EN 10204 3.1
- Coating Thickness, Pull of and Spark Test
- Surface Roughness Tests







Semsan
POMPA MAKİNA SANAYİ VE TİC. LTD. ŞTİ.



**MONTAJ
HATTI**







ADVANTAGES

- Compact Design (EN 558-1 Series 14)
- Low Operation Torque for Bigger Diameters with Double Eccentric
- Low maintenance cost
- Leakage Tests, EN 12266 Class A (completely tightness)

DESIGN

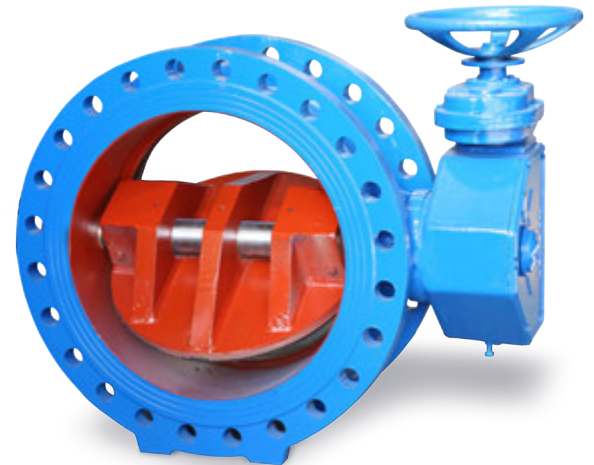
- TS EN 593 Certificated
- Double Flange
- Double Eccentric
- Flanges DIN EN 1092 PN 10 – PN40
- Valve Shaft Double Offset
- Face to Face EN 558-1 Series 14 (DIN 3202, F4) (Short Pattern is Optional)
- Mechanical Position Indicator and Limit stops on Gear Box
- Body Sealing Surface;
- Corrosion - Resistant Stainless Welded AISI 316 and Microfinished.
- Adjustable and Replaceable Sealing Ring
- EN 12516 – 1 Steel Welded Design (Optional)
- Max Operation Temperature 50 °C (120 °C Optional)

APPLICATION AREAS

- Drinking Water Lines
- Drinking Water Treatment Plants
- Waste Water Treatment Plants
- Pumping Stations
- Irrigation Projects
- Dams and Reservoirs
- Neutral Gas and Cool Power Plants
- Hydroelectric Power Plants
- Industrial Plants

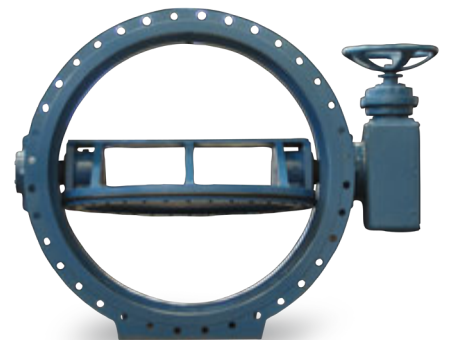
OPERATION

- Handwheel
- Electrical Actuator
- Pneumatic Actuator
- Hydraulic Actuator
- On – Off or Modulating Operation



CORROSION PROTECTION

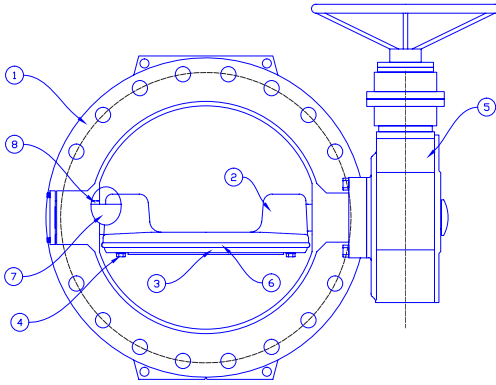
- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater



LAST QUALITY CONTROL EN 12266 – 1 CLASS A

Nominal Diameter (DN)	Nominal Pressure PN kg / cm2	Test Pressure		Max Pressure for Temperature 50 °C
		Body	Disk	
100.....2800	10	15	11	10
100.....2800	16	24	18	16
100.....2800	25	37,5	27,5	25
100.....2800	40	60	44	40

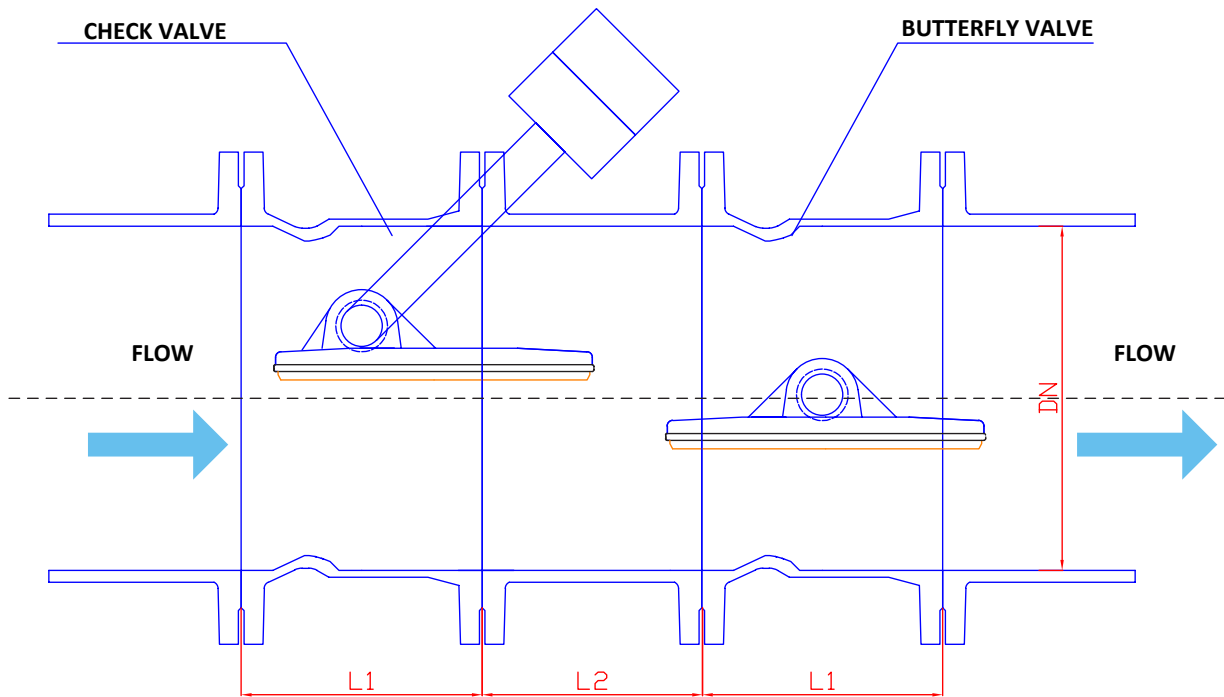
* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.



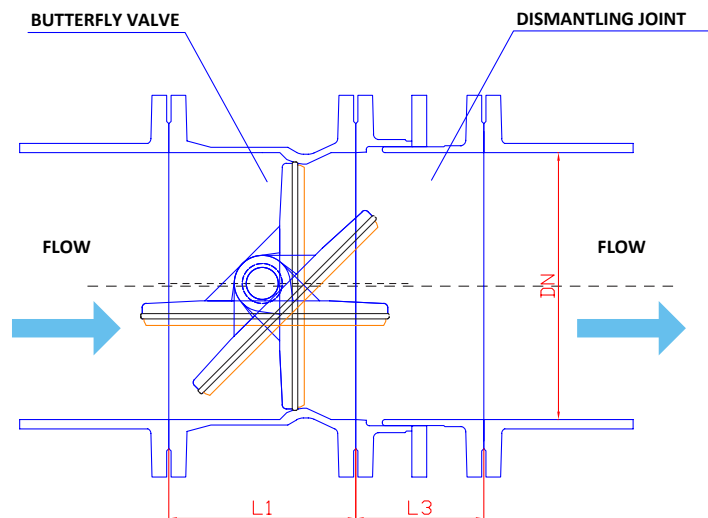
PART LIST

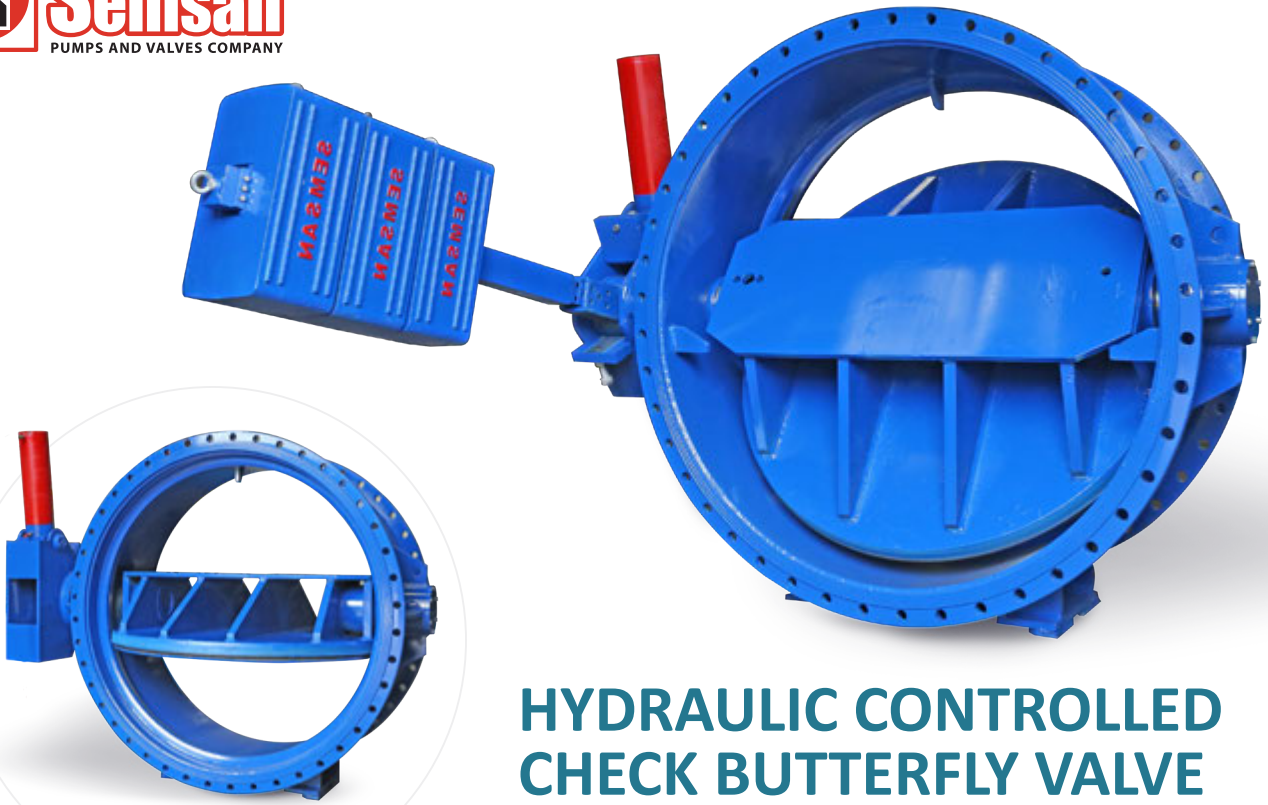
No	Part Name	Material		
1	Body	GGG 40 / 50	ST 37 / ST 52	Stainless Steel
2	Disc	GGG 40 / 50	ST 37 / ST 52	Stainless Steel
3	Sealing Ring Flange	GGG 40 / 50	ST 37 / ST 52	Stainless Steel
4	Bolts and Nuts	A2 Stainless Steel		
5	Gear Box	GGG 40		
6	Sealing Ring	EPDM		
7	Valve Shaft	AISI 420 (X20Cr13)		
8	Bearing	Bronze	Delrin	PTFE
9	Body Seat	AISI 316 Stainless Steel Welded		

BUTTERFLY VALVE ASSEMBLY DRAWING



DN	L1 (mm)	L2 (mm)	L3 (mm)
150	210	150	200
200	230	150	220
250	250	150	220
300	270	150	220
350	290	225	230
400	310	225	230
450	330	300	250
500	350	300	260
600	390	400	260
700	430	500	260
800	470	600	290
900	510	650	290
1000	550	750	290
1100	590	800	300
1200	630	900	320
1300	670	1000	340
1400	710	1100	360





HYDRAULIC CONTROLLED CHECK BUTTERFLY VALVE (TURBINE INLET VALVE)

DN 250/2800 | PN 10 / 16 / 25 / 40

DESIGN

- TS EN 593 Certificated
- Double Flange
- Double Eccentric
- Flanges DIN EN 1092
- Valve Shaft Double Offset
- PN 10 – PN40
- Face to Face EN 558-1 Series 14 (DIN 3202, F4) (Short Pattern is Optional)
- Mechanical Position Indicator and Limit Stops on Gear Box
- Body Sealing Surface; Corrosion - Resistant Stainless Welded AISI 316 and Microfinished.
- Adjustable and Replaceable Sealing Ring
- EN 12516 – 1 Steel Welded Design (Optional)
- Max Operation Temperature 50 °C

APPLICATION AREAS

- Turbine Inlet Valves in Hydroelectric Power Plants
- Emergency Shut Off Valves in Dams and Reservoirs
- Check Butterfly Valves for Pumping Stations

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinc – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater

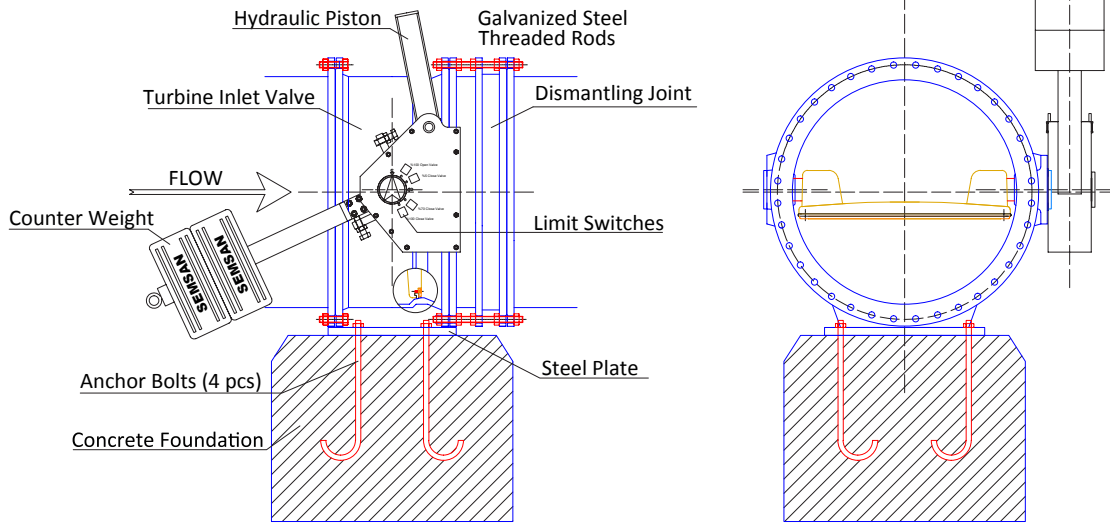
ADVANTAGES

- Opening and Closing With Hydraulic Piston
- Closing With Counter Weight
- High Security Coefficient
- Suddenly Shut-Off for Emergency
- Additional Limit Switch for Hydraulic Leakages
- Two Different Operation Adjust Valve

LAST QUALITY CONTROL EN 12266 – 1 CLASS A

Nominal Diameter (DN)	Nominal Pressure PN kg / cm ²	Test Pressure		Max Pressure for Temperature 50 °C
		Body	Disk	
250.....2800	10	15	11	10
250.....2800	16	24	18	16
250.....2800	25	37,5	27,5	25
250.....2800	40	60	44	40

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

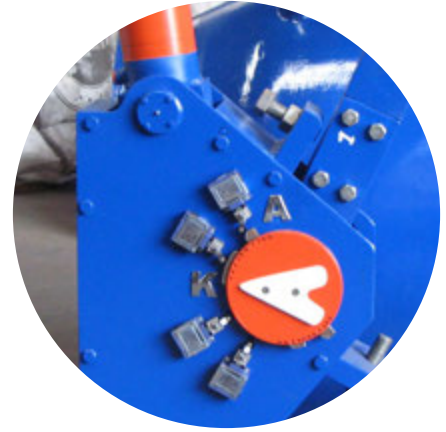


OPERATING PRINCIPLES

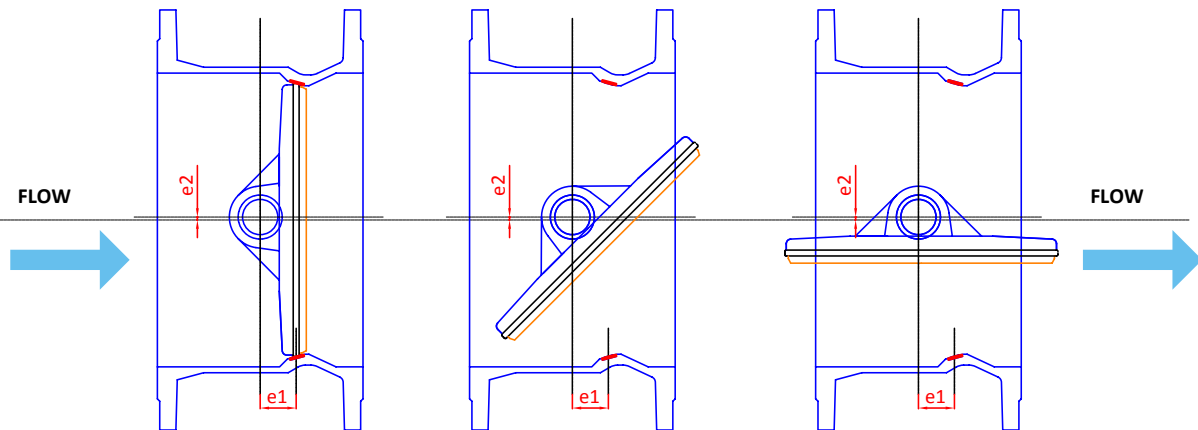
Check-Butterfly valve; It is the valve closed by weight fastened to valve shaft and opened by hydraulic pump. Oil pressure disappearing in hydraulic cylinder of the valve opened by hydraulic pump will be supported by accumulator having a diaphragm in the volume of 2,0 L, since S1 and S2 solenoid valves are closed. If cylinder pressure falls down from adjusted pressure, hydraulic pump will operate and increase system pressure. If adjustable pressure shifter doesn't operate, valve will start to close. When it is closed at the rate of 5 %, limit switch on the valve box cover will be closed, pump will operate, increase the system pressure and valve will come into the position of full open.

If close order comes to the valve because of extreme speed and low pressure, it sends 24 V current to the coil of S1 solenoid valve on hydraulic power unit. by opening of S1 solenoid valve, valve starts to close, it completes with high speed the closing ratio of 70 % and with low speed the remaining closing ratio of 30 %.

Valve closing at the ratio of 70 % closes limit switch on the valve box cover, sends 24 V DC current to the coil of S2 solenoid valve on the power unit. Solenoid valve operates and slowly closes 30 % of valve. There are 4 pieces limit switch on the valve box cover

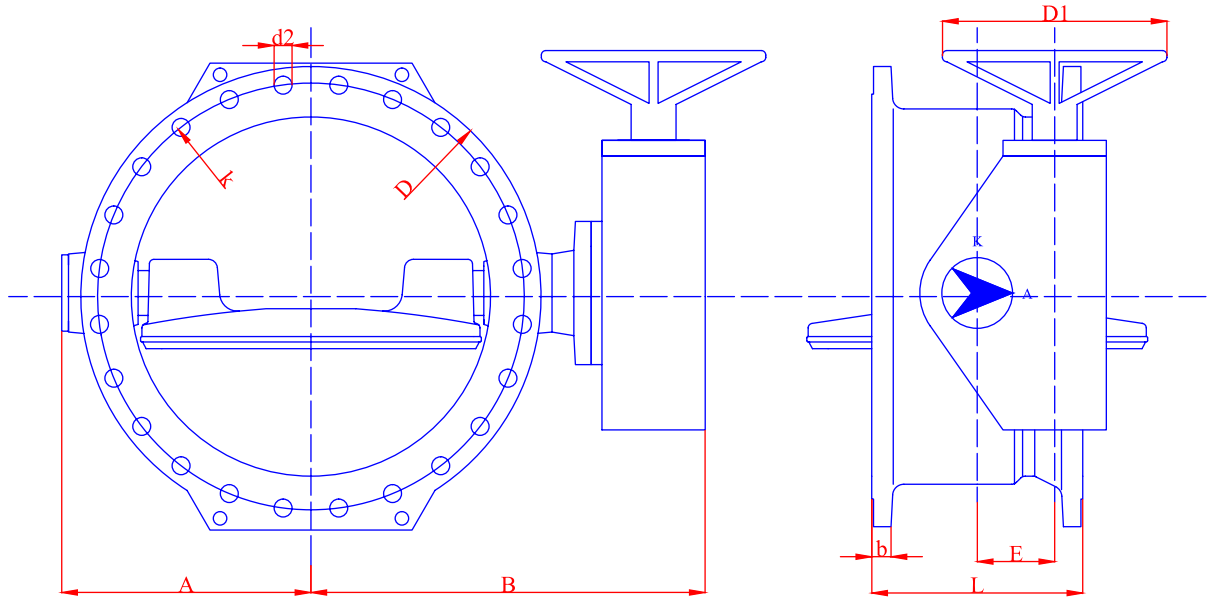


DOUBLE ECCENTRIC DOUBLE FLANGED BUTTERFLY VALVE



e1: Difference of Sealing Ring Seat Axis – Shaft Axis (For perfect contact of sealing ring to seat surface at flow direction)

e2: Difference of Disc Axis – Valve Axis (For low operation torque at opening direction)



PN10	BODY			FLANGES					GEAR BOX			WEIGHT (KG)
(DN)	A (mm)	B (mm)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque	
150	115	279	210	285	240	23	19	8	DK 60	21	40 Nm	30
200	150	308	230	340	295	23	20	8	DK 60	21	50 Nm	44
250	180	351	250	400	350	23	22	12	DK 85	31	50 Nm	60
300	215	401	270	455	400	23	24,5	12	DK 85	31	80 Nm	81
350	240	411	290	505	460	23	24,5	16	DK 110	23	85 Nm	110
400	261	465	310	565	515	28	24,5	16	DK 110	23	90 Nm	155
450	306	508	330	615	565	28	24,5	20	DK 125	23	90 Nm	190
500	345	339	350	670	620	28	26,5	20	DK 125	23	100 Nm	240
600	392	625	390	780	725	31	30	20	DK 125	23	105 Nm	320
700	462	722	430	895	840	31	32,5	24	DK 160/3	70	95 Nm	470
800	512	772	470	1015	950	34	35	24	DK 160/3	70	100 Nm	620
900	576	880	510	1115	1050	34	37,5	28	DK 160/3	70	105 Nm	800
1000	642	900	550	1230	1160	37	40	28	DK 200/9	225	95 Nm	1050
1100	692	968	590	1340	1270	37	40	32	DK 200/9	225	100 Nm	1390
1200	763	1104	630	1455	1380	40	45	32	DK 200/9	225	105 Nm	1740
1300	830	1235	670	1570	1490	43	45	32	DK 370/9	262	175 Nm	2260
1400	880	1285	710	1675	1590	43	46	36	DK 370/9	262	200 Nm	2545
1500	970	1290	750	1785	1700	43	46	36	PLEASE ASK			
1600	995	1386	790	1915	1820	49	49	40				
1800	1140	1460	870	2115	2020	49	52	44				

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PN16	BODY			FLANGES					GEAR BOX			WEIGHT (KG)
(DN)	A (mm)	B (mm)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque	
150	115	279	210	285	240	23	19	8	DK 60	21	PLEASE ASK	30
200	150	308	230	340	295	23	20	12	DK 60	21		44
250	180	351	250	400	355	28	22	12	DK 85	31		60
300	215	401	370	455	410	28	24,5	12	DK 85	31		85
350	240	440	290	520	470	28	26,5	16	DK 110	23		116
400	275	463	310	580	525	31	28	16	DK 125	23		115
450	306	508	330	640	585	31	28	20	DK 125	23		237
500	357	583	350	715	650	34	31,5	20	DK 125	23		300
600	413	673	390	840	770	37	36	20	DK 160/3	69		460
700	470	736	430	910	840	37	39,5	24	DK 160/9	207		670
800	537	822	470	1025	950	40	43	24	DK 200/3	75		775
900	615	935	510	1125	1050	40	46,5	28	DK 200/3	75		970
1000	666	985	550	1255	1170	43	50	28	DK 200/9	225		1320
1200	784	1154	630	1485	1390	49	57	32	DK 370/9	262		2090
1400	915	1235	710	1685	1590	49	60	36	DK 370/9	262		2945
1500	1000	1315	750	1820	1710	56	60	36	PLEASE ASK			
1600	1045	1415	790	1930	1820	56	65	40				
1800	1170	1725	870	2130	2020	56	70	44				

PN25	BODY			FLANGES					GEAR BOX			WEIGHT (KG)	
(DN)	A (mm)	B (mm)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque		
150	115	277	210	300	250	28	20	8	DK 85	31	PLEASE ASK	32	
200	150	308	230	360	310	28	22	12	DK 85	31		50	
250	180	351	250	425	370	31	24,5	12	DK 110	23		67	
300	215	419	270	485	430	31	27,5	16	DK 110	23		103	
350	240	450	290	555	490	34	30	16	DK 125	23		133	
400	275	485	310	620	550	37	32	16	DK 160	23		174	
450	312	555	330	670	600	37	34,5	20	DK 160	23		280	
500	377	636	350	730	660	37	36,5	20	DK 160/3	69		380	
600	425	679	390	845	770	40	42	20	DK 160/9	207		490	
700	490	755	430	960	875	43	46,5	24	DK 200/9	225		760	
800	571	894	470	1085	990	49	51	24	DK 200/9	225		800	
900	612	954	510	1185	1090	49	59,5	28	DK 200/9	225		1250	
1000	681	1051	550	1320	1210	56	60	28	DK 370/9	262		1685	
1200	813	1175	630	1530	1420	56	74	32	PLEASE ASK				
1400	930	1413	710	1755	1640	62	76	36					
1600	1042	1517	790	1975	1860	62	84	40					
1800	1194	1618	870	2195	2070	70	90	44					

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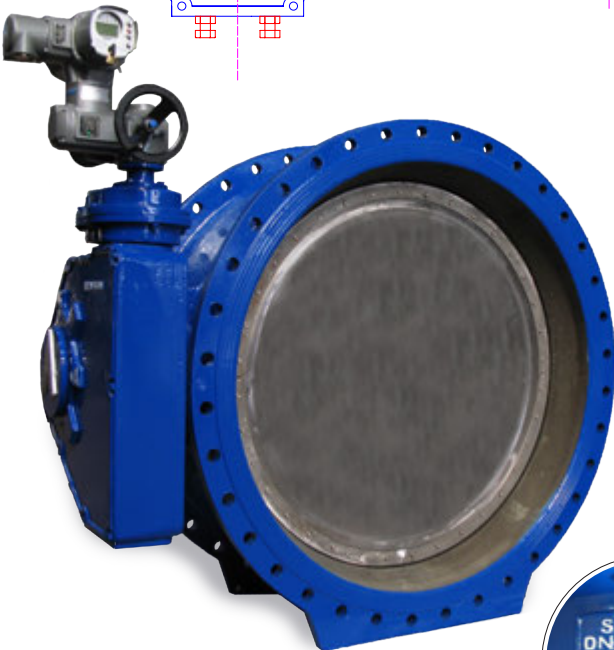
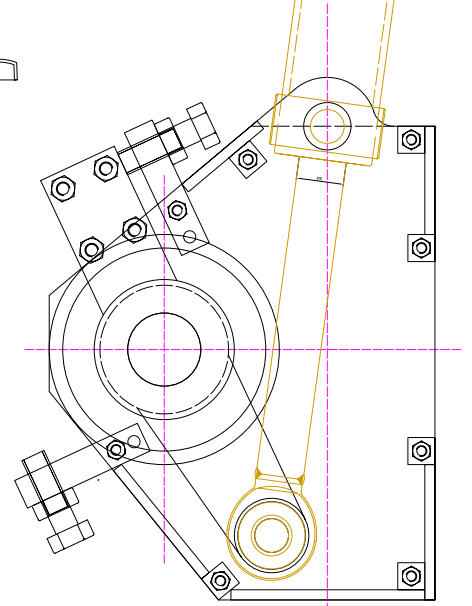
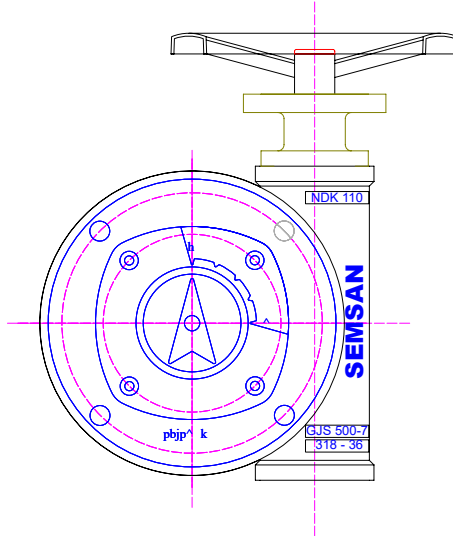
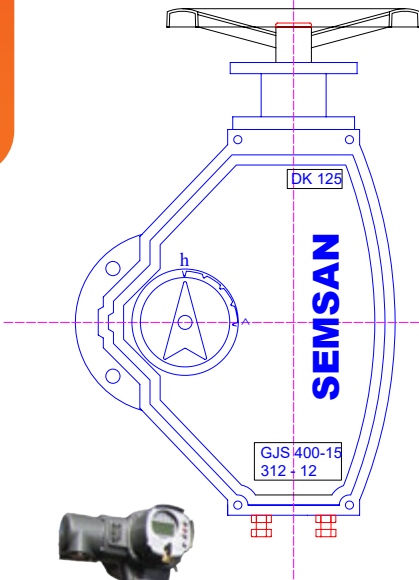
CONTROL TYPES - HYDRAULIC / PNEUMATIC / ELECTRICAL / HANDWHEEL



HYDRAULIC



PNEUMATIC

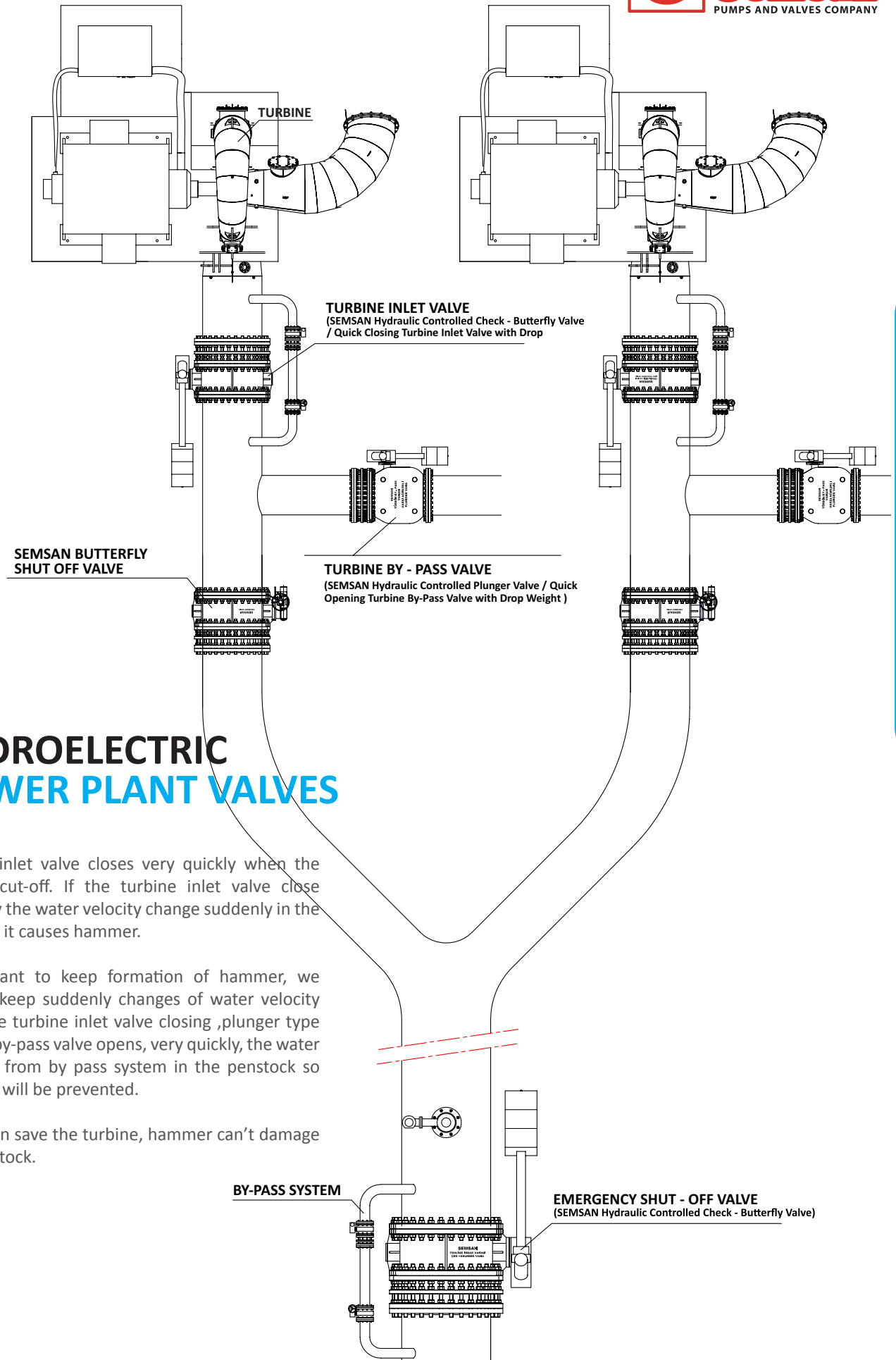


ELECTRICAL



HANDWHEEL





HYDROELECTRIC POWER PLANT VALVES

Turbine inlet valve closes very quickly when the turbine cut-off. If the turbine inlet valve close suddenly the water velocity change suddenly in the pipe and it causes hammer.

If we want to keep formation of hammer, we have to keep suddenly changes of water velocity when the turbine inlet valve closing ,plunger type turbine by-pass valve opens, very quickly, the water released from by pass system in the penstock so hammer will be prevented.

So we can save the turbine, hammer can't damage the penstock.

PLUNGER VALVES

DN 150/1400 | PN 10/ 16/ 25/ 40/ 64

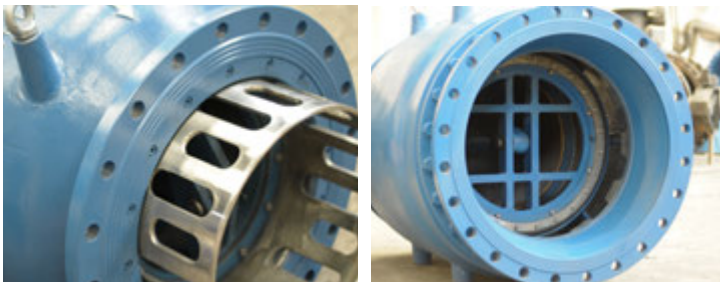


ADVANTAGES

- Pressure, flow rate and water level control valve
- Low operation torques on high pressure differences
- High safety coefficient design
- Linear regulation capability
- Suitable for modulating operation
- Low cavitation risk
- Metal seating, additional EPDM seal ring
- Special outlet design for project.
- Operation types for application areas
- Low maintenance cost

APPLICATION AREAS

- Open – Close valve for high pressure and flow velocity
- Pump Control Valve
- Water Level Control Valve
- Bottom Outlet Valve
- Turbine Inlet and Turbine By – Pass Valve
- Pressure Control Valve for Drinking Water
- Flow Rate Regulation Valve
- Pressure Control for Irrigation Projects



DESIGN

- TS EN 593 Certificated
- PN10 – PN64
- Double Flange
- Face to Face EN 558 – 1 Series 15 (up to DN500 1,5 x DN)
- Open Close and Control Valve
- Axial Movement for Plunger
- Rotationally Symetric Flow
- Metal seating, additional EPDM seal ring
- Adjustable and Replaceable Sealing Ring
- Mechanical position indicator and limit stops on gear box
- Max Operation Temperature 50°C
- Movement Parts are Stainless Steel

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinc – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater

OPERATION

- Handwheel
- Electrical Actuator
- Pneumatic Actuator
- Hydraulic Actuator
- On-off or Modulating Operation

TURBINE BY-PASS VALVE PLUNGER VALVE WITH HYDRAULIC

DN 150/1400 | PN 10/ 16/ 25/ 40/ 64



TURBINE BY-PASS VALVE

DESIGN

- Flanges DIN EN 1092
- Open – close and control valve
- Circle section symmetrical flow
- Moving linear plunger
- Metal sealing, and EPDM sealing ring
- V-port for high pressure difference
- Maximum working temperature 50 °C

CONTROL

- Counterweight and hydraulic pistons help closing very fast with the provide of hydraulic piston will be closed

OPTIONAL

- Electrical actuator
- Handwheel
- DN > 1400

APPLICATION

When the turbine inlet valve closed it is using for bypass the water in penstock and save from hammer and high pressure

MATERIAL

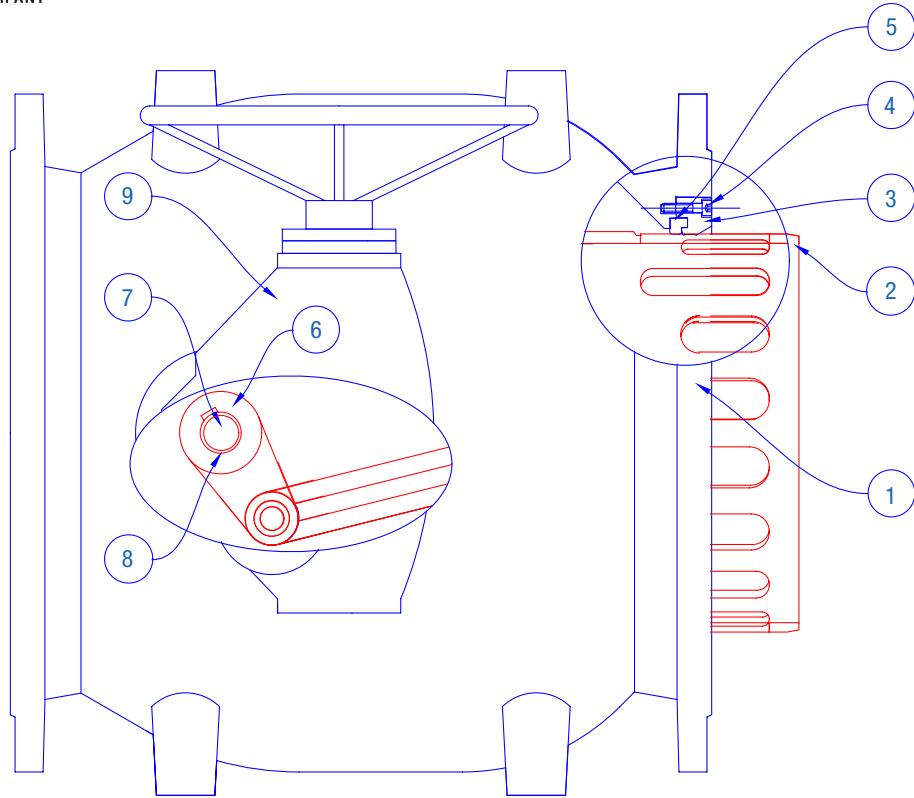
- Body is ductile iron casting (GGG-40/50)
- Moving internal parts stainless steel AISI 304
- Valve shaft is stainless steel AISI 420
- Bearing is bronze
- Plunger seal ring EPDM



LAST QUALITY CONTROL EN 12266 – 1 CLASS A

Nominal Diameter (DN)	Nominal Pressure PN kg / cm2	Test Pressure		Max Pressure for Temperature 50 °C
		Body	Disk	
150.....1400	10	15	15	10
150.....1400	16	24	24	16
150.....1400	25	37,5	27,5	25
150.....1400	40	60	44	40
150.....1400	64	96	71	64

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

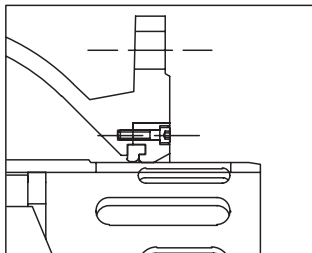


PART LIST

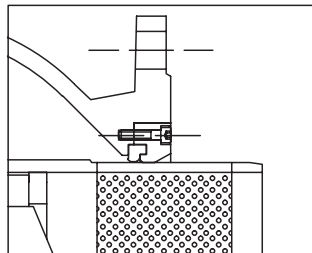


NO	Part Name	Material	
1	Body	GJS 400-15 / GJS 500-7	Stainless Steel
2	Piston (Plunger)	Stainless Steel	
3	Sealing Ring Flange	Stainless Steel	
4	Bolts and Nuts	Stainless Steel	
5	Sealing Ring	EPDM + Metal Sealing	
6	Crank Mechanism	Stainless Steel	
7	Valvre Shaft	AISI 420 (X20Cr13) Stainless Steel	
8	Bearing	GBzSn (Bronze)	
9	Gear Boxes	GJS 400-15 / GJS 500-7	

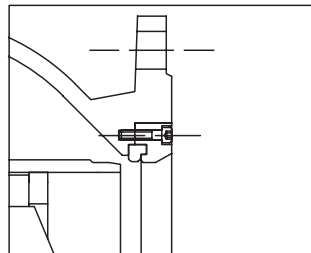
VERSIONS



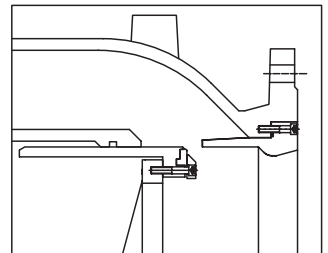
SLOTTED
CYLINDER



PERFORATED
CYLINDER

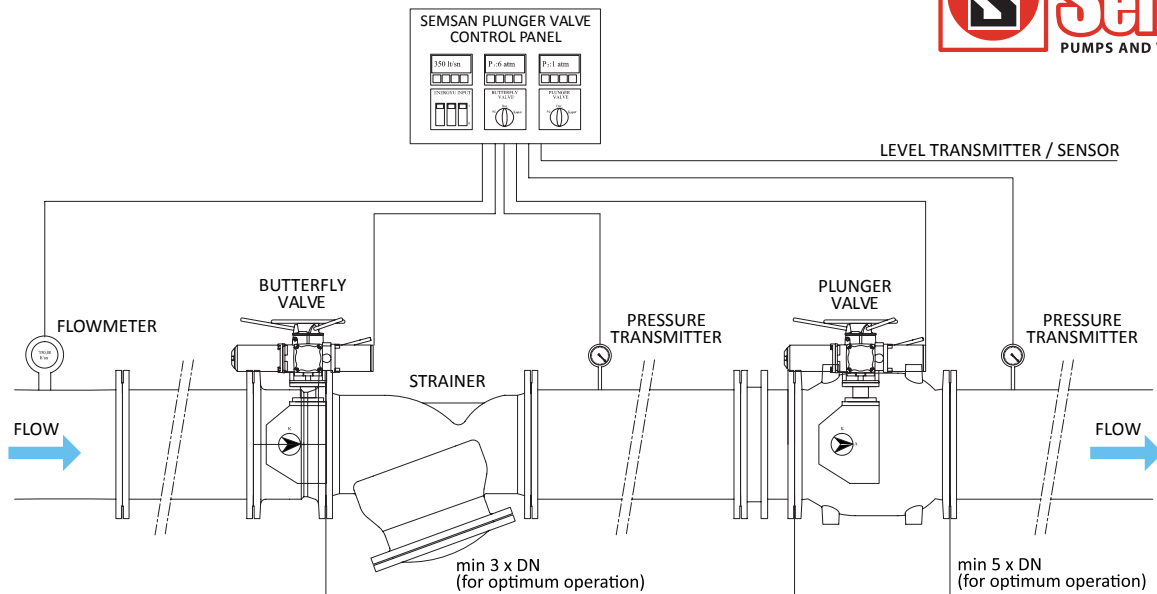


SEAT RING

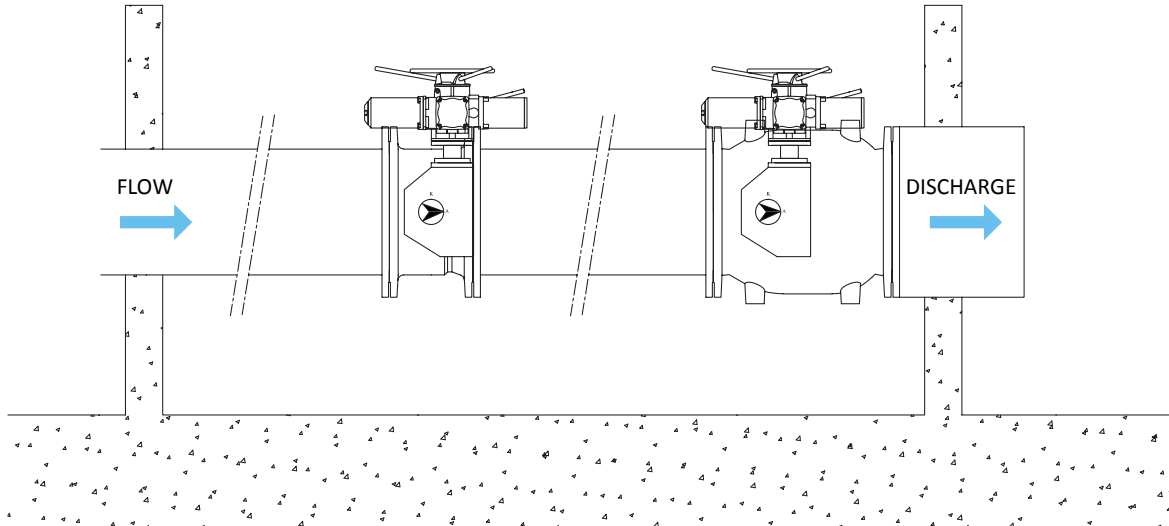


V-PORT

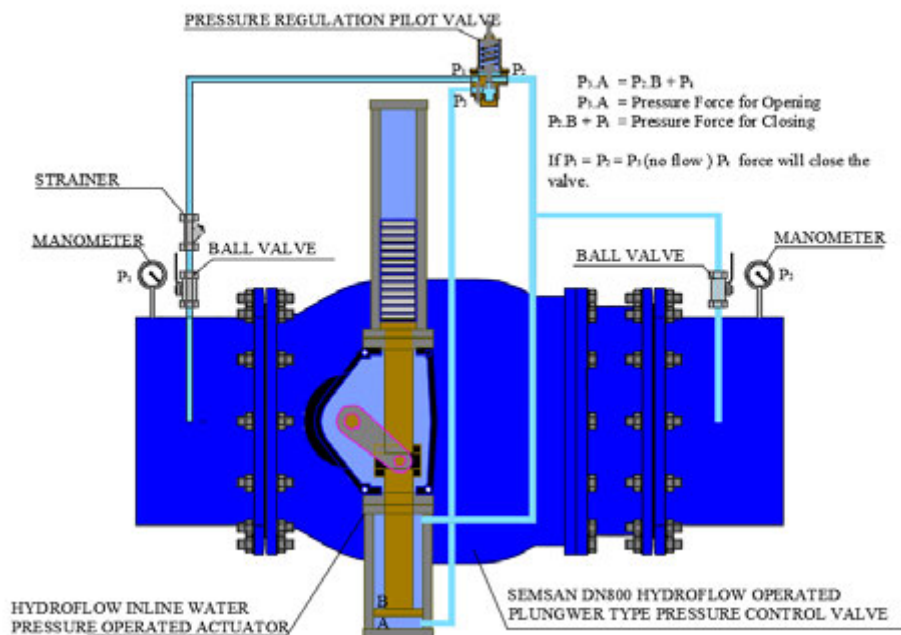
INLINE REGULATION VALVE



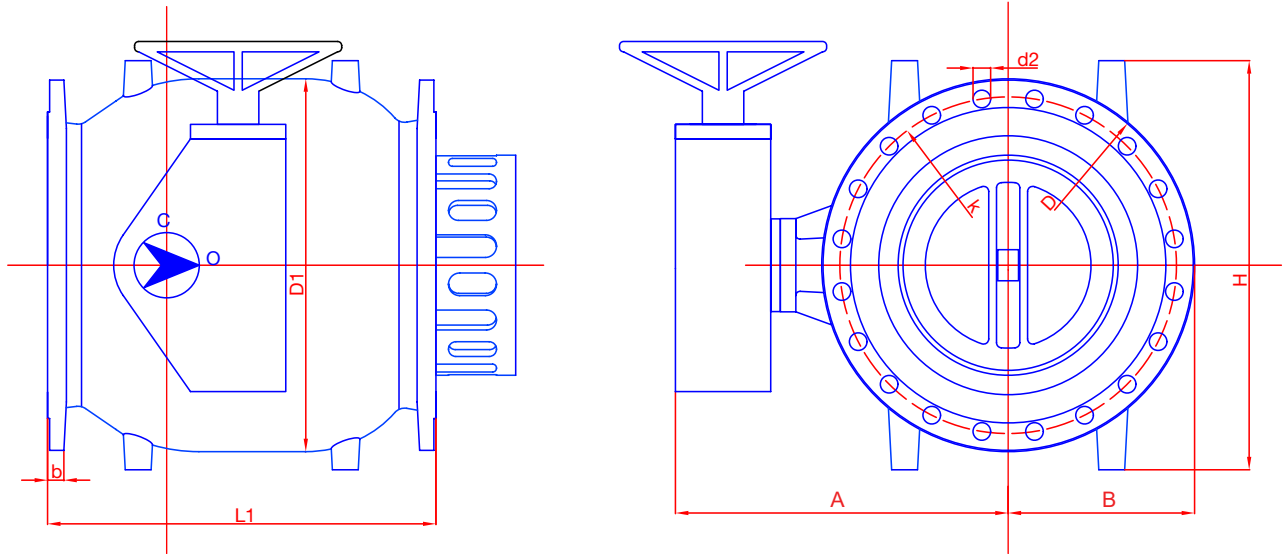
BOTTOM OUTLET DISCHARGE VALVE



INLINE HYDROFLOW PLUNGER VALVE (WORKING WITH LINE PRESSURE)



PLUNGER VALVE DIMENSION TABLE



PN10	BODY			FLANGES					GEAR BOX			WEIGHT (KG)
(DN)	A (mm)	B (mm)	L1 (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque	
150	283	143	350	285	240	23	19	8	M60	21	25	80
200	315	170	400	340	295	23	20	5	M60	21	30	115
250	375	200	450	400	350	23	22	12	M85	31	30	155
300	455	228	500	455	400	23	24,5	12	M85	31	35	190
400	535	290	600	565	515	28	24,5	16	M110	23	40	335
500	602	360	750	670	620	28	26,5	20	M110	23	50	590
600	660	435	900	780	725	31	30	20	M125	23	70	1030
700	720	515	1050	895	840	31	32,5	24	M160	23	80	1620
800	770	565	1200	1015	950	34	35	24	M160/3	70	80	2050
900	830	630	1350	1115	1050	34	37,5	28	M160/3	70	90	2750
1000	915	695	1500	1230	1160	37	40	28	M200/3	75	100	4000
1200	1070	825	1800	1455	1380	40	45	32	M200/3	225	105	5300

PN16	BODY			FLANGES					GEAR BOX			WEIGHT (KG)
(DN)	A (mm)	B (mm)	L1 (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque	
150	283	143	350	285	240	23	19	8	M60	21	25	80
200	315	170	400	340	295	23	20	5	M60	21	30	115
250	375	200	450	400	355	23	22	12	M85	31	30	155
300	455	228	500	455	410	23	24,5	12	M85	31	35	190
400	535	290	600	580	525	28	24,5	16	M110	23	40	335
500	602	360	750	715	650	28	26,5	20	M110	23	50	590
600	660	435	900	840	770	31	30	20	M125	23	70	1030
700	720	515	1050	910	840	31	32,5	24	M160	23	80	1620
800	770	565	1200	1025	950	34	35	24	M160/3	70	80	2050
900	830	630	1350	1125	1050	34	37,5	28	M160/3	70	90	2750
1000	915	695	1500	1255	1170	37	40	28	M200/3	75	100	4000
1200	1070	825	1800	1485	1390	40	45	32	M200/3	225	105	5300

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

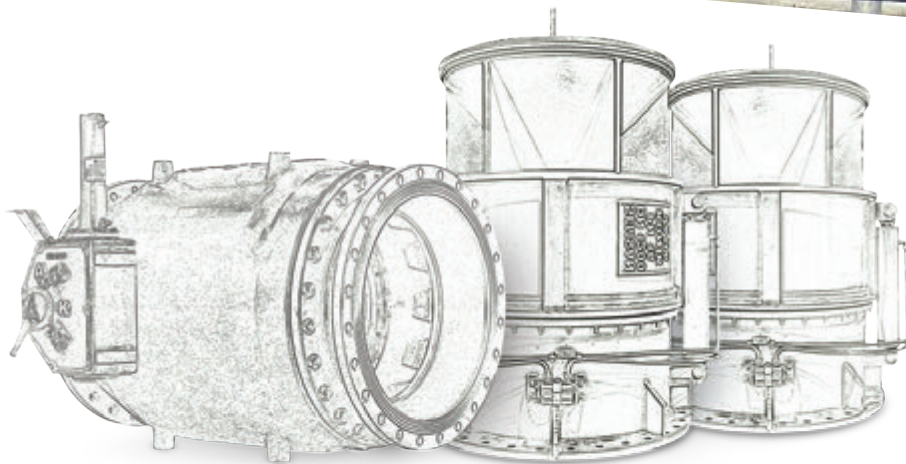
PN25	BODY			FLANGES					GEAR BOX			WEIGHT (KG)
(DN)	A (mm)	B (mm)	L1 (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	Model	Turn/ Strok	Torque	
150	283	143	350	300	250	28	20	8	PLEASE ASK			80
200	315	170	400	360	310	28	22	12				115
250	375	200	450	425	370	31	24,5	12				165
300	455	228	500	485	430	31	27,5	16				200
400	535	290	600	620	550	37	32	16				370
500	602	360	750	730	660	37	36,5	20				395
600	660	435	900	845	770	40	42	20				1110
700	720	515	1050	960	875	43	46,5	24				1820
800	770	565	1200	1085	990	49	51	24				2150
900	830	630	1350	1185	1090	49	59,5	28				2850
1000	915	695	1500	1320	1210	56	60	28				4250
1200	1070	825	1800	1530	1420	56	74	32				5600

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

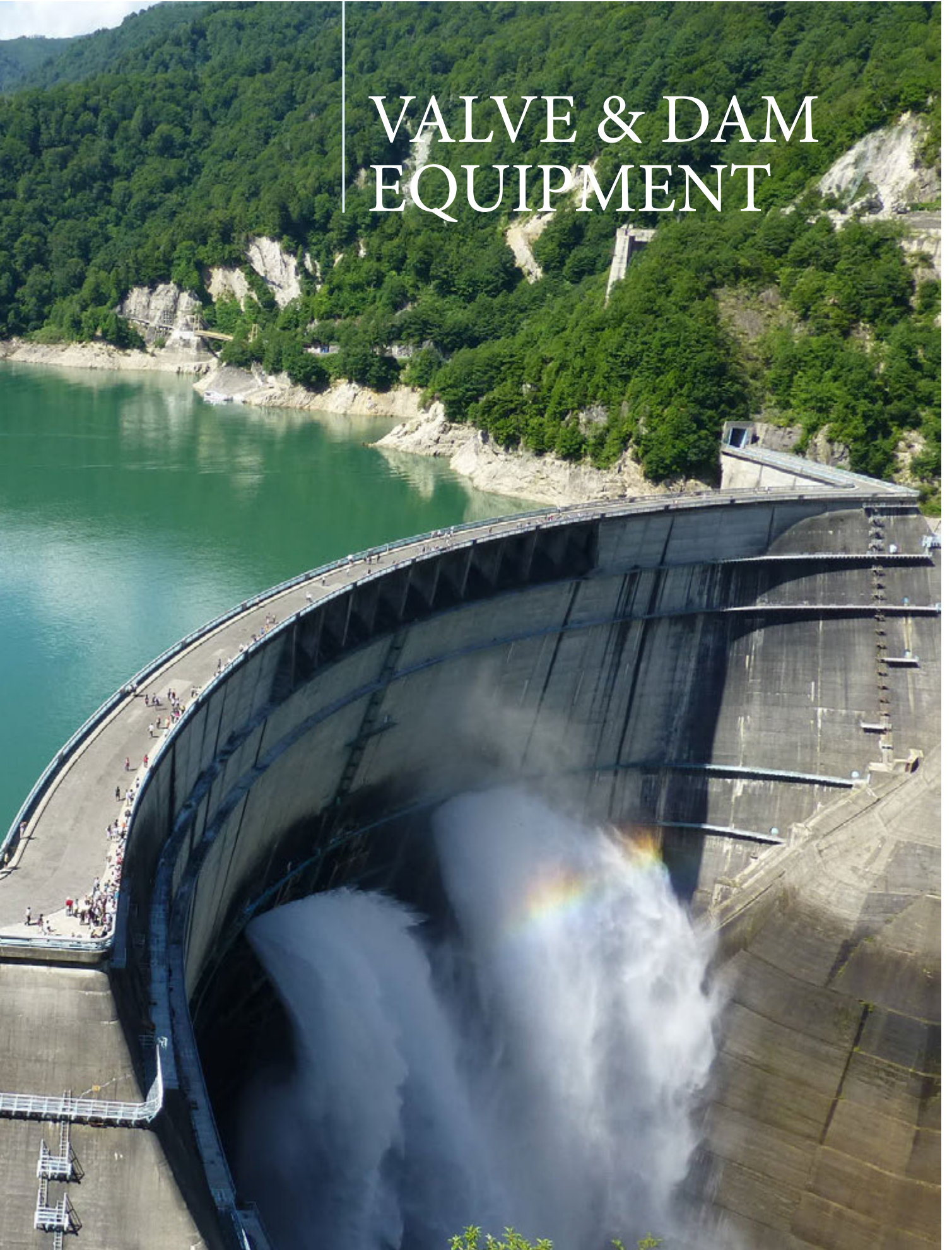




Semsan
PUMPS AND VALVES COMPANY



VALVE & DAM EQUIPMENT



Y-TYPE STRAINER

DN 150/600 | PN 10/ 16/ 25



APPLICATION

- Entrance of control valves
- Drinking water treatment plants

DESIGN

- Body is 65° horizontal to flow
- Flanges DIN EN1092
- PN 10/16/25
- Perforated filter is stainless steel
- There is a plug for cleaning residuals dirty on the filter

MATERIAL

- Body ductile iron GGG-40/50
- Filter is stainless steel
- Flange connection bolts are galvanized steel

OPTIONAL

- DN > 600
- Manometers are input and output of strainer
- Discharge valve on blind flanges
- All of body stainless steel

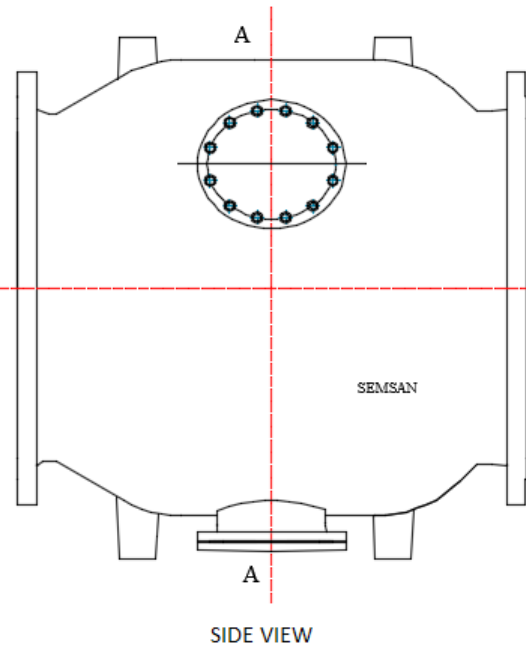
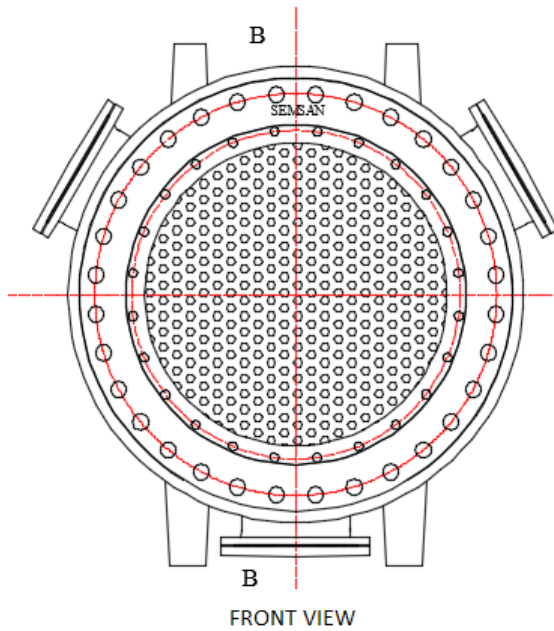
CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawaater



INLINE STRAINER

DN 700/1400 | PN 10/ 16/ 25



APPLICATION

- Entrance of Control Valves
- Drinking water treatment plants

DESIGN

- Designed in parallel with the flow
- Flanges DIN EN 1092
- Suitable for PN 10/16/25
- Stainless steel perforated filter
- Filter without removing the valve or line , allowing clear all the accumulated sediment compact design
- Two input for clean water filter cleaning
- Sewage outlet cover under valve

MATERIAL

- Body ductile iron GGG-40/50
- Filter is stainless steel
- Flange connection bolts are galvanized steel

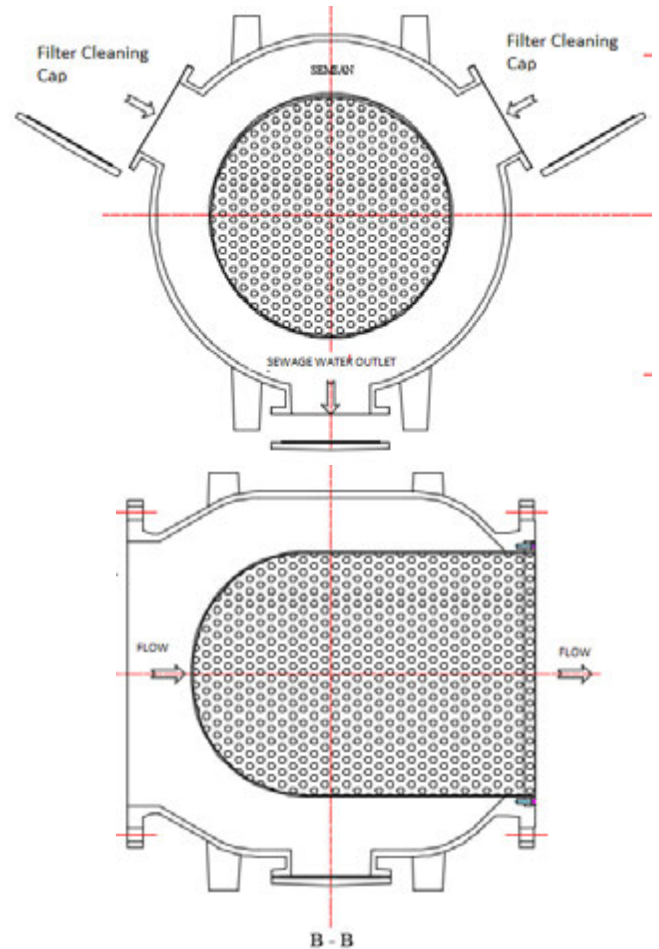
OPTIONAL

- DN > 1400
- Manometers are input and output of strainer
- Discharge valve on blind flanges
- All of body stainless steel

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawaater

OPERATION DETAILS



TILTING CHECK VALVE

DN 150/2000 | PN 10/ 16

TILTING CHECK VALVE



DESIGN

- TSE-EN 12334 certificated
- Double flanged
- Valve disk double offset
- Flanges DIN EN1092 - PN 10/16 norms
- Face to face EN558-1 Series 14, DIN3202 F4
- Body and disk sealing surface is corrosion – resistant stainless steel welded AISI 316
- Adjustable counterweight lever
- Maximum operating temperature 50 °C

MATERIAL

- Body and disk ductile iron GGG 40/50
- Valve shaft stainless steel AISI 420
- Shaft bearing is bronze
- Epoxy coating for drinking water

CONTROL

- Closing with counterweight
- Closing with hydraulic damper

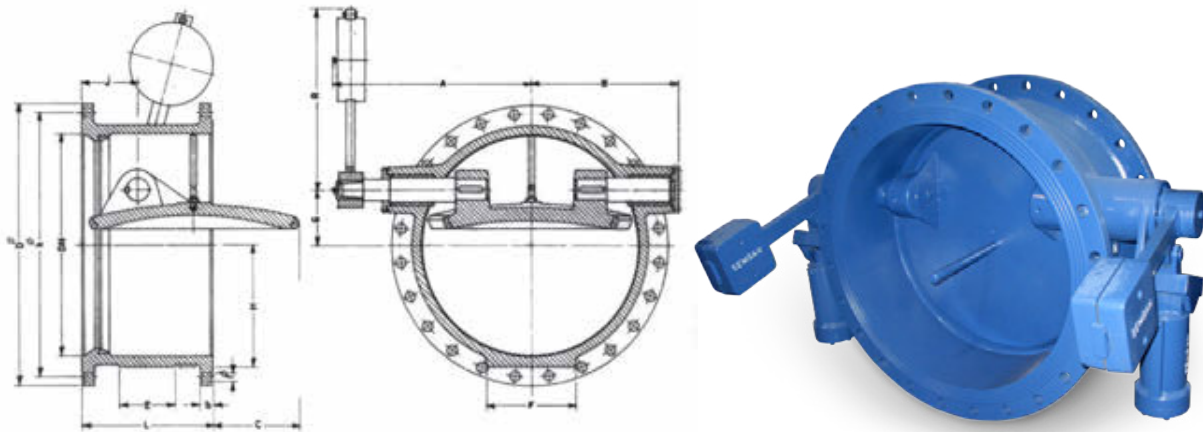
OPTIONAL

- DN > 2000
- PN > 16
- Stainless steel disk and body
- Adjustable and replaceable EPDM sealing ring
- Disk designed with angle

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater





PN10	BODY MEASUREMENT									FLANGE MEASUREMENT					WEIGHT
NOMINAL DIAMETER (DN)	A	B	C	E	F	G	H	J	R	D	L	k	d2	No. of Holes	(KG)
200	250	170	20	-	-	50	-	90	250	340	230	295	23	8	65
250	295	205	40	-	-	62	-	110	250	400	250	350	23	12	85
300	360	245	65	-	-	75	-	115	300	455	270	400	23	12	106
350	395	275	100	-	-	87	-	130	300	505	290	460	23	16	150
400	440	310	120	120	160	105	235	130	300	565	310	515	28	16	190
500	475	365	155	130	200	130	295	136	400	670	350	620	28	20	270
600	550	425	215	160	240	150	340	166	500	780	390	725	31	20	410
700	620	500	255	180	280	180	385	169	600	900	430	840	31	24	560
800	700	560	315	200	320	200	440	200	660	1020	470	950	34	24	770
900	745	595	360	250	400	225	490	215	660	1120	510	1050	34	28	920
1000	915	645	440	250	450	260	540	225	760	1245	550	1160	37	28	1230
1200	955	750	535	300	500	300	640	296	900	1470	630	1380	41	32	1950

PN16	BODY MEASUREMENT									FLANGE MEASUREMENT					WEIGHT
NOMINAL DIAMETER (DN)	A	B	C	E	F	G	H	J	R	D	L	k	d2	No. of Holes	(KG)
200	250	170	20	-	-	50	-	90	250	340	230	295	23	12	70
250	295	205	40	-	-	62	-	110	250	400	250	355	28	12	90
300	360	245	65	-	-	75	-	115	300	455	270	410	28	12	123
350	395	275	100	-	-	87	-	130	300	520	290	470	28	16	170
400	440	310	120	120	160	105	235	130	300	580	310	525	31	16	220
500	475	365	155	130	200	130	295	136	400	715	350	650	34	20	335
600	550	425	215	160	240	150	340	166	500	840	390	770	37	20	535
700	620	500	255	180	280	180	385	169	600	910	430	840	37	24	670
800	700	560	315	200	320	200	440	200	660	1025	470	950	41	24	880
900	745	595	360	250	400	225	490	215	660	1125	510	1050	41	28	1080
1000	915	645	440	250	450	260	540	225	760	1255	550	1170	44	28	1455
1200	955	750	535	300	500	300	640	296	900	1485	630	1390	50	32	2350

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

SWING CHECK VALVE

DN 40/1000 | PN 10/ 16



DESIGN

- TS EN 12334
- Flanges DIN EN1092 - PN 10/16 Norms
- Face to face EN558-1 series 48 (2DN+100)
- Maximum operating temperature 50 °C

MATERIAL

- Body and disk ductile iron GGG 40/50
- Valve shaft stainless steel AISI 420
- Shaft bearing is bronze

CONTROL

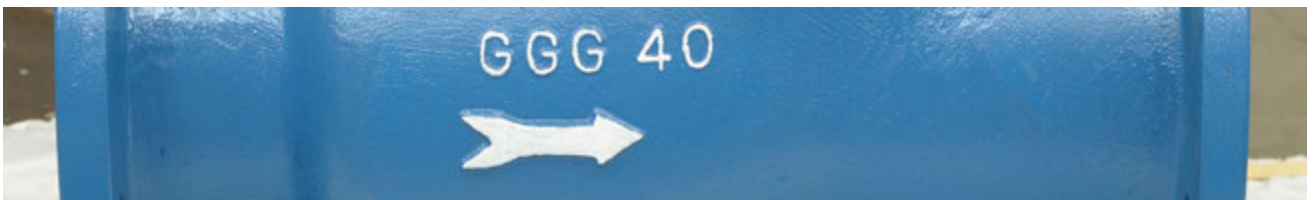
- Closing with hydraulic damper
- Working with counterweight and without counterweight

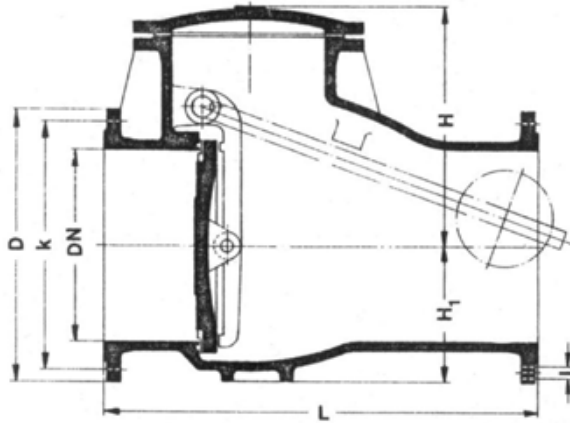
OPTIONAL

- DN > 1000
- PN > 16
- Stainless steel disk and body
- Adjustable and replaceable EPDM sealing ring

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater





PN10	BODY MEASUREMENT		FLANGE MEASUREMENT					WEIGHT		
NOMINAL DIAMETER (DN)	H	H1	D	L	k	I	No. of Holes	WITHOUT LEVER (KG)	LEVER (KG)	WEIGHT (KG)
40	120	-	150	180	110	19	4	10	10,5	11,5
50	125	-	165	200	125	19	4	13	13	14
65	140	-	185	230	145	19	4	19,5	20	22,5
80	165	-	200	260	160	19	8	26	26	29
100	200	-	220	300	180	19	8	36	37,5	44
125	220	-	250	350	210	19	8	52,5	54,5	60
150	240	-	285	400	240	23	8	68	72	76
200	285	-	340	500	295	23	8	115	118	130
250	315	-	400	600	350	23	12	155	165	185
300	365	245	455	700	400	23	12	230	230	270
350	400	285	505	800	460	23	16	320	326	355
400	455	310	565	900	515	28	16	430	442	480
500	560	380	670	1100	620	28	20	710	710	750
600	630	450	780	1300	725	31	20	980	980	1025
700	795	525	895	1500	840	31	24	1490	1490	1565
800	855	610	1015	1700	950	34	24	2100	2100	2175
900	925	680	1115	1900	1050	34	28	2900	2900	2980
1000	980	730	1230	2100	1160	37	28	3700	3700	3780

PN16	BODY MEASUREMENT		FLANGE MEASUREMENT					WEIGHT		
NOMINAL DIAMETER (DN)	H	H1	D	L	k	I	No. of Holes	WITHOUT LEVER (KG)	LEVER (KG)	WEIGHT (KG)
40	120	-	150	180	110	19	4	10	10,5	11,5
50	125	-	165	200	125	19	4	13	13	14
65	140	-	185	230	145	19	4	19,5	20	22,5
80	165	-	200	260	160	19	8	26	26	29
100	200	-	220	300	180	19	8	36	37,5	44
125	220	-	250	350	210	19	8	52,5	54,5	60
150	240	-	285	400	240	23	8	58	72	76
200	285	-	340	500	295	23	12	115	118	130
250	315	-	400	600	355	28	12	-	-	-
300	365	245	455	700	410	28	12	-	-	-

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.



NOZZLE CHECK VALVE

DN 150/1600

PN 10/ 16/ 25/ 40/ 64

DESIGN

- TS EN 12334 certificated
- Double flange
- Flanges DIN EN1092
- PN 10/16/25/40/64
- Face to face EN 558-1 series 14 (DIN3202, F4)
- One piece rigid design
- Body sealing surface; corrosion-resistant stainless steel welded AISI 316 and microfinished
- Axial closing design by spring
- Axial movement by disk
- Replaceable inside parts
- EPDM sealing ring
- Internal fasteners of valve are stainless steel

MATERIAL

- Body ductile iron GGG40/50
- Disk ductile iron GGG40/50
- EPDM sealing ring
- Checkvalve shaft is; AISI 420 (X20Cr13)
- Shaft bearing is bronze

OPTIONAL

- DN > 1600
- Stainless steel body and disk

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawaater

PN10	DIMENSIONS						WEIGHT (KG)
(DN)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	
200	230	340	295	23	20	8	39
250	250	400	350	23	22	12	40
300	270	455	400	23	24,5	12	90
350	290	505	460	23	24,5	16	105
400	310	565	515	28	24,5	16	140
450	330	615	565	28	24,5	20	148
500	350	670	620	28	26,5	20	205
600	390	780	725	31	30	20	278
700	430	895	840	31	32,5	24	330
800	470	1015	950	34	35	24	480
900	510	1115	1050	34	37,5	28	660
1000	550	1230	1160	37	40	28	808
1100	590	1340	1270	37	40	32	1148
1200	630	1455	1380	40	45	32	1498

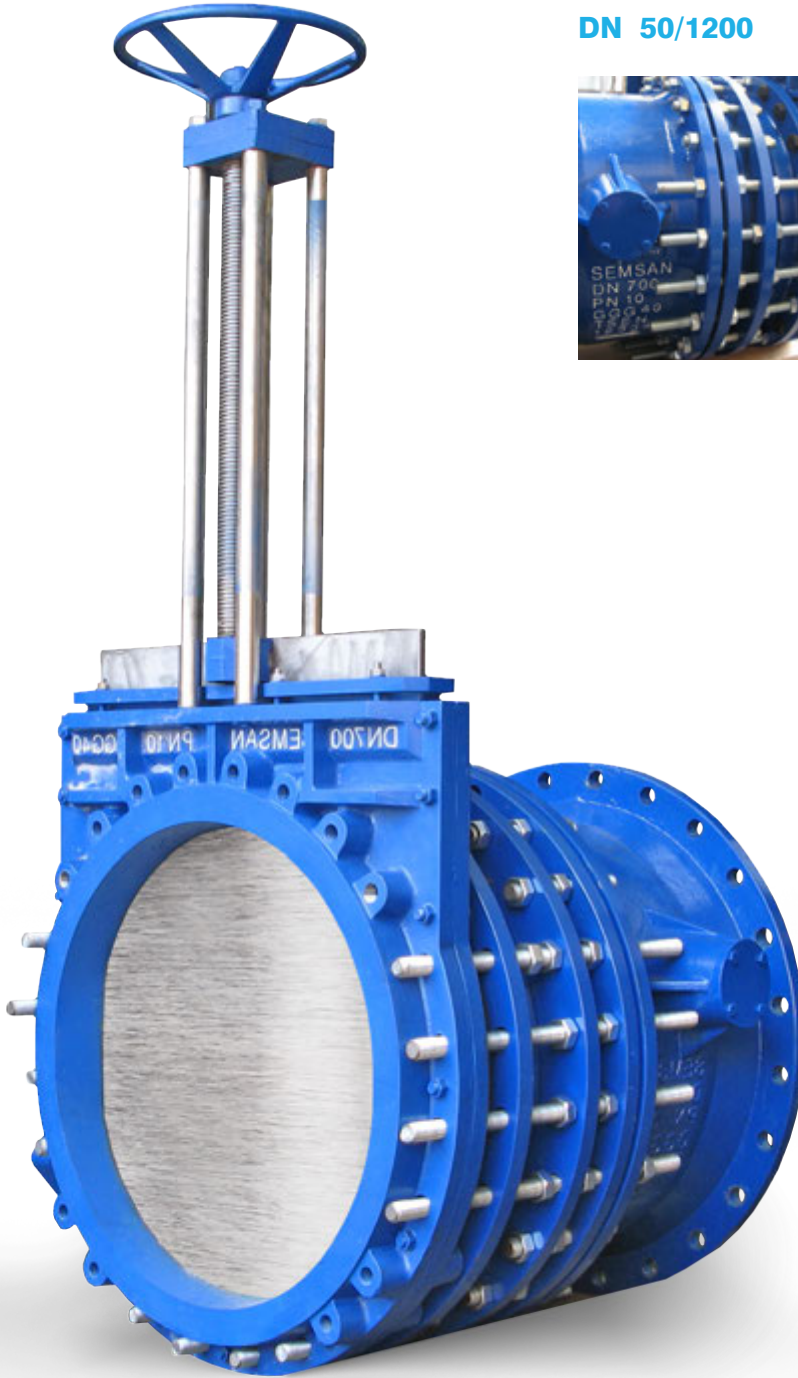
PN16	FLANGES						WEIGHT (KG)
(DN)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	
300	370	455	410	28	24,5	12	65
350	290	520	470	28	26,5	16	96
400	310	580	525	31	28	16	148
450	330	640	585	31	28	20	198
500	350	715	650	34	31,5	20	258
600	390	840	770	37	36	20	418
700	430	910	840	37	39,5	24	530
800	470	1025	950	40	43	24	635
900	510	1125	1050	40	46,5	28	830
1000	550	1255	1170	43	50	28	1078
1200	630	1485	1390	49	57	32	1848

PN25	FLANGES						WEIGHT (KG)
(DN)	L (mm)	D (mm)	K (mm)	d2 (mm)	b (mm)	No. of Holes	
200	230	360	310	28	22	12	140
250	250	425	370	31	24,5	12	205
300	270	485	430	31	27,5	16	235
350	290	555	490	34	30	16	250
400	310	620	550	37	32	16	420
450	330	670	600	37	34,5	20	490
500	350	730	660	37	36,5	20	695
600	390	845	770	40	42	20	780
700	430	960	875	43	46,5	24	1000
800	470	1085	990	49	51	24	1290
900	510	1185	1090	49	59,5	28	1830
1000	550	1320	1210	56	60	28	2250
1200	630	1530	1420	56	74	32	3600

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

KNIFE GATE VALVE

DN 50/1200



DESIGN

- Face to Face Dimensions TS EN 558 – 1 Series 20 /(DIN3202 / K1)
- Flanges TS EN 1092 – 2, PN10
- Wafer Type
- Non Rising Design
- Hand operated

OPTIONAL

- Electrical Control
- Pneumatic Control
- Hydraulic Control

MATERIAL

- Body : GJS 400-15
- Sliding (Knife) : Stainless Steel 1.4301
- Selaing : U and Horizontal EPDM

CONTROL

- Hand Operated
- Electrical Motor Controlled
- Pneumatic or Hydraulic Controlled

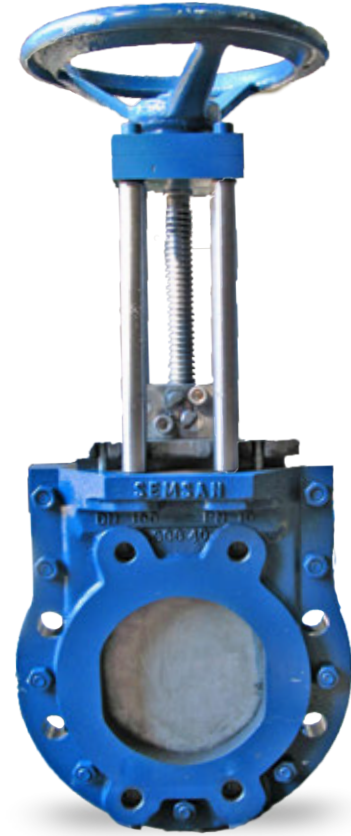
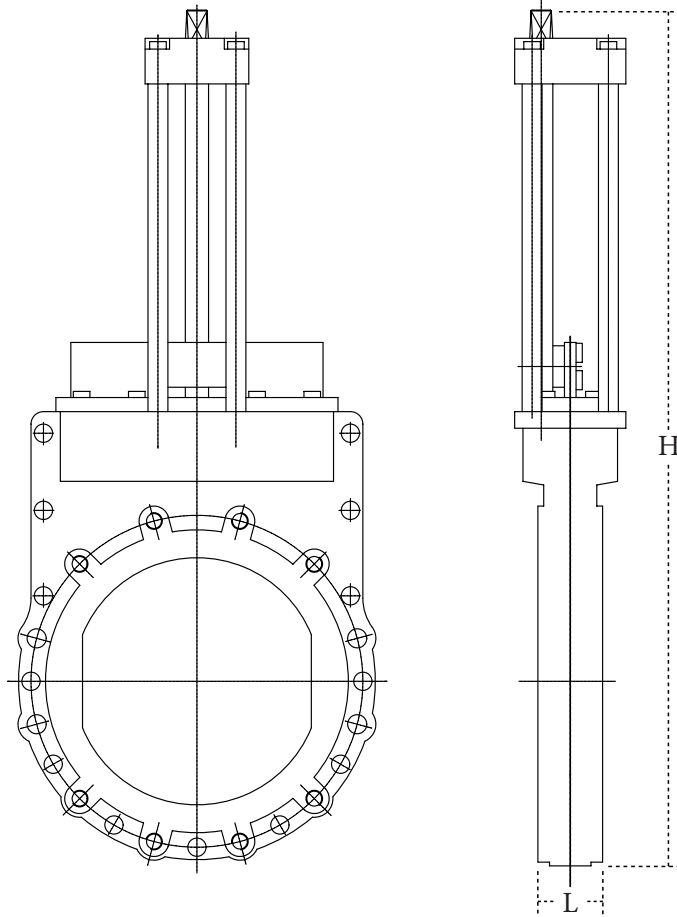
CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawaater

LAST QUALITY CONTROL EN 12266 – 1 CLASS A

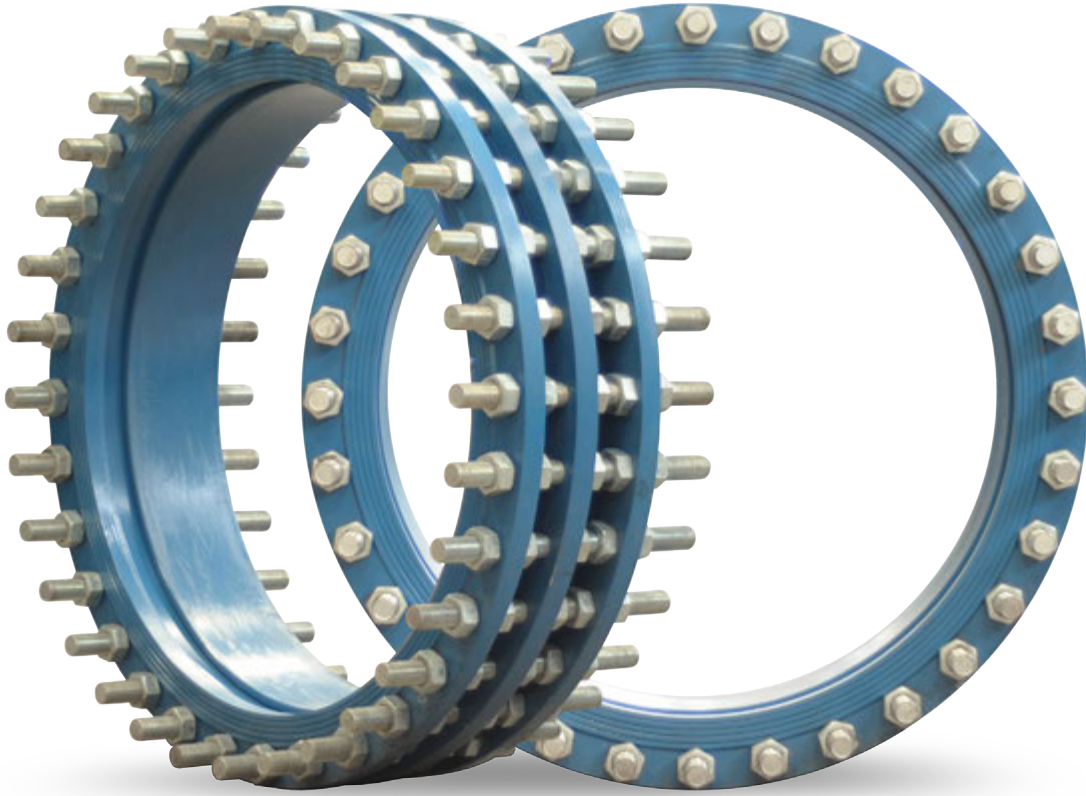
Nominal Diameter (DN)	Nominal Pressure PN kg / cm ²	Hydrostatic Test Pressure	
		Body	Sealing
50.....350	10	15	10
400.....600	4	6	4
700.....1200	2,5	3,75	2,5

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.



Nominal Dia. (DN)	L F to F	H Height	D Volant	Mass (Kg)
50	43	330	200	10
65	46	350	200	11
80	46	385	200	13
100	52	425	225	17
125	56	465	225	20
150	56	510	250	25
200	60	600	320	40
250	68	720	320	65
300	78	840	400	100
350	78	940	400	135
400	102	1020	400	165
500	127	1270	500	255
600	154	1450	500	370
700	165	1770	500	600
800	190	1940	500	750
900	203	2150	500	870
1000	216	2350	500	1230
1200	254	2650	500	1840

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.



DESIGN

- TS K 461
- Flanges according to DIN EN1092
- Easily fixing to valves
- Three parts body design
- Movement Capability $\pm 25\text{mm}$
- Maximum operating temperature 50°C

MATERIAL

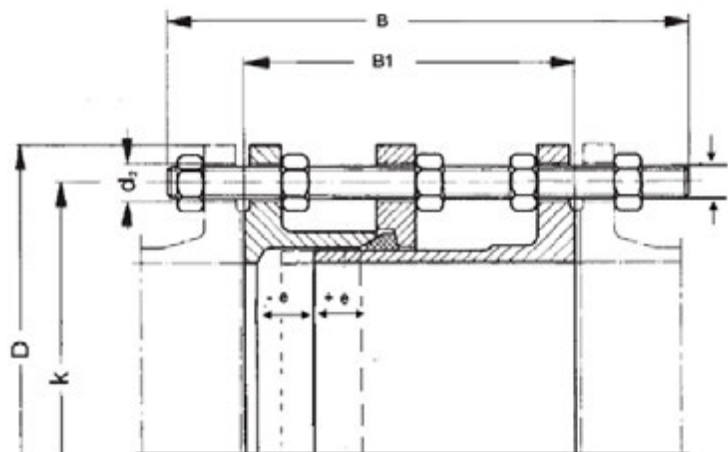
- Body ductile iron GGG 40/50
- EPDM sealing ring
- Galvanized bolts and nuts

OPTIONAL

- DN > 2800
- Stainless steel body parts
- Bolts and nuts are stainless steel

CORROSION PROTECTION

- Electrostatic Powder Coating for Drinking Water
- Zinch – Rich Epoxy Primer
- Coal – Tar Epoxy
- Glass Flake Epoxy
- Enamel Epoxy for Ultraviolet
- Completely Stainless Steel Design
- Ebonite Coating for Seawater



PN 10								
DN	D	k	d2	No. of Holes	B	B1	E	WEIGHT (KG)
100	220	180	19	8	310	200	25	21
150	285	240	23	8	320	200	25	35
200	340	295	23	8	340	220	25	49
250	400	350	23	12	360	220	25	64
300	455	400	23	12	360	220	25	73
350	505	460	23	16	360	230	25	96
400	565	515	28	16	370	230	25	124
450	615	565	28	20	390	250	25	141
500	670	620	28	20	390	260	25	160
600	780	725	31	20	410	260	25	207
700	895	840	31	24	410	260	25	259
800	1015	950	34	24	460	290	25	354
900	1115	1050	34	28	460	290	25	407
1000	1230	1160	37	28	480	290	25	488
1100	1340	1270	37	32	480	300	25	589
1200	1455	1380	40	32	520	320	25	748
1300	1575	1490	40	32	530	340	25	914
1400	1675	1590	43	36	560	360	25	1037
1500	1785	1700	43	36	590	380	25	1162
1600	1915	1820	49	40	600	390	25	1225
1800	2115	2020	49	44	640	400	25	1440
2000	2325	2230	49	48	650	400	25	1710
2200	2550	2440	56	52	660	400	25	2030

PN 16								
DN	D	k	d2	No. of Holes	B	B1	E	WEIGHT (KG)
100	220	180	19	8	310	200	25	21
150	285	240	23	8	320	200	25	35
200	340	295	23	12	340	220	25	52
250	400	355	28	12	370	230	25	76
300	455	410	28	12	410	250	25	93
350	520	470	28	16	410	260	25	129
400	580	525	31	16	430	270	25	164
450	640	585	31	20	430	270	25	190
500	715	650	34	20	440	280	25	243
600	840	770	37	20	480	300	25	332
700	910	840	37	24	480	300	25	368
800	1025	950	40	24	520	320	25	480
900	1125	1050	40	28	520	320	25	548
1000	1255	1170	43	28	560	340	25	719
1100	1355	1270	43	32	560	340	25	813
1200	1485	1390	49	32	600	360	25	1110
1300	1590	1490	49	32	610	370	25	1226
1400	1685	1590	49	36	630	380	25	1350
1500	1820	1710	56	36	660	400	25	1642
1600	1930	1820	56	40	660	400	25	1705
1800	2130	2020	56	44	660	400	25	2200
2000	2345	2230	62	48	700	400	25	2380
2200	2555	2440	62	52	710	400	25	3325

PN 25								
DN	D	k	d2	No. of Holes	B	B1	E	WEIGHT (KG)
100	235	190	23	8	340	220	25	32
150	300	250	28	8	370	230	25	52
200	360	310	28	12	370	230	25	76
250	425	370	31	12	410	250	25	103
300	485	430	31	16	410	250	25	134
350	555	490	34	16	440	270	25	196
400	620	550	37	16	480	280	25	248
450	670	600	37	20	480	280	25	281
500	730	660	37	20	480	300	25	327
600	845	770	40	20	520	320	25	436
700	960	875	43	24	530	340	25	573
800	1085	990	49	24	600	360	25	800
900	1185	1090	49	28	600	380	25	888
1000	1320	1210	56	28	650	400	25	1272

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.

BOTTOM OUTLET VALVES





HOLLOW JET VALVE (Conical Valve)

DN300 - 2000 | PN10 - 16

Two – part control valve insisting of a body and sleeve cylinder.
End of line and bottom outlet discharge valve

HOLLOW JET VALVE



DESIGN

- Flanges are EN 1092
- Axial symetrical flow direction
- High discharge capacity
- Special sealing between cylindrical sleeve and body (soft seal)
- Body surface stainless steel coating
- Low operation force
- Double cylinder hydraulic control mechanism

MATERIAL

- Body and sleeve pipe is steel construction EN12516-1
- Sleeve-mainbody contact surface stainless steel
- Special profile EPDM sealing ring

OPTIONAL

- DN > 2000
- PN > 16
- Pipeline fittings (welded design)

CORROSION PROTECTION

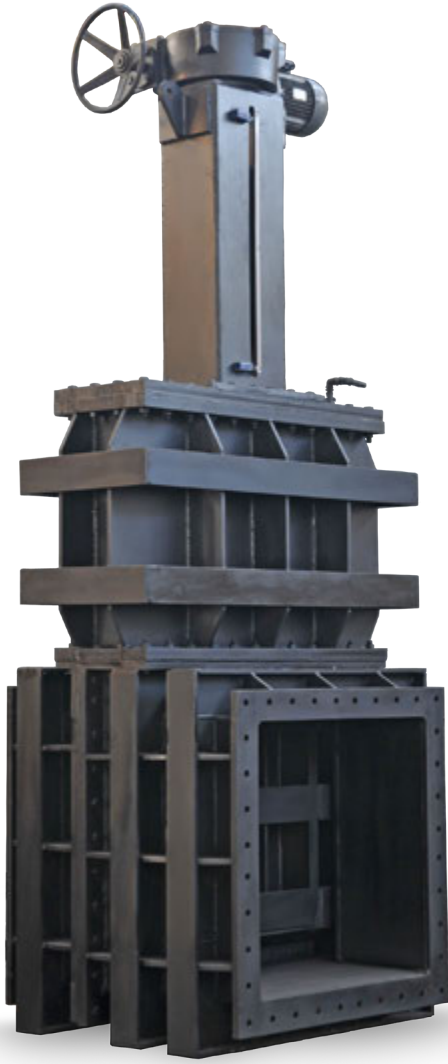
- Epoxy coating for drinking water
- Zinch rich epoxy primer
- Coal-tar epoxy coating



LAST QUALITY CONTROL EN 12266 – 1 CLASS A

Nominal Diameter (DN)	Nominal Pressure PN kg / cm2	Test Pressure Body	Max Pressure for Temperature 50 °C
300.....2000	10	15	10
300.....2000	16	24	16

* All of dimensions and explanations has been given for information. SEMSAN reserve right to keep change all them off.



SQUARE SLIDE GATE VALVE

350x350 / 2000x2000

This valve is using for regulating valve and discharge valve at the dams and lakes.



DESIGN

- Special design for operating pressure
- Completely steel construction
- Sealing surfaces are stainless steel
- Gate level indicator
- Special design square flanges
- Handwheel operated

MATERIAL

- Body and gate steel construction EN12516-1
- Stainless steel sealing surfaces
- Valve shaft stainless steel AISI 420

CORROSION PROTECTION

- Epoxy coating for drinking water
- Zinch rich epoxy primer
- Coal-tar epoxy coating

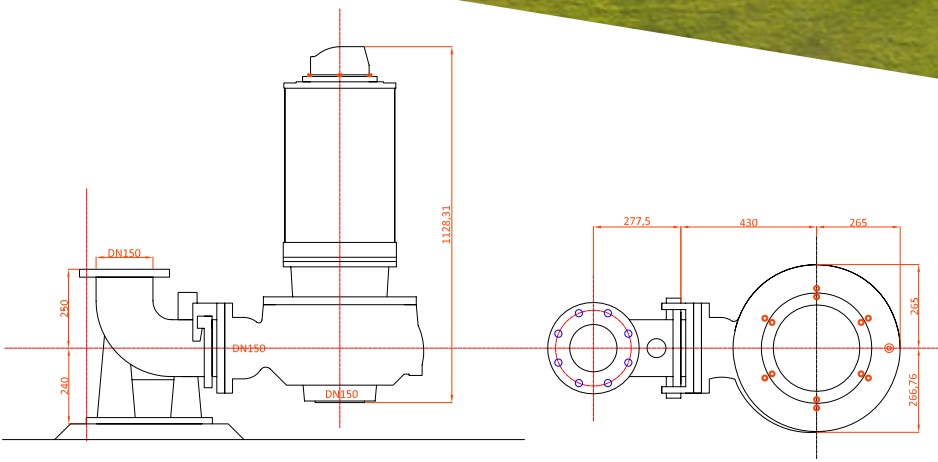
OPTIONAL

- Electric actuator
- Hydraulic actuator
- Input- output transition parts

SQUARE SLIDE GATE VALVE



Semsan
POMPA MAKİNA SANAYİ VE TİC. A.Ş.

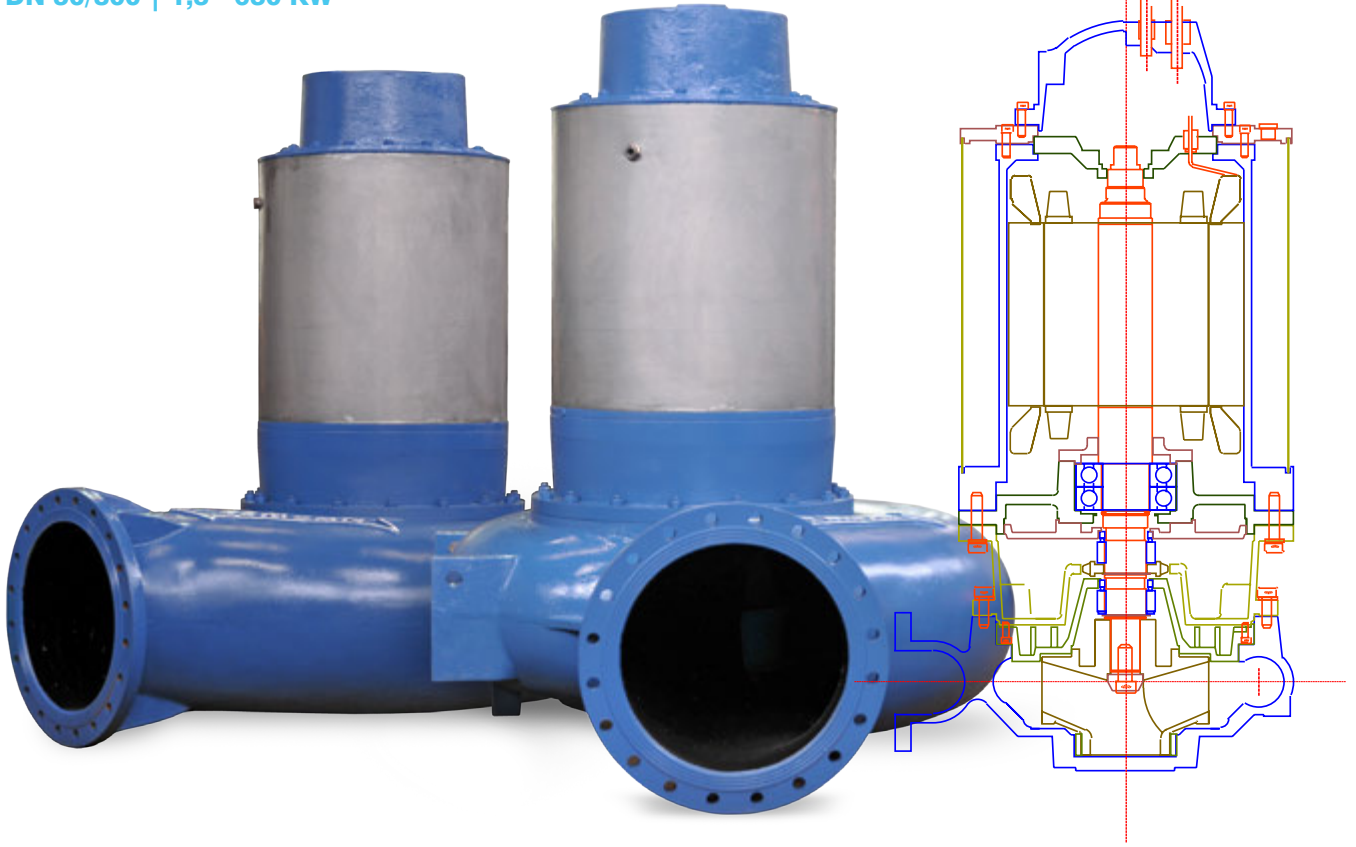




SUBMERSIBLE SEWAGE PUMPS

SUBMERSIBLE SEWAGE PUMP

DN 50/800 | 1,3 - 630 KW



MATERIAL

- Motor body ductile iron GGG 40/50
- Cooling jacket ST37-2 / AISI 304
- Motor shaft is AISI 420 X20Cr13
- Fasteners AISI316
- Impeller is ductile iron GGG/40/50

FOR WET MOUNTING

- Pedestal, ductile iron GGG 40-50 / stainless steel
- Fasteners are galvanized steel
- Pipe coupling socket is ductile iron GGG 40/50

FOR DRY MOUNTING

- Pump chassis ST37-2

SPECIFICATIONS

- Discharge Outlets DN50-800
- Motor power is 1,3-630 kw
- Operating voltage is 380 V 50 Hz (3 phase)
- Insulation class: H
- Protection class: IP68
- Type of starting: star delta, directly, soft starter
- Type of cable: H07RNF
- Standart cable length is 10 meters
- Mechanical seal SiC-SiC / W-C

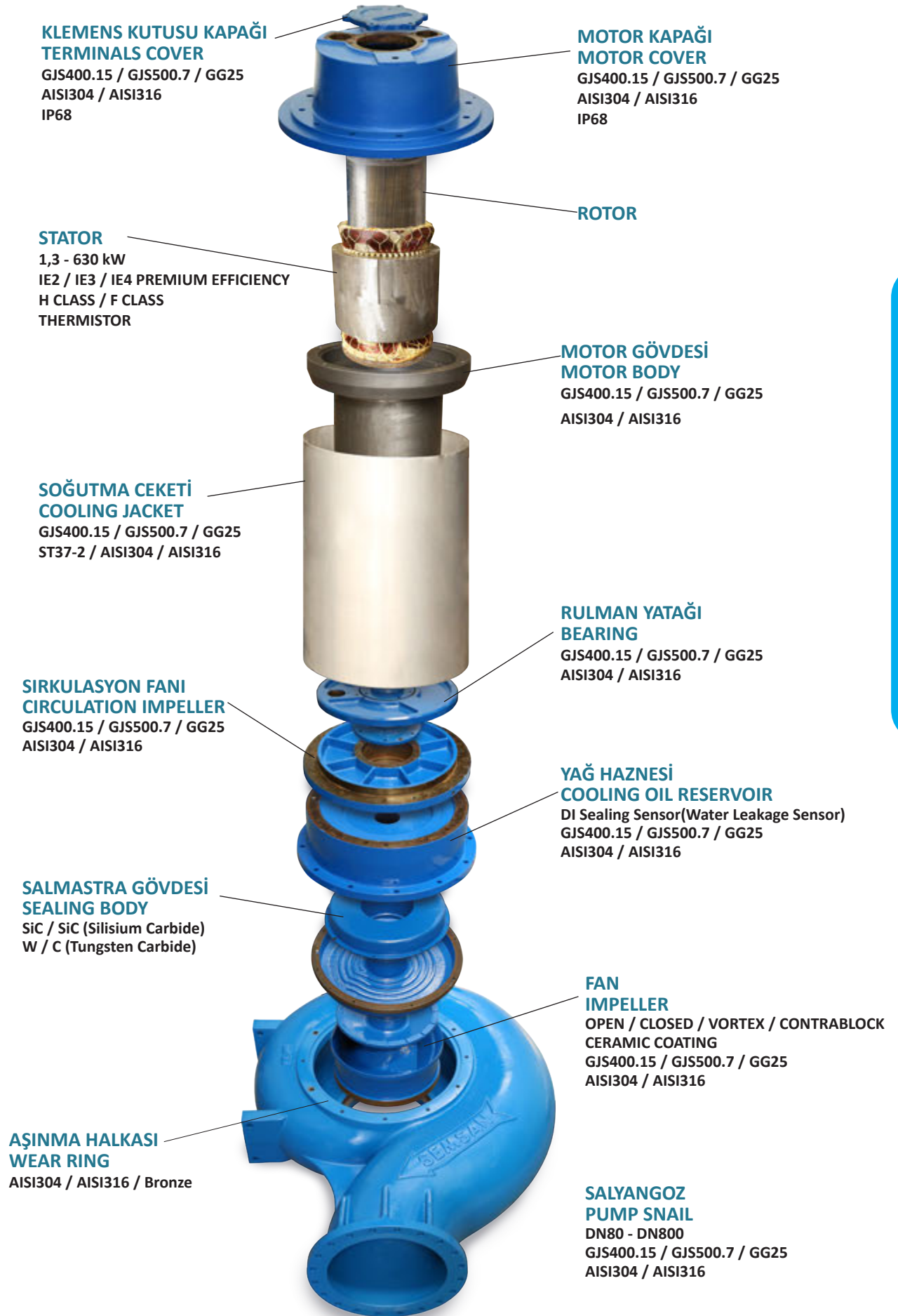
DESIGN

- TS EN 12599 certificated
- 380 V 50 Hz 3phase squirrel cage motor
- Motor insulation class H
- 1,3- 7,5 kw cooling vane (cooling jacket is optional)
- 11-630 kw closed circuit cooling system
- DI sealing sensor in the oil reservoir between the electric motor and the pump
- Maintenance free bearings
- There is a thermister temperature sensor for protect over heating of motor
- Stainless steel shaft
- Optionally completely in stainless steel manufacturing
- Custom manufacturing according to the type of fluid
- Dry, wet, horizontal and vertical mounting ability
- Epoxy coating

TYPE OF IMPELLER

- Closed impeller
- One – two – three channel big solid size impeller
- One channel two channel contrablock (CB)
- Open impeller
- Vortex impeller

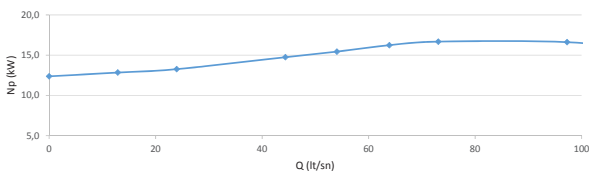
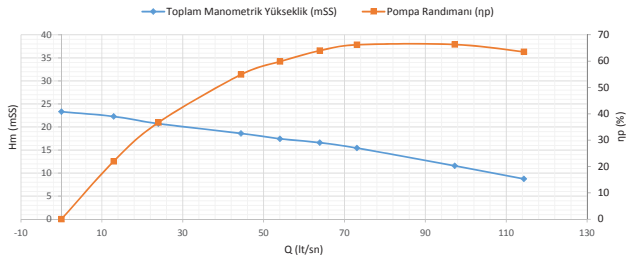




SUBMERSIBLE SEWAGE PUMP PERFORMANCE EFFICIENCY TEST REPORT

			HİDROLİK VERİLER		ELEKTRİK VERİLER	
Teklif No	Pompa Modeli	ASP 100 260 M185.4	Debi (Q)	77.7 lt/sn	Motor Gücü (N)	18.5 kW
İmal Yılı / Seri No	2016 / KUTLAR 002		Yükseklik (Hm)	15 mSS	Devir (n)	1475 d/dak
Test Tarihi / Saati	22.02.2016 / 16.57		Randiman (np)	66 %	Motor Randımanı	91.3 %
Test No	1		Basma Ağızı (DN)	150 mm	TEST STANDI VERİLERİ	
Özel Notlar:Pedestalli,			Fan Tipi	2 kanat açık	Boru Çapı (DN)	0.13 mt
			Fan Çapı	270	Su Seviyesi (m3)	1.4 mt

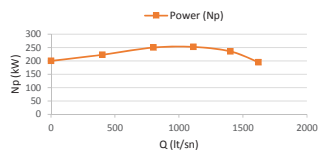
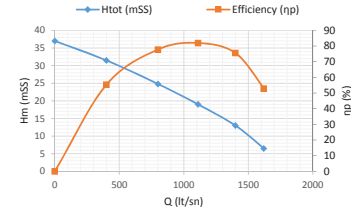
Debi (Q)	lt/sn	0	13	24	44	54	64	73	97	114		
Basınç Transmitteri	mt.	21,9	20,8	19,2	16,6	15,2	14,0	12,5	7,4	3,6		
Toplam Güç (N)	kW	13,6	14,1	14,5	16,2	16,9	17,8	18,3	18,2	16,9		
Hız (V)	m/sn	0,00	0,97	1,80	3,34	4,07	4,81	5,51	7,33	8,62		
Hız Yükseklik Farkı	mt.	0	0,0482	0,166	0,57	0,845	1,181	1,545	2,736	3,784		
Toplam Manometrik Yükseklik (mSS)	Hm	23	22	21	19	17	15	12	9			
Mil Gücü (Np)	kW	12,4	12,8	13,3	14,8	15,4	16,3	16,7	16,6	15,4		
Pompa Randımanı (np)	%	0	22	37	55	60	64	66	66	63,51		



SUBMERSIBLE SEWAGE PUMP PERFORMANCE CURVE

Customer	Order No
	23.08.2016

PUMP SPECIFICATIONS		MOTOR SPECIFICATIONS	
Model	ASP100-260 M3150 / 8	Suction / Discharge	DN/500
Flow Rate (Q)	4000 m³/h	Impeller Type	3 Ch Closed
Flow Rate (Q)	1111,1 lt/sn	Impeller Dia	660 mm
Head (Hm)	19 mSS	Solid Size	120 mm
Operation Temp.	40 °C	Efficiency (np)	82 %
Protection Class	IP68	Power (N)	252,4 Kw
		Cable Length	10 mt

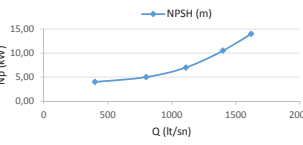


MATERIAL

Body : GJS 400/15 (GGG 40) - Ductile Iron
 Pump Snail : GJS 400/15 (GGG 40) - Ductile Iron
 Impeller : GJS 400/15 (GGG 40) - Ductile Iron
 Shaft : AISI 420 (X20Cr13) Stainless Steel
 Sealing : SiC / SiC

DESIGN

* Thermistor Temperature Sensor for Protect Over Heating of Motor.
 * DI Sealing Sensor in the Oil Reservoir Between *
 The Electric Motor and the Pump
 * Closed Circuit Cooling System
 * Cooling Jacket for Dry Mounting
 * Double Mechanical Seal for Pump Sealing
 * Maintenance Free Bearings



**EN ISO 9906
PUMP TEST
STAND**



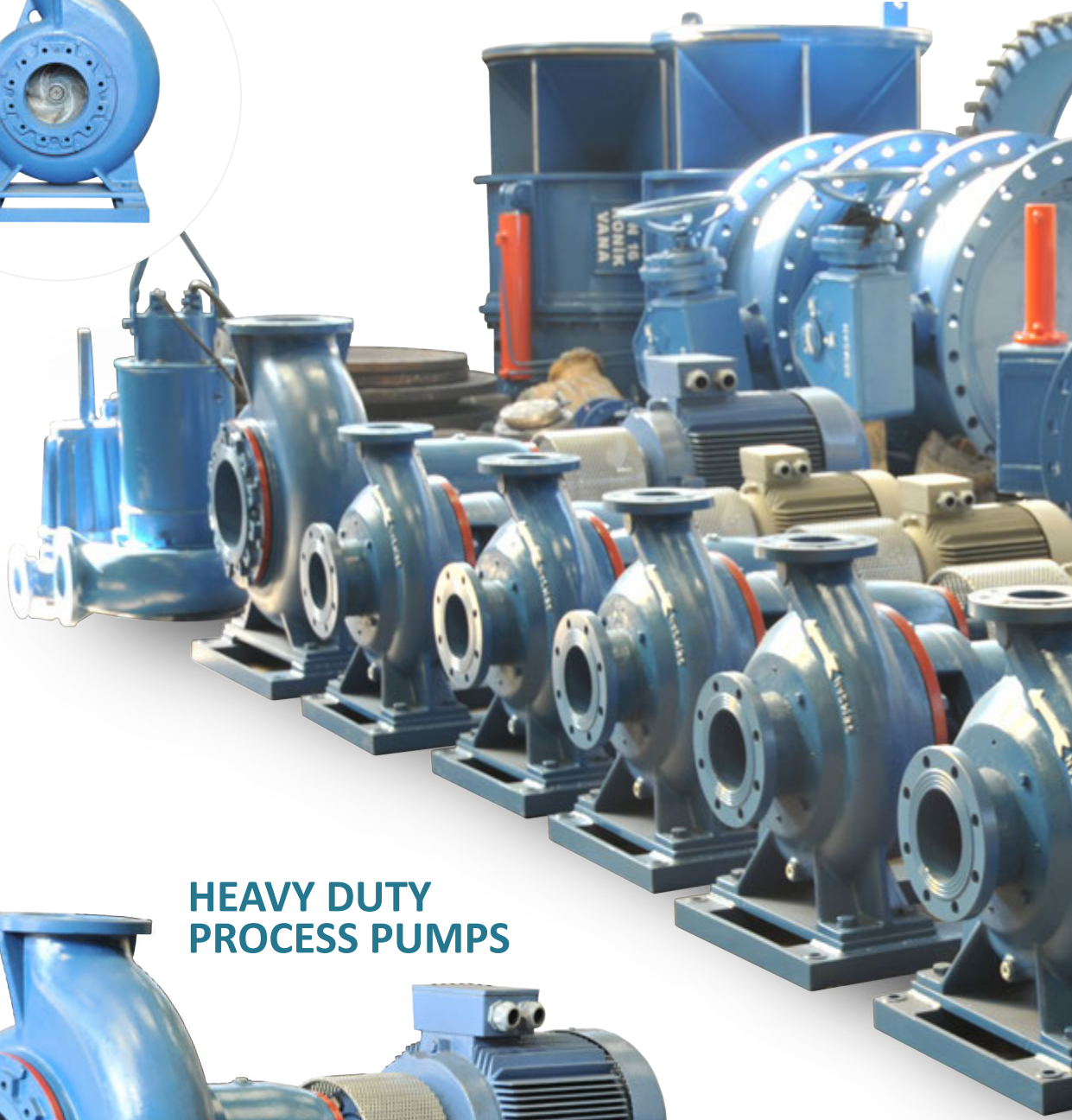


IP68

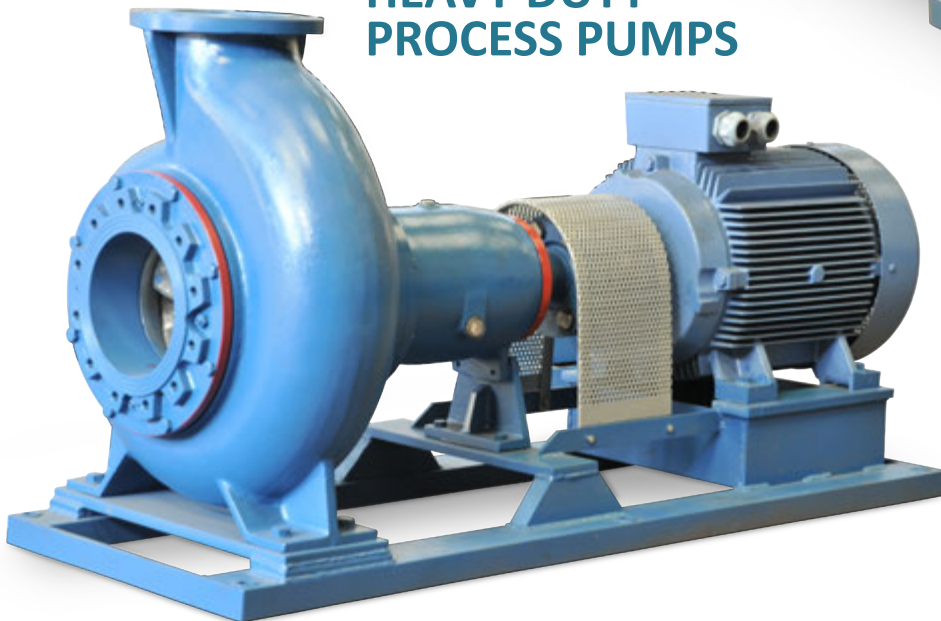
H
CLASS

IE3

CE



HEAVY DUTY PROCESS PUMPS



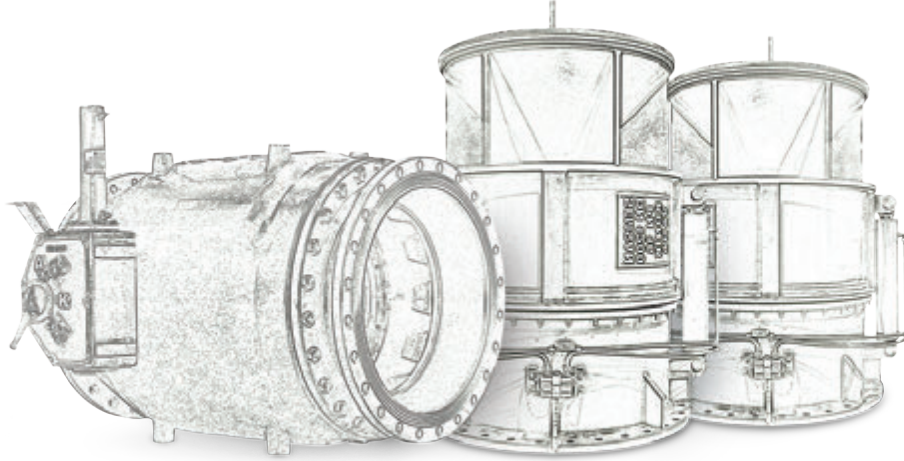
PAPER STOCK PUMP



SPLIT CASE PUMP



PUMP, VALVE & DAM
EQUIPMETS
PRODUCT CATALOGUE



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