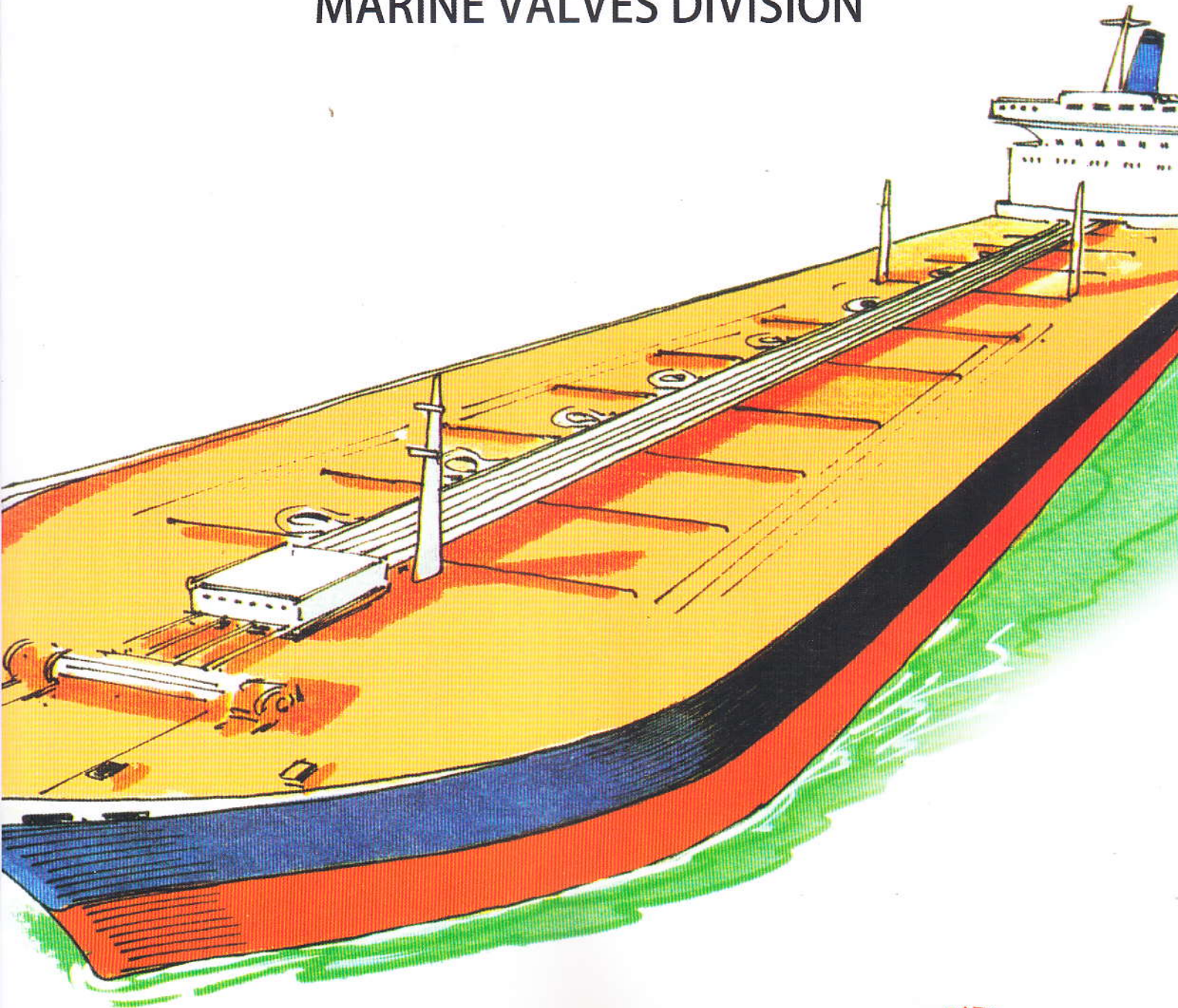




S & M INDUSTRIAL VALVES LIMITED

(FORMERLY : STEAM & MINING INDUSTRIES)

MARINE VALVES DIVISION



AN ISO 9001:2008 CERTIFIED COMPANY

CELEBRATING
50
Years
1963-2013

LIST OF MARINE VALVES - PRODUCT RANGE

Sl. No.	Type of Valve	Available Size	Ferrous	Non - Ferrous
1	Gare Valve / Sluice Valve	25 MM to 1000 MM	CI/CS/SS/FS	NAB / LG4C / Bronze
2	Ball Valve	6 MM to 600 MM	CI/CS/SS/FS	-- DO --
3	Globe Valve	15 MM to 600 MM	CI/CS/SS/FS	-- DO --
4	Check Valve / Flap	15 MM to 600 MM	CI/CS/SS/FS	-- DO --
5	Sea Inlet Valve	15 MM to 300 MM	CI/CS/SS	-- DO --
6	Storm Valve	50 MM to 150 MM	CI/CS/SS	-- DO --
7	SDNR Valve (both Angle & Straight)	25 MM to 200 MM	CI/CS/SS	-- DO --
8	Butterfly Valve	25 MM to 1000 MM	CI/CS/SS	-- DO --
9	Quick Closing Valve	25 MM to 300 MM	CI/CS/SS	-- DO --
10	Hydrant Valve	50 MM to 80 MM	CI/CS/SS	-- DO --
11	Weight Lever Valve	25 MM to 300 MM	CI/CS/SS	-- DO --
12	Self Closing Sounding Cock	32 MM to 80 MM	CI/CS/SS	-- DO --
13	Pressure Reducing Valves	25 MM to 300 MM	CI/CS/SS	-- DO --
14	Pressure Relief Valves	25 MM to 300 MM	CI/CS/SS	-- DO --
15	Basket Strainers	25 MM to 400 MM	CI/CS/SS	-- DO --
16	Non Return Stop / Plug Valve	25 MM to 300 MM	CI/CS/SS	-- DO --
17	Foot Valve	25 MM to 400 MM	CI/CS/SS	-- DO --□
18	Cock Valves	25 MM to 300 MM	CI/CS/SS	-- DO --
19	Mud Box	25 MM to 300 MM	CI/CS/SS	-- DO --
20	Rose Box	25 MM to 300 MM	CI/CS/SS	-- DO --
21	Counter Flanges	25 MM to 600 MM	CI/CS/SS	-- DO --
22	Stop Valve Angle / Straight Type	25 MM to 400 MM	CI/CS/SS	-- DO --
23	Fire Hydrant Valve	30 MM to 80 MM	CS/SS	-- DO --
24	SD Straight Globe Valve	15 MM to 300 MM	CI/CS/SS	-- DO --
25	2 / 3 / 4 -way Ball Valve	15 MM to 150 MM	CI/CS/SS	-- DO --
26	Regulation Valve	15 MM to 100 MM	CI/CS/SS	-- DO --□
27	Self Closing Valve	15 MM to 80 MM	CI/CS/SS	-- DO --
28	3 - way valve ' L ' type / ' T ' type	25 MM to 200 MM	CI/CS/SS	-- DO --
29	Bib Cock	15 MM to 50 MM	CI/CS/SS	-- DO --
30	Drain Valve - Push type	15 MM to 50 MM	CI/CS/SS	-- DO --
31	Suction Chest	25 MM to 300 MM	CI/CS/SS	-- DO --
32	Overboard Spring Loaded Valves	25 MM to 300 MM	CI/CS/SS	-- DO --
33	Diaphragm Valves	15 MM to 300 MM	CI/CS/SS	-- DO --
34	Duplex Strainer	15 MM to 200 MM	CI/CS/SS	-- DO --
35	Needle Valve	15 MM to 50 MM	CI/CS/SS	-- DO --
36	Air Vent Valve	15 MM to 50 MM	CI/CS/SS	-- DO --
37	Float Valve	15 MM to 50 MM	CI/CS/SS	-- DO --
38	Sight Glass	50 MM to 300 MM	CI/CS/SS	-- DO --
39	Gauge Glass	15 MM to 40 MM	CI/CS/SS	-- DO --
40	Ball Valve C/W Hose Coupling	50 MM to 80 MM	CI/CS/SS	-- DO --
41	Foot Valve with Strainer	25 MM to 400 MM	CI/CS/SS	-- DO --
42	Check Valve / Swing	15 MM to 600 MM	CI/CS/SS/FS	-- DO --
43	Sampling Cock	25 MM to 50 MM	CI/CS/SS	-- DO --
44	" Y " Strainers	25 MM to 400 MM	CI/CS/SS	-- DO --□
45	Strum Box	25 MM to 300 MM	CI/CS/SS	-- DO --



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Preface

After the two great decades of India's modernisation stories of globalisation and free world economy, we at Steam & Mining Industries took a massive expansion drive. The company's leadership took the long awaited decision of becoming a limited company thus the erstwhile Steam & Mining Industries became S & M INDUSTRIAL VALES LIMITED w.ef. 1-4-2010. With the 3rd generation of business entrepreneurship and youth taking the initiative, a special division for the marine valves is formed.

Although the marine valves were produced and supplied earlier, a special focus was eminent, keeping in view the ever increasing demand from the various government and privately owned shipyards across the country and abroad.

The 'Mantra' was very simple

"If world class ships can be built by Indian shipbuilders for the world at competitive rates, why can't an Indian company manufacture marine valves & accessories to run them ?"

Marine valves division is created and handled by a team leader of vast business and marketing experience and the whole team understand the need of specially designed and manufactured valves and accessories to suit the most stringent quality criteria of a modern ship, be it a cargo ship, a bulk container carrier, a most luxurious passenger ship, a specially light valves are made for a high speed boat or interceptor boat. All the valves are manufactured as per marine class and standards used by shipyards accross the world like DIN, ECONOSTO, JIS, BSS, FSS, ASME,

Our internal Quality Assurance Plan makes each valve pass through stage wise checkup which ensures the end product reaching our clients with '0' complaints. Our production stage wise dead lines given to the our supervisors at factory helps us reaching our committed delivery schedules to our customers.

The Result of All Our Team Efforts Is "CUSTOMER SATISFACTION"

PRADIP J. MEHTA
M.D.



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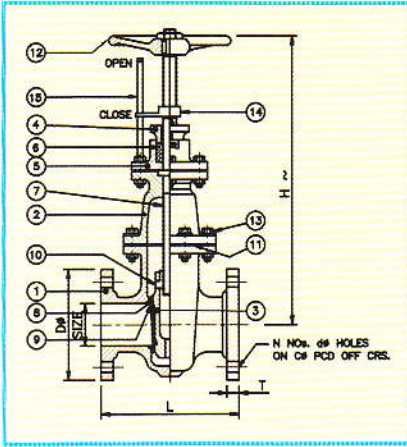
INDEX

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
GATE VALVE	1-3
GLOBE VALVE	4-6
SDNR VALVE	7-8
CHECK VALVE	9-11
BALL VALVE	12-14
FOOT VALVE	15
PRESSURE REDUCING VALVE	16
SAFETY / RELIEF VALVE	17-18
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MUD BOX / FILTER / STRAINER	21-22
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600	390	1522	780	42	725	20	30
500	350	1263	670	38	620	20	26
450	330	1174	615	32	565	20	26
400	310	1070	565	32	515	16	26
350	290	972	505	28	460	16	22
300	270	873	445	26	400	12	22
250	250	763	395	26	350	12	22
200	230	662	340	24	295	8	22
150	210	535	285	22	240	8	22
125	200	487	250	22	210	8	18
100	190	428	220	20	180	8	18
80	180	391	200	20	160	8	18
65	170	365	185	18	145	4	18
50	150	343	165	18	125	4	18
40	140	323	150	16	110	4	18
SIZE(NB)	$L^{\pm 2}$	H APPROX	$D\phi^{\pm 2}$	$T^{\pm 2}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 1}$

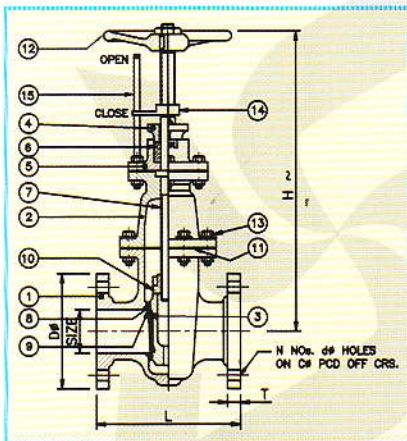
Face to face as per DIN / ECONOSTO

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL
2	BONNET	CAST IRON/CAST STEEL
3	WEDGE	CAST IRON/CAST STEEL
4	GLAND	CAST IRON/CAST STEEL
5	STUFFING BOX	CAST IRON/CAST STEEL
6	GLAND PACKING	GRAPHITED ASBESTOS
7	SPINDLE (NON RISING)	HT BRASS/S.S.
8	SEAT RING (RENEWABLE)	BRONZE/SS
9	WEDGE FACING (RENEWABLE)	BRONZE/SS
10	WEDGE NUT	BRONZE/SS
11	GASKET	CAF
12	HAND WHEEL	CAST IRON
13	BOLTS & NUTS	CARBON STEEL
14	INDICATOR	GUN METAL
15	INDICATOR SCALE	BRASS IS:319 TYPE II OR EQUIVALENT

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	40-300
PN-6	PN-10	350-500
PN-2.5	PN-10	600

CI/CS BODY NON RISING SPINDLE GATE VALVE



600	508	1500	780	42	725	20	30
500	457	1300	670	38	620	20	26
450	432	1200	615	32	565	20	26
400	406	1110	565	32	515	16	26
350	381	1020	505	28	460	16	22
300	356	910	445	26	400	12	22
250	330	835	395	26	350	12	22
200	292	725	340	24	295	8	22
150	267	595	285	22	240	8	22
125	254	485	250	22	210	8	18
100	229	470	220	20	180	8	18
80	203	425	200	20	160	8	18
65	190	380	185	18	145	4	18
50	178	365	165	18	125	4	18
40	165	323	150	16	110	4	18
SIZE(NB)	$L^{\pm 2}$	H APPROX	$D\phi^{\pm 2}$	$T^{\pm 2}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 1}$

Face to face as per ANSI

- Face to face, flange detail & other parameter also can be supplied according to customer's requirement.
- Due to continuous development programme design & data subject to change without notice.

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL
2	BONNET	CAST IRON/CAST STEEL
3	WEDGE	CAST IRON/CAST STEEL
4	GLAND	CAST IRON/CAST STEEL
5	STUFFING BOX	CAST IRON/CAST STEEL
6	GLAND PACKING	GRAPHITED ASBESTOS
7	SPINDLE (NON RISING)	HT BRASS/S.S.
8	SEAT RING (RENEWABLE)	BRONZE/SS
9	WEDGE FACING (RENEWABLE)	BRONZE/SS
10	WEDGE NUT	BRONZE/SS
11	GASKET	CAF
12	HAND WHEEL	CAST IRON
13	BOLTS & NUTS	CARBON STEEL
14	INDICATOR	GUN METAL
15	INDICATOR SCALE	BRASS IS:319 TYPE II OR EQUIVALENT

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	40-600

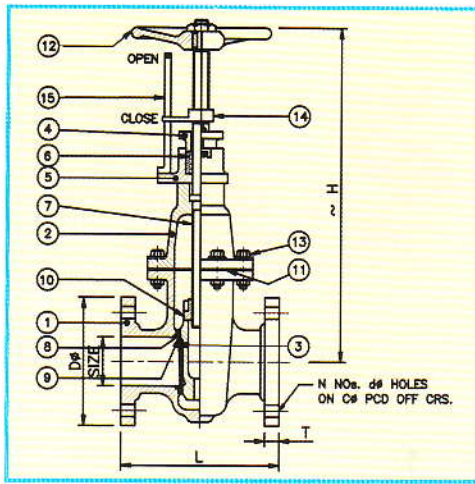
CI/CS BODY NON RISING SPINDLE GATE VALVE



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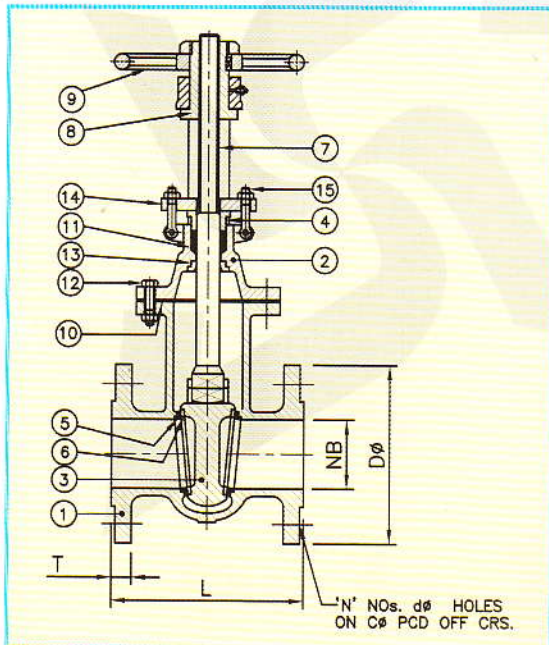


PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET	GUN METAL / NAB
3	WEDGE	GUN METAL / NAB
4	GLAND	GUN METAL / NAB
5	STUFFING BOX	GUN METAL / NAB
6	GLAND PACKING	GRAPHITED ASBESTOS
7	SPINDLE (NON RISING)	S.S.
8	SEAT RING (RENEWABLE)	BRONZE / NAB
9	WEDGE FACING (RENEWABLE)	BRONZE / NAB
10	WEDGE NUT	BRONZE / NAB
11	GASKET	CAF
12	HAND WHEEL	CAST IRON
13	BOLTS & NUTS	CARBON STEEL
14	INDICATOR	GUN METAL
15	INDICATOR SCALE	BRASS IS:319 TYPE II OR EQUIVALENT

300	270	873	445	28	400	12	22
250	250	763	395	25	350	12	22
200	230	662	340	22	295	8	22
150	210	535	285	22	240	8	22
125	200	487	250	19	210	8	18
100	190	428	220	20	180	8	18
80	180	391	200	20	160	8	18
65	170	365	185	18	145	4	18
50	150	343	165	18	125	4	18
40	140	323	165	18	125	4	18
SIZE(NB)	$L^{\pm 2}$	H APPROX	$D\phi^{\pm 2}$	$T^{\pm 2}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 1}$

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	125-300
GM/NAB NON RISING SPINDLE FLANGE END GATE VALVE		



PART LIST

PART No.	DESCRIPTION	MATERIALS
1	BODY	CI/CS/SS
2	BONNET	CI/CS/SS
3	WEDGE	CI/CS/SS
4	GLAND	CI/CS/SS
5	BODY SEAT RING	13% Cr. ST. STEEL/ GUN MET
6	WEDGE SEAT RINGS	13% Cr. ST. STEEL/ GUN MET
7	SPINDLE (RISING)	13% Cr. ST. STEEL/ GUN MET
8	YOKE SLEEVE	CARBON STEEL
9	HAND WHEEL	CS/ MI/ CI
10	GASKET	CAF/ RUBBER
11	GLAND PACKING	GRAPHITE/ JUTE & HEMP
12	BOLTS & NUTS	CARBON STEEL
13	BACK SEAT BUSH	13% Cr. ST. STEEL
14	GLAND FLANGE	CI/CS/SS
15	EYE BOLTS & NUTS	CARBON STEEL

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	40-600
PN-16	PN-10	40-600
Class 150	Class 150	40-600
CI / CS / SS BODY RISING SPINDLE GATE VALVE		

600	508	813	749.3	20	35	47.
550	508	749	692.2	20	35	46.
500	457	698	635	20	32	42.
450	432	635	577.9	16	32	39.
400	406	597	539.8	16	29	36.
350	381	533	476.3	12	29	35.
300	356	483	431.8	12	25	31.
250	330	406	361.9	12	25	30.
200	292	343	298.4	8	22	28.
150	267	279	241.3	8	22	25.
125	254	254	215.9	8	22	23.
100	229	229	190.5	8	19	23.
80	203	191	152.4	4	19	19.
65	190	178	139.7	4	19	17.
50	178	152	120.6	4	19	15.
40	165	127	98.4	4	16	14.
NB	$L^{\pm 3}$	$D\phi^{\pm 2}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 1}$	$T^{\pm 1}$

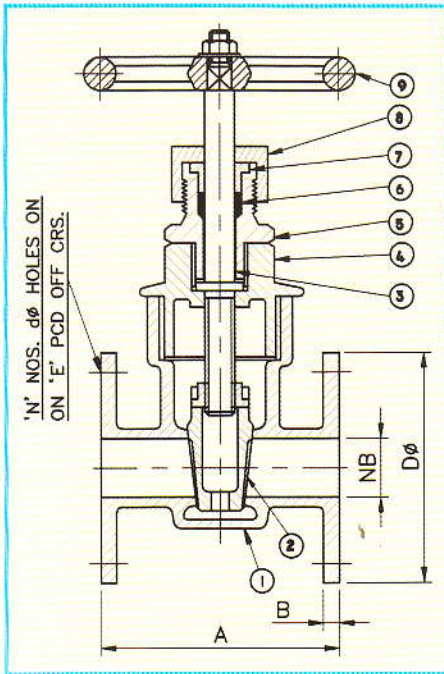


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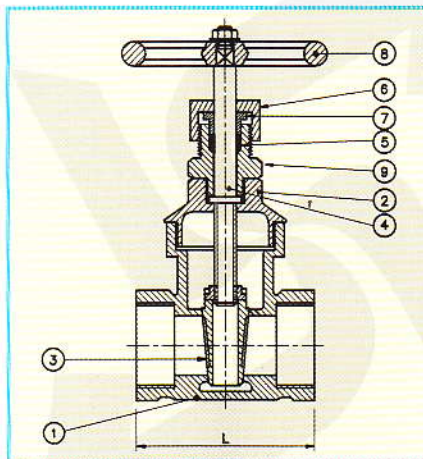


PART LIST

PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GUN METAL / NAB
2	WEDGE (SOLID)	GUN METAL / NAB
3	STEM	H.T. BRASS
4	BONNET	GUN METAL / NAB
5	UNION	GUN METAL / NAB
6	GLAND PACKING	GRAPHITED ASBESTOS ROPE
7	GLAND	GUN METAL / NAB
8	GLAND NUT	GUN METAL / NAB
9	HAND WHEEL	MS / CI

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10 & PN-16	PN-10 & PN-16	15-100
GM/NAB NON RISING SPINDLE FLANGE END GATE VALVE		

100	190	16	220	180	8	18
80	150	13	200	160	8	18
65	140	13	185	145	4	18
50	120	11	165	125	4	18
40	110	9	150	110	4	18
32	100	8	140	100	4	18
25	90	8	115	85	4	14
20	76	6	105	75	4	14
15	72	6	95	65	4	14
NB	A ^{±2}	B ^{±2}	Dø ^{±2}	E ^{±1}	N	dø



PART LIST

PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET	GUN METAL / NAB
3	WEDGE (SOLID)	GUN METAL / NAB
4	STEM	H.T. BRASS
5	GLAND PACKING	GRAPHITED ASBESTOS ROPE
6	GLAND NUT	GUN METAL / NAB
7	GLAND	GUN METAL / NAB
8	HAND WHEEL	CAST IRON
9	UNION	GUN METAL / NAB

100	160	4" BSP.
80	125	3" BSP.
65	105	2-1/2" BSP.
50	100	2" BSP.
40	90	1-1/2" BSP.
32	80	1-1/4" BSP.
25	70	1" BSP.
20	60	3/4" BSP.
15	60	1/2" BSP.
10	50	3/8" BSP.
NB	L ^{±1.5}	END CONN.

Pressure Rating	SIZE(NB)
PN-10 & PN-16	10-100
GM/NAB NON RISING SPINDLE SCREWED END GATE VALVE	

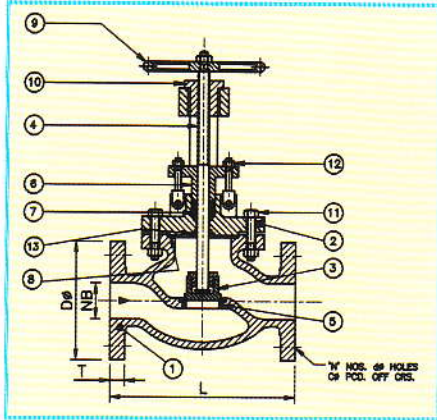
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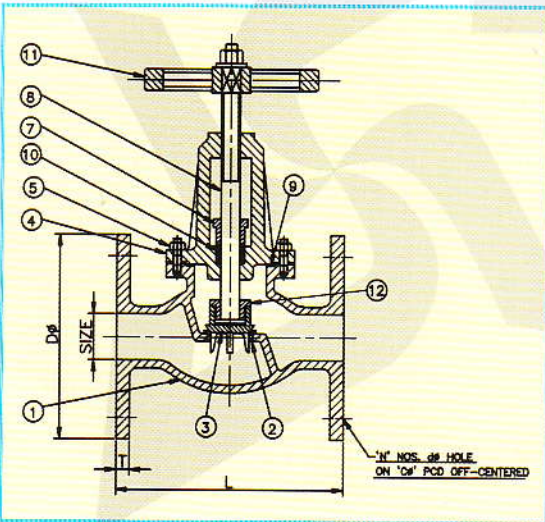
PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON / CAST STEEL
2	BONNET	CAST IRON / CAST STEEL
3	DISC	GUN METAL
4	STEM	SS/HT BRASS
5	SEAT RING	GUN METAL / SS
6	GLAND	CAST IRON / CAST STEEL
7	GLAND PACKING	GRAPHITE ASBESTOS
8	GASKET	CAF
9	HAND WHEEL	CAST IRON
10	YOKE BUSH	CARBON STEEL
11	BOLTS & NUTS	ASTM A193 GR.B7 AND A194 GR.2H
12	EYE BOLTS & NUTS	ASTM A193 GR.B7 AND A194 GR.2H
13	BACK SEAT BUSH	GUN METAL / SS

SIZE (NB)	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L ^{±2}	108	117	127	140	165	203	216	241	292	330	356	495	622	698
Dø ^{±2}	95	105	115	140	150	165	185	200	220	250	285	340	395	445
T ^{±2}	14	16	16	16	16	18	18	20	20	22	22	24	26	26
Cø ^{±1}	65	75	85	100	110	125	145	160	180	210	240	295	350	400
N	4	4	4	4	4	4	4	8	8	8	8	8	12	12
dø ^{±0.5}	14	14	14	18	18	18	18	18	18	18	22	22	22	22

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16/Class 125/Class 150	15-150
PN-10	PN-10/Class 125/Class 150	200-300

CI/CS GLOBE VALVE (ANSI PATTERN)



PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	SEAT RING	GUN METAL / NAB
3	DISC	GUN METAL / NAB
4	COVER WITH BRIDGE	GUN METAL / NAB
5	COVER STUDS & NUTS	SS
6	GLAND STUDS & NUTS	SS
7	GLAND	GUN METAL / NAB
8	SPINDLE	H.T. BRASS
9	COVER GASKET	GRAPHITE ASBESTOS FREE
10	GLAND PACKING	ASBESTOS FREE
11	HAND WHFFL	CAST IRON
12	DISC NUT	GUN METAL / NAB

300	730	445	400	25	12	22
250	600	395	350	22	12	22
200	500	340	295	19	8	22
150	370	285	240	17	8	22
125	320	250	210	17	8	18
100	270	220	180	16	8	18
80	240	200	160	13	8	18
65	200	185	145	13	4	18
50	180	165	125	13	4	18
40	155	150	110	11	4	18
32	150	140	100	10	4	18
25	140	115	85	9	4	14
20	120	105	75	8	4	14
15	120	95	65	8	4	14
SIZE NB	L ^{±3}	Dø ^{±2}	Cø ^{±1}	T ^{±1}	N	dø ^{±1}

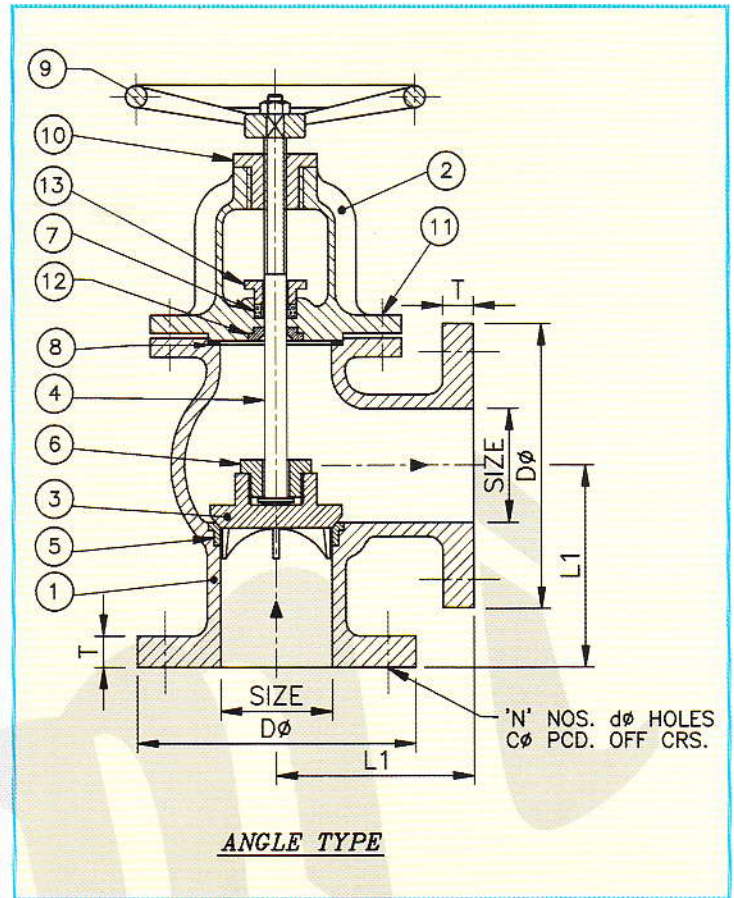
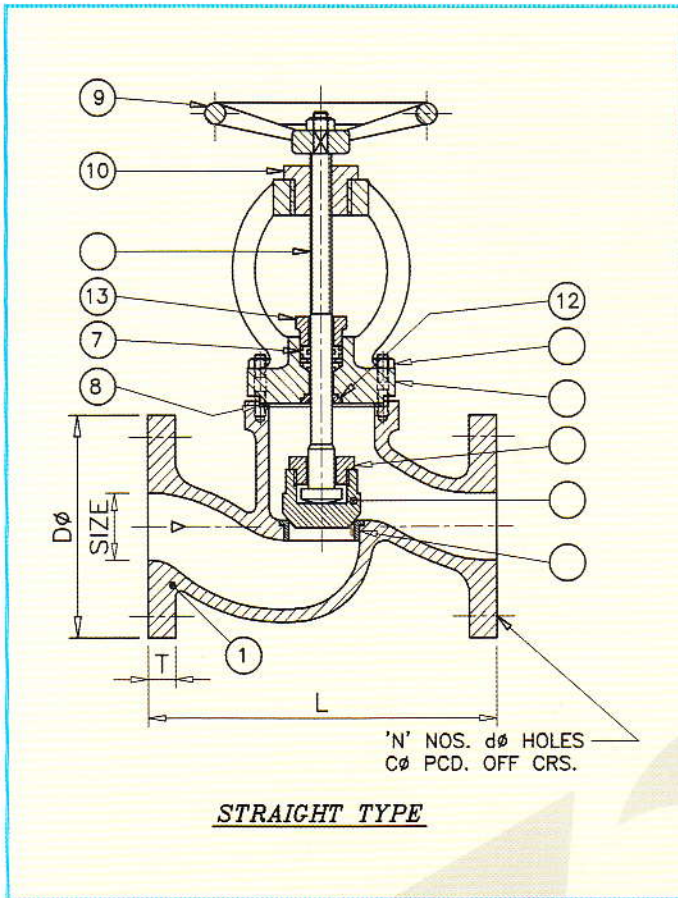
Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300

GM / NAB RISING SPINDLE SD GLOBE VALVE (Straight Type)



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PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL
2	BONNET	CAST IRON/CAST STEEL
3	DISC	GUN METAL/SS
4	STEM	SS/H.T. BRASS
5	SEAT RING	SS/GUN METAL
6	DISC NUT	SS/GUN METAL
7	GLAND PACKING	GRAPHITE ASBESTOS
8	GASKET	CAF
9	HAND WHEEL	CAST IRON
10	YOKE BUSH	SS / GM
11	STUDS & NUTS	CS (CAD PLATED)
12	BACK SEAT BUSH	SS/GUN METAL
13	GLAND	CAST IRON/CAST STEEL

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300

CAST IRON / CAST STEEL BODY SD GLOBE VALVE

300	850	375	445	28	400	12	22
250	730	325	395	26	350	12	22
200	600	275	340	24	295	8	22
150	480	225	285	22	240	8	22
125	400	200	250	22	210	8	18
100	350	175	220	20	180	8	18
80	310	155	200	20	160	8	18
65	290	145	185	18	145	4	18
50	230	125	165	18	125	4	18
40	200	115	150	16	110	4	18
32	180	105	140	16	100	4	18
25	160	100	115	16	85	4	14
20	150	95	105	16	75	4	14
15	130	90	95	14	65	4	14
SIZE (NB)	L ^{±2}	L1 ^{±2}	Dø ^{±1}	T ^{±1}	Cø ^{±0.5}	N	dø

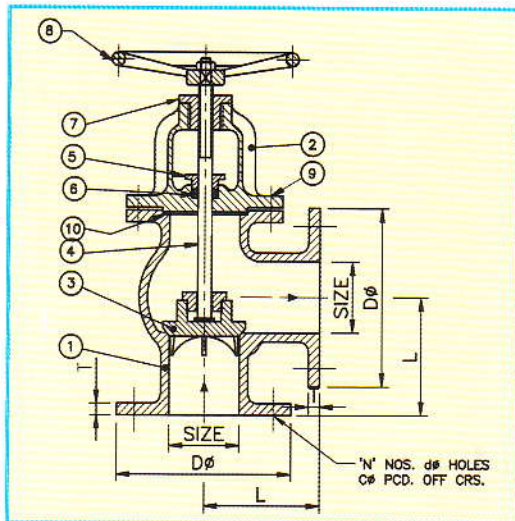
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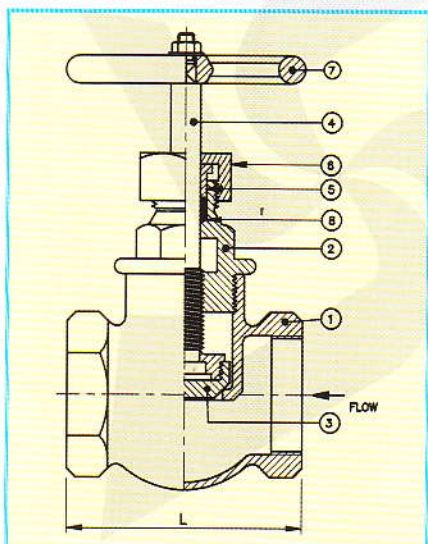
Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300

**GM / NAB RISING SPINDLE SD
GLOBE VALVE (Right Angle Type)**

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET WITH YOKE	GUN METAL / NAB
3	DISC	GUN METAL / NAB
4	STEM	H.T. BRASS
5	GLAND	GUN METAL / NAB
6	GLAND PACKING	GRAPHITED ASBESTOS
7	YOKE BUSH	GUN METAL / NAB
8	HAND WHEEL	CAST IRON
9	BOLTS & NUTS	SS
10	GASKET	COMPRESSED ASBESTOS FIBRE

300	350	445	400	25	12	22
250	300	395	350	22	12	22
200	250	340	295	19	8	22
150	200	285	240	17	8	22
125	170	250	210	17	8	18
100	145	220	180	16	8	18
80	125	200	160	13	8	18
65	115	185	145	13	4	18
50	105	165	125	13	4	18
40	90	150	110	11	4	18
32	90	140	100	10	4	18
25	75	115	85	9	4	14
20	70	105	75	8	4	14
15	65	95	65	8	4	14
SIZE NB	$L^{\pm 3}$	$D\phi^{\pm 2}$	$C\phi^{\pm 1}$	$T^{\pm 2}$	N	$d\phi^{\pm 0.05}$



Pressure Rating	SIZE(NB)
PN-10 & PN-16	10-100

**GM / NAB RISING SPINDLE
SCREWED END GLOBE VALVE**

PART LIST

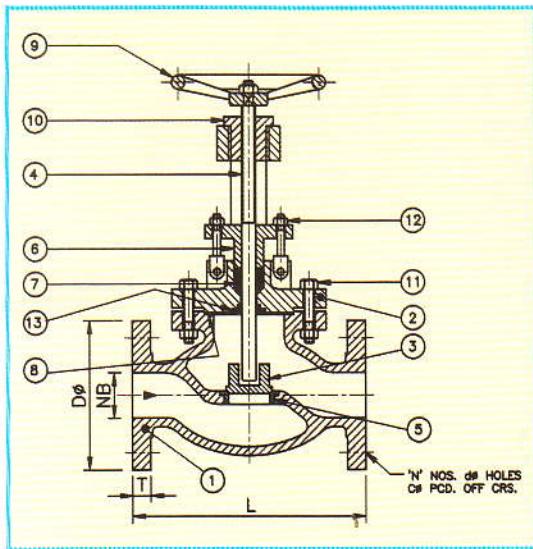
PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET	GUN METAL / NAB
3	VALVE DISC	GUN METAL / NAB
4	STEM	H.T. BRASS
5	GLAND	GUN METAL / NAB
6	GLAND NUT	GUN METAL / NAB
7	HAND WHEEL	CAST IRON
8	GLAND PACKING	GRAPHITED ASBESTOS

100	216	4" BSP.
80	180	3" BSP.
65	160	2-1/2" BSP.
50	125	2" BSP.
40	110	1-1/2" BSP.
32	95	1-1/4" BSP.
25	80	1" BSP.
20	70	3/4" BSP.
15	60	1/2" BSP.
10	50	3/8" BSP.
NB	$L^{\pm 1.5}$	END CONN.



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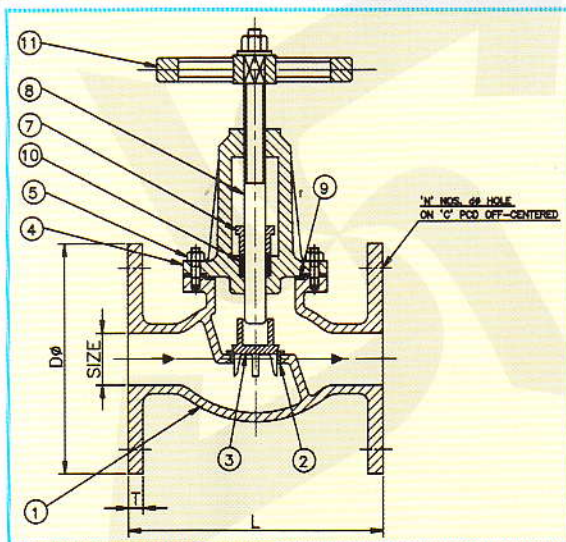
Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16/Class 125/Class 150	15-150
PN-10	PN-10/Class 125/Class 150	200-300

CI/CS SDNR VALVE

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON / CAST STEEL
2	BONNET	CAST IRON / CAST STEEL
3	DISC	GUN METAL
4	STEM	SS / HT BRASS
5	BODY SEAT RING	GUN METAL
6	GLAND	CAST IRON / CAST STEEL
7	GLAND PACKING	GRAPHITE ASBESTOS
8	GASKET	CAF / RUBBER
9	HAND WHEEL	CAST IRON / CAST STEEL
10	YOKE BUSH	CARBON STEEL
11	BOLTS & NUTS	ASTM A193 GR.B7 AND A194 GR.2H
12	EYE BOLTS & NUTS	ASTM A193 GR.B7 AND A194 GR.2H
13	BACK SEAT BUSH	GUN METAL / SS

300	698	445	26	400	12	22
250	622	395	26	350	12	22
200	495	340	24	295	8	22
150	356	285	22	240	8	22
125	330	250	22	210	8	18
100	292	220	20	180	8	18
80	241	200	20	160	8	18
65	218	185	18	145	4	18
50	203	165	18	125	4	18
40	165	150	16	110	4	18
32	140	140	16	100	4	18
25	127	115	16	85	4	14
20	117	105	16	75	4	14
15	108	95	14	65	4	14
SIZE (NB)	$L^{\pm 2}$	$D\phi^{\pm 2}$	$T^{\pm 2}$	$C\phi^{\pm 1}$	N	$d^{\pm 0.5}$



Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300

GM / NAB SDNR VALVE (Straight Type)

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	SEAT RING	GUN METAL / NAB
3	DISC	GUN METAL / NAB
4	COVER WITH BRIDGE	GUN METAL / NAB
5	COVER STUDS & NUTS	SS
6	GLAND STUDS & NUTS	SS
7	GLAND	GUN METAL / NAB
8	SPINDLE	H.T. BRSS
9	COVER GASKET	GRAPHITE ASBESTOS FREE
10	GLAND PACKING	ASBESTOS FREE
11	HAND WHEEL	CAST IRON

300	730	445	400	25	12	22
250	600	395	350	22	12	22
200	500	340	295	19	8	22
150	370	285	240	17	8	22
125	320	250	210	17	8	18
100	270	220	180	16	8	18
80	240	200	160	13	8	18
65	200	185	145	13	4	18
50	180	165	125	13	4	18
40	155	150	110	11	4	18
32	150	140	100	10	4	18
25	140	115	85	9	4	14
20	120	105	75	8	4	14
15	120	95	65	8	4	14
SIZE NB	$L^{\pm 3}$	$D\phi^{\pm 2}$	$C\phi^{\pm 1}$	$T^{\pm 1}$	N	$d^{\pm 0.5}$

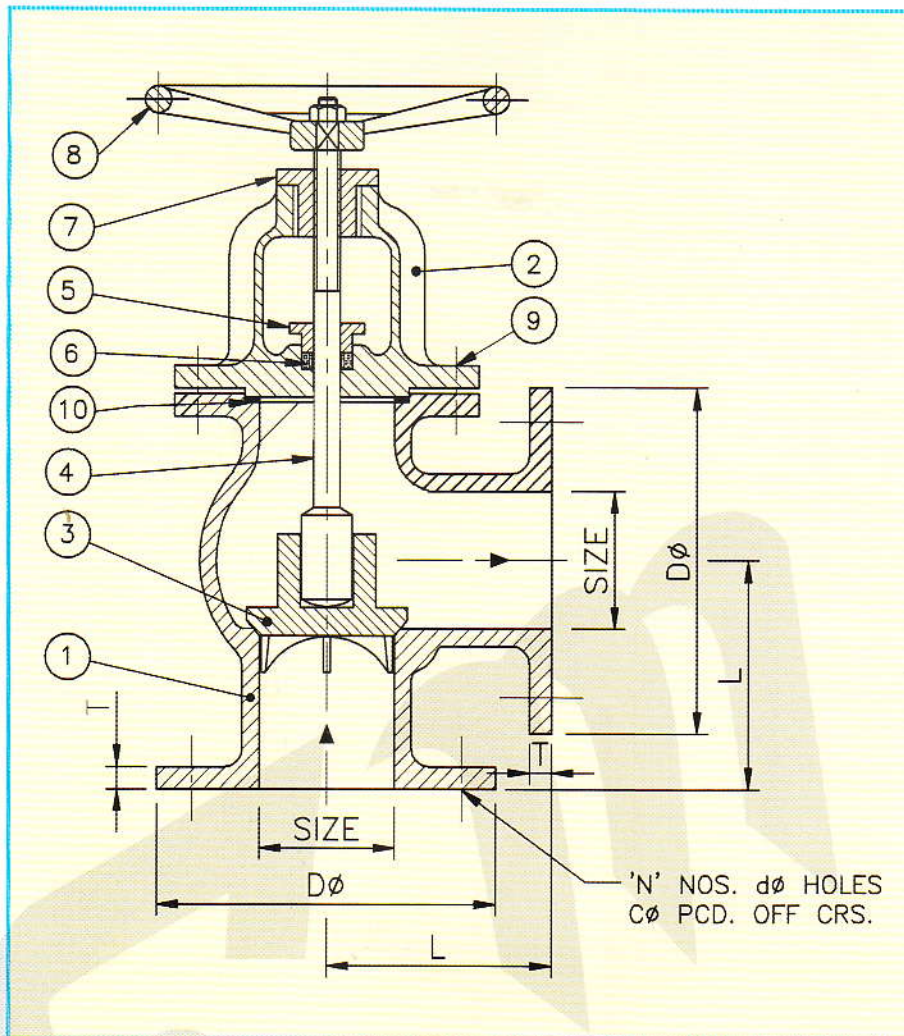
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PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL/NAB
2	BONNET WITH YOKE	GUN METAL/NAB
3	DISC	GUN METAL/NAB
4	STEM	H.T. BRASS
5	GLAND	GUN METAL/NAB
6	GLAND PACKING	GRAPHITED ASBESTOS
7	YOKE BUSH	GUN METAL/NAB
8	HAND WHEEL	CAST IRON
9	BOLTS & NUTS	SS
10	GASKET	COMPRESSED ASBESTOS FIBRE

300	350	445	400	25	12	22
250	300	395	350	22	12	22
200	250	340	295	19	8	22
150	200	285	240	17	8	22
125	170	250	210	17	8	18
100	145	220	180	16	8	18
80	125	200	160	13	8	18
65	115	185	145	13	4	18
50	105	165	125	13	4	18
40	90	150	110	11	4	18
32	90	140	100	10	4	18
25	75	115	85	9	4	14
20	70	105	75	8	4	14
15	65	95	65	8	4	14
SIZE	L	Dø	Cø	T	N	dø
NB	L^{+3}	$Dø^{+2}$	$Cø^{+1}$	T^{+2}	N	$dø^{\pm 0.05}$

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300
GM / NAB SDNR VALVE (Right Angle Type)		

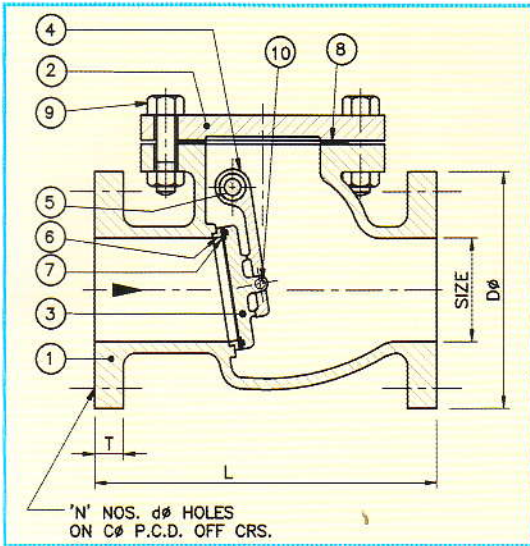


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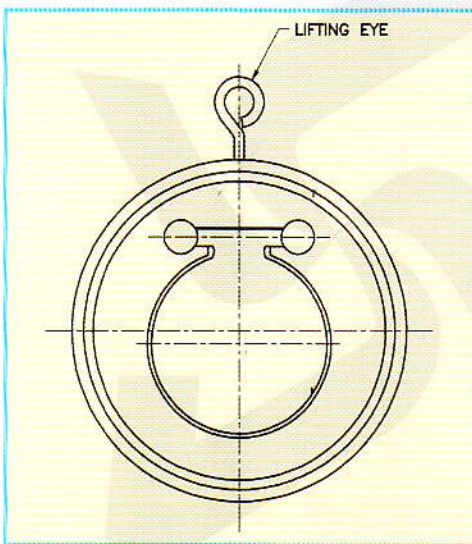
PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/CS
2	COVER	CI/CS
3	DISC	CI/CS/GM
4	HINGE	CI/CS/GM
5	HINGE PIN	BRASS /SS
6	SEAT RING	GUN METAL / SS
7	DISC FACING	GUN METAL / SS
8	GASKET	CAF
9	BOLTS & NUTS	CARBON STEEL
10	DOOR PIN	BRASS / SS

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	40-300
PN-10	PN-10	40-300
CL-125#	CL-125#	40-300

CAST IRON / CAST STEEL BODY SWING TYPE CHECK VALVE

300	698±4	445	28	400	12	22
250	622±3	395	26	350	12	22
200	495±3	340	24	295	8	22
150	356±3	285	22	240	8	22
125	330±2	250	22	210	8	18
100	292±2	220	20	180	8	18
80	241±2	200	20	160	8	18
65	216±2	185	18	145	4	18
50	203±2	165	18	125	4	18
40	180±2	150	16	110	4	18
SIZE(NB)	L	Dø^{±2}	T^{±2}	Cø^{±1}	N	dø^{±0.5}

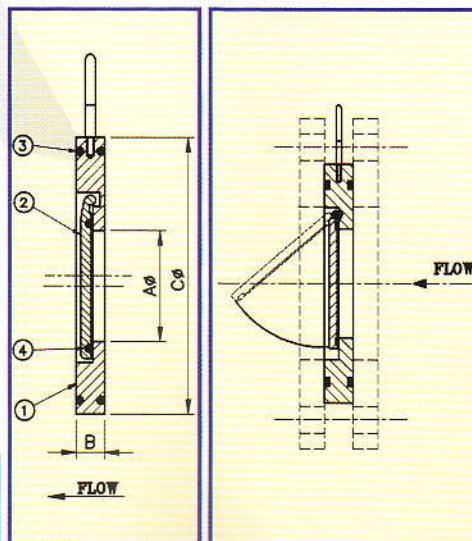


PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL/SS/GUN METAL/NAB
2	DISC	CAST IRON/CAST STEEL/SS/GUN METAL/NAB
3	'O' RING(BODY SEAL)	NBR/EPDM
4	DISC SEAT	NBR/EPDM
5	HINGE PIN	SS

SIZE(NB)	Pressure Rating
40-200	PN-16
250-500	PN-10

**CI / CS / SS / GM / NAB
WAFER TYPE SWING CHECK VALVE**



500	406	61	593	616
450	360	51	538	555
400	310	51	489	496
350	270	44	438	444
300	230	38	379	385
250	200	28	329	329
200	157	28	274	274
150	114	19	219	219
125	93	19	193	193
100	71	19	163	163
80	52	19	143	143
65	40	19	128	128
50	30	19	108	108
40	22	16	93	93
SIZE NB	Aø^{±3}	B^{±1}	PN 10	PN 16
			Cø^{±2}	

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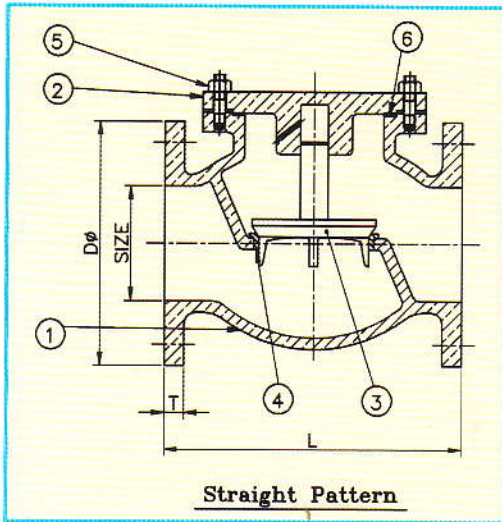


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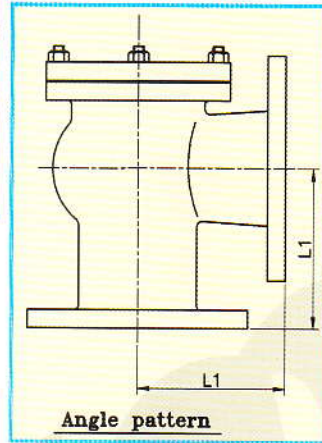
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CHECK VALVE



Straight Pattern



Angle pattern

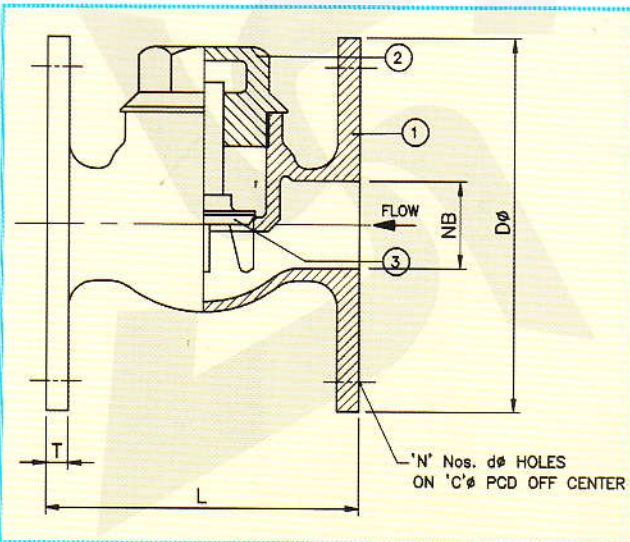
PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET	GUN METAL / NAB
3	DISC	GUN METAL / NAB
4	SEAT RING	GM/NAB/INTEGRAL
5	STUDS & NUTS	H.T. BRASS/SS
3	GASKET	CAF/RUBBER/GRAPHITE

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	

GM / NAB BOLTED BONNET LIFE TYPE CHECK VALVE (Straight Type & Angle Type)

150	370	200	285	240	17	8	22
125	320	170	250	210	17	8	18
100	270	145	220	180	16	8	18
80	240	125	200	160	13	8	18
65	200	115	185	145	13	4	18
50	180	105	165	125	13	4	18
40	155	90	150	110	11	4	18
32	150	90	140	100	10	4	18
25	140	70	115	85	9	4	14
20	120	65	105	75	8	4	14
15	120	65	95	65	8	4	14
SIZE NB	L ^{±2}	L1 ^{±2}	Dφ ^{±2}	Cφ ^{±1}	T ^{±1}	N	d ^{±.5}



PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET	GUN METAL / NAB
3	DISC	GUN METAL / NAB

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-100
PN-10	PN-10	

GM / NAB SCREWED BONNET LIFE TYPE CHECK VALVE (Straight Type)

100	216	220	180	16	8	18
80	185	200	160	13	8	18
65	165	185	145	13	4	18
50	145	165	125	13	4	18
40	120	150	110	11	4	18
32	100	140	100	10	4	18
25	95	115	85	9	4	14
20	85	105	75	8	4	14
15	75	95	65	8	4	14
SIZE NP	L ^{±2}	Dφ ^{±2}	Cφ ^{±1}	T ^{±1}	N	d ^{±.5}

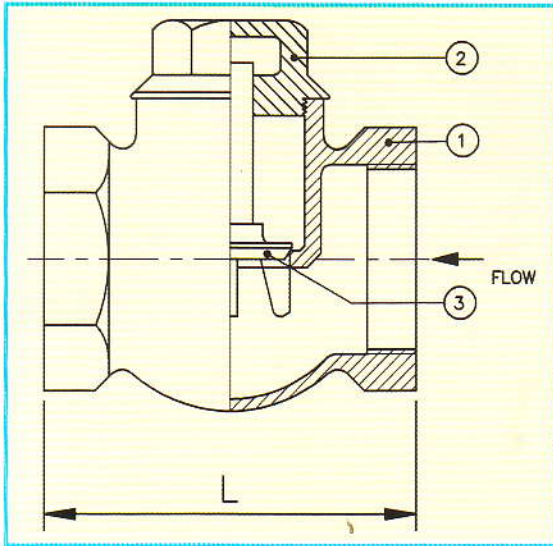


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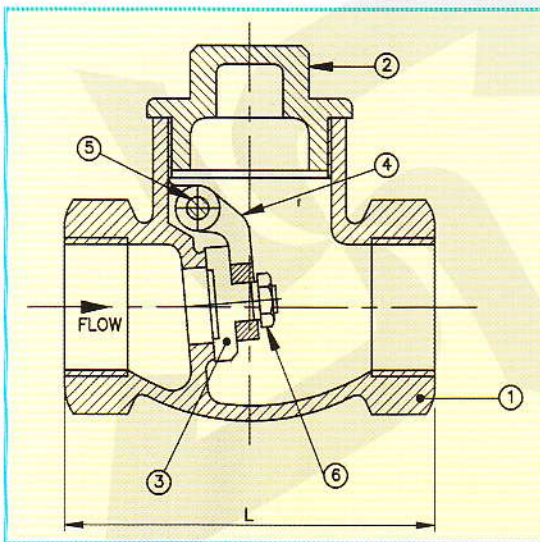
Pressure Rating	SIZE(NB)
PN-16	10-100
PN-10	10-100

GM / NAB SCREWED END LIFE TYPE CHECK VALVE (Straight Type)

PART LIST

PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GUN METAL / NAB
2	BONNET/COVER	GUN METAL / NAB
3	DISC	GUN METAL / NAB

100	216	4" BSP.
80	180	3" BSP.
65	160	2-1/2" BSP.
50	125	2" BSP.
40	110	1-1/2" BSP.
32	95	1-1/4" BSP.
25	80	1" BSP.
20	70	3/4" BSP.
15	60	1/2" BSP.
10	50	3/8" BSP.
NB	L ^{±1.5}	END CONN.



Pressure Rating	SIZE(NB)
PN-16	15-100
PN-10	15-100

GM / NAB SCREWED END SWING TYPE CHECK VALVE

PART LIST

PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GUN METAL / NAB
2	COVER	GUN METAL / NAB
3	DISC	GUN METAL / NAB
4	HINGE	GUN METAL / NAB
5	HINGE PIN	H.T. BRASS
6	CHECK NUT	GUN METAL / NAB

80	210	3" BSP.
65	180	2-1/2" BSP.
50	150	2" BSP.
40	125	1-1/2" BSP.
32	105	1-1/4" BSP.
25	95	1" BSP.
20	75	3/4" BSP.
15	65	1/2" BSP.
NB	L ^{±1.5}	END CONN.

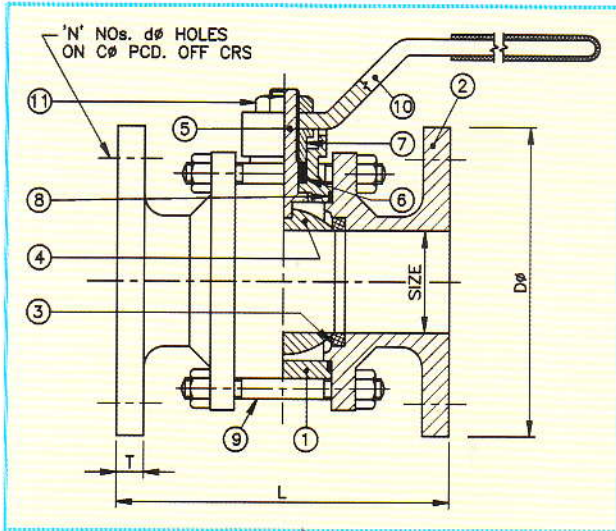
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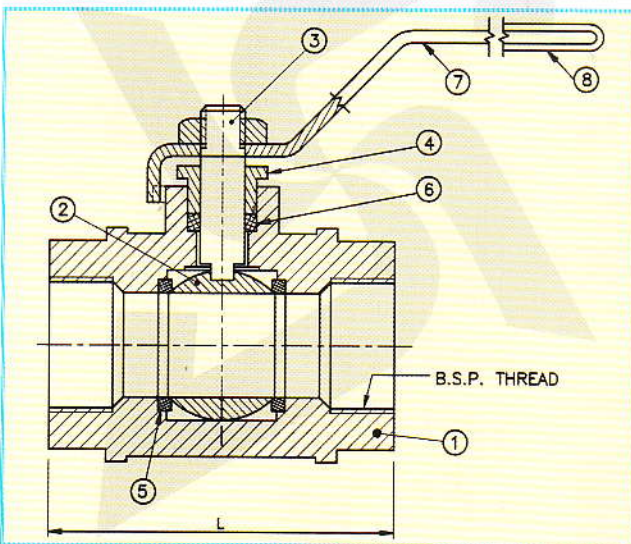
PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL/SS
2	BODY CONNECTOR	CAST IRON/CAST STEEL/SS
3	SEAT	PTFE
4	BALL	SS
5	SPINDLE	SS
6	PACKING	PTFE
7	GLAND	CS/SS
8	GASKET	PTFE
9	STUDS & NUTS	CS/SS
10	LEVER	MS/SS WITH PVC SLEEVE
11	LOCKNUT	CS/SS

SIZE(NB)	Pressure Rating	Flange Drilling
15-100	PN-16 PN-10 Class 150#	PN-16 PN-10 ANSI B16.5

CI / CS / SS BALL VALVE

100	229	229	23.9	190.5	8	19
80	203	191	23.9	152.4	4	19
65	190	178	22.3	139.7	4	19
50	178	152	19.1	120.6	4	19
40	165	127	17.5	98.4	4	16
32	140	115	15.7	88.9	4	16
25	127	108	14.3	79.4	4	16
20	117	98	12.7	69.9	4	16
15	108	89	11.1	60.3	4	16
SIZE NB	L^{±2}	Dø^{±2}	T^{±2}	Cø^{±1}	N	dø^{±1}



PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL/SS
2	BALL	SS
3	STEM	SS
4	GLAND	CS/SS
5	SEAT	PTFE
6	PACKING	PTFE
7	LEVER	MS/SS
8	LEVER SLEEVE	P.V.C.

SIZE(NB)	Pressure Rating
15-50	PN-16 PN-10 Class 150#

CI / CS / SS SCREWED END BALL VALVE

50	120
40	100
32	92
25	85
20	70
15	65
10	52
SIZE NB	L^{±2}

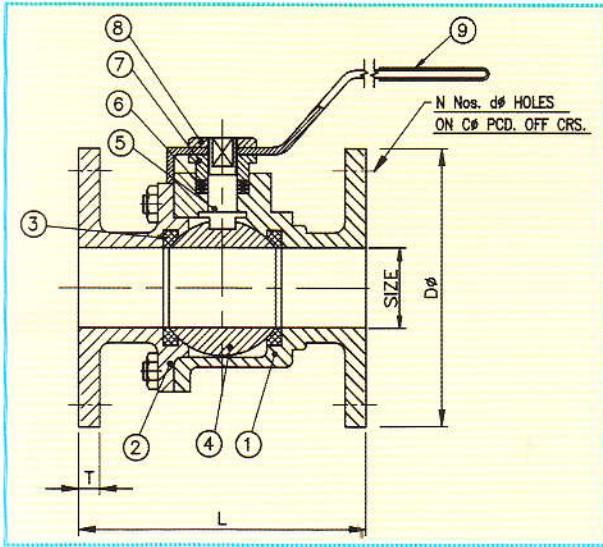


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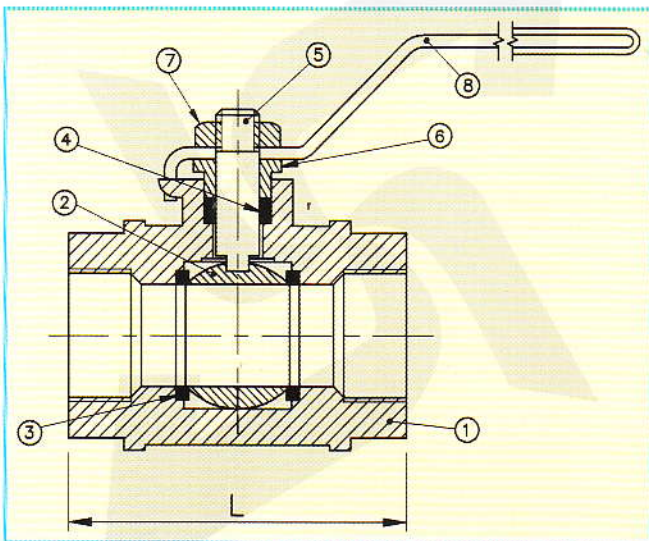


PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BODY CONNECTOR	GUN METAL / NAB
3	SEAT	PTFE
4	BALL	SS
5	SPINDLE	SS
6	GLAND PACKING	PTFE
7	GLAND	SS
8	SPINDLE NUT	CARBON STEEL
9	LEVER WITH PVC SLEEVE	CARBON STEEL

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16 PN-10	PN-10 / PN-16	15-100
GUN METAL / NAB BALL VALVE		

100	225	220	180	16	8	18
80	190	200	160	13	8	18
65	172	185	145	13	4	18
50	162	165	125	11	4	18
40	137	150	110	9	4	18
32	123	140	100	8	4	18
25	106	115	85	8	4	14
20	96	105	75	6	4	14
15	84	95	65	6	4	14
SIZE NB	$L^{\pm 2}$	$D\phi^{\pm 2}$	$C\phi^{\pm 1}$	$T^{\pm 2}$	N	$d^{\pm 0.5}$



PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	BALL	SS / BRASS
3	SEAT RING	PTFE
4	GLAND PACKING	PTFE
5	STEM	SS / FORGED BRASS
6	GLAND	GUN METAL / NAB
7	LEVER NUT	SS 304
8	LEVER WITH PP GRIP COVER	MS

SIZE(NB)	Pressure Rating
15-50	PN-16 PN-10
GM METAL / NAB SCREWED END BALL VALVE	

50	120
40	100
32	90
25	75
20	65
15	60
10	60
SIZE NB	$L^{\pm 3}$

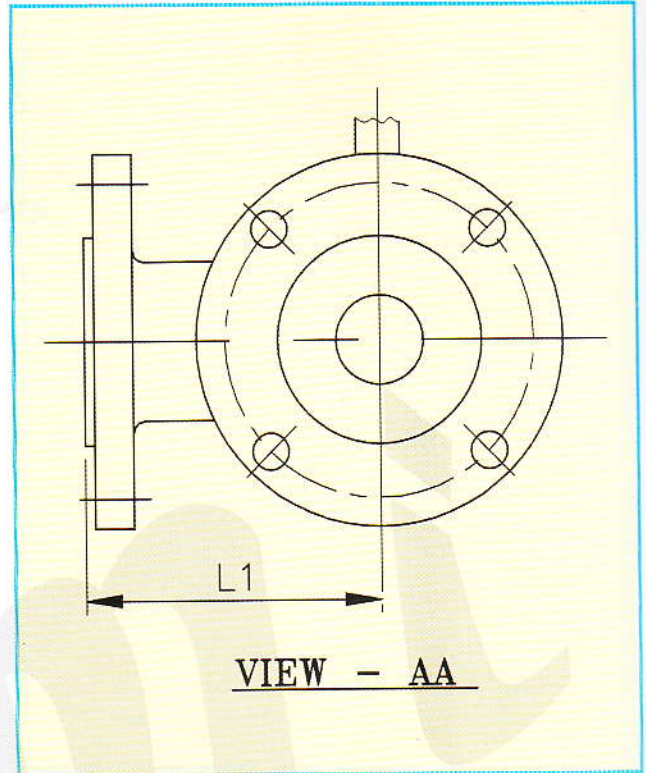
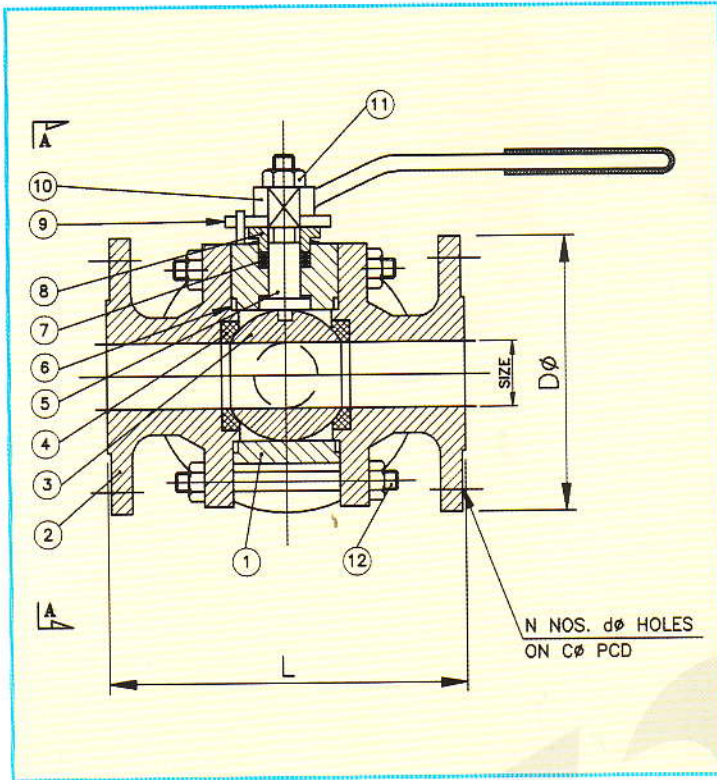
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PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/CS/SS/GM/NAB
2	BODY CONNECTOR	CI/CS/SS/GM/NAB
3	SEAT	PTFE
4	BALL	SS
5	SPINDLE	SS
6	PACKING	PTFE
7	GLAND	CS/SS
8	GASKET	PTFE
9	STUDS & NUTS	CS/SS
10	LEVER	MS/SS WITH PVC SLEEVE
11	LOCKNUT	CS/SS

150	267	201	285	240	8	22
125	254	190	250	210	8	18
100	229	152	220	180	8	18
80	203	141	200	160	8	18
65	190	120	185	145	4	18
50	178	108	165	125	4	18
40	165	95	150	110	4	18
32	140	89	140	100	4	18
25	127	82	115	85	4	14
20	117	76	105	75	4	14
15	108	70	95	65	4	14
SIZE NB	L ^{±2}	L1 ^{±2}	Dφ ^{±2}	Cφ ^{±1}	N	dφ

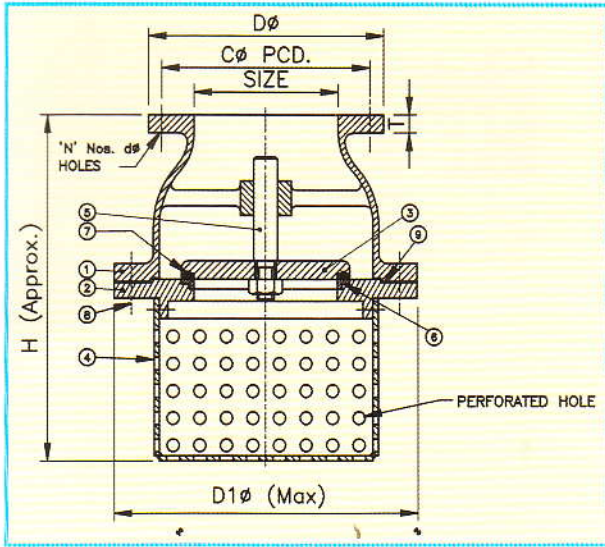
SIZE(NB)	Pressure Rating	Flange Drilling
15-150	PN-16	PN-16
	PN-10	PN-10
	Class 150#	ANSI B16.5

CI / CS / SS / GM / NAB 3-WAY BALL VALVE
'L' TYPE / 'T' TYPE



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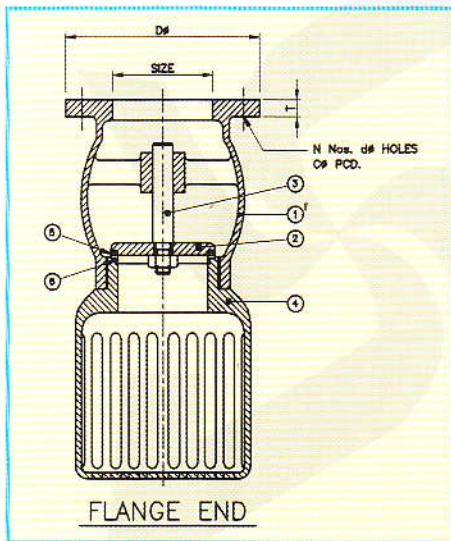
Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16/Class 125/Class 150	15-150
PN-10	PN-10/Class 125/Class 150	200-300

CI / CS FOOT VALVE

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	HOUSING	CAST IRON / CAST STEEL
2	SEAT DISC	CAST IRON / CAST STEEL
3	DISC PLATE	CAST IRON / CAST STEEL
4	STRAINER	M.S. (GALVANISED) IS:2062
5	DISC GUIDE PIN	AISI 410
6	SEAT RING	BRONZE
7	DISC FACING	NITRILE RUBBER
8	BOLTS & NUTS	CARBON STEEL
9	GASKET	RUBBER

300	750	485	445	26	400	12	22
250	625	420	395	26	350	12	22
200	580	360	340	24	295	8	22
150	380	300	285	22	240	8	22
125	340	270	250	22	210	8	18
100	290	230	220	20	180	8	18
80	240	210	200	20	160	8	18
65	220	190	185	18	145	4	18
50	160	170	165	18	125	4	18
40	150	160	150	16	110	4	18
32	140	150	140	16	100	4	18
25	120	140	115	16	85	4	14
SIZE (NB)	D1φ (Max)	H	Dφ ^{±2}	T ^{±2}	Cφ ^{±1}	N	dφ ^{±0.5}

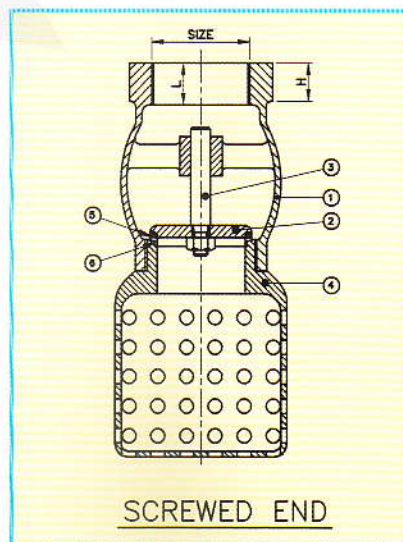


Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	25-150

GUN METAL / NAB / SS FOOT VALVE

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB / SS
2	DISC	GUN METAL / NAB / SS
3	DISC GUIDE PIN	GUN METAL / NAB / SS
4	STRAINER	GUN METAL / BRASS / SS
5	DISC FACING	SYNTHETIC RUBBER
6	SEAT RING	GUN METAL / SS



150	26	26	285	17	240	8	22
125	26	26	250	17	210	8	18
100	26	26	220	16	180	8	18
80	22	22	200	13	160	8	18
65	20	20	185	13	145	4	18
50	16	16	165	13	125	4	18
40	14	14	150	11	110	4	18
32	14	14	140	10	100	4	18
25	12	12	115	9	85	4	14
SIZE (NB)	H (Min.)	L (Min.)	Dφ ^{±2}	T ^{±2}	Cφ ^{±1}	N	dφ ^{±0.5}

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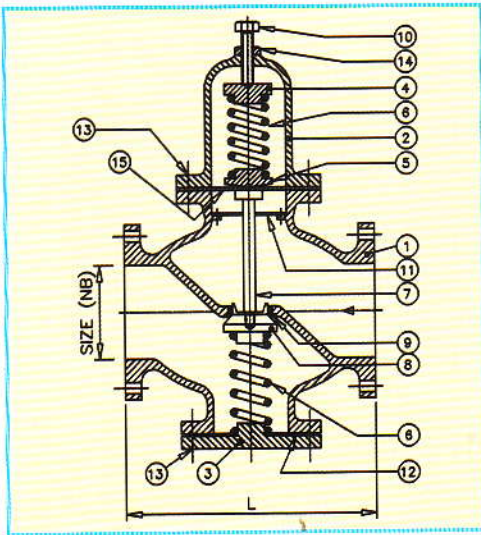


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PRESSURE REDUCING VALVE

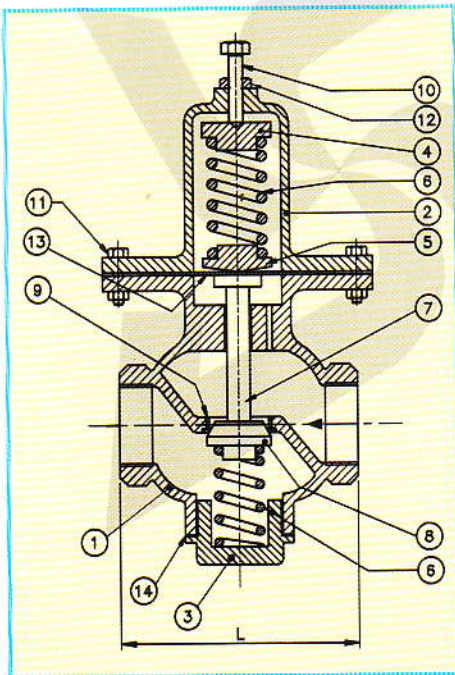


PART LIST

PART	DESCRIPTION	MATERIAL
1	BODY	CS/SS/GM/NAB
2	TOP COVER	CS/SS/GM/NAB
3	BOTTOM COVER	CS/SS/GM/NAB
4	SPRING HOLDER	CS/SS/GM/NAB
5	SPRING HOLDER	CS/SS/GM/NAB
6	SPRING	SPRING STEEL /SS
7	STEM	H.T. BRASS IS:320
8	DISC	CS/SS/GM/NAB
9	SEAT RING	SS/GM/NAB
10	ADJUSTING SCREW	SS / GM
11	STEM GUIDE	CS/SS
12	GASKET	ASBESTOS FREE
13	BOLTS & NUTS	SS 304
14	LOCK NUT	SS 304
15	DIAPHRAGM	SS 304

Pressure Rating	Flange Drilling	SIZE(DN)
PN-10 , PN-16	PN-10	25-150
CLASS-150#/300#	PN-16	
CS / SS / GM / NAB FLANGED END PRESSURE REDUCING VALVE		

150	406.5
100	292
80	241.5
65	216
50	203
40	165
25	127
SIZE NB	L ⁺²



PART LIST

PART	DESCRIPTION	MATERIAL
1	BODY	GUN METAL / NAB
2	TOP COVER	CAST IRON / GUN METAL
3	BOTTOM COVER	GUN METAL / NAB
4	SPRING HOLDER TOP	GUN METAL / NAB
5	SPRING HOLDER BOTTOM	GUN METAL / NAB
6	SPRING	SPRING STEEL/SS
7	STEM	HT BRASS
8	DISC	GUN METAL / NAB
9	SEAT RING	GUN METAL / NAB
10	ADJUSTING SCREW	MS IS:1367
11	BOLTS & NUTS	MS IS:1367
12	LOCK NUT	SS CAD PLATED
13	DIAPHRAGM	SS
14	GASKET	CAF / RUBBER

Pressure Rating	SIZE(DN)
PN-10 & PN-16	15-50
GM / NAB SCREWED END PRESSURE REDUCING VALVE	

50	2"	170
40	1-1/2"	137
32	1-1/4"	133
25	1"	114
20	3/4"	108
15	1/2"	76
SIZE NB	SCRD. END	L ⁺³



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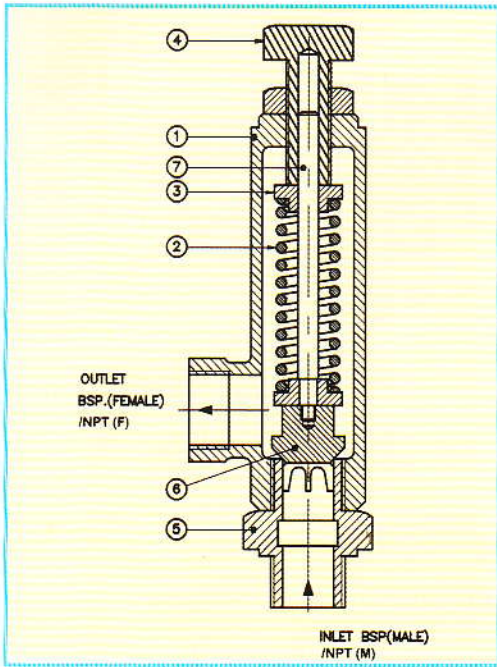
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PART LIST

PART No.	DESCRIPTION	MATL.
1	BODY	GUN METAL / NAB
2	SPRING	SPRING STEEL
3	SPRING DISC	GUN METAL / NAB
4	PRESSURE ADJUSTING SCREW	GUN METAL / NAB
5	SPIGOT	GUN METAL / NAB
6	DISC	GUN METAL / NAB
7	SPINDLE	H.T. BRASS

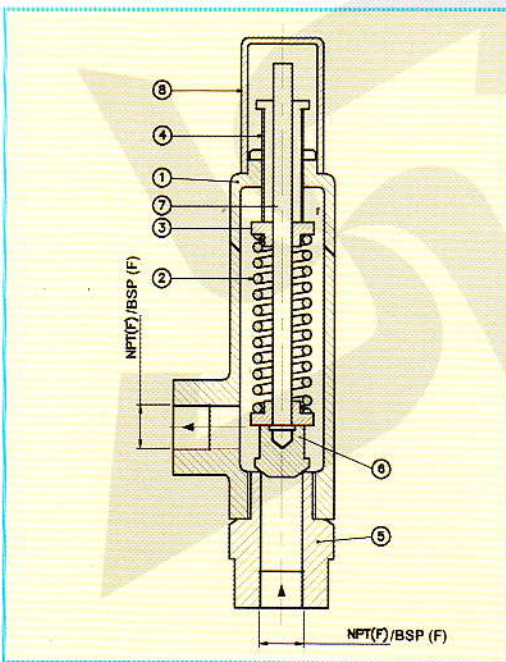


GUN METAL / NAB SCREWED END PRESSURE SAFETY / RELIEF VALVE

50	2"
40	1-1/2"
32	1-1/4"
25	1"
20	3/4"
15	1/2"
NB	END CONN.

PART LIST

PART No.	DESCRIPTION	MATL.
1	BODY	SS
2	SPRING	SPRING STEEL / SS
3	SPRING DISC	SS
4	PRESSURE ADJUSTING SCREW	SS
5	SPIGOT	SS
6	DISC	SS
7	SPINDLE	SS
8	COVER	SS



SS SCREWED END PRESSURE SAFETY / RELIEF VALVE

50	2" BSP.
40	1-1/2" BSP.
32	1-1/4" BSP.
25	1" BSP.
20	3/4" BSP.
15	1/2" BSP.
NB	END CONN.

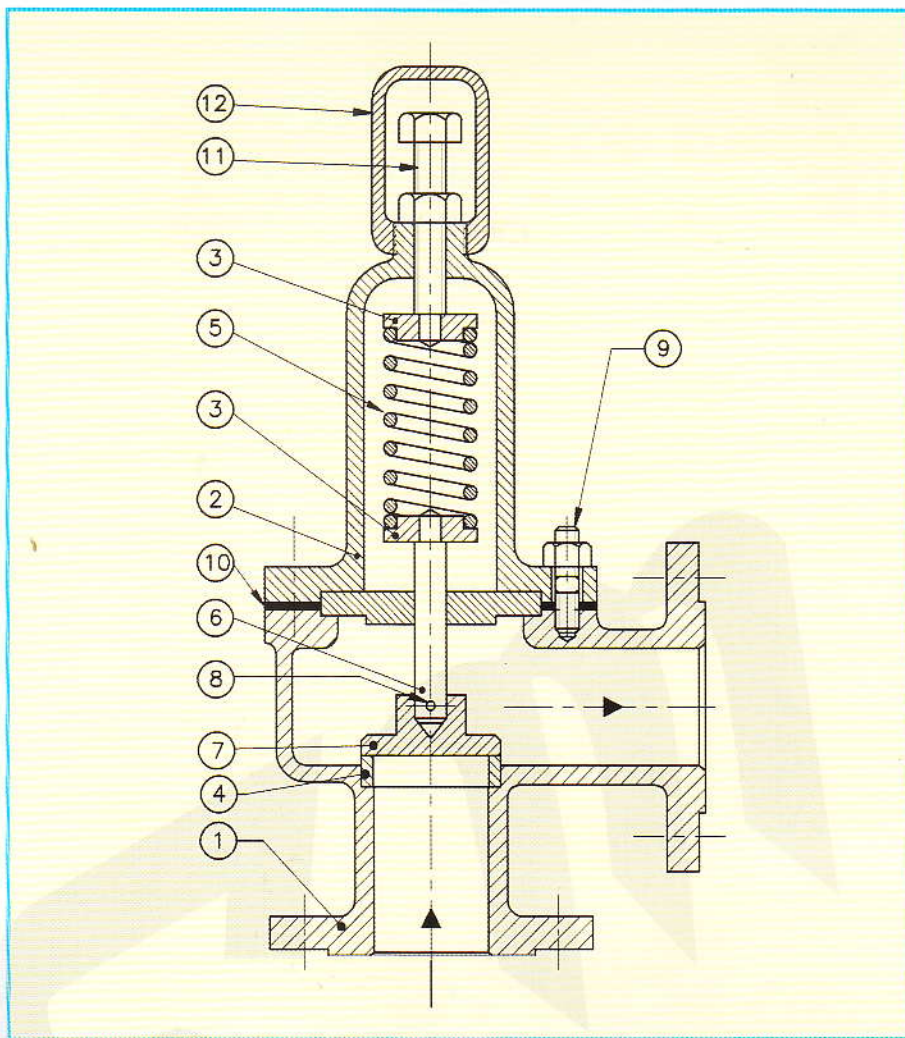
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PART LIST

PART No.	DESCRIPTION	MATL. & SPEC.
1	BODY	CS / SS / GM / NAB
2	BONNET	CS / SS / GM / NAB
3	SPRING HOLDER	CS / SS / GM / NAB
4	SEAT RING	SS / GM / NAB
5	SPRING	SPRING STEEL (CS) / SS
6	STEM	SS / BRASS
7	DISC	SS / GM
8	PIN	SS
9	STUDS & NUTS	CS / SS
10	GASKET	CAF
11	ADJUSTABLE SCREW	SS / GM
12	CAP	CARBON STEEL

CS / SS / GM / NAB FLANGED END PRESSURE SAFETY / RELIEF VALVE

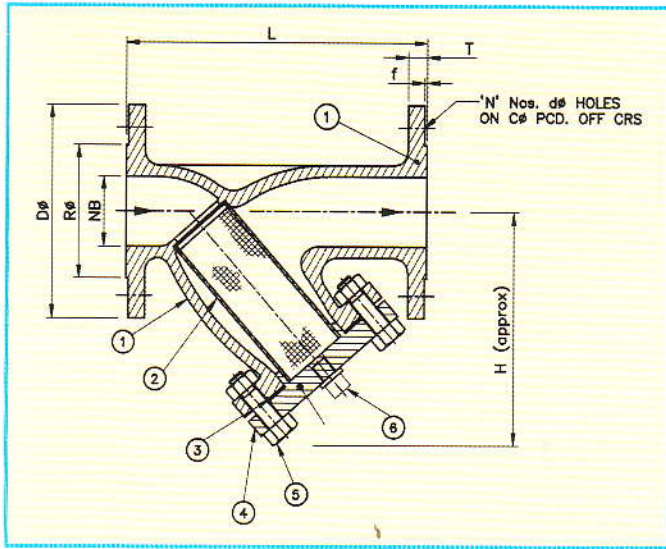


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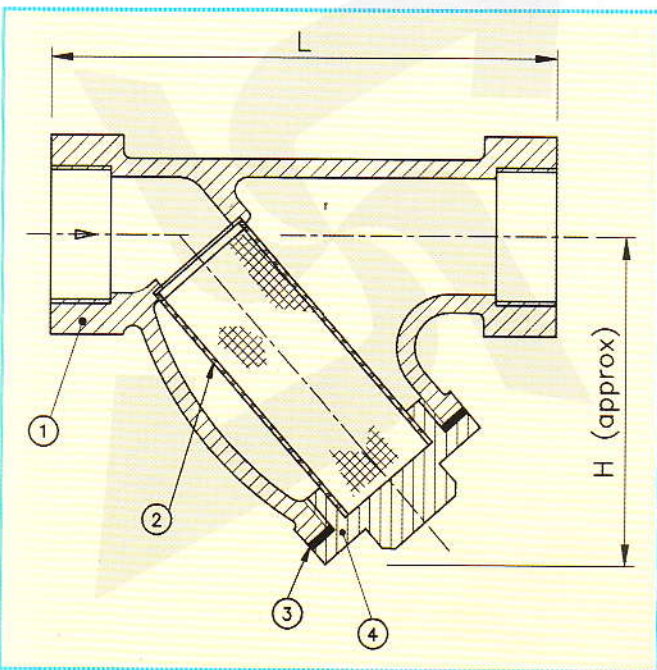


Pressure Rating PN-10 /PN-16 /Class 150#	Flange Drilling PN-10/PN-16 /Class 150#	SIZE(DN) 15-300
CI / CS 'Y' TYPE STRAINER		

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/CS
2	SCREEN	SS
3	GASKET	RUBBER
4	COVER	CI/CS
5	BOLTS & NUTS	CARBON STEEL
6	DRAIN PLUG	MS

300	850	720	483	31.8	431.8	12	25	381	1.6
250	730	600	406	30.2	361.9	12	25	324	1.6
200	600	485	343	28.6	298.4	8	22	270	1.6
150	480	350	279	25.4	241.3	8	22	216	1.6
125	400	335	254	23.9	215.9	8	22	186	1.6
100	350	285	229	23.9	190.5	8	19	157	1.6
80	310	245	191	23.9	152.4	4	19	127	1.6
65	290	200	178	22.3	139.7	4	19	105	1.6
50	230	150	152	19.1	120.6	4	19	92	1.6
40	200	125	127	17.5	98.4	4	16	73	1.6
32	180	110	117	15.9	88.9	4	16	64	1.6
25	160	110	108	14.3	79.4	4	16	51	1.6
20	150	110	98	12.7	69.9	4	16	43	1.6
15	130	85	89	11.1	60.3	4	16	35	1.6
NB	$L^{\pm 2}$	H APPROX	$D\phi^{\pm 2}$	$T^{\pm 1}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 0.5}$	$R\phi^{\pm 1}$	f



Pressure Rating PN-10 & PN-16	SIZE(DN) 15-50
CI / CS SCREWED END 'Y' TYPE STRAINER	

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CI / CS
2	SCREEN	SS
3	GASKET	RUBBER
4	COVER	CI/CS

50	216	150
40	173	140
32	160	130
25	146	110
20	105	90
15	95	80
SIZE NB	$L^{\pm 3}$	H APPROX

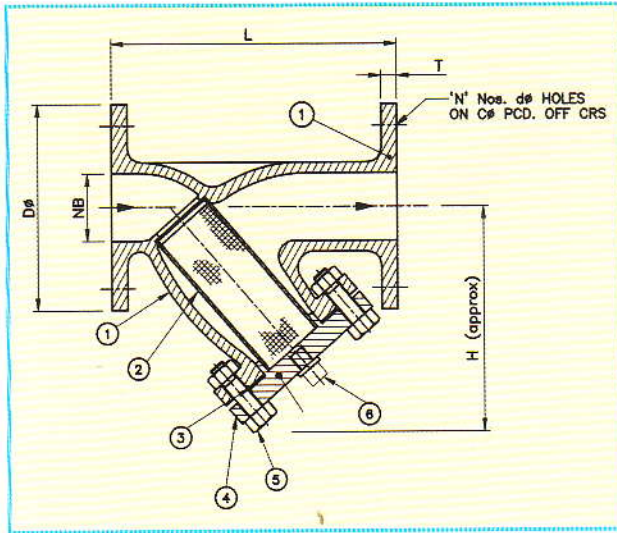
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'Y' TYPE STRAINER

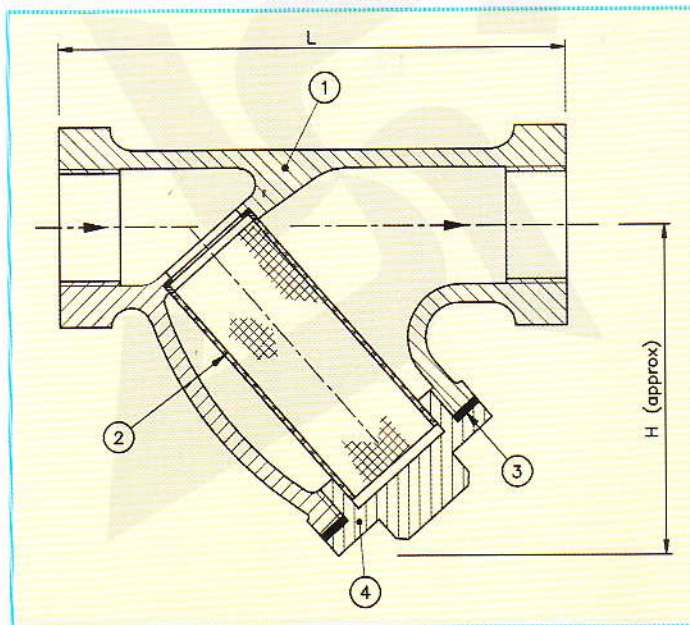


PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL/NAB/SS
2	SCREEN	SS / BRASS
3	GASKET	RUBBER
4	COVER	GUN METAL / NAB / SS
5	BOLTS & NUTS	CARBON STEEL / SS
6	DRAIN PLUG	GUN METAL

Pressure Rating	Flange Drilling	SIZE(DN)
PN-10 /PN-16	PN-10/PN-16	15-300
SS / GM / NAB 'Y' TYPE STRAINER		

300	850	720	483	25	431.8	12	25	381	1.6
250	730	600	406	22	361.9	12	25	324	1.6
200	600	485	343	19	298.4	8	22	270	1.6
150	480	350	279	17	241.3	8	22	216	1.6
125	400	335	254	17	215.9	8	22	186	1.6
100	350	285	229	16	190.5	8	19	157	1.6
80	310	245	191	13	152.4	4	19	127	1.6
65	290	200	178	13	139.7	4	19	105	1.6
50	230	150	152	13	120.6	4	19	92	1.6
40	200	125	127	11	98.4	4	16	73	1.6
32	180	110	117	10	88.9	4	16	64	1.6
25	160	110	108	9	79.4	4	16	51	1.6
20	150	110	98	8	69.9	4	16	43	1.6
15	130	85	89	8	60.3	4	16	35	1.6
NB	$L^{\pm 2}$	H APPROX	$D\phi^{\pm 2}$	$T^{\pm 1}$	$C\phi^{\pm 1}$	N	$d\phi^{\pm 0.5}$	$R\phi^{\pm 1}$	f



PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	SS/GM/NAB
2	SCREEN	SS / BRASS
3	GASKET	RUBBER
4	COVER	SS/GM/NAB

Pressure Rating	SIZE(DN)
PN-10 /PN-16	15-50
SS / GM / NAB SCREWED END 'Y' TYPE STRAINER	

50	150	100
40	120	83
32	110	67
25	90	62
20	75	50
15	65	44
SIZE	$L^{\pm 2}$	H APPROX

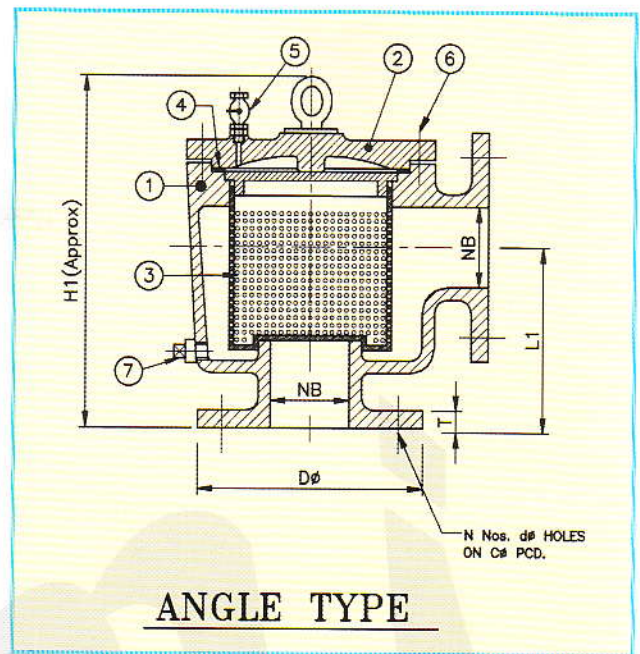
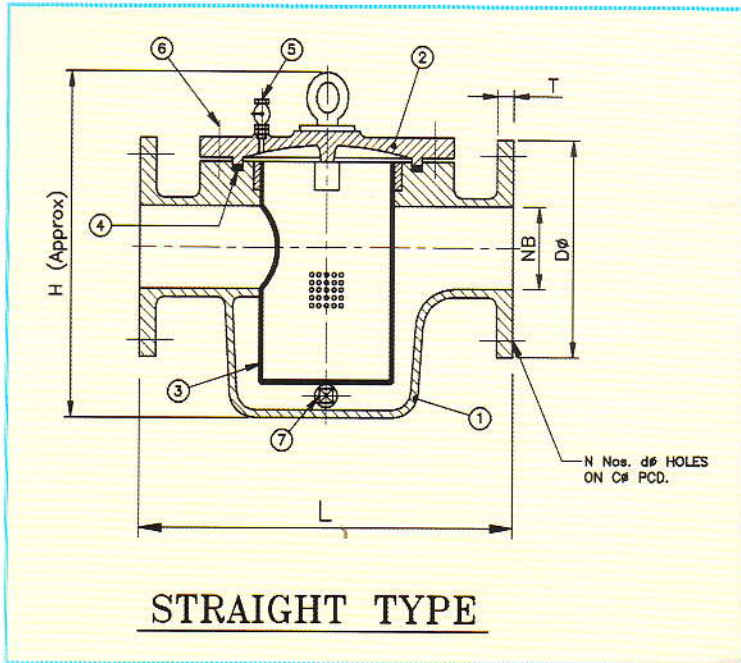


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PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	GUN METAL / NAB
2	COVER	GUN METAL / NAB
3	SCREEN	BRASS
4	GASKET	C A F
5	VENT COCK	GUN METAL
6	BOLTS & NUTS	SS 304
7	DRAIN PLUG	BRASS

300	850	425	795	775	445	400	25	12	22
250	730	390	645	650	395	350	22	12	22
200	600	300	580	500	340	295	19	8	22
150	480	270	468	489	285	240	17	8	22
125	400	220	418	407	250	210	17	8	18
100	350	195	339	369	220	180	16	8	18
80	310	175	299	318	200	160	13	8	18
65	290	150	263	288	185	145	13	4	18
50	230	135	224	253	165	125	13	4	18
40	200	125	202	238	150	110	11	4	18
SIZE NB	L ^{±3}	L1 ^{±3}	H	H1	Dφ ^{±2}	Cφ ^{±1}	T ^{±2}	N	dφ ^{±5}

Pressure Rating	Flange Drilling	SIZE(DN)
PN-10	PN-10	40-450
GM / NAB MUD BOX / FILTER / STRAINER		

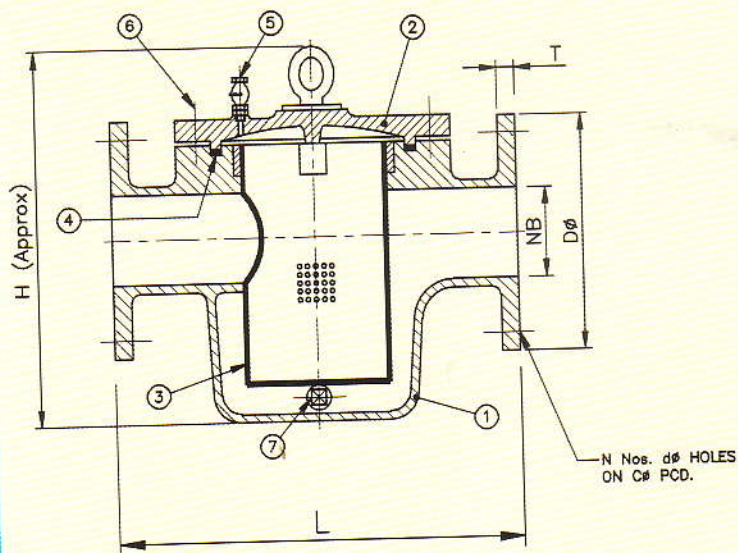
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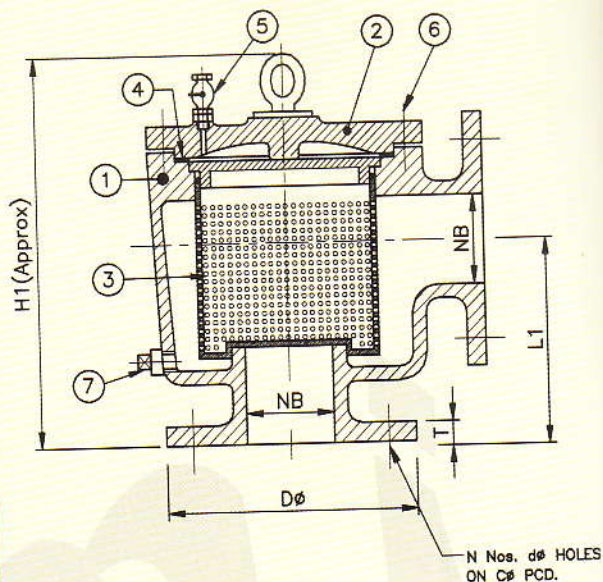
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STRAIGHT TYPE



ANGLE TYPE

PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON
2	COVER	CAST IRON
3	SCREEN	SS
4	GASKET	C A F
5	VENT COCK	GUN METAL
6	BOLTS & NUTS	SS 304
7	DRAIN PLUG	BRASS

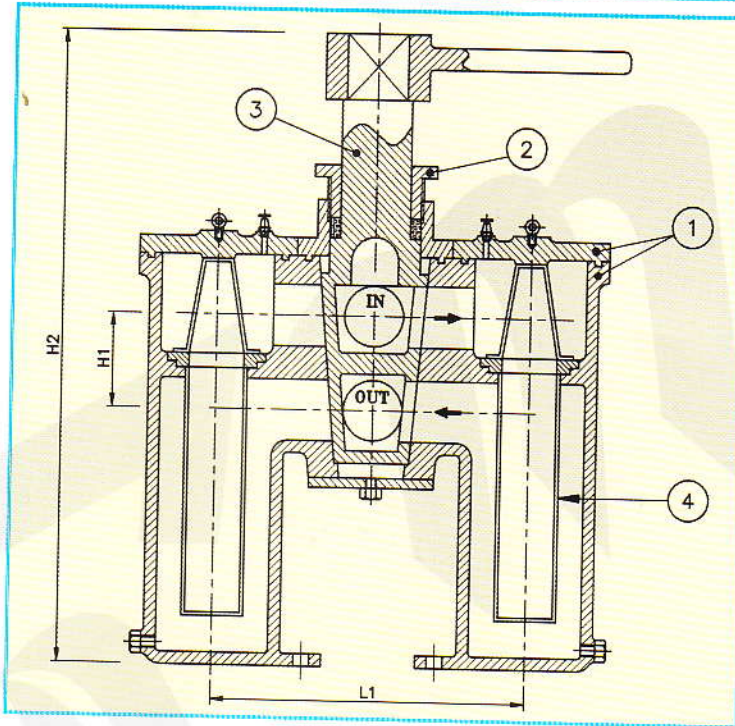
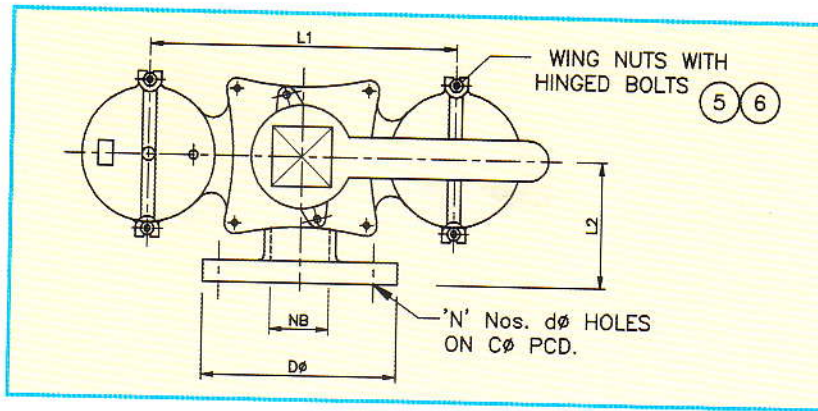
450	1200	625	930	1035	615	565	31.5	20	28
400	1100	625	930	1035	565	515	30	16	26
350	980	600	845	970	505	460	28	16	22
300	850	425	795	775	445	400	26	12	22
250	730	390	645	650	395	350	26	12	22
200	600	300	580	500	340	295	24	8	22
150	480	270	468	489	285	240	22	8	22
125	400	220	418	407	250	210	22	8	18
100	350	195	339	369	220	180	20	8	18
80	310	175	299	318	200	160	20	8	18
65	290	150	263	288	185	145	18	4	18
50	230	135	224	253	165	125	18	4	18
40	200	125	202	238	150	110	16	4	18
SIZE NB	L ^{±3}	L1 ^{±3}	H	H1	Dφ ^{±2}	Cφ ^{±1}	T ^{±2}	N	dφ ^{±1}

Pressure Rating	Flange Drilling	SIZE(DN)
PN-10	PN-10	40-450
CAST IRON MUD BOX		



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PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY & COVER	CI/CS/SS/GM/NAB
2	VALVE RELEASE NUT	CI/CS/SS/GM/NAB
3	VALVE	CI/CS/SS/GM/NAB
4	SCREEN ELEMENT	SS 304
5	SWING BOLTS	MS
6	WING NUTS	MS

SIZE(NB)	Pressure Rating	Flange Drilling
20-125	PN-10	PN-10
CS / SS / GM NAB DUPLEX STRAINER		

125	500	185	250	950	250	210	8	18
100	415	135	220	730	220	180	8	18
80	335	120	200	595	200	160	8	18
65	320	110	185	540	185	145	4	18
50	260	105	165	450	165	125	4	18
40	220	100	150	405	150	110	4	18
32	190	90	140	365	140	100	4	18
25	160	90	115	295	115	85	4	14
20	160	90	115	295	105	75	4	14
NB	L1 ^{±3}	L2 ^{±3}	H1 approx	H2 approx	Dø ^{±2}	Cø ^{±1}	N	dø ^{±1}

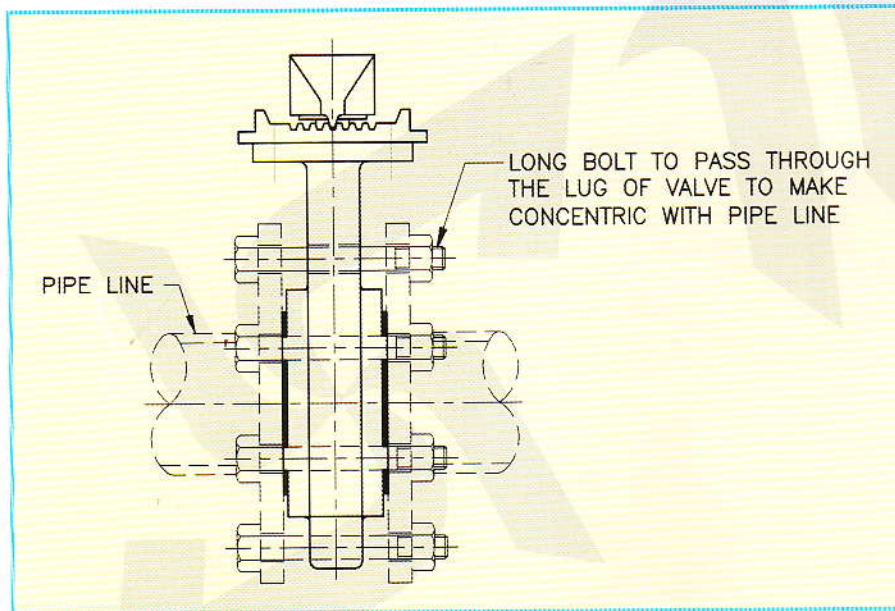
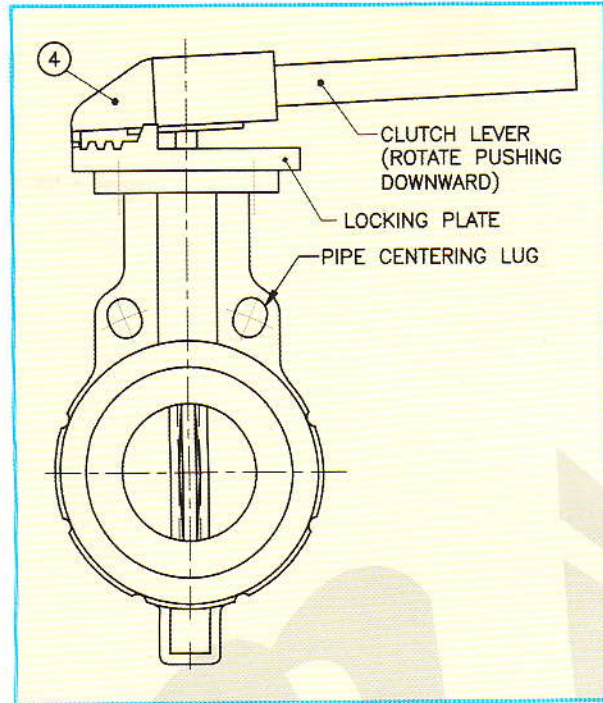
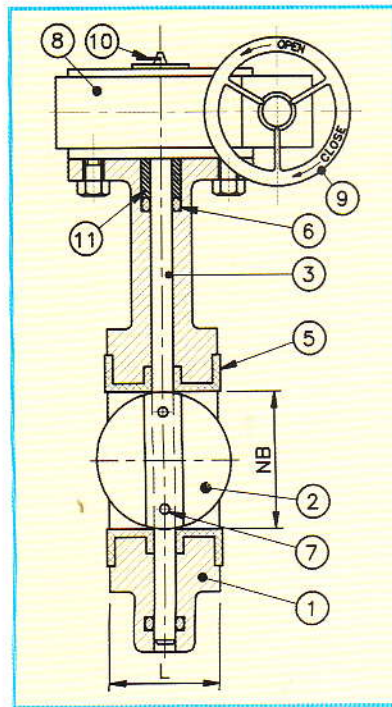
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600	GEAR	154
500		127
400		102
350		92
300		78
250	LEVER	68
200		60
150		56
125		56
100		52
80		46
65		46
50		43
40	33	
SIZE	OPERATOR	L ^{±2}

PART LIST

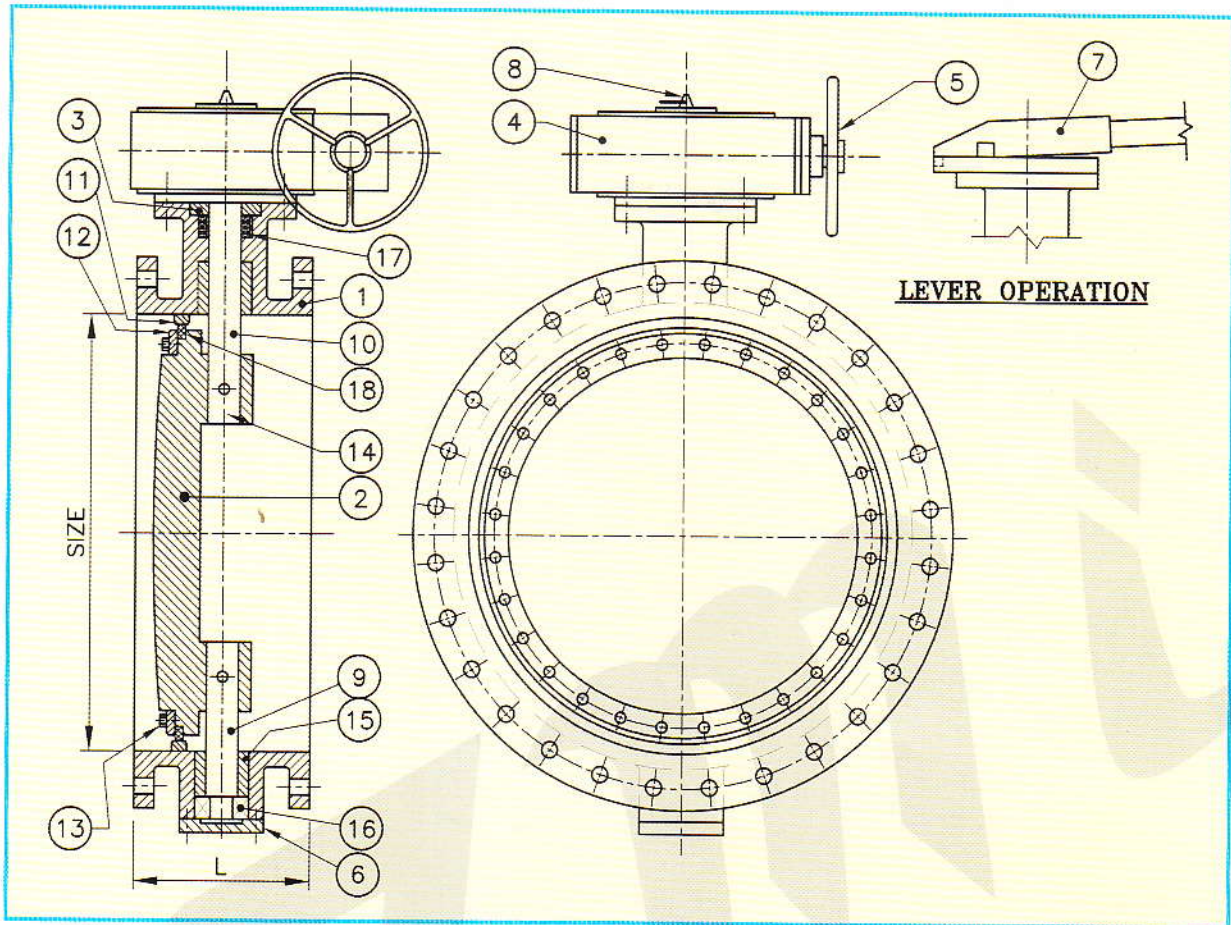
PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/DI/CS/SS/GM/NAB
2	DISC	CI/DI/CS/SS/GM/NAB
3	SHAFT	SS
4	LEVER	C.S./M.S.
5	SEATING/LINNER	NITRILE/NEOPRENE/EPDM/NBR
6	'O' RING	NITRILE/NEOPRENE/EPDM/NBR
7	PIN	SS
8	GEAR BOX	CI
9	HAND WHEEL	CI
10	INDICATOR	ALUMINIUM
11	BUSH	GM / NYLON

Pressure Rating	Fitting between flanges	SIZE(NB)
PN-10 PN-16	PN-10 PN-16 ANSI B16.5 CL.150#	40-600
CI / CS / DI / SS / NAB WAFER TYPE BUTTERFLY VALVE		



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PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/DI/CS/SS/GM/NAB
2	DISC	CI/DI/CS/SS/GM/NAB
3	SPACER	CS/SS
4	GEAR BOX	CI/CS
5	HAND WHEEL	CI
6	END COVER	CS/SS
7	LEVER	CS/MS
8	INDICATOR	ALUMINIUM
9	VALVE SHAFT DRIVEN	SS
10	VALVE SHAFT DRIVING	SS
11	BODY SEAT RING	SS
12	SEAT RETAINER PLATE	SS
13	SET SCREW	SS
14	FIXING BOLT	SS
15	BUSHES	GM
16	THRUST BLOCK	GM
17	SAFT SEAL	RUBBER
18	DISC SEAL	NITRILE/NEOPRENE/EPDM

OPERATOR	LEVER OPERATED										GEAR OPERATED											
	L	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±2	±2	±2	±2	±2	±2	±2	±3	±3	±3
SIZE	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600

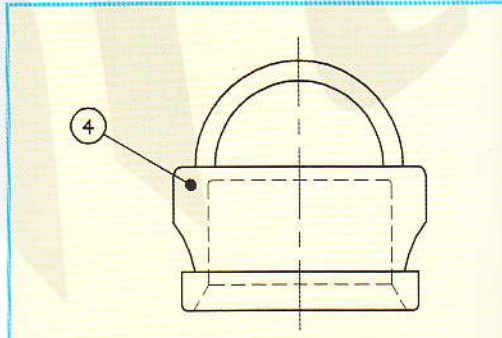
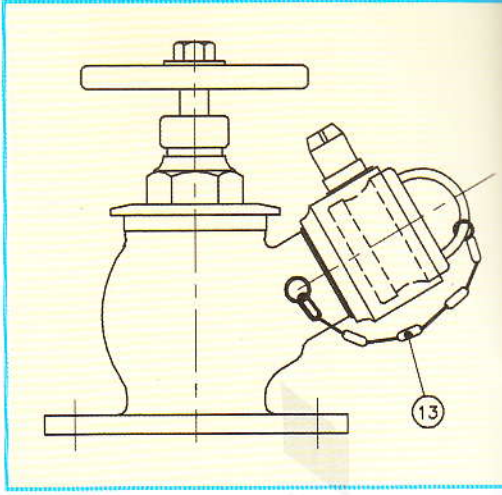
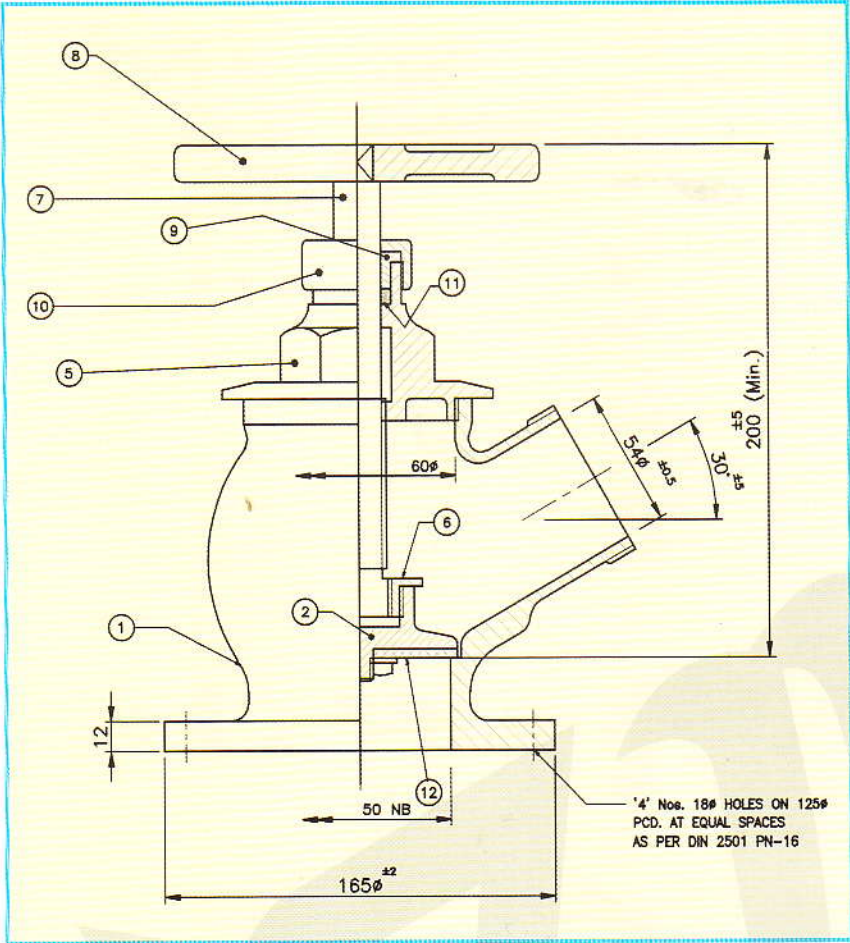
**CI / DI / CS / SS / GM / NAB BODY
FLANGED BUTTERFLY VALVE**

- Face to face, flange detail & other parameter also can be supplied according to customer's requirement.
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FIRE HYDRANT VALVE



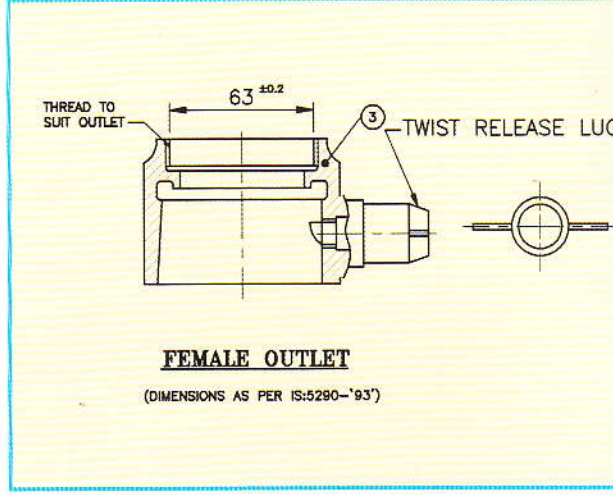
BLANK CAP

(DIMENSIONS AS PER IS:5290-'93')

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GM / NAB /SS
2	STOP VALVE	GM / NAB /SS
3	FEMALE COUPLING(63 mm)	GM / NAB /SS
4	BLANK CAP	PVC
5	BONNET	GM / NAB /SS
6	CHECK NUT	GM / NAB /SS
7	SPINDLE	HT BRASS
8	HAND WHEEL	CAST IRON
9	GLAND	GM / NAB /SS
10	GLAND NUT	GM / NAB /SS
11	GLAND PACKING	GRAPHITED ASBESTOS ROPE
12	VALVE FACING	NEOPRENE RUBBER
13	CHAIN	STEEL

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10 & PN-16	PN-10 & PN-16	50 & 65
GM / NAB / SS FIRE HYDRANT VALVE (ANGLE PATTERN)		



FEMALE OUTLET

(DIMENSIONS AS PER IS:5290-'93')

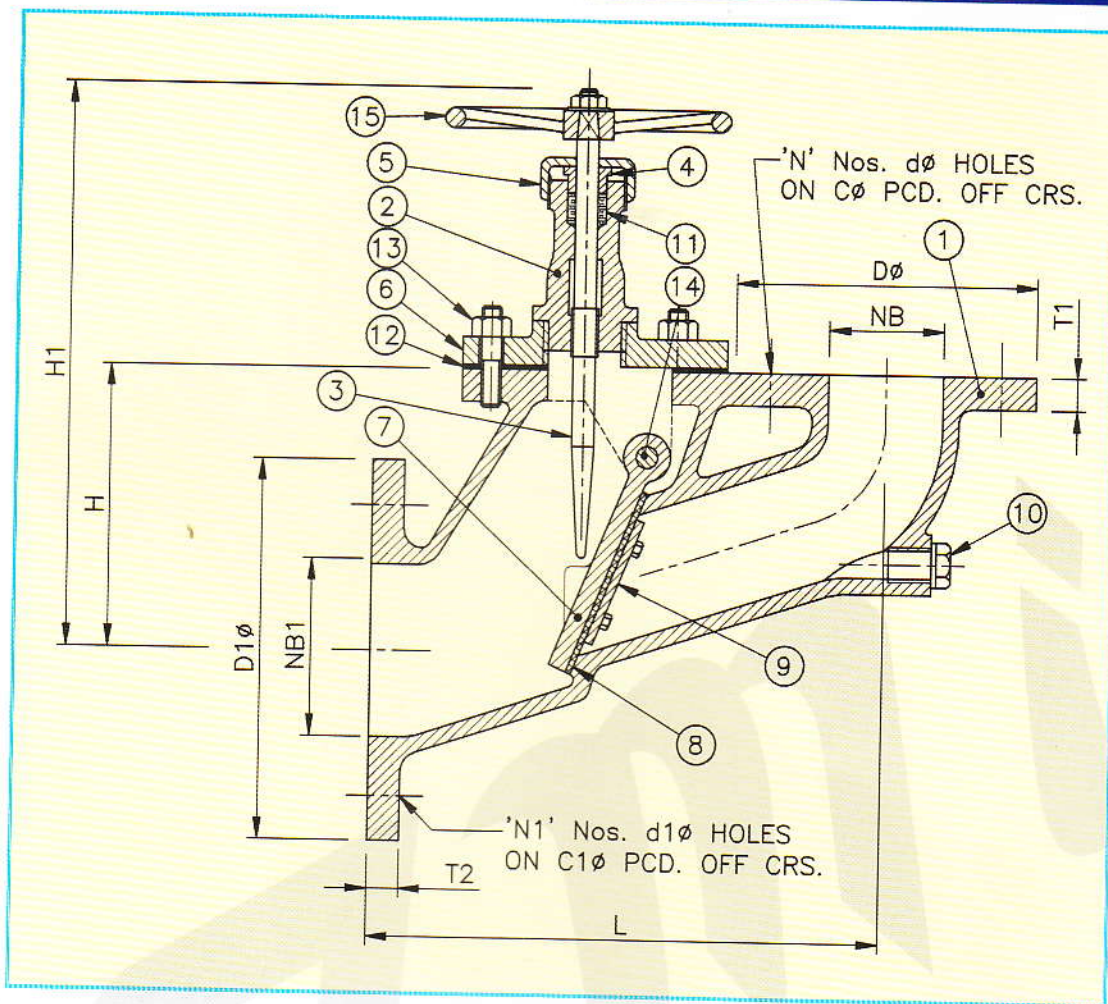


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PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST STEEL / GUN METAL / NAB
2	BONNET	CAST STEEL / GUN METAL / NAB
3	SPINDLE	SS / H.T.BRASS
4	GLAND	CAST STEEL / GUN METAL / NAB
5	GLAND CAP	CAST STEEL / GUN METAL / NAB
6	COVER	CAST STEEL / GUN METAL / NAB
7	FLAP	CAST STEEL / GUN METAL / NAB
8	FLAP SOLE	NEOPRENE RUBBER
9	FLAP WASHER	CAST STEEL / GUN METAL
10	PLUG	CAST STEEL / GUN METAL
11	GLAND PACKING	GREASY HEMP/GRAPHITED ASBESTOS
12	COVER PACKING	C.A.F.
13	STUDS & NUTS	SS / H.T.BRASS
14	HINGE PIN	SS/ BRASS
15	HAND WHEEL	CAST IRON IS:210 FG 200

150	285	8	22	240	175	315	8	22	270	18	20	345	200	356
125	250	8	18	210	150	285	8	22	240	16	20	315	180	340
100	220	8	18	180	125	250	8	18	210	16	20	270	155	286
80	200	8	18	160	100	220	8	18	180	15	17	240	130	260
65	185	4	18	145	85	200	8	18	160	13	15	220	120	250
50	165	4	18	125	70	185	4	18	145	11	13	200	105	235
NB	D ϕ ^{±2}	N	d ϕ ^{±0.5}	C ϕ ^{±1}	NB1	D1 ϕ ^{±2}	N1	d1 ϕ ^{±0.5}	C1 ϕ ^{±1}	T1 ^{±1}	T2 ^{±1}	L ^{±3}	H	H1

Pressure Rating	Flange Drilling	SIZE(NB)
PN-10	PN-10	50-150

**CS / GM / NAB STORM VALVE
(SCREW DOWN ANGLE TYPE)**

Face to face, flange detail & other parameter also can be supplied according to customer's requirement.

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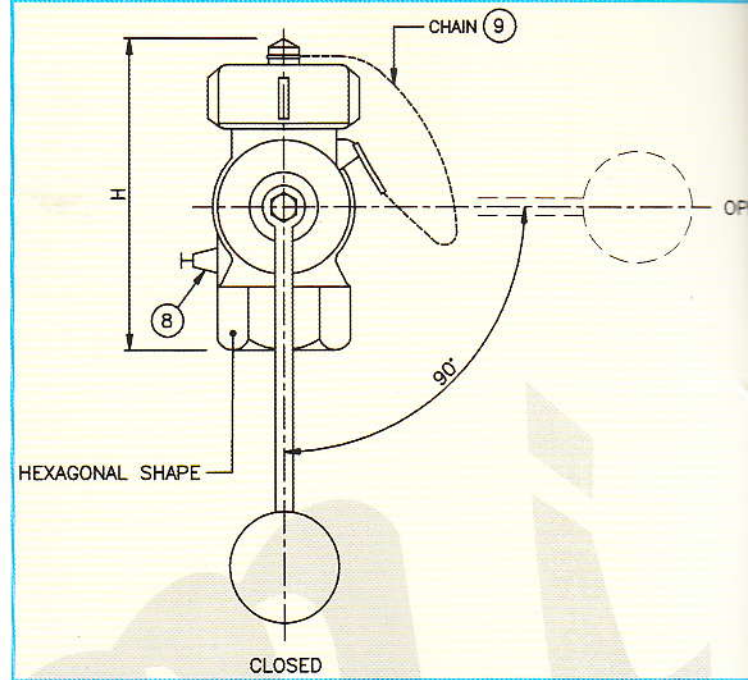
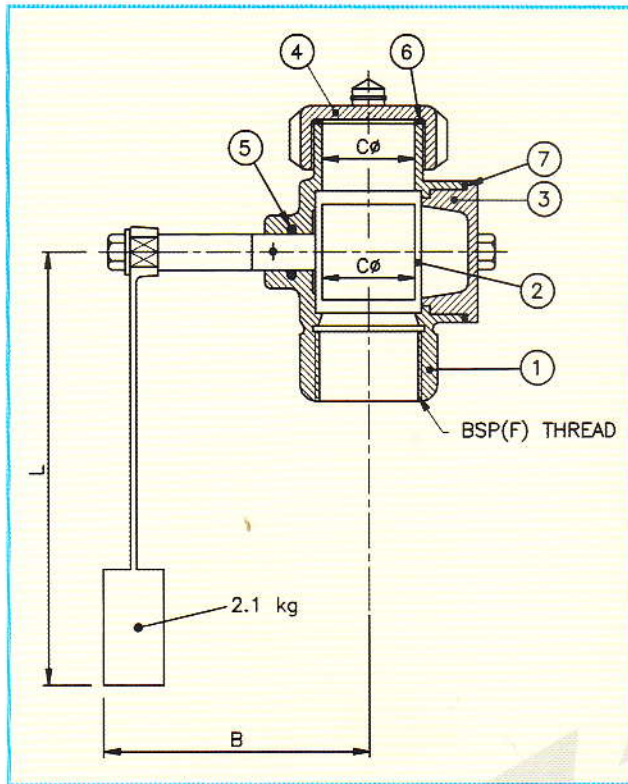


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SELF CLOSING SOUNDING COCK



PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	GM / NAB
2	PLUG	GM / NAB
3	COVER	GM / NAB
4	CAP	GM / NAB
5	SEAL	NBR
6	CAP SEAT	NEOPRENE RUBBER
7	GASKET	NEOPRENE RUBBER
8	TEST COCK	SS/GM
9	CHAIN	STAINLESS STEEL

Pressure Rating	SIZE(NB)
2 Kg/Sq.cm	32-50
GM / NAB SELF CLOSING SOUNDING COCK	

32	160	120	100	35	
40	160	120	100	35	
50	160	120	100	35	
NB	L Approx.	H	B Approx.	Cφ	QT

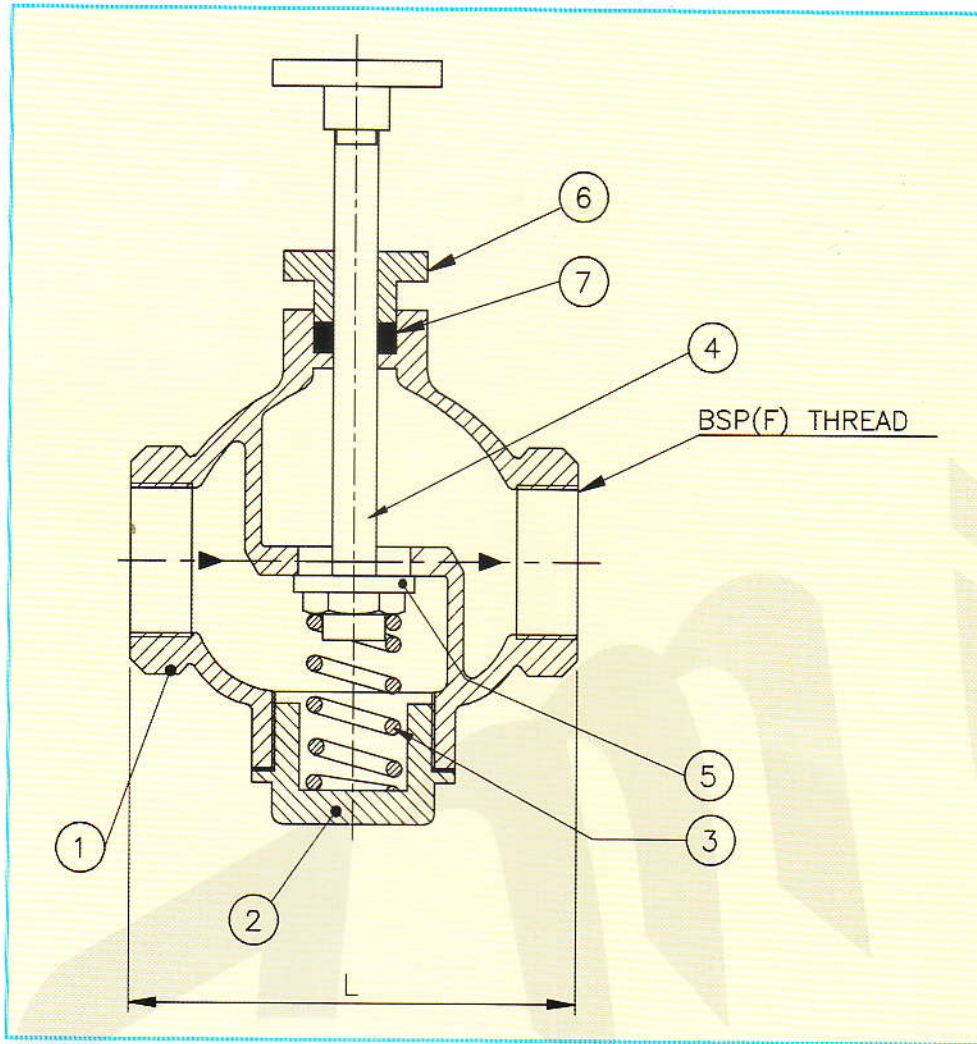


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PART LIST

PART	DESCRIPTION	MATERIAL
1	BODY	GM / NAB
2	BOTTOM COVER	GM / NAB
3	SPRING	SPRING STEEL
4	STEM	H.T. BRASS
5	DISC	GM / NAB
6	GLAND	GM / NAB
7	STEM PACKING	GRAPHITE
8	BOLTS & NUTS	SS

32	78	1-1/4" BSP.
25	72	1" BSP.
20	68	3/4" BSP.
15	54	1/2" BSP.
NB	L ^{±1.5}	END CONN.

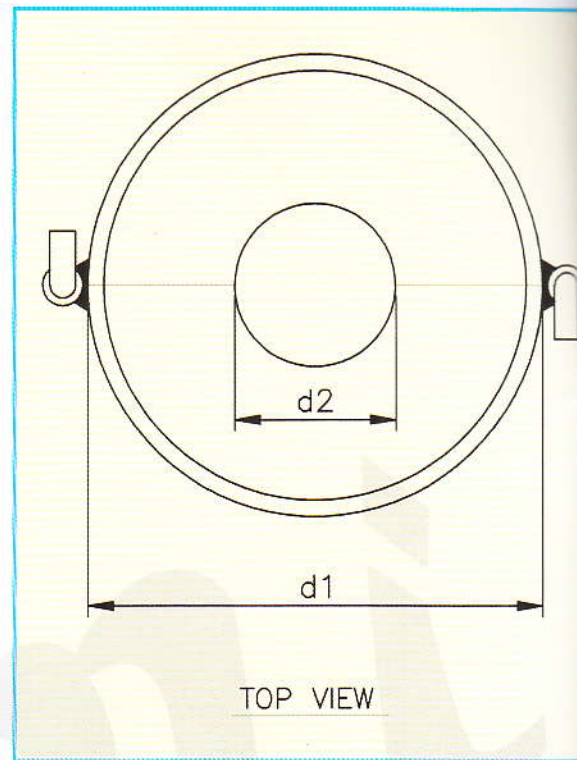
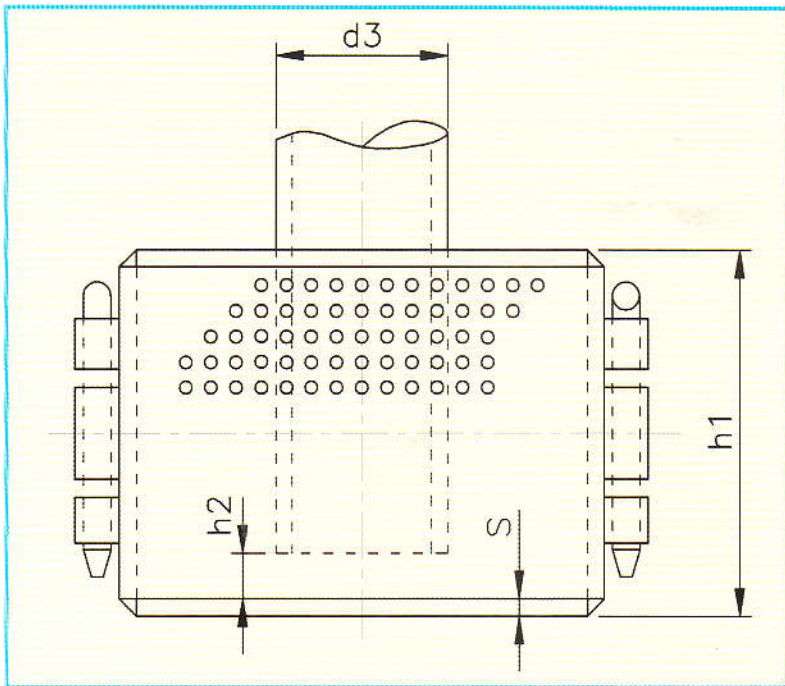
Pressure Rating	SIZE(DN)
PN-10 & PN-16	15-32
GM / NAB SELF CLOSING DRAIN VALVE SCREWED END	

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MS / GM / NAB ROSE BOX / STRUM BOX

NOTES:

PRESSURE RATING : PN-10

PERFORATION SIZE : 8 mm Dia.

12/1

150	400	174	168	363	45	4
125	340	145	140	300	38	4
100	275	120	114	238	30	4
80	225	94	89	200	24	4
65	200	80	76	161	22	3
50	150	63	60	123	15	3
40	125	48	45	98	12	3
SIZE NB	$d1^{\pm 3}$	$d2^{\pm 2}$	$d3$	$h1^{\pm 3}$	$h2$	s



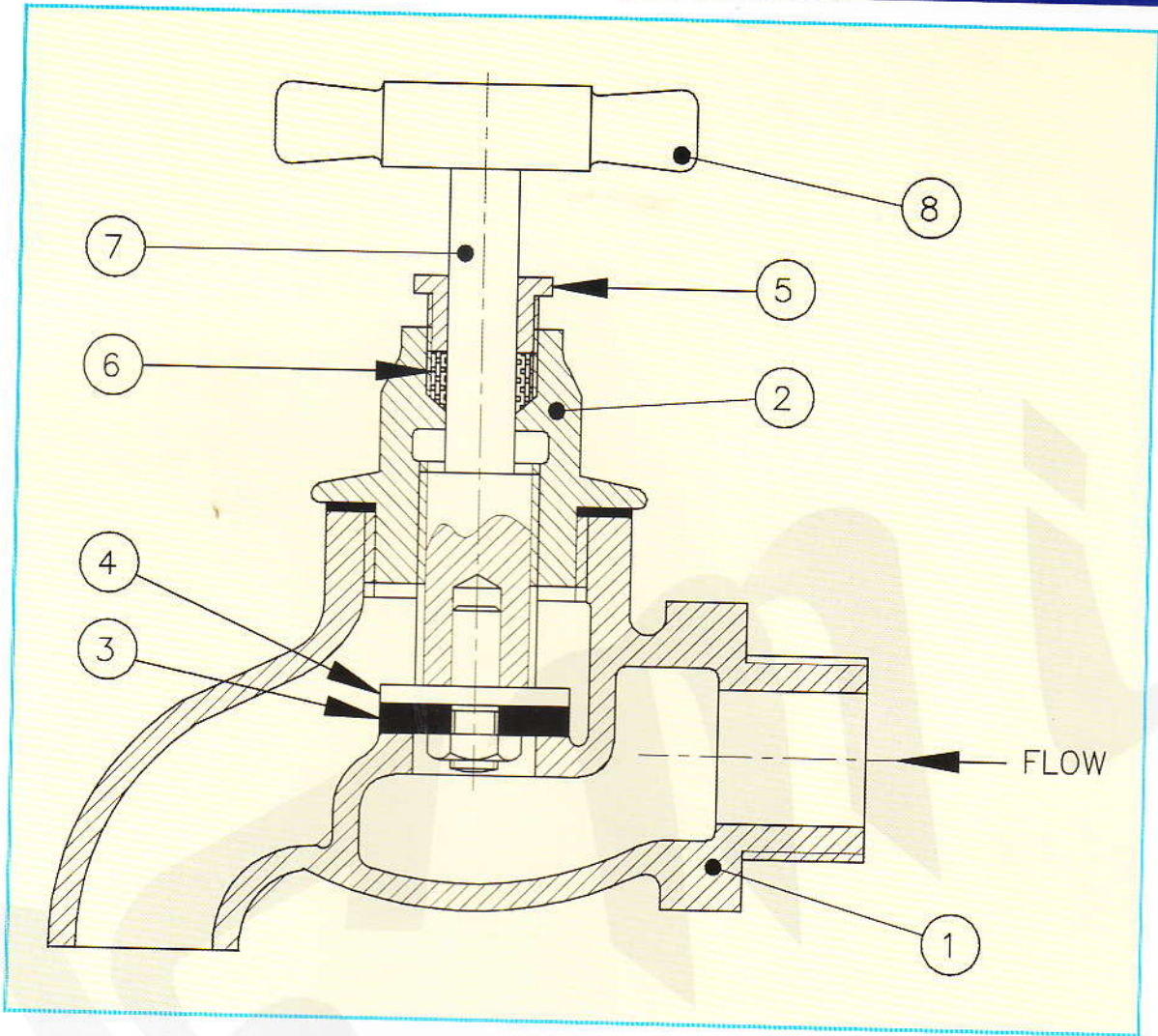
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PART LIST

PART No.	DESCRIPTION	MATERIALS & SPCN.
1	BODY	GM/NAB/SS
2	BONNET	GM/NAB/SS
3	WASHER	SYNTHETIC RUBBER IS:4346
4	WASHER PLATE	GM/NAB/SS
5	GLAND	GM/NAB/SS
6	GLAND PACKING	ASBESTOS
7	STEM	H.T. BRASS IS:320, HT-2
8	HANDLE	BRASS IS:1264-1981 DCB 2

SIZE(NB)	Pressure Rating
15-50	PN-16 PN-10
GUN METAL / NAB BIB COCK	

Face to face, flange detail & other parameter also can be supplied according to customer's requirement.

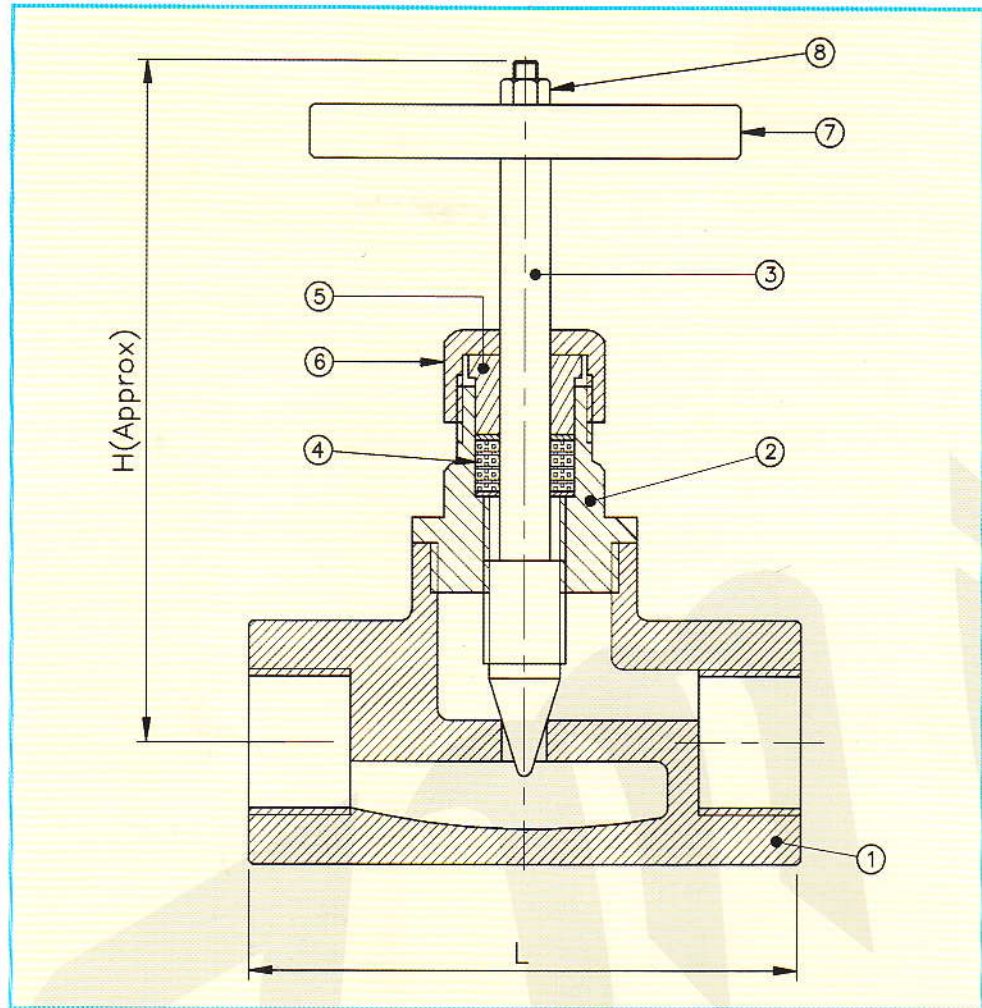
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NEEDLE VALVE



PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CS/SS/GM/NAB
2	BONNET	CS/SS/GM/NAB
3	SPINDLE	H.T. BRASS IS:320 / SS 304
4	GLAND PACKING	PTFE
5	GLAND	CS/SS/GM/NAB
6	GLAND NUT	CS/SS/GM/NAB
7	HAND WHEEL / HANDLE	CS BAR STOCK/BACKELITE

50	85	1
40	80	1
32	75	1
25	70	1
20	60	9
15	55	8
10	50	7
SIZE NB	$L^{\pm 2}$	APP

SIZE(NB)	Pressure Rating
10-50	CLASS 800#
CS / SS / GM / NAB NEEDLE VALVE SCREWED END	

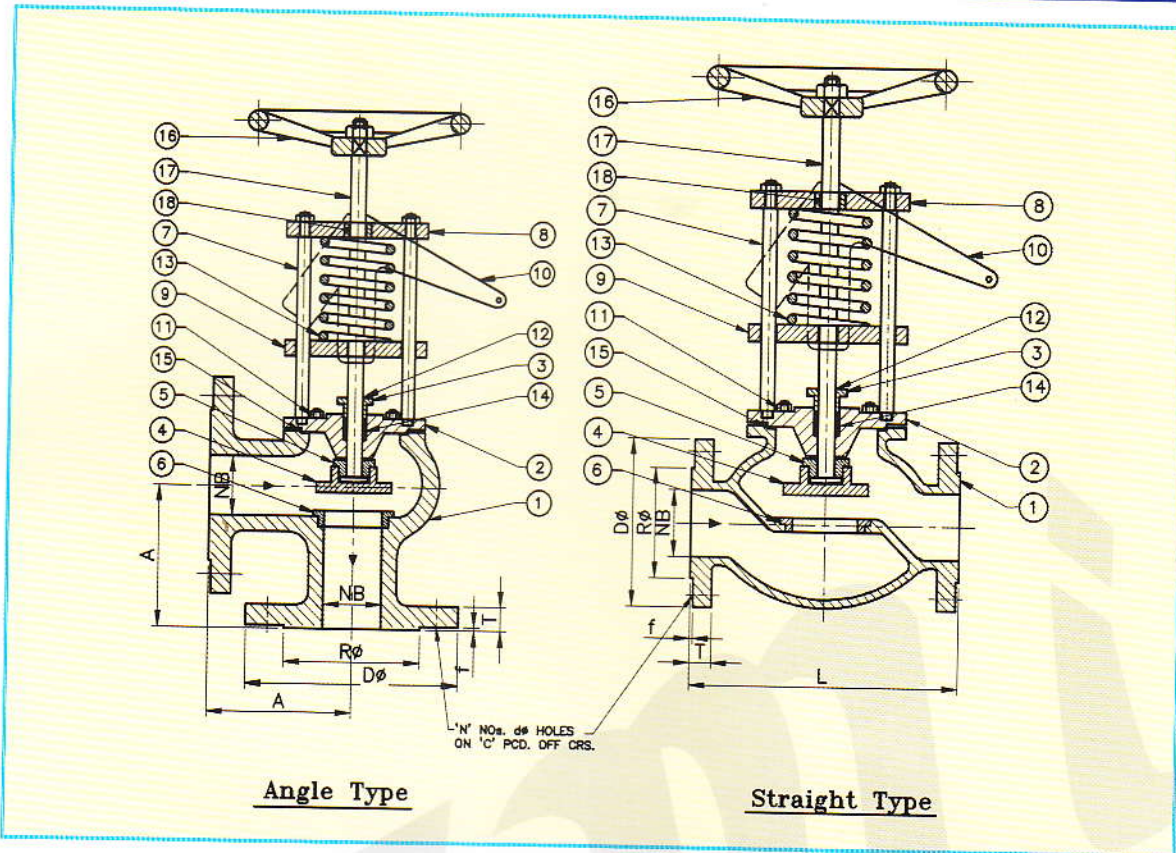


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Angle Type

Straight Type

PART LIST

PART No.	DESCRIPTION	MATL. & SPEC.
1	BODY	CI/CS/SS/GM/NAB
2	COVER	CI/CS/SS/GM/NAB
3	GLAND	CI/CS/SS/GM/NAB
4	DISC	CI/CS/SS/GM/NAB
5	DISC NUT	SS 304
6	SEAT	GM/SS
7	PILLAR ROD	CS (CAD COATED)
8	UPPER SPRING GUARD	CS (CAD COATED)
9	LOWER SPRING GUARD	CS (CAD COATED)
10	QUICK CLOSING HANDLE	CS (CAD COATED)
11	COVER STUD & NUT	SS AISI 304
12	GLAND STUD & NUT	CS (CAD COATED)
13	SPRING	SPRING STEEL
14	PACKING	GRESY HEMP
15	GASKET	CAF
16	HANDWHEEL	M.I. / C.I.
17	SPINDLE	SS / H.T. BRASS
18	BUSH	SS AISI 304

100	175	292	220	20	180	8	18	158	3
80	155	241	200	20	160	8	18	138	3
65	145	216	185	18	145	4	18	122	3
50	125	203	165	18	125	4	18	102	3
40	115	165	150	16	110	4	18	88	3
32	105	140	140	16	100	4	18	78	2
25	100	127	115	16	85	4	14	68	2
20	95	117	105	16	75	4	14	58	2
15	90	108	95	14	65	4	14	45	2
SIZE NB	A ±3	L ±3	Dø ±2	T ±2	Cø ±1	N	dø	Rø ±1	f

SIZE(NB)	Pressure Rating	Flange Drilling
15-100	PN-16	PN-16
	PN-10	PN-10
	Class 150#	ANSI B16.5
CI / CS / SS / NAB QUICK CLOSING VALVE		

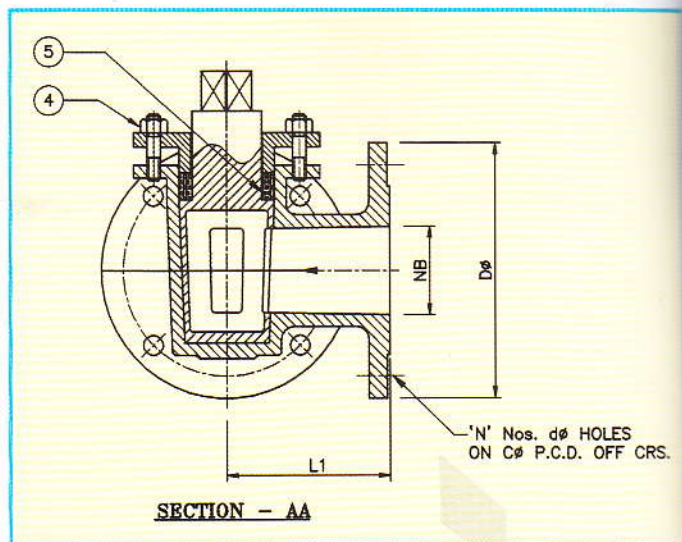
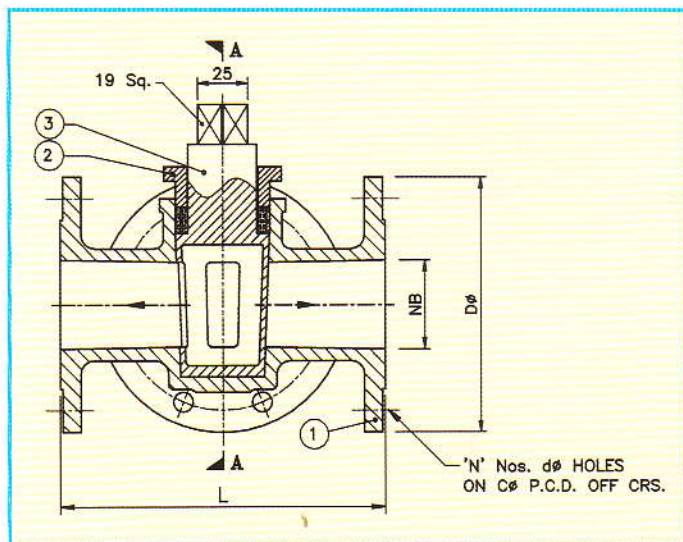
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PART LIST

PART No.	DESCRIPTION	MATL. & SPEC.
1	BODY	CI/CS/SS/GM/NAB
2	GLAND	CI/CS/SS/GM/NAB
3	PLUG	CI/CS/SS/GM/NAB
4	STUDS & NUTS	CS / SS
5	GLAND PACKING	GRAPHITED ASBESTOS FREE
6	WRENCH	MS

100	350	152	220	180	8	18
80	310	141	200	160	8	18
65	290	120	185	145	4	18
50	230	108	165	125	4	18
40	200	95	150	110	4	18
32	180	89	140	100	4	18
25	160	82	115	85	4	14
20	150	76	105	75	4	14
SIZE NB	$L^{\pm 2}$	$L1^{\pm 2}$	$D\phi^{\pm 2}$	$C\phi^{\pm 1}$	N	dφ

SIZE(NB)	Pressure Rating	Flange Drilling
20-100	PN-16	PN-16
	PN-10	PN-10
	Class 150#	ANSI B16.5
CI / CS / SS / GM / NAB-PLUG / GLAND COCKS		



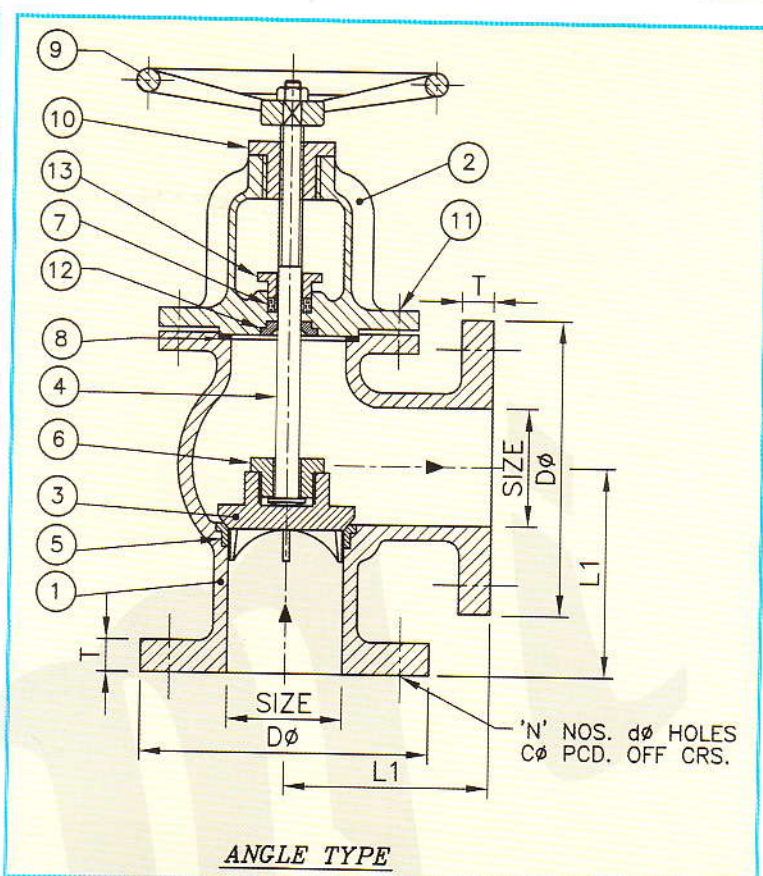
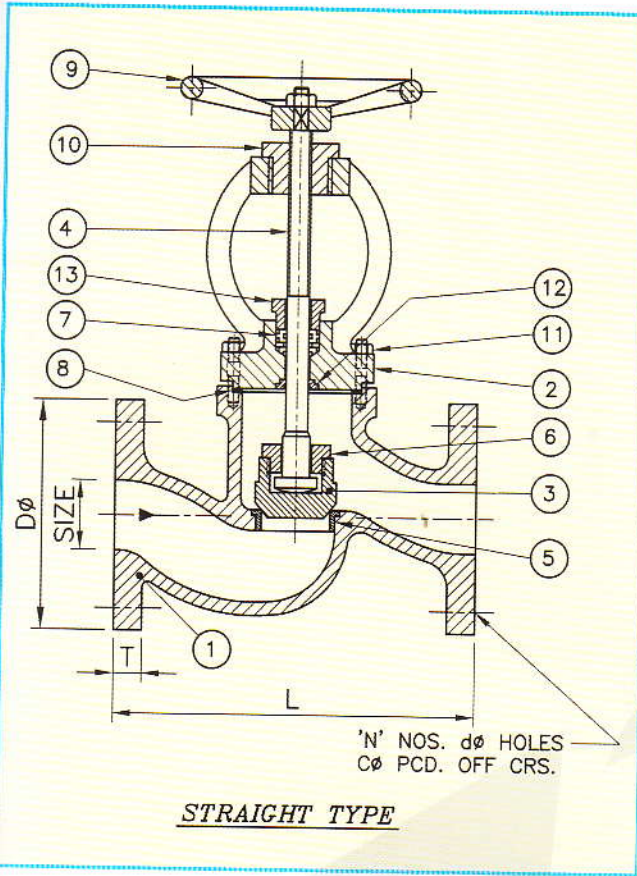
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SEA INLET VALVE



PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON/CAST STEEL
2	BONNET	CAST IRON/CAST STEEL
3	DISC	GUN METAL/SS
4	STEM	SS/H.T. BRASS
5	SEAT RING	SS/GUN METAL
6	DISC NUT	SS/GUN METAL
7	GLAND PACKING	GRAPHITE ASBESTOS
8	GASKET	CAF
9	HAND WHEEL	CAST IRON
10	YOKE BUSH	SS / GM
11	STUDS & NUTS	CS (CAD PLATED)
12	BACK SEAT BUSH	SS/GUN METAL
13	GLAND	CAST IRON/CAST STEEL

300	850	375	445	28	400	12	22
250	730	325	395	26	350	12	22
200	600	275	340	24	295	8	22
150	480	225	285	22	240	8	22
125	400	200	250	22	210	8	18
100	350	175	220	20	180	8	18
80	310	155	200	20	160	8	18
65	290	145	185	18	145	4	18
50	230	125	165	18	125	4	18
40	200	115	150	16	110	4	18
32	180	105	140	16	100	4	18
25	160	100	115	16	85	4	14
20	150	95	105	16	75	4	14
15	130	90	95	14	65	4	14
SIZE (NB)	L ^{±2}	L1 ^{±2}	Dφ ^{±1}	T ^{±1}	Cφ ^{±0.5}	N	dφ

Pressure Rating	Flange Drilling	SIZE(NB)
PN-16	PN-16	15-150
PN-10	PN-10	200-300

CAST IRON / CAST STEEL BODY SEA INLET VALVE

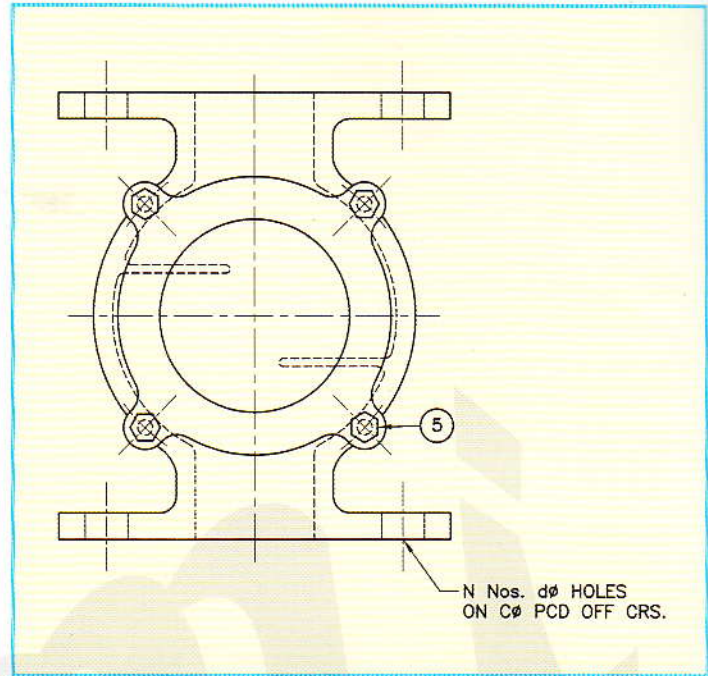
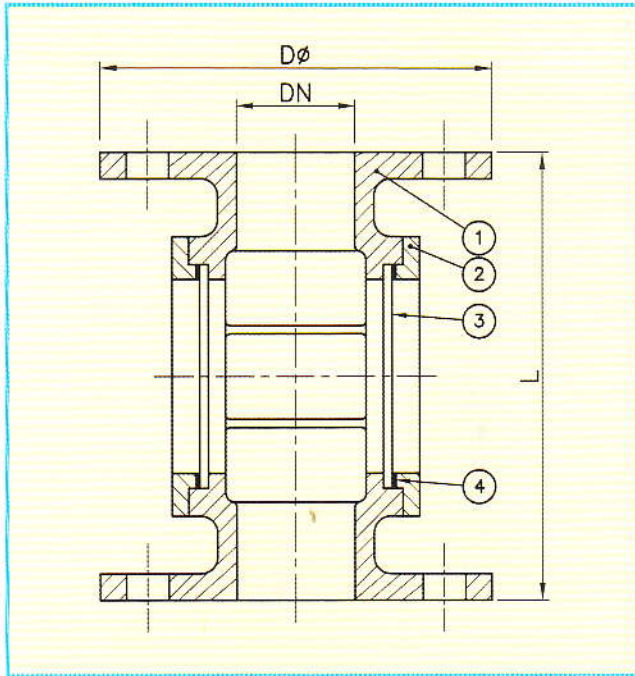
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PART LIST

PT.	DESCRIPTION	MATL. & SPCN.
1	BODY	CI/CS/SS/GM/NAB
2	COVER	CI/CS/SS/GM/NAB
3	GLASS	TOUGHNED
4	GASKET	SYNTHETIC RUBBER/ C.A.F.
5	RETAINING SCREW	HT BRASS IS:320 ALLOY 2

Pressure Rating	Flange Drilling	SIZE(DN)
PN-10	PN-10	15-150
CI / CS / SS / GM / NAB SIGHT CLASS		

150	410	150	285	240	8	22
125	310	115	250	210	8	18
100	305	115	220	180	8	18
80	240	115	200	160	8	18
65	230	115	185	145	4	18
50	185	80	165	125	4	18
40	185	80	150	110	4	18
32	165	56	140	100	4	18
25	150	56	115	85	4	14
20	140	56	105	75	4	14
15	140	56	95	65	4	14
SIZE (NB)	L^{±5}	GLASS^{±3} ø	Dø^{±2}	Cø^{±2}	N	dø^{±1}



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