

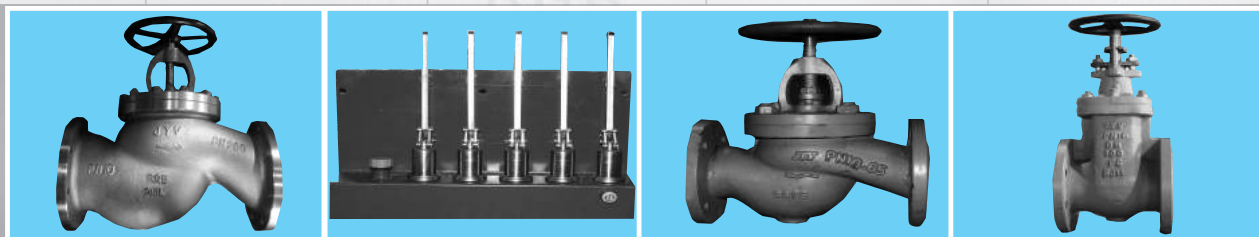
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DIN MARINE VALVE (DEUTSCHE INDUSTRIE- NORMEN)



Hydraulically remote-controlled quick-closing valves

The advantage of hydraulic remote control of the JYV quick-closing valves is that the hydraulic pump units can be installed outside the possible danger zone and thus work completely independently of the ship's supply systems.

The number of hydraulic pump units depends on the number of quick-closing valves which have to be triggered simultaneously. Generally, no more than 3 or 4 quick-closing valves should be connected to one pump unit.

To ensure perfect function of the quick-closing valves, the air must be carefully evacuated from the hydraulic piping before the system is put into service, and the system must be checked at intervals when in operation.

We recommend the use of mineral hydraulic oil with low to medium viscosity.

When installing a quick-closing valve system, care must be taken that the hydraulic pressure unit is always mounted above the level of the valves to be operated. The piping must slope gently and evenly.

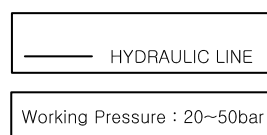
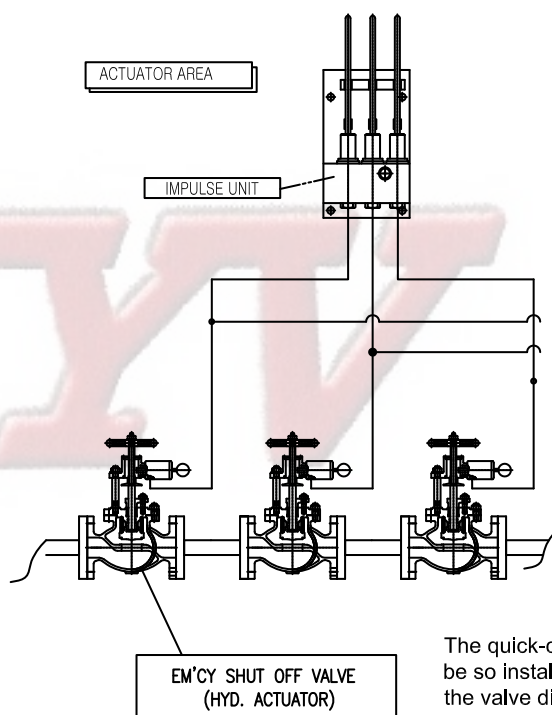
Limit switches can be provided for remote position indication.

All hydraulically controlled quick-closing valve systems are designed to customer's specifications and to the regulations of the required classification societies.

JYV quick-closing valves are characterised by their reliable and uncomplicated operation. Under normal working conditions the valves are in the open position; in emergency they close remote-controlled instantaneously. These valves are suitable for quick-closing action and for use as a manual shut-off valve by turning the handwheel. The quick-closing valve is held in the open position by the piston rod of the releasing cylinder. When the piston rod is retracted, the quick-closing valve is shut instantaneously by spring power. The closing action is triggered by manual, hydraulic or pneumatic retraction of the releasing cylinder's piston rod.

The quick-closing valve is responded by turning the handwheel to the right until the piston rod engages, and then turning handwheel back to the stop. This special design ensures easy and energy-saving manipulation of the quick-closing valve into the triggering position, particularly when large diameters are involved.

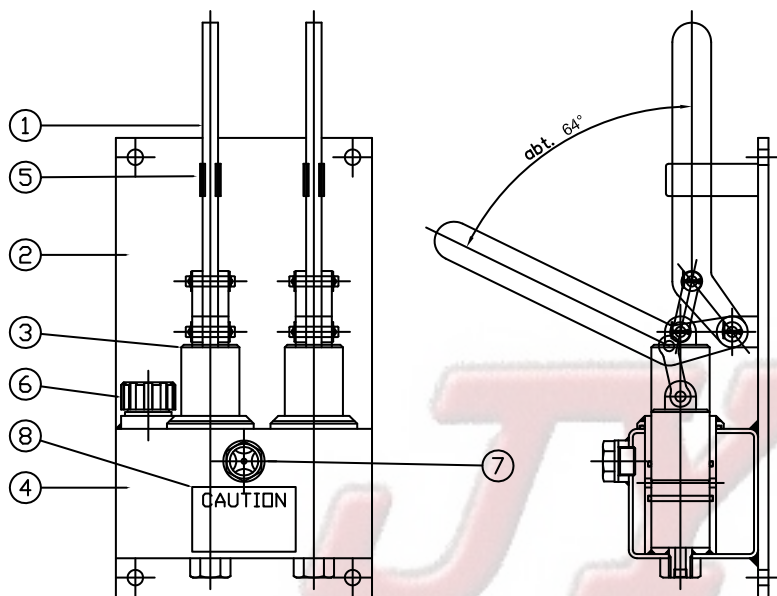
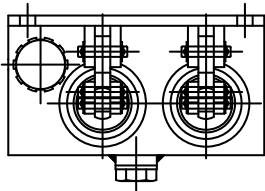
When in the range of its nominal pressure, the quick-closing valve can also be used as a shut-off valve.





Control Unit

■ Impulse Unit For Hydraulic Remote Controlled Quick Closing Valves



NO.	PARTS	MATERIAL
1	LEVER	STEEL
2	MOUNT PLATE	STEEL
3	PISTON	STAINLESS STEEL
4	HOUSING	STEEL
5	LEVER CLAMP	STEEL
6	FILLING CAP	ALUMINUM / BRASS
7	LEVEL GAUGE	GLASS
8	CAUTION PLATE	ALUMINUM

* TECHNICAL DETAILS

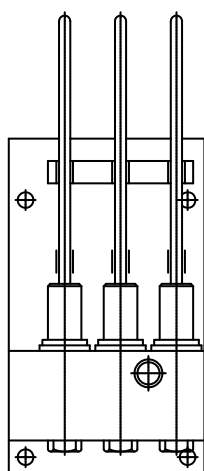
1. STROKE VOLUME EACH CYL' 50CC
2. NOMINAL RELEASE PRESSURE : 10 to 25BAR
3. 3 TO 4 QUICK CLOSING VALVE SHOULD BE CONNECTED TO THE ONE(1) PUMP UNIT.
4. RECOMMEND THE USE OF A MINERAL HYD. OIL WITH LOW TO MEDIUM VISCOSITY.

* DESCRIPTION

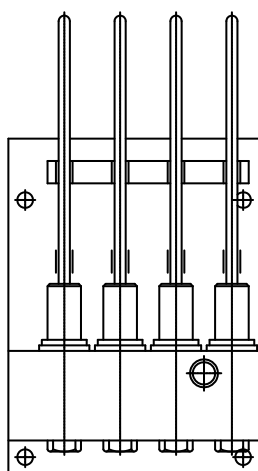
THE QUICK CLOSING VALVE IS PROVIDED WITH A HYD. CYLINDER FOR HYD. REMOTE CONTROL. THIS CYLINDER IS ACTIVATED THROUGH SPECIAL 2 OR 3 PART IMPULSE UNITS.

THE MODE OF OPERATION IS AS FOLLOWS : BY PULLING THE LEVER OF THE IMPULSE UNIT, THE OIL VOLUME UNDER THE PISTON IS PRESSED THROUGH THE CONNECTION PIPE TO THE ACTIVATING CYLINDER OF THE QUICK CLOSING VALVE.

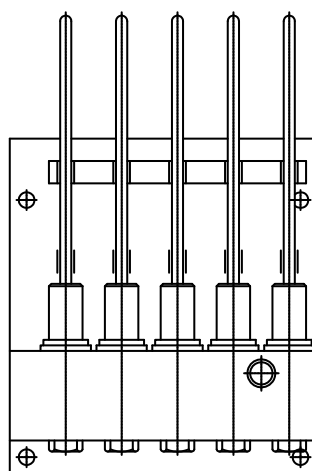
THE OIL VOLUME THAT HAS BEEN REMOVED UNDER PRESSURE WILL MOVE THE PISTON ROD OF THE ACTIVATING CYLINDER WHICH MAKES HANDLE A RELEASE THE BLOCK AND SUBSEQUENTLY THE VALVE CLOSES.



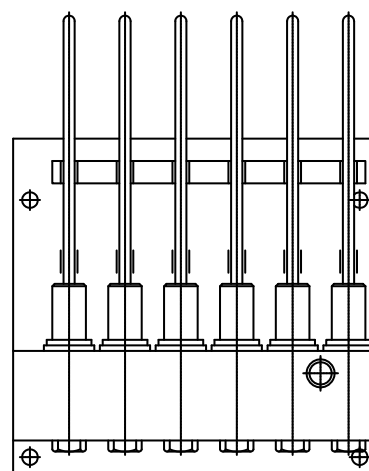
TYPE-M3



TYPE-M4



TYPE-M5



TYPE-M6

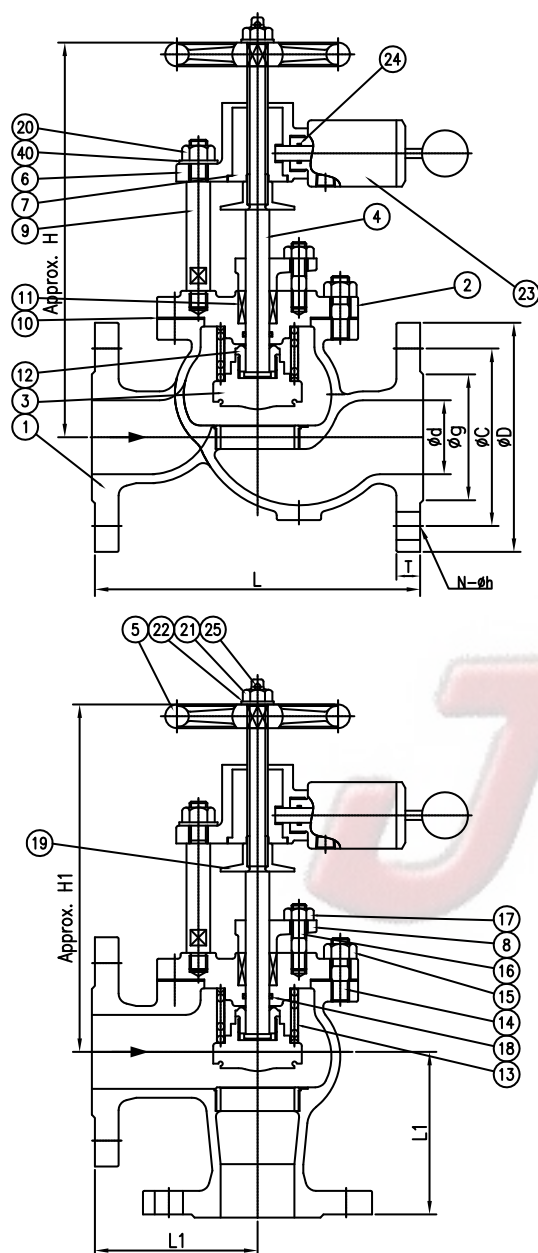
Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Bronze DIN valves

■ PN 10/16 Hydraulic Remote Controlled Quick Closing Valves

JYV HYD Type-03



Bolted Bonnet Renewable seat Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE / BRASS
4	STEM	BRASS
5	HANDWHEEL	CAST IRON
6	YOKE	BRONZE
7	YOKE BUSH	BRASS
8	PACKING GLAND	BRONZE
9	STAY	STEEL
10	GASKET	NON ASBESTOS
11	PACKING	NON ASBESTOS
12	DISC NUT	BRASS
13	SPRING	STEEL
14	BOLT	STEEL / SS400
15	NUT	STEEL / SS400
16	STUD BOLT	STEEL / SS400
17	NUT	STEEL / SS400
18	O-RING	NBR
19	INDICATOR	BRASS
20	NUT	STEEL
21	HANDLE NUT	STEEL
22	NAME PLATE	ALUMINUM
23	ACTUATOR	BRASS
24	O-RING	NBR
25	SPLIT PIN	BRASS

Dimension Table

(Unit : mm)

Rating	Size	d	L	L1	H	H1	FLANGE				
							D	C	g	T	N-h
PN 10 (DIN 2532)	15	15	130	90	200	190	95	65	45	12	4-14
	20	20	150	95	200	190	105	75	58	12	4-14
	25	25	160	100	200	190	115	85	68	12	4-14
	32	32	180	105	230	215	140	100	78	14	4-18
	40	40	200	115	235	215	150	110	88	14	4-18
	50	50	230	125	265	240	165	125	102	16	4-18
	65	65	290	145	305	275	185	145	122	16	4-18
	80	80	310	155	325	285	200	160	138	18	4-18
	100	100	350	175	370	320	220	180	158	18	8-18
	125	125	400	200	400	340	250	210	188	20	8-18
	150	150	480	225	450	380	285	240	212	20	8-22
	175	175	550	250	500	415	315	270	242	22	8-22
	200	200	600	275	570	470	340	295	268	24	8-22
	250	250	730	325	600	480	395	350	320	26	12-22
Rating	Size	d	L	L1	H	H1	FLANGE				
							D	C	g	T	N-h
PN 16 (DIN 2533)	15	15	130	90	200	190	95	65	45	12	4-14
	20	20	150	95	200	190	105	75	58	12	4-14
	25	25	160	100	200	190	115	85	68	12	4-14
	32	32	180	105	230	215	140	100	78	14	4-18
	40	40	200	115	235	215	150	110	88	14	4-18
	50	50	230	125	265	240	165	125	102	16	4-18
	65	65	290	145	305	275	185	145	122	16	4-18
	80	80	310	155	325	285	200	160	138	18	8-18
	100	100	350	175	370	320	220	180	158	18	8-18
	125	125	400	200	400	340	250	210	188	20	8-18
	150	150	480	225	450	380	285	240	212	20	8-22
	175	175	550	250	500	415	315	270	242	22	8-22
	200	200	600	275	570	470	340	295	268	24	12-22
	250	250	730	325	600	480	405	355	320	26	12-26

Test Pressure (Bar)

Rating	PN 10	PN 16
Size	15A to 250A	15A to 250A
Hydrostatic press test (Shell)	7	7
Hydrostatic press test (Seat)	2	2

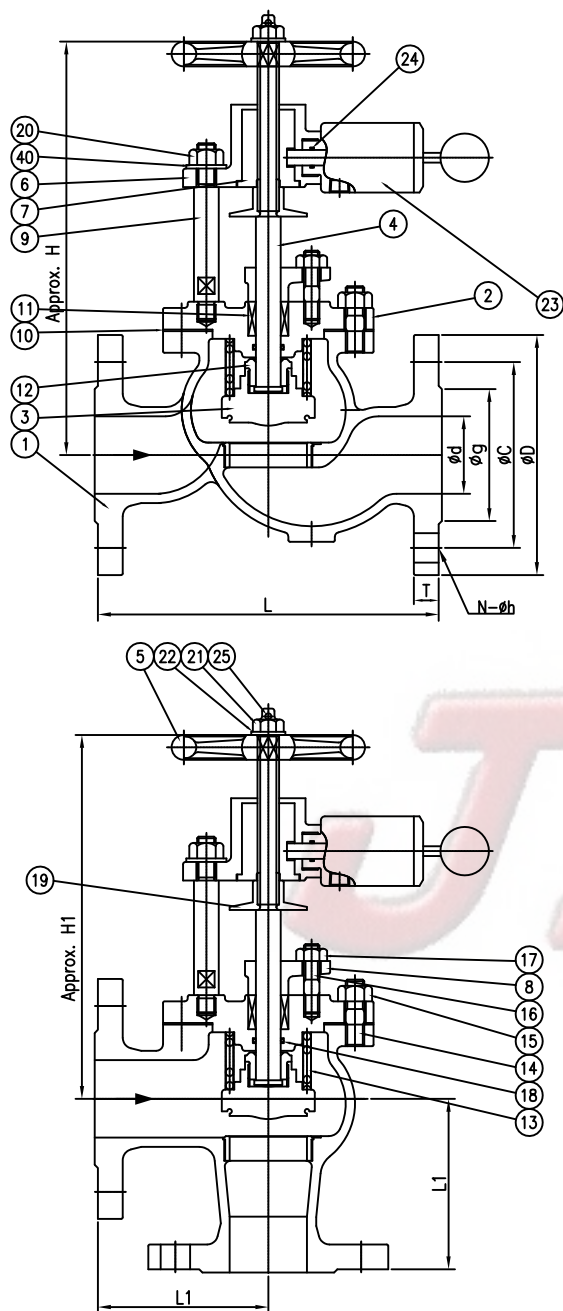
The quick-closing valves can be used for both of pneumatic and hydraulic

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Ductile Iron, Cast Steel DIN Valves

■ PN 10/16 Hydraulic Remote Controlled Quick Closing Valves

JYV HYD Type-04



Bolted Bonnet Renewable seat Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	HANDWHEEL	CAST IRON
6	YOKE	BRONZE
7	YOKE BUSH	BRASS
8	PACKING GLAND	BRONZE
9	STAY	STEEL
10	GASKET	NON ASBESTOS
11	PACKING	NON ASBESTOS
12	DISC NUT	BRASS
13	SPRING	STEEL
14	BOLT	STEEL
15	NUT	STEEL
16	STUD BOLT	STEEL
17	NUT	STEEL
18	O-RING	NBR
19	INDICATOR	BRASS
20	NUT	STEEL
21	HANDLE NUT	STEEL
22	NAME PLATE	STAINLESS STEEL
23	ACTUATOR	BRASS
24	O-RING	NBR
25	SPLIT PIN	BRASS

Dimension Table

(Unit : mm)

Rating	Size	d	L	L1	H	H1	FLANGE				
							D	C	g	T	N-h
PN 10 (DIN2532)	15	15	130	90	200	190	95	65	45	14	4-14
	20	20	150	95	200	190	105	75	58	16	4-14
	25	25	160	100	200	190	115	85	68	16	4-14
	32	32	180	105	230	215	140	100	78	18	4-18
	40	40	200	115	235	215	150	110	88	18	4-18
	50	50	230	125	265	240	165	125	102	20	4-18
	65	65	290	145	305	275	185	145	122	20	4-18
	80	80	310	155	325	285	200	160	138	22	4-18
	100	100	350	175	370	320	220	180	158	24	8-18
	125	125	400	200	400	340	250	210	188	26	8-18
	150	150	480	225	450	380	285	240	212	26	8-22
	175	175	550	250	500	415	315	270	242	28	8-22
PN 16 (DIN2533)	200	200	600	275	570	470	340	395	268	26	8-22
	250	250	730	325	600	480	395	350	320	28	12-23
Rating	Size	d	L	L1	H	H1	FLANGE				
							D	C	g	T	N-h
PN 16 (DIN2533)	15	15	130	90	200	190	95	65	45	14	4-14
	20	20	150	95	200	190	105	75	58	16	4-14
	25	25	160	100	200	190	115	85	68	16	4-14
	32	32	180	105	230	215	140	100	78	18	4-18
	40	40	200	115	235	215	150	110	88	18	4-18
	50	50	230	125	265	240	165	125	102	20	4-18
	65	65	290	145	305	275	185	145	122	20	4-18
	80	80	310	155	325	285	200	160	138	22	8-18
	100	100	350	175	370	320	220	180	158	24	8-18
	125	125	400	200	400	340	250	210	188	26	8-18
	150	150	480	225	450	380	285	240	212	26	8-22
	175	175	550	250	500	415	315	270	242	28	8-22
	200	200	600	275	570	470	340	395	268	26	12-23
	250	250	730	325	600	480	405	355	320	28	12-27

Test Pressure (Bar)

Rating	PN 10	PN 16
Size	15A to 250A	15A to 250A
Hydrostatic press test (Shell)	7	7
Hydrostatic press test (Seat)	2	2

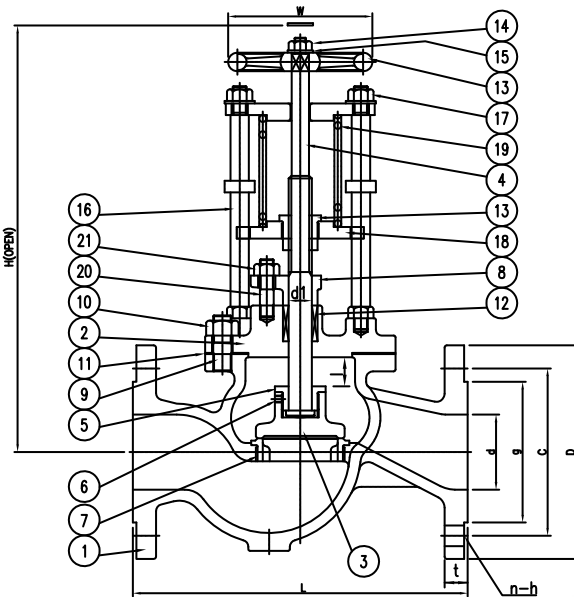
The quick-closing valves can be used for both of pneumatic and hydraulic

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Cast Steel DIN Valves

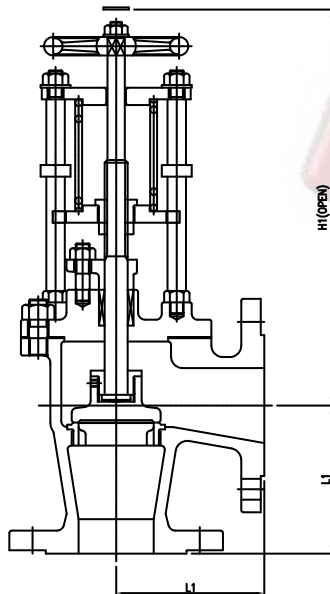
PN 6/10 Over Board Discharge Valve

DIN



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST STEEL / DIN17245 GS-C25
2	BONNET	CAST STEEL / DIN17245 GS-C25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	SEAT RING	BRASS / STAINLESS STEEL
8	PACKING GLAND	BRONZE
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	STAY	STEEL / SS400
17	STAY NUT	STEEL
18	SPRING SUPPORT	STEEL
19	SPRING	SWP
20	PACKING BOLT	STEEL
21	PACKING NUT	STEEL



Test Pressure (Bar)

Rating	PN 6	PN 10	PN 16
Size	350A to 500A	15A to 175A	200A to 300A
Hydrostatic press test (Shell)	6	25	16
Hydrostatic press test (Seat)	3	16	10

Dimension Table

(Unit : mm)

	d	L	L1	H	H1	W	d1	I	FLANGE				
									D	C	g	t	n-h
PN16 (DIN2533)	15	130	90	260	245	100	14	6	95	65	45	14	4-14
	20	150	95	260	245	100	14	8	105	75	58	16	4-14
	25	160	100	260	260	100	14	11	115	85	68	16	4-14
	32	180	105	285	265	100	14	11	140	100	78	18	4-18
	40	200	115	340	315	100	16	13	150	110	88	18	4-18
	50	230	125	345	315	100	16	16	165	125	102	20	4-18
	65	290	145	400	370	125	20	19	185	145	122	20	4-18
	80	310	155	455	420	160	20	23	200	160	138	22	8-18
	100	350	175	545	495	160	24	30	220	180	158	24	8-18
	125	400	200	610	550	180	26	40	250	210	188	26	8-18
PN10 (DIN2532)	150	480	225	655	570	180	26	48	285	240	212	26	8-22
	175	550	250	820	740	200	28	54	315	270	242	28	8-22
	200	600	275	935	840	250	32	64	340	295	268	26	8-22
	250	730	325	1100	980	315	36	78	395	350	320	28	12-22
PN6 (DIN2531)	300	850	375	1180	1040	315	40	90	445	400	370	28	12-22
	350	980	425	1385	1240	355	48	115	490	445	415	26	12-22
	400	1100	475	1610	1415	355	48	120	540	495	465	28	16-22
	450	1200	500	2025	1845	450	52	135	595	550	520	28	16-22
	500	1350	515	2380	2120	450	60	150	645	600	570	30	20-22

Remark : 1.The range of over board discharge valves,depending on the spring amounts to $\pm 10\%$ of the respective set pressure.They should however never be set at pressures in excess of the maximum rating for which the valve is designed.if a greater change in the set pressure is to be made. a new spring may be required.When marking an enquiry or placing an order kindly indicate the nature of fluid,its temperature and the set pressure.

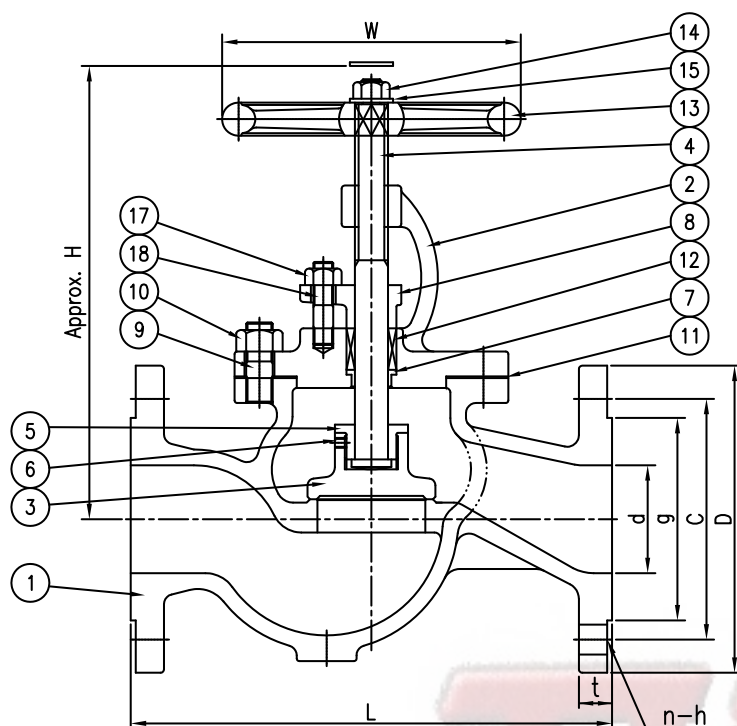
2. The valves for steam and gas should be set at least 10%, and valves for water and oil 25% above the normal working pressure.

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Cast Bronze DIN valves

■ PN 6/10 /16 Globe Valves and Globe Check Valve

DIN 86260 and DIN 86261/F1

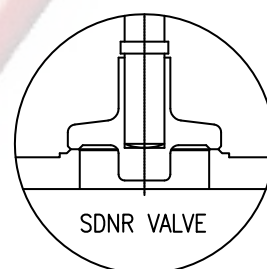


Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE / BRASS
4	STEM	BRASS
5	DISC NUT	BRASS
6	SET SCREW	STEEL
7	PACKING RING	BRASS
8	PACKING GLAND	BRASS
9	BONNET BOLT	STAINLESS STEEL
10	BONNET NUT	STAINLESS STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	BRASS
15	WASHER	BRASS
17	NUT	BRASS
18	BOLT	BRASS

Test Pressure (Bar)

Rating	PN 6	PN 10 / PN 16	PN 10 / PN 16	PN 10 / PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3



Dimension Table

(Unit : mm)

Rating	Size	d	L	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	130	220	100	80	55	12	4-11	95	65	12	4-14	95	65	12	4-14
	20	20	150	225	100	90	65	12	4-11	105	75	12	4-14	105	75	12	4-14
	25	25	160	235	100	100	75	12	4-11	115	85	12	4-14	115	85	12	4-14
	32	32	180	240	125	120	90	14	4-14	140	100	14	4-18	140	100	14	4-18
	40	40	200	275	160	130	100	14	4-14	150	110	14	4-18	150	110	14	4-18
PN 10 (DIN 2532)	50	50	230	280	160	140	110	16	4-14	165	125	16	4-18	165	125	16	4-18
	65	65	290	310	180	160	130	16	4-14	185	145	16	4-18	185	145	16	4-18
	80	80	310	345	180	190	150	18	4-18	200	160	18	8-18	200	160	18	8-18
	100	100	350	380	200	210	170	18	4-18	220	180	18	8-18	220	180	18	8-18
	125	125	400	420	200	240	200	18	8-18	250	210	20	8-18	250	210	18	8-18
PN 16 (DIN 2533)	150	150	480	470	250	265	225	20	8-18	285	240	20	8-22	285	240	20	8-22
	175	175	550	500	250	295	255	20	8-18	315	270	20	8-22	315	270	20	8-22
	200	200	600	580	315	320	280	22	8-18	340	295	22	8-22	340	295	22	12-22
	250	250	730	690	315	375	335	22	12-18	395	350	22	12-22	405	355	22	12-26
	300	300	850	800	315	440	395	24	12-22	445	400	24	12-22	460	410	24	12-26
	350	350	980	910	400	490	445	26	12-22	505	460	26	16-22	520	470	26	16-26
	400	400	1100	1070	500	540	495	26	16-22	565	515	26	16-26	580	525	26	16-30
	450	450	1200	1165	500	595	550	28	16-22	615	565	28	20-26	640	585	28	20-30
	500	500	1350	1340	500	645	600	30	20-22	670	620	30	20-26	715	650	30	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

2. Face-to-Face Valve dimensions : EN-558-1(DIN3202)

3. Flange Standard (EN code) : EN1090 (PN06/PN10/PN16/PN25/PN40)

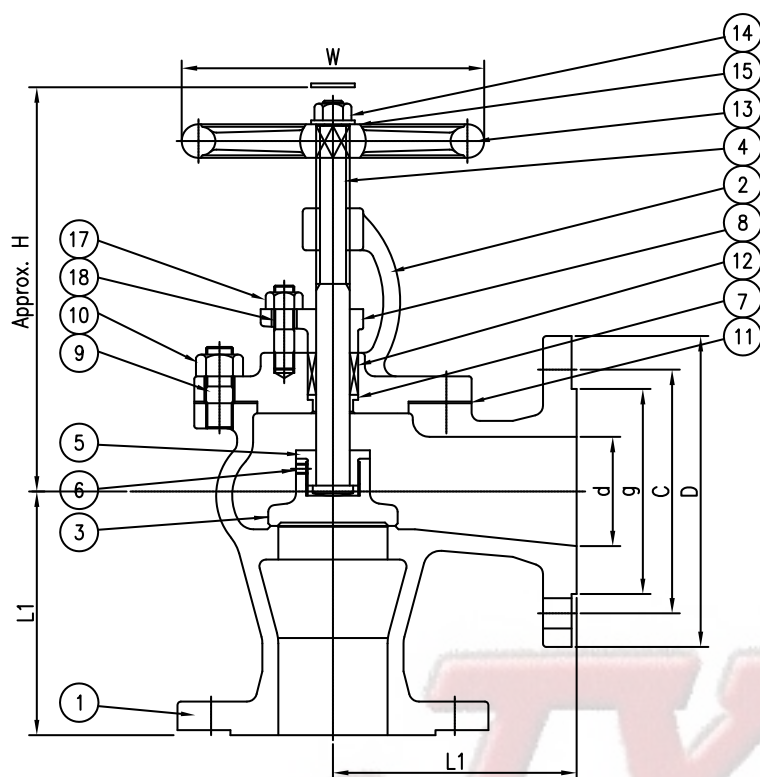
4. Testina Standard : ISO 5208

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Cast Bronze DIN Valves

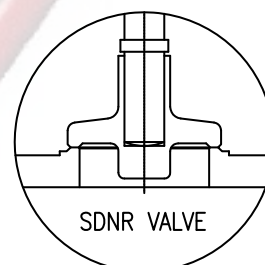
■ PN 6/10 /16 Angle Valves and Angle Check Valve

DIN 86260 and DIN 86261/F32



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE OR BRASS
4	STEM	BRASS
5	DISC NUT	BRASS
6	SET SCREW	STEEL
7	PACKING RING	BRASS
8	PACKING GLAND	BRASS
9	BONNET BOLT	STAINLESS STEEL
10	BONNET NUT	STAINLESS STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	BRASS
15	WASHER	BRASS
17	NUT	BRASS
18	BOLT	BRASS



Test Pressure (Bar)

Rating	PN 6	PN 10 / PN 16	PN 10 / PN 16	PN 10 / PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3

Dimension Table

(Unit : mm)

Rating	Size	d	L1	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	90	200	100	80	55	12	4-11	95	65	12	4-14	95	65	12	4-14
	20	20	95	200	100	90	65	12	4-11	105	75	12	4-14	105	75	12	4-14
	25	25	100	210	100	100	75	12	4-11	115	85	12	4-14	115	85	12	4-14
	32	32	105	215	125	120	90	14	4-14	140	100	14	4-18	140	100	14	4-18
	40	40	115	245	160	130	100	14	4-14	150	110	14	4-18	150	110	14	4-18
PN 10 (DIN 2532)	50	50	125	250	160	140	110	16	4-14	165	125	16	4-18	165	125	16	4-18
	65	65	145	280	180	160	130	16	4-14	185	145	16	4-18	185	145	16	4-18
	80	80	155	310	180	190	150	18	4-18	200	160	18	8-18	200	160	18	8-18
	100	100	175	330	200	210	170	18	4-18	220	180	18	8-18	220	180	18	8-18
	125	125	200	360	200	240	200	18	8-18	250	210	20	8-18	250	210	18	8-18
PN 16 (DIN 2533)	150	150	225	385	250	265	225	20	8-18	285	240	20	8-22	285	240	20	8-22
	175	175	250	415	250	295	255	20	8-18	315	270	20	8-22	315	270	20	8-22
	200	200	275	485	315	320	280	22	8-18	340	295	22	8-22	340	295	22	12-22
	250	250	325	571	315	375	335	22	12-18	395	350	22	12-22	405	355	22	12-26
	300	300	375	671	315	440	395	24	12-22	445	400	24	12-22	460	410	24	12-26
	350	350	425	840	400	490	445	26	12-22	505	460	26	16-22	520	470	26	16-26
	400	400	475	715	500	540	495	26	16-22	565	515	26	16-26	580	525	26	16-30
	450	450	500	825	500	595	550	28	16-22	615	565	28	20-26	640	585	28	20-30
	500	500	515	795	500	645	600	30	20-22	670	620	30	20-26	715	650	30	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

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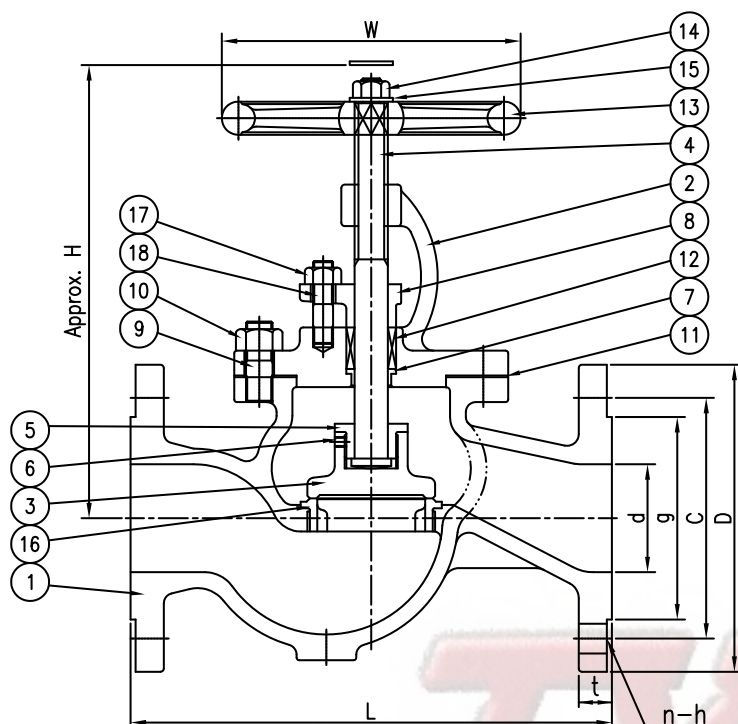
Cast Iron DIN Valves

■ PN 6/10 /16 Globe Valves

DIN 86251/F1

■ PN 6/10 /16 Globe Check Valves

DIN 86252/F1

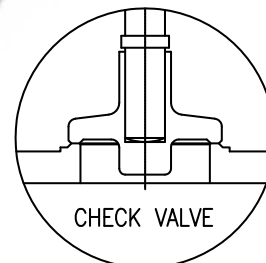


Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST IRON / DIN1691 GG-25
2	BONNET	CAST IRON / DIN1691 GG-25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	PACKING RING	BRASS / STAINLESS STEEL
8	PACKING GLAND	BRASS / STAINLESS STEEL
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	SEAT RING	BRONZE / STAINLESS STEEL
17	NUT	STEEL
18	BOLT	STEEL

Test Pressure (Bar)

Rating	PN 6	PN 10 / PN 16	PN 10 / PN 16	PN 10 / PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3



Dimension Table

(Unit : mm)

Rating	Size	d	L	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	130	220	100	80	55	12	4-11	95	65	14	4-14	95	65	14	4-14
	20	20	150	225	100	90	65	12	4-11	105	75	16	4-14	105	75	16	4-14
	25	25	160	235	100	100	75	12	4-11	115	85	16	4-14	115	85	16	4-14
	32	32	180	240	125	120	90	14	4-14	140	100	16	4-18	140	100	16	4-18
	40	40	200	275	160	130	100	14	4-14	150	110	18	4-18	150	110	18	4-18
PN 10 (DIN 2532)	50	50	230	280	160	140	110	16	4-14	165	125	20	4-18	165	125	20	4-18
	65	65	290	310	180	160	130	16	4-14	185	145	20	4-18	185	145	20	4-18
	80	80	310	345	180	190	150	18	4-18	200	160	22	8-18	200	160	22	8-18
	100	100	350	380	200	210	170	18	4-18	220	180	24	8-18	220	180	24	8-18
	125	125	400	420	200	240	200	18	8-18	250	210	26	8-18	250	210	26	8-18
PN 16 (DIN 2533)	150	150	480	470	250	265	225	20	8-18	285	240	26	8-22	285	240	26	8-22
	175	175	550	500	250	295	255	20	8-18	315	270	26	8-22	315	270	28	8-22
	200	200	600	580	315	320	280	22	8-18	340	295	26	8-22	340	295	30	12-22
	250	250	730	690	315	375	335	22	12-18	395	350	28	12-22	405	355	32	12-26
	300	300	850	800	315	440	395	24	12-22	445	400	28	12-22	460	410	32	12-26
	350	350	980	910	400	490	445	26	12-22	505	460	30	16-22	520	470	36	16-26
	400	400	1100	1070	500	540	495	26	16-22	565	515	32	16-26	580	525	38	16-30
	450	450	1200	1165	500	595	550	28	16-22	615	565	32	20-26	640	585	40	20-30
	500	500	1350	1340	500	645	600	30	20-22	670	620	34	20-26	715	650	42	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

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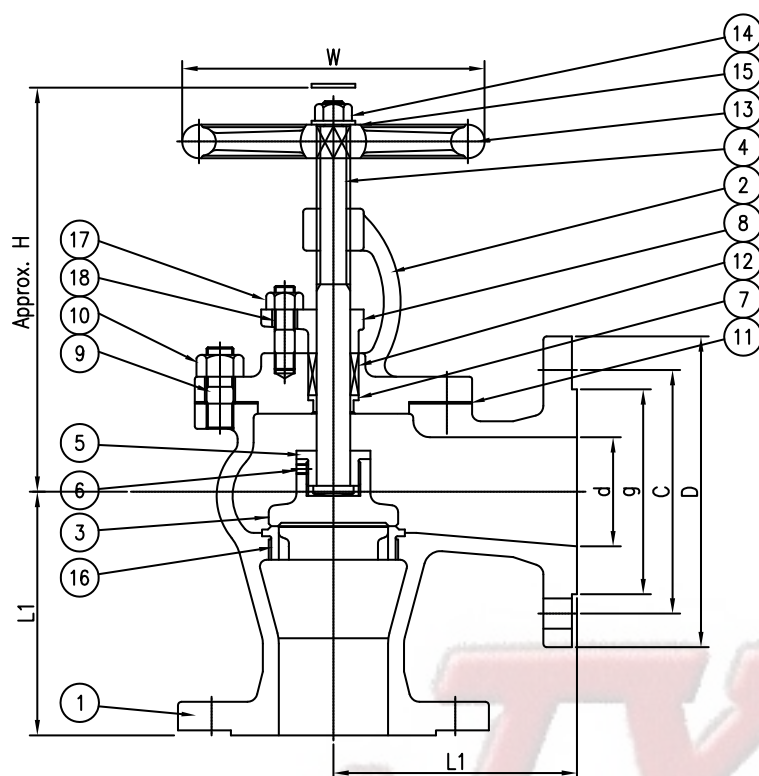
Cast Iron DIN Valves

■ PN 6/10 /16 Angle Valves

DIN 86251/F32

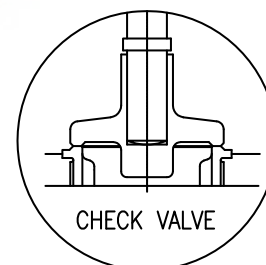
■ PN 6/10 /16 Angle Check Valves

DIN 86251/F32



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST IRON / DIN1691 GG-25
2	BONNET	CAST IRON / DIN1691 GG-25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	PACKING RING	BRASS / STAINLESS STEEL
8	PACKING GLAND	BRASS / STAINLESS STEEL
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	SEAT RING	BRONZE / STAINLESS STEEL
17	NUT	STEEL
18	BOLT	STEEL



Test Pressure (Bar)

Rating	PN 6	PN 10 / PN 16	PN 10 / PN 16	PN 10 / PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3

Dimension Table

(Unit : mm)

Rating	Size	d	L1	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	90	200	100	80	55	12	4-11	95	65	14	4-14	95	65	14	4-14
	20	20	95	200	100	90	65	12	4-11	105	75	16	4-14	105	75	16	4-14
	25	25	100	210	100	100	75	12	4-11	115	85	16	4-14	115	85	16	4-14
	32	32	105	215	125	120	90	14	4-14	140	100	18	4-18	140	100	18	4-18
	40	40	115	245	160	130	100	14	4-14	150	110	18	4-18	150	110	18	4-18
PN 10 (DIN 2532)	50	50	125	250	160	140	110	16	4-14	165	125	20	4-18	165	125	20	4-18
	65	65	145	280	180	160	130	16	4-14	185	145	20	4-18	185	145	20	4-18
	80	80	155	310	180	190	150	18	4-18	200	160	22	8-18	200	160	22	8-18
	100	100	175	330	200	210	170	18	4-18	220	180	24	8-18	220	180	24	8-18
	125	125	200	360	200	240	200	18	8-18	250	210	26	8-18	250	210	26	8-18
PN 16 (DIN 2533)	150	150	225	385	250	265	225	20	8-18	285	240	26	8-22	285	240	26	8-22
	175	175	250	415	250	295	255	20	8-18	315	270	26	8-22	315	270	28	8-22
	200	200	275	485	315	320	280	22	8-18	340	295	26	8-22	340	295	30	12-22
	250	250	325	571	315	375	335	22	12-18	395	350	28	12-22	405	355	32	12-26
	300	300	375	671	315	440	395	24	12-22	445	400	28	12-22	460	410	32	12-26
	350	350	425	840	400	490	445	26	12-22	505	460	30	16-22	520	470	36	16-26
	400	400	475	715	500	540	495	26	16-22	565	515	32	16-26	580	525	38	16-30
	450	450	500	825	500	595	550	28	16-22	615	565	32	20-26	640	585	40	20-30
	500	500	515	795	500	645	600	30	20-22	670	620	34	20-26	715	650	42	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

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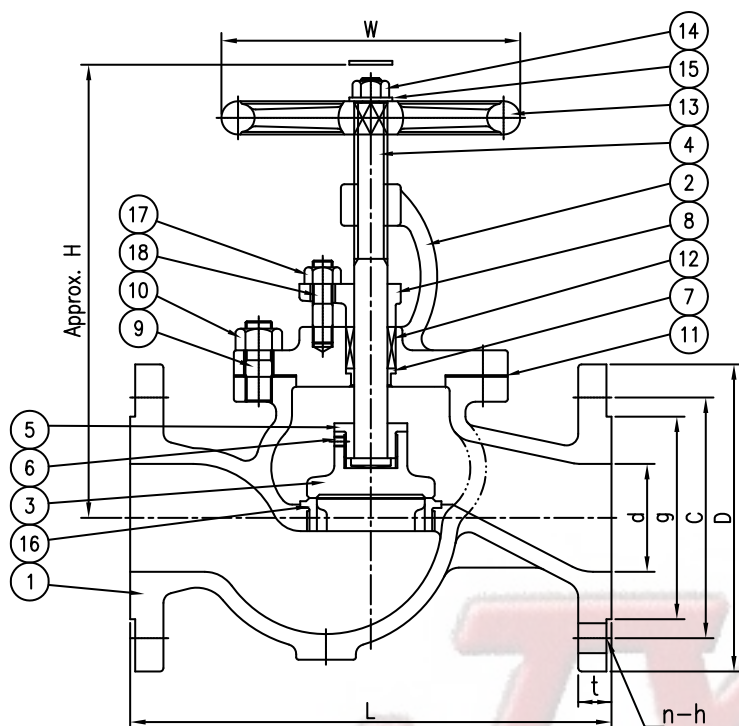
Ductile Iron, Cast Steel DIN Valves

■ PN 6/10 /16 Globe Valves

DIN 86251/F1

■ PN 6/10 /16 Globe Check Valves

DIN 86251/F1

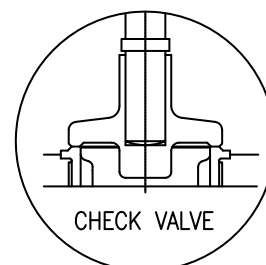


Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG40 CAST STEEL / DIN17245 GS-C25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	PACKING RING	BRASS / STAINLESS STEEL
8	PACKING GLAND	BRASS / STAINLESS STEEL
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	SEAT RING	BRONZE / STAINLESS STEEL
17	NUT	STEEL
18	BOLT	STEEL

Test Pressure (Bar)

Rating	PN 6	PN 10/ PN 16	PN 10/ PN 16	PN 10/ PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3



Dimension Table

(Unit : mm)

Rating	Size	d	L	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	130	220	100	80	55	12	4-11	95	65	14	4-14	95	65	14	4-14
	20	20	150	225	100	90	65	12	4-11	105	75	16	4-14	105	75	16	4-14
	25	25	160	235	100	100	75	12	4-11	115	85	16	4-14	115	85	16	4-14
	32	32	180	240	125	120	90	14	4-14	140	100	18	4-18	140	100	18	4-18
	40	40	200	275	160	130	100	14	4-14	150	110	18	4-18	150	110	18	4-18
	50	50	230	280	160	140	110	16	4-14	165	125	20	4-18	165	125	20	4-18
	65	65	290	310	180	160	130	16	4-14	185	145	20	4-18	185	145	20	4-18
	80	80	310	345	180	190	150	18	4-18	200	160	22	8-18	200	160	22	8-18
	100	100	350	380	200	210	170	18	4-18	220	180	24	8-18	220	180	24	8-18
	125	125	400	420	200	240	200	18	8-18	250	210	26	8-18	250	210	26	8-18
PN 10 (DIN 2532)	150	150	480	470	250	265	225	20	8-18	285	240	26	8-22	285	240	26	8-22
	175	175	550	500	250	295	255	20	8-18	315	270	26	8-22	315	270	28	8-22
	200	200	600	580	315	320	280	22	8-18	340	295	26	8-22	340	295	30	12-22
	250	250	730	690	315	375	335	22	12-18	395	350	28	12-22	405	355	32	12-26
	300	300	850	800	315	440	395	24	12-22	445	400	28	12-22	460	410	32	12-26
	350	350	980	910	400	490	445	26	12-22	505	460	30	16-22	520	470	36	16-26
	400	400	1100	1070	500	540	495	26	16-22	565	515	32	16-26	580	525	38	16-30
	450	450	1200	1165	500	595	550	28	16-22	615	565	32	20-26	640	585	40	20-30
	500	500	1300	1350	500	645	600	30	20-22	670	620	34	20-26	715	650	42	20-33
	500	500	1300	1350	500	645	600	30	20-22	670	620	34	20-26	715	650	42	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

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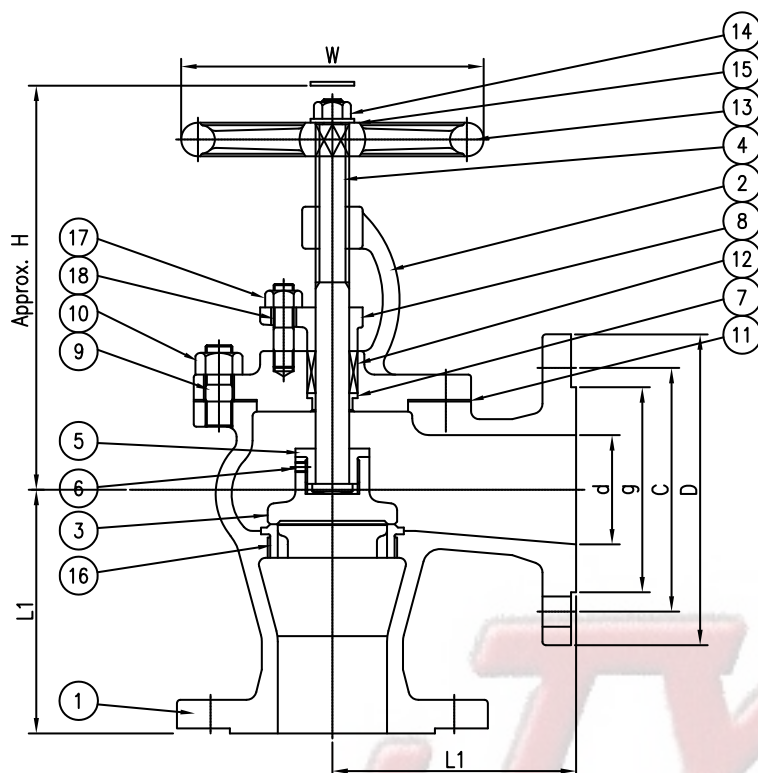
Ductile Iron, Cast Steel DIN Valves

■ PN 6/10 /16 Angle Valves

DIN 86251/F32

■ PN 6/10 /16 Angle Check Valves

DIN 86251/F32

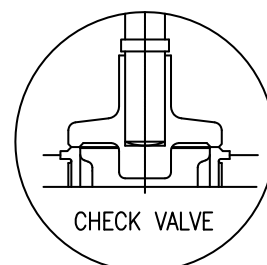


Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG40 CAST STEEL / DIN17245 GS-C25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	PACKING RING	BRASS / STAINLESS STEEL
8	PACKING GLAND	BRASS / STAINLESS STEEL
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	SEAT RING	BRONZE / STAINLESS STEEL
17	NUT	STEEL
18	BOLT	STEEL

Test Pressure (Bar)

Rating	PN 6	PN 10 / PN 16	PN 10 / PN 16	PN 10 / PN 16
Size	15A to 300A	15A to 175A	200A to 300A	300A to 500A
Hydrostatic press test (Shell)	6.6	25	16	6
Hydrostatic press test (Seat)	6	16	10	3



Dimension Table

(Unit : mm)

Rating	Size	d	L1	H	W	PN6 FLANGE				PN10 FLANGE				PN16 FLANGE			
						D	C	t	n-h	D	C	t	n-h	D	C	t	n-h
PN 6 (DIN 2531)	15	15	90	200	100	80	55	12	4-11	95	65	14	4-14	95	65	14	4-14
	20	20	95	200	100	90	65	12	4-11	105	75	16	4-14	105	75	16	4-14
	25	25	100	210	100	100	75	12	4-11	115	85	16	4-14	115	85	16	4-14
	32	32	105	215	125	120	90	14	4-14	140	100	18	4-18	140	100	18	4-18
	40	40	115	245	160	130	100	14	4-14	150	110	18	4-18	150	110	18	4-18
PN 10 (DIN 2532)	50	50	125	250	160	140	110	16	4-14	165	125	20	4-18	165	125	20	4-18
	65	65	145	280	180	160	130	16	4-14	185	145	20	4-18	185	145	20	4-18
	80	80	155	310	180	190	150	18	4-18	200	160	22	8-18	200	160	22	8-18
	100	100	175	330	200	210	170	18	4-18	220	180	24	8-18	220	180	24	8-18
	125	125	200	360	200	240	200	18	8-18	250	210	26	8-18	250	210	26	8-18
PN 16 (DIN 2533)	150	150	225	385	250	265	225	20	8-18	285	240	26	8-22	285	240	26	8-22
	175	175	250	415	250	295	255	20	8-18	315	270	26	8-22	315	270	28	8-22
	200	200	275	485	315	320	280	22	8-18	340	295	26	8-22	340	295	30	12-22
	250	250	325	571	315	375	335	22	12-18	395	350	28	12-22	405	355	32	12-26
	300	300	375	671	315	440	395	24	12-22	445	400	28	12-22	460	410	32	12-26
	350	350	425	840	400	490	445	26	12-22	505	460	30	16-22	520	470	36	16-26
	400	400	475	715	500	540	495	26	16-22	565	515	32	16-26	580	525	38	16-30
	450	450	500	825	500	595	550	28	16-22	615	565	32	20-26	640	585	40	20-30
	500	500	515	795	500	645	600	30	20-22	670	620	34	20-26	715	650	42	20-33

Remark : 1. The name plate shall be specified by purchaser as required.

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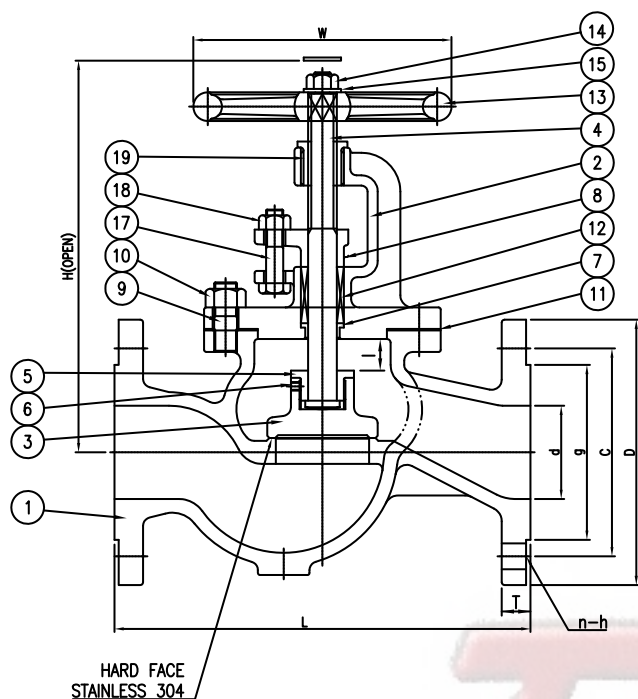
Cast Steel DIN Valves

■ PN 25/PN 40 Globe and Globe Check Valves

DIN/F1

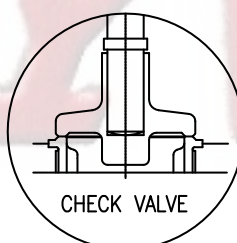
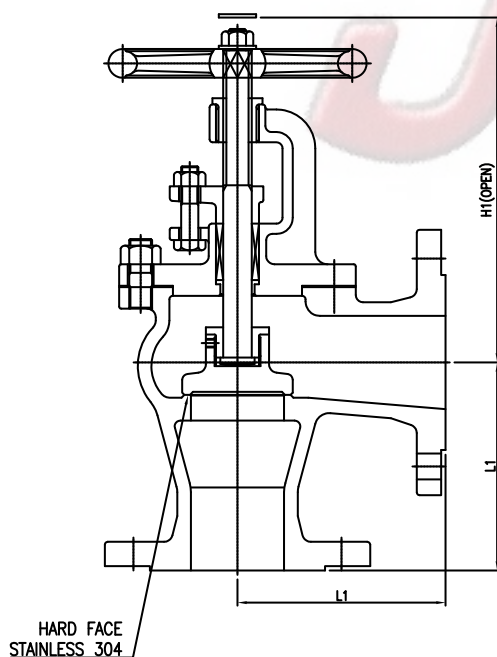
■ PN 25/PN 40 Angle and Angle Check Valves

DIN/F32



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST STEEL / DIN17245 GS-C25
2	BONNET	CAST STEEL / DIN17245 GS-C25
3	DISC	STAINLESS STEEL
4	STEM	STAINLESS STEEL
5	DISC NUT	STAINLESS STEEL
6	SET SCREW	STEEL
7	PACKING RING	STAINLESS STEEL
8	PACKING GLAND	BRONZE
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	HANDWHEEL	CAST IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
-	SEAT RING	HARD FACE WELDING
17	PACKING BOLT	STEEL
18	PACKING NUT	STEEL
18	BONNET BUSH	BRASS



Dimension Table

(Unit : mm)

	d	L	L1	H	H1	W	I	FLANGE					
								D	C	g	T	n-h	
PN25 (DIN2544)	15	130	90	220	200	100	8	95	65	45	16	4-14	
	20	150	95	225	200	100	8	105	75	58	18	4-14	
	25	160	100	235	210	100	11	115	85	68	18	4-14	
	32	180	105	240	215	125	11	140	100	78	18	4-18	
	40	200	115	275	245	160	13	150	110	88	18	4-18	
	50	230	125	280	250	160	16	165	125	102	20	4-18	
	65	290	145	310	280	180	19	185	145	122	22	8-18	
	80	310	155	345	310	180	23	200	160	138	24	8-18	
	100	350	175	380	330	200	30	235	190	162	24	8-22	
	125	400	200	420	360	200	40	270	220	188	26	8-26	
PN40 (DIN2545)	15	130	90	220	200	100	8	95	65	45	16	4-14	
	20	150	95	225	200	100	8	105	75	58	18	4-14	
	25	160	100	235	210	100	11	115	85	68	18	4-14	
	32	180	105	240	215	125	11	140	100	78	18	4-18	
	40	200	115	275	245	160	13	150	110	88	18	4-18	
	50	230	125	280	250	160	16	165	125	102	20	4-18	
	65	290	145	310	280	180	19	185	145	122	22	8-18	
	80	310	155	345	310	180	23	200	160	138	24	8-18	
	100	350	175	380	330	200	30	235	190	162	24	8-22	
	125	400	200	420	360	200	40	270	220	188	26	8-26	

Test Pressure (Bar)

Rating	PN25	PN40
Size	15A to 150A	15A to 150A
Hydrostatic press test (Shell)	37.5	60
Hydrostatic press test (Seat)	27.5	44

Remark : 1. The name plate shall be specified by purchaser as required.

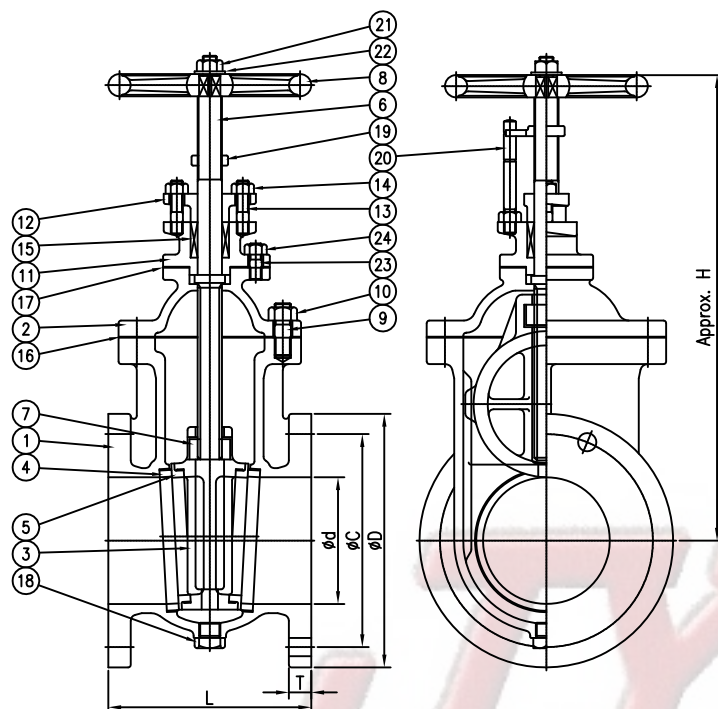
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Cast Bronze DIN Valves

■ PN 10 /16 Gate Valves Non Rising Stem

DIN 3352/2-F4(86703)

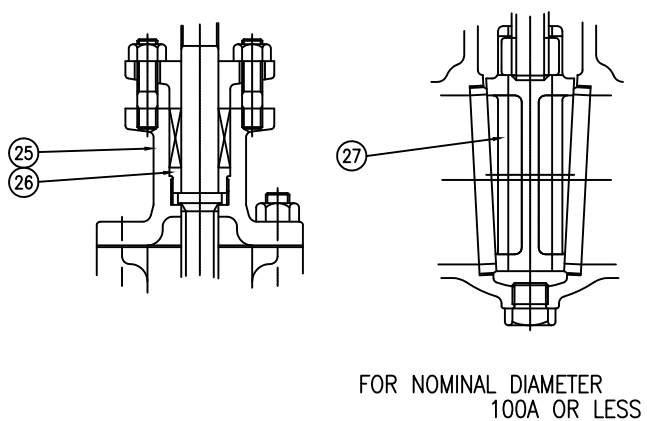
Bolted Bonnet Intergral seat
Non Rising Stem Flanged Ends



NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE / DIN 1705 Rg5
4	BODY SEAT RING	INTERGRAL
5	DISC SEAT RING	INTERGRAL
6	STEM	BRASS
7	DISC NUT	BRONZE
8	HANDWHEEL	CAST IRON
9	BONNET BOLT	STAINLESS STEEL
10	BONNET NUT	STAINLESS STEEL
11	STUFFING BOX	BRONZE / DIN1705 Rg5
12	PACKING GLAND	BRONZE
13	GLAND BOLT	STAINLESS STEEL
14	GLAND NUT	STAINLESS STEEL
15	PACKING	NON ASBESTOS
16	BONNET GASKET	NON ASBESTOS
17	BOX GASKET	NON ASBESTOS
18	PLUG	BRASS
19	INDICATOR	BRONZE
20	INDICATOR BAR	BRASS
21	HANDLE NUT	BRASS / STAINLESS STEEL
22	WASHER	STEEL
23	BOX BOLT	STAINLESS STEEL
24	BOX NUT	STAINLESS STEEL
25	BONNET	BRONZE / DIN1705 Rg5
26	PACKING RING	BRASS
27	DISC	BRONZE / DIN1705 Rg5

Dimension Table

(Unit : mm)



FOR NOMINAL DIAMETER
100A OR LESS

Test Pressure (Bar)

Rating	PN 10	PN 16	PN 10 / PN 16
Size	40A to 300A	40A to 300A	360A to 500A
Hydrostatic press test (Shell)	16	25	6
Hydrostatic press test (Seat)	10	16	3

Rating	Size	d	L	H	FLANGE				Weight (kg)
					D	C	T	N-h	
PN 10 (DIN 2532)	40	40	140	230	150	110	18	4-18	14
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	22	8-18	35
	125	125	200	435	250	210	24	8-18	48
	150	150	210	510	285	240	24	8-22	60
	200	200	230	645	340	295	26	8-22	90
	250	250	250	695	395	350	28	12-22	130
PN 16 (DIN 2533)	300	300	270	810	445	400	28	12-22	160
	40	40	140	230	150	110	18	4-18	14
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	22	8-18	35
	125	125	200	435	250	210	24	8-18	48
	150	150	210	510	285	240	24	8-22	60
	200	200	230	645	340	295	26	12-22	90
	250	250	250	695	405	355	28	12-26	150
	300	300	270	810	460	410	28	12-26	180
	350	350	290	900	520	470	30	16-26	270
	400	400	310	1000	580	525	32	16-30	350

Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Iron DIN Valves

■ PN 10/16 Gate Valves Non Rising Stem

DIN 3352/2-F4(DIN3216)

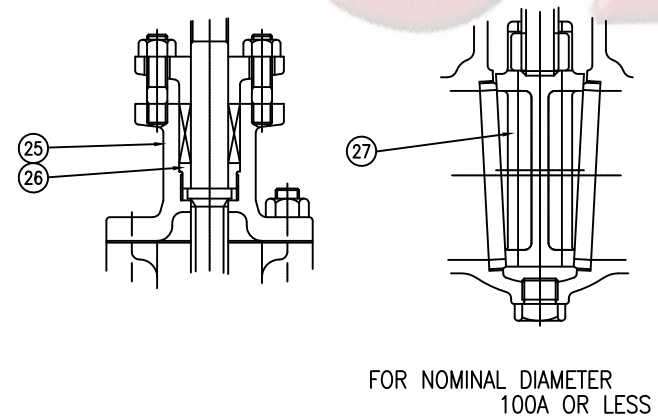
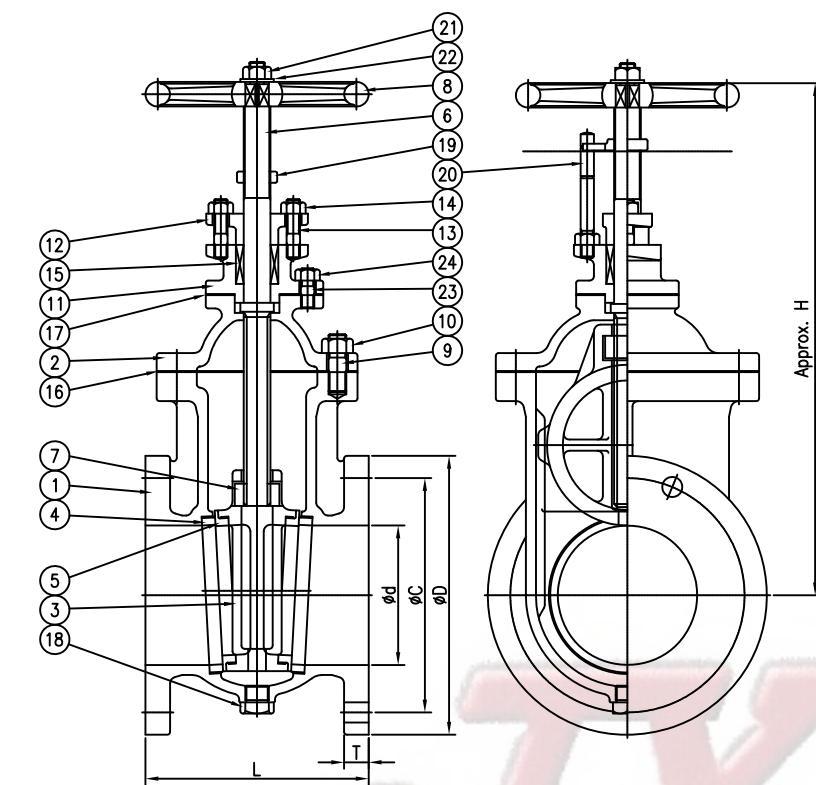
Bolted Bonnet Renewable seat
Non Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST IRON / DIN1691 GG-25
2	BONNET	CAST IRON / DIN1691 GG-25
3	DISC	CAST IRON / DIN1691 GG-25
4	BODY SEAT RING	BRONZE / STAINLESS STEEL
5	DISC SEAT RING	BRONZE / STAINLESS STEEL
6	STEM	BRASS / STAINLESS STEEL
7	DISC NUT	BRONZE / STAINLESS STEEL
8	HANDWHEEL	CAST IRON
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	STUFFING BOX	CAST IRON
12	PACKING GLAND	BRONZE
13	GLAND BOLT	STEEL
14	GLAND NUT	STEEL
15	PACKING	NON ASBESTOS
16	BONNET GASKET	NON ASBESTOS
17	BOX GASKET	NON ASBESTOS
18	PLUG	BRASS
19	INDICATOR	BRONZE
20	INDICATOR BAR	BRASS
21	HANDLE NUT	STEEL
22	WASHER	STEEL
23	BOX BOLT	STEEL
24	BOX NUT	STEEL
25	BONNET	CAST IRON
26	PACKING RING	BRASS / STAINLESS STEEL
27	DISC	BRONZE / STAINLESS STEEL

Dimension Table

(Unit : mm)

Rating	Size	d	L	H	FLANGE				Weight (kg)
					D	C	T	N-h	
PN 10 (DIN 2532)	40	40	140	230	150	110	18	4-18	13
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	22	8-18	35
	125	125	200	435	250	210	24	8-18	48
	150	150	210	510	285	240	24	8-22	60
	200	200	230	645	340	295	26	8-22	90
	250	250	250	695	395	350	28	12-22	130
PN 16 (DIN 2533)	300	300	270	810	445	400	28	12-22	160
	40	40	140	230	150	110	18	4-18	13
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	24	8-18	35
	125	125	200	435	250	210	26	8-18	48
	150	150	210	510	285	240	28	8-22	60
	200	200	230	645	340	295	30	12-22	90
	250	250	250	695	405	355	32	12-26	130
	300	300	270	810	460	410	32	12-26	160
	350	350	290	900	520	470	36	16-26	240
	400	400	310	1000	580	525	38	16-30	320



Test Pressure (Bar)

Rating	PN 10	PN 16	PN 10 / PN 16
Size	40A to 300A	40A to 300A	350A to 500A
Hydrostatic press test (Shell)	16	25	6
Hydrostatic press test (Seat)	10	16	3

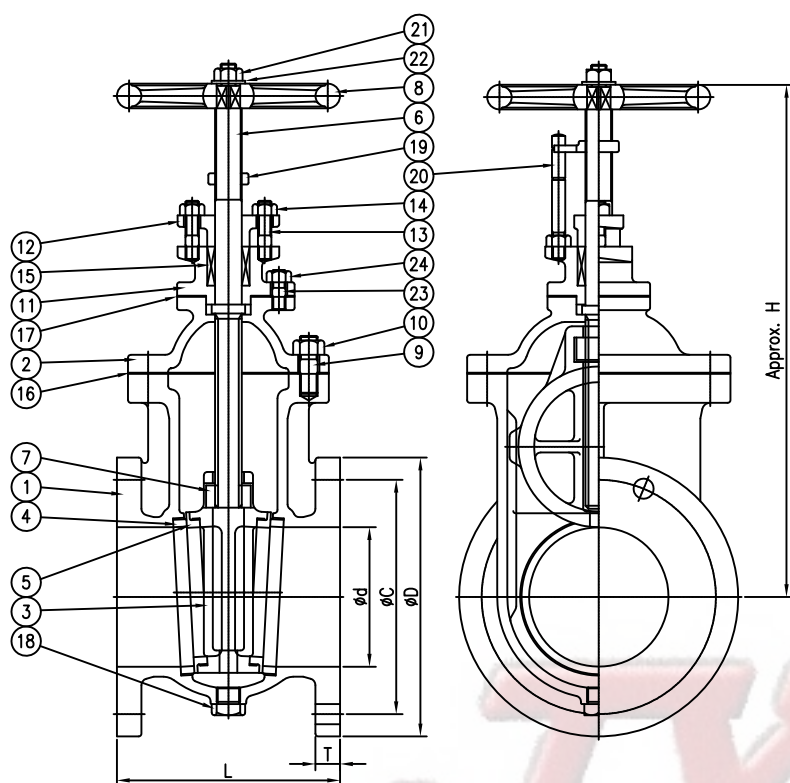
Remark : 1. The name plate shall be specified by purchaser as required.

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Ductile Iron, Cast Steel DIN Valves

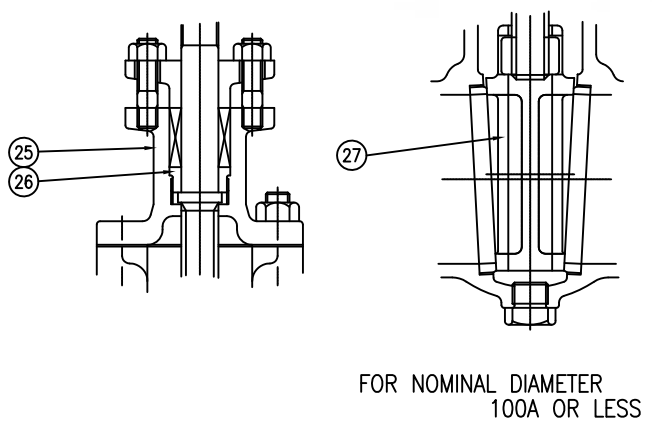
■ PN 10 /16 Gate Valves Non Rising Stem

DIN 3352/2-F4(DIN3216)



Bolted Bonnet Renewable seat
Non Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
3	DISC	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
4	BODY SEAT RING	BRONZE / STAINLESS STEEL
5	DISC SEAT RING	BRONZE / STAINLESS STEEL
6	STEM	BRASS / STAINLESS STEEL
7	DISC NUT	BRONZE / STAINLESS STEEL
8	HANDWHEEL	CAST IRON
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	STUFFING BOX	DUCTILE CAST IRON
12	PACKING GLAND	BRONZE
13	GLAND BOLT	STEEL
14	GLAND NUT	STEEL
15	PACKING	NON ASBESTOS
16	BONNET GASKET	NON ASBESTOS
17	BOX GASKET	NON ASBESTOS
18	PLUG	BRASS
19	INDICATOR	BRONZE
20	INDICATOR BAR	BRASS
21	HANDLE NUT	STEEL
22	WASHER	STEEL
23	BOX BOLT	STEEL
24	BOX NUT	STEEL
25	BONNET	DUCTILE CAST IRON AND CAST STEEL
26	PACKING RING	BRASS / STAINLESS STEEL
27	DISC	BRONZE / STAINLESS STEEL



Dimension Table

(Unit : mm)

Rating	Size	d	L	H	FLANGE				Weight (kg)
					D	C	T	N-h	
PN 10 (DIN 2532)	40	40	140	230	150	110	18	4-18	13
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	22	8-18	35
	125	125	200	435	250	210	24	8-18	48
	150	150	210	510	285	240	24	8-22	60
	200	200	230	645	340	295	26	8-22	90
	250	250	250	695	395	350	28	12-22	130
PN 16 (DIN 2533)	300	300	270	810	445	400	28	12-22	160
	40	40	140	230	150	110	18	4-18	13
	50	50	150	240	165	125	20	4-18	16
	65	65	170	270	185	145	20	4-18	21
	80	80	180	310	200	160	22	8-18	27
	100	100	190	345	220	180	24	8-18	35
	125	125	200	435	250	210	26	8-18	48
	150	150	210	510	285	240	26	8-22	60
	200	200	230	645	340	295	30	12-22	90
	250	250	250	695	405	355	32	12-26	130
	300	300	270	810	460	410	32	12-26	160
	350	350	290	900	520	470	36	16-26	240
	400	400	310	1000	580	525	38	16-30	320

Test Pressure (Bar)

Rating	PN 10	PN 16	PN 10 / PN 16
Size	40A to 300A	40A to 300A	350A to 500A
Hydrostatic press test (Shell)	16	25	6
Hydrostatic press test (Seat)	10	16	3

Remark : 1. The name plate shall be specified by purchaser as required.

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Ductile Iron, Cast Steel DIN Valves

■ PN 10 /16 Gate Valves OS&Y Rising Stem

DIN 3352/2-F4(DIN3216)

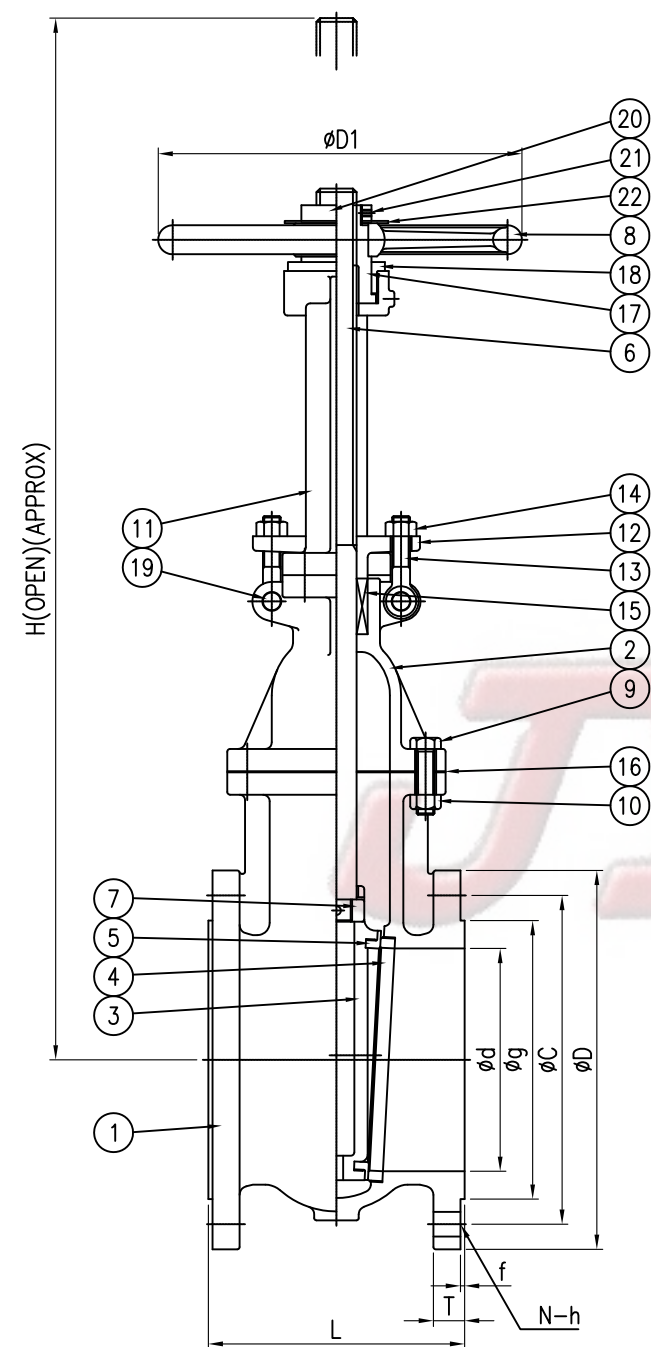
Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
3	DISC	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
4	BODY SEAT RING	BRONZE / STAINLESS STEEL
5	DISC SEAT RING	BRONZE / STAINLESS STEEL
6	STEM	BRASS / STAINLESS STEEL
7	DISC NUT	BRONZE / STAINLESS STEEL
8	HANDWHEEL	CAST IRON
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	BONNET YORK	DUCTILE CAST IRON / CAST STEEL
12	PACKING GLAND	BRONZE
13	GLAND BOLT	STEEL
14	GLAND NUT	STEEL
15	PACKING	NON ASBESTOS
16	BONNET GASKET	NON ASBESTOS
17	BUSH	BRONZE / BRASS
18	YORK NUT	BRASS
19	EYE BOLT PIN	STEEL
20	HANDWHEEL NUT	BRASS
21	SET SCREW	STAINLESS STEEL
22	WASHER	STEEL

Dimension Table

(Unit : mm)

Rating	Size	d	L	H	FLANGE				Weight (kg)
					D	C	T	N-h	
PN 10 (DIN 2532)	40	40	140	350	150	110	18	4-18	17
	50	50	150	385	165	125	20	4-18	19
	65	65	170	440	185	145	20	4-18	25
	80	80	180	505	200	160	22	8-18	29
	100	100	190	600	220	180	22	8-18	36
	125	125	200	695	250	210	24	8-18	47
	150	150	210	790	285	240	24	8-22	57
	200	200	230	975	340	295	26	8-22	109
	250	250	250	1070	395	350	28	12-22	126
PN 16 (DIN 2533)	300	300	270	1400	445	400	28	12-22	164
	40	40	140	350	150	110	18	4-18	13
	50	50	150	385	165	125	20	4-18	16
	65	65	170	440	185	145	20	4-18	21
	80	80	180	505	200	160	22	8-18	27
	100	100	190	600	220	180	24	8-18	35
	125	125	200	696	250	210	26	8-18	48
	150	150	210	790	285	240	26	8-22	60
	200	200	230	975	340	295	30	12-22	90
	250	250	250	1070	405	355	32	12-26	150
	300	300	270	1400	460	410	32	12-26	190
	350	350	290	1700	520	470	36	16-26	360
	400	400	310	1900	580	525	38	16-30	450



Test Pressure (Bar)

Rating	PN 10	PN 16	PN 10 / PN 16
Size	40A to 300A	40A to 300A	350A TO 500A
Hydrostatic press test (Shell)	16	25	6
Hydrostatic press test (Seat)	10	16	3

Remark : 1. The name plate shall be specified by purchaser as required.

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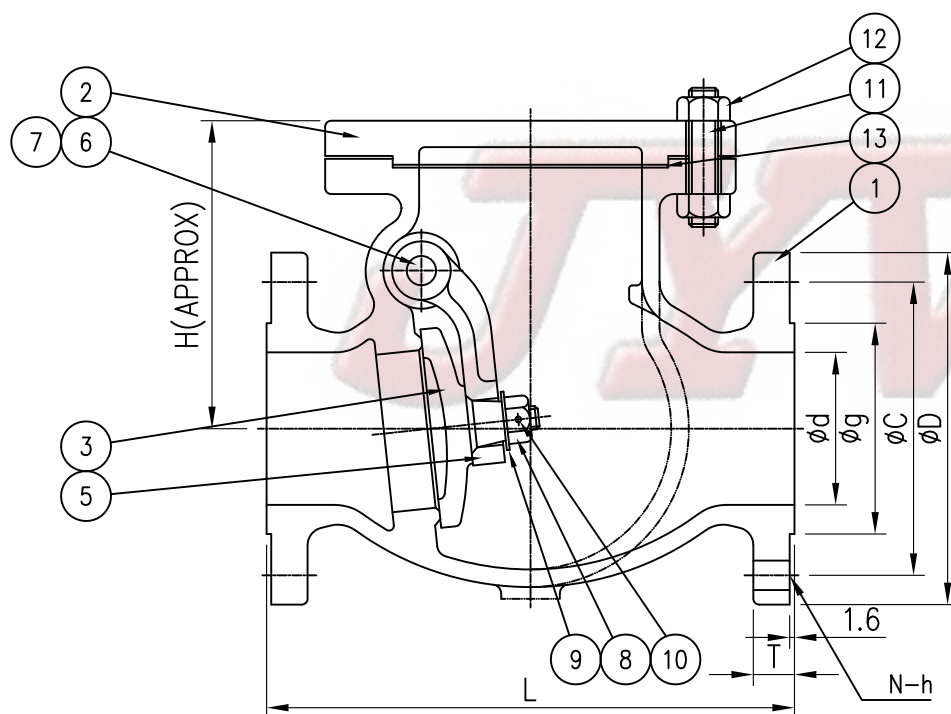
Cast Steel DIN Valves

PN 16 Swing Check Valves (Bolted Bonnet)

DIN 3232/F6

Bolted Bonnet Integral seat

NO.	PARTS	MATERIAL
1	BODY	CAST STEEL / GS-C25
2	BONNET	CAST STEEL / GS-C25
3	DISC	STAINLESS STEEL/BRONZE
4	SEAT	STAINLESS STEEL/BRONZE
5	ARM	BRONZE / ASTM B62
6	HINGE PIN	STAINLESS STEEL
7	PLUG	BRASS /STAINLESS STEEL
8	DISC LOCK NUT	BRASS
9	WASHER	STAINLESS STEEL
10	SPLIT PIN	BRONZE
11	BONNET BOLT	STEEL
12	BONNET NUT	STEEL
13	GASKET	NON ASBESTOS
14	EYE BOLT	STAINLESS STEEL



Test Pressure (Bar)

Rating	PN 16
Size	50A to 150A
Hydrostatic press test (Shell)	24
Hydrostatic press test (Seat)	16

Dimension Table (Unit : mm)

Rating	Size	50	65	80	100	125	150
ANSI 150#	d	50	65	80	100	125	150
	D	165	185	200	220	250	285
	C	125	145	160	180	210	240
	g	102	122	138	158	188	212
	t	20	20	22	24	26	26
	N-øh	4-18	4-18	8-18	8-18	8-18	8-22
	L	200	240	260	300	350	400
	H	105	145	150	160	195	215

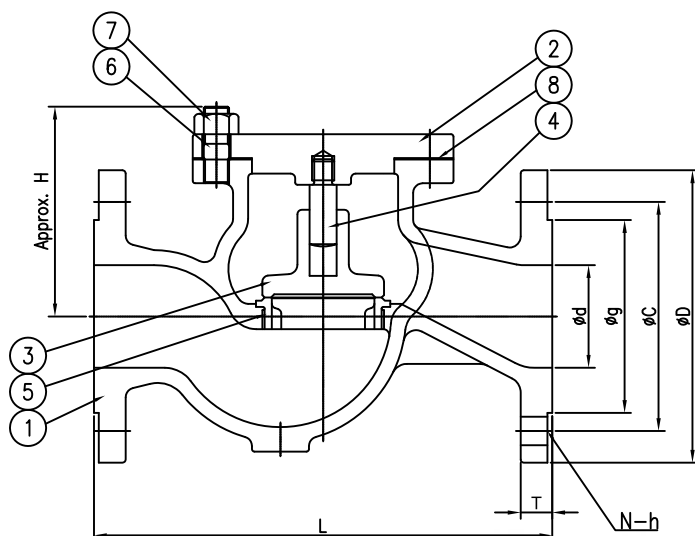
Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Bronze. Ductile Iron. Cast Steel DIN Valve

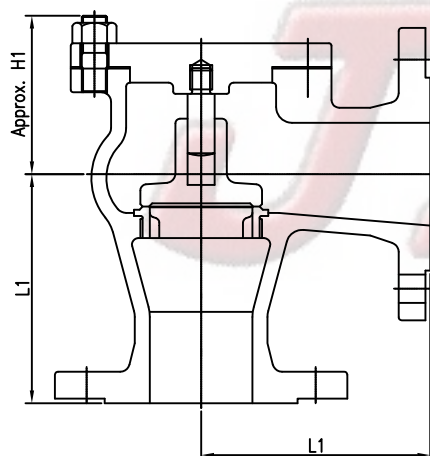
PN 10/16 Lift Check Valves

DIN 86253/F1/F32



Bolted Bonnet Integral seat
Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5 DUCTILE IRON/DIN1693 GGG-40 CAST STEEL/DIN17245 GS-C25
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE
4	STEM	BRASS
5	SEAT RING	INTERIAL
6	BONNET BOLT	STAINLESS STEEL
7	BONNET NUT	STAINLESS STEEL
8	GASKET	NON ASBESTOS



Test Pressure (Bar)

Rating	PN 16	PN 10
Size	40A to 100A	40A to 100A
Hydrostatic press test (Shell)	25	16
Hydrostatic press test (Seat)	16	10

Dimension Table

(Unit : mm)

Rating	Size	d	L	L1	H	H1	FLANGE					Weight (kg)
							D	C	g	t	n-h	
PN 10 (DIN 2532)	40	40	200	115	95	75	150	110	88	14	4-18	11
	50	50	230	125	105	80	165	125	102	16	4-18	14
	65	65	290	145	120	90	185	145	122	16	4-18	20
	80	80	310	155	135	95	200	160	138	18	4-18	24
	100	100	350	175	155	105	220	180	158	18	8-18	33
Rating	Size	d	L	L1	H	H1	FLANGE					Weight (kg)
							D	C	g	t	n-h	
PN 16 (DIN 2533)	40	40	200	115	95	75	150	110	88	14	4-18	11
	50	50	230	125	105	80	165	125	102	16	4-18	14
	65	65	290	145	120	90	185	145	122	16	4-18	20
	80	80	310	155	135	95	200	160	138	18	8-18	24
	100	100	350	175	155	105	220	180	158	18	8-18	33

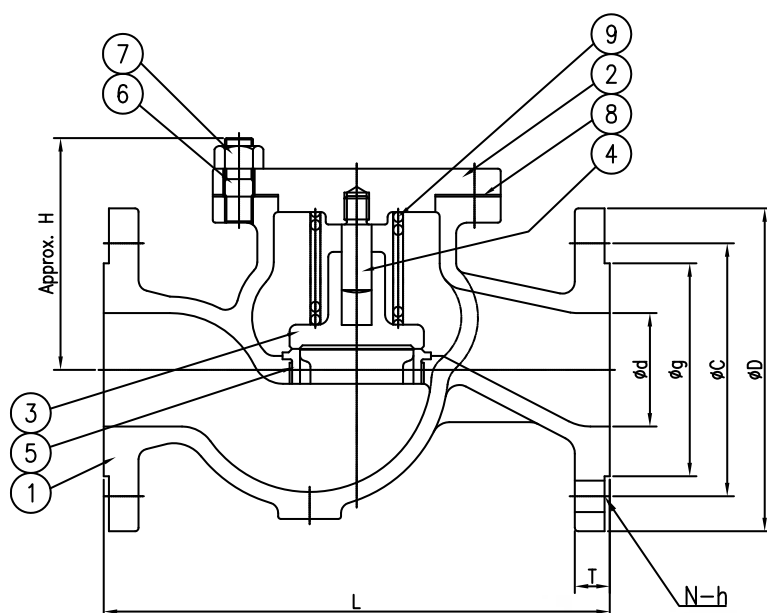
Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Iron DIN Valves

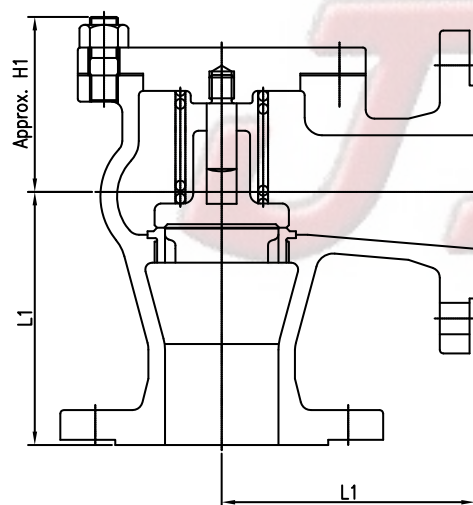
■ PN 10/16 Feed Check Valves

DIN 86253/F1/F32



Bolted Bonnet Renewable seat
Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST IRON / DIN1691 GG-25
2	BONNET	CAST IRON / DIN1691 GG-25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	SEAT RING	BRONZE / STAINLESS STEEL
6	BONNET BOLT	STEEL
7	BONNET NUT	STEEL
8	GASKET	GRAPHITE
9	SPRING	STAINLESS STEEL



Test Pressure (Bar)

Rating	PN 16	PN 10
Size	40A to 100A	40A to 100A
Hydrostatic press test (Shell)	25	16
Hydrostatic press test (Seat)	16	10

Dimension Table

(Unit : mm)

Rating	Size	d	L	L1	H	H1	FLANGE					Weight (kg)
							D	C	g	t	n-h	
PN 10 (DIN 2532)	40	40	200	115	95	75	150	110	88	18	4-18	11
	50	50	230	125	105	80	165	125	102	20	4-18	14
	65	65	290	145	120	90	185	145	122	20	4-18	20
	80	80	310	155	135	95	200	160	138	22	4-18	24
	100	100	350	175	155	105	220	180	158	24	8-18	33
Rating	Size	d	L	L1	H	H1	FLANGE					Weight (kg)
							D	C	g	t	n-h	
PN 16 (DIN 2533)	40	40	200	115	95	75	150	110	88	18	4-18	11
	50	50	230	125	105	80	165	125	102	20	4-18	14
	65	65	290	145	120	90	185	145	122	20	4-18	20
	80	80	310	155	135	95	200	160	138	22	8-18	24
	100	100	350	175	155	105	220	180	158	24	8-18	33

Remark : 1. The name plate shall be specified by purchaser as required.

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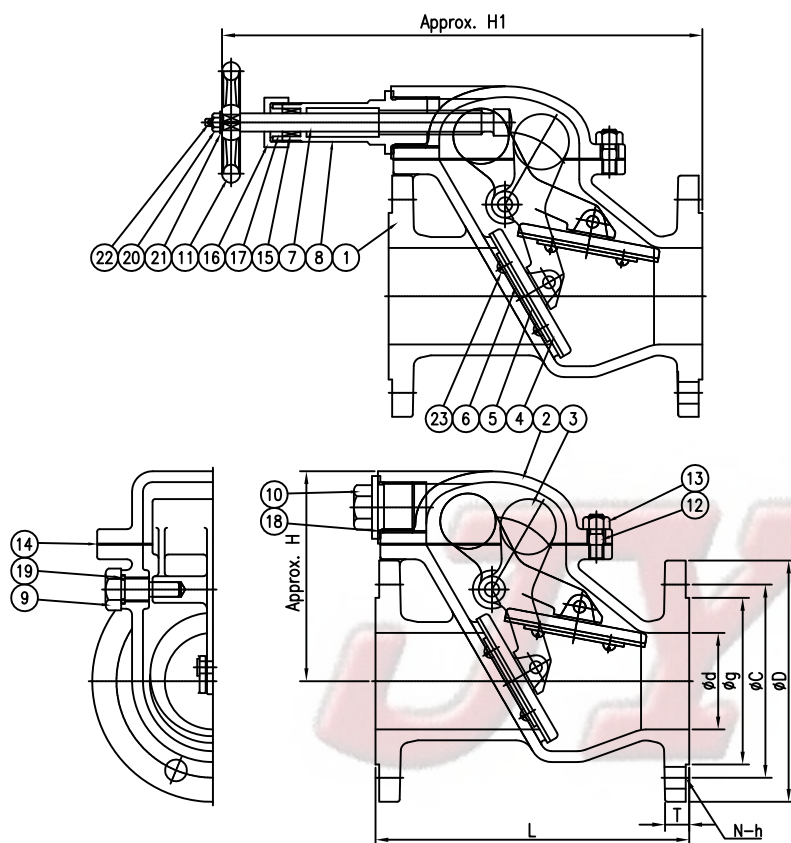
Cast Steel DIN Valves

PN 10/16 Storm Valves

DIN 87101/F6

Bolted Bonnet Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST STEEL / DIN17245 GS-C25
2	BOONET	CAST STEEL / DIN17245 GS-C25
3	ARM	BRONZE
4	FLAP	BRONZE
5	GASKET	NBR
6	PLATE	BRASS
7	SPINDLE	BRASS
8	HEAD PIECE	BRONZE
9	STAY	STAINLESS STEEL
10	DUST PLUG	BRASS
11	HANDLE	CAST IRON
12	BONNET BOLT	STEEL
13	BONNET NUT	STEEL
14	GASKET	NON ASBESTOS
15	PACKING	NON ASBESTOS
16	GLAND NUT	BRASS
17	PACKING RING	BRASS
18	O-RING	NBR
19	O-RING	NBR
20	HANDLE NUT	BRASS
21	WASHER	STEEL
22	SPLIT PIN	BRASS
23	SET SCREW	BRASS



Test Pressure (Bar)

Rating	PN 10	PN 16
Size	50A to 150A	50A to 150A
Hydrostatic press test (Shell)	5.1	5.1

Dimension Table

(Unit : mm)

Rating	SIZE	d	L	H	H1	FLANGE				
						D	C	g	N-h	T
PN 10 (DIN 2532)	50	50	200	140	370	165	125	102	4-18	18
	65	65	240	150	410	185	145	122	4-18	18
	80	80	260	175	420	200	160	138	8-18	20
	100	100	300	195	510	220	180	158	8-18	20
	125	125	350	220	540	250	210	188	8-18	22
	150	150	400	245	585	285	240	212	8-22	22
Rating	SIZE	d	L	H	H1	FLANGE				
						D	C	g	N-h	T
PN 16 (DIN 2533)	50	50	200	140	370	165	125	102	4-18	18
	65	65	240	150	410	185	145	122	4-18	18
	80	80	260	175	420	200	160	138	8-18	20
	100	100	300	195	510	220	180	158	8-18	20
	125	125	350	220	540	250	210	188	8-18	22
	150	150	400	245	585	285	240	212	8-22	22

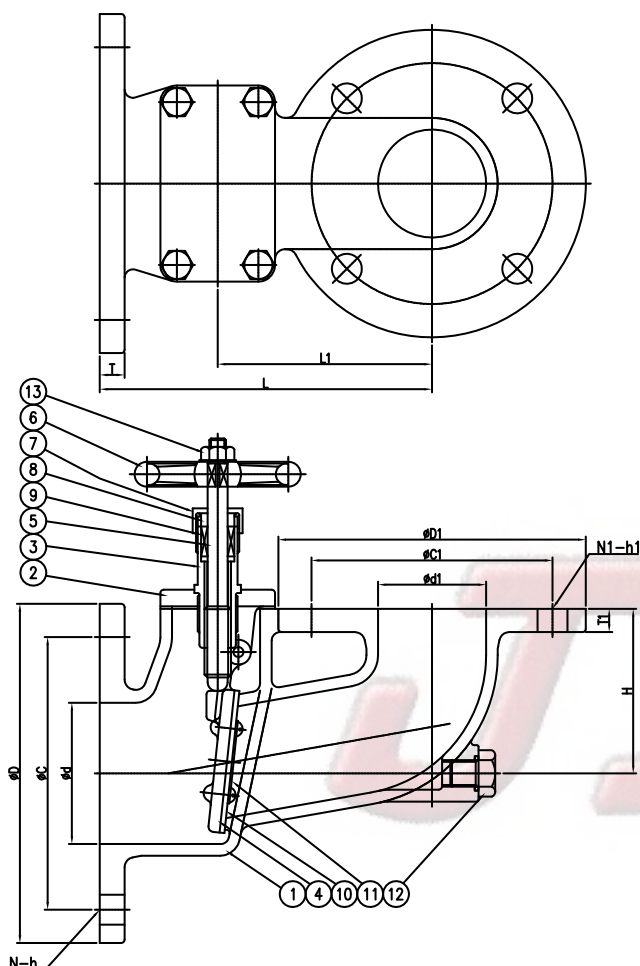
Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Steel DIN Valves

■ PN 10/16 Angle Storm Valves

DIN 87101



Bolted Bonnet Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	CAST STEEL / DIN17245 GS-C25
2	BOONET	CAST STEEL / DIN17245 GS-C25
3	BONNET BUSH	BRASS
4	FLAP	BRONZE
5	STEM	BRASS OR STAINLESS STEEL
6	HANDWHEEL	CAST STEEL
7	PACKING GLAND NUT	BRASS
8	PACKING GLAND	BRASS
9	PACKING	NON ASBESTOS
10	SEAT	NBR
11	SEAT PLATE	STAINLESS STEEL PLATE
12	PLUG BOLT	STEEL
13	HANDWHEEL NUT	STEEL

Test Pressure (Bar)

Rating	PN 10	PN 16
Size	50A to 150A	50A to 150A
Hydrostatic press test (Shell)	5.1	5.1

Dimension Table

(Unit : mm)

Rating	SIZE	d	d1	L	L1	FLANGE				FLANGE			
						D	C	N-h	T	D1	C1	N1-h1	T1
PN 10 (DIN 2332)	50	68	50	180	112.5	200	165	8-18	14	165	125	4-18	13
	65	85	65	200	129	220	180	8-18	15	185	145	4-18	14
	80	100	80	215	140	250	210	8-18	15	200	160	8-18	14
	100	130	100	250	155	285	240	8-22	17	220	180	8-18	14
	125	158	125	290	176	315	270	8-22	18	250	210	8-18	16
	150	190	150	330	198.5	340	295	8-22	20	285	240	8-22	18
Rating	SIZE	d	d1	L	L1	FLANGE				FLANGE			
						D	C	N-h	T	D1	C1	N1-h1	T1
PN 16 (DIN 2333)	50	68	50	180	112.5	200	165	8-18	14	165	125	4-18	13
	65	85	65	200	129	220	180	4-18	15	185	145	4-18	14
	80	100	80	215	140	250	210	8-18	15	200	160	8-18	14
	100	130	100	250	155	285	240	8-22	17	220	180	8-18	14
	125	158	125	290	176	315	270	8-22	18	250	210	8-18	16
	150	190	150	330	585	340	295	8-22	20	285	240	8-22	18

Remark : 1. The name plate shall be specified by purchaser as required.

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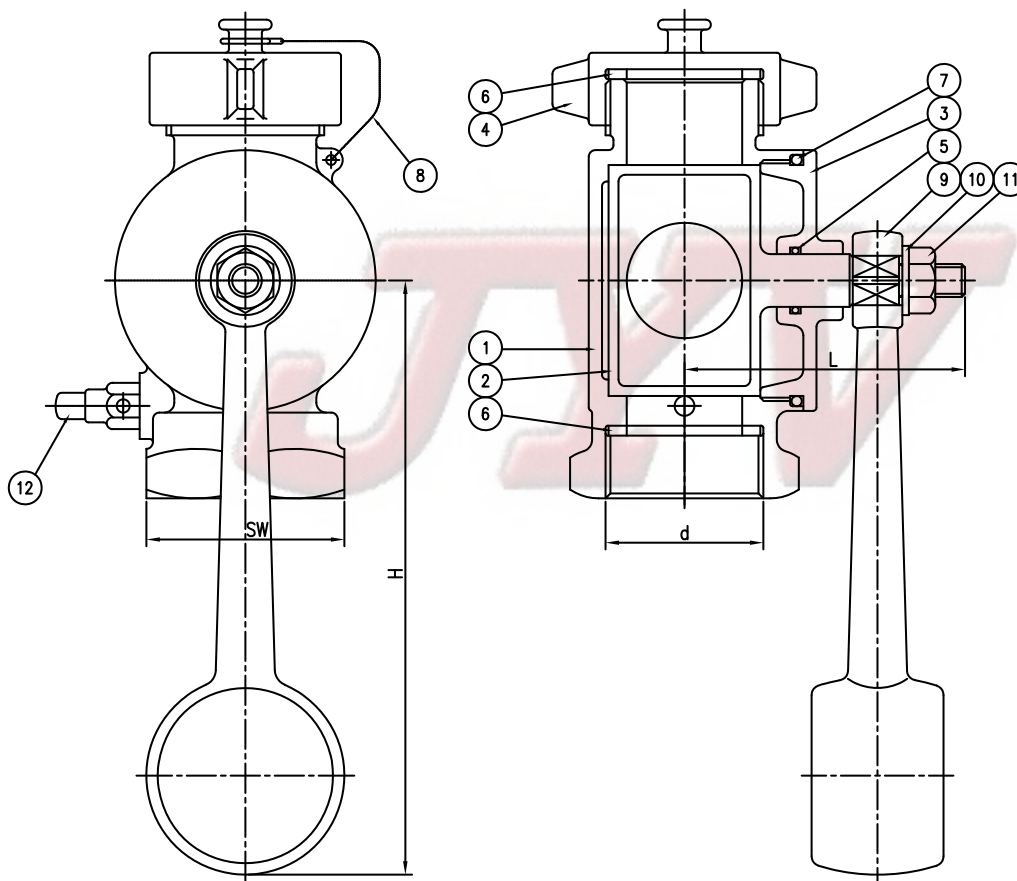


Cast Bronze DIN Valves

■ Self Closing Sounding Cocks

DIN 86120

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	PLUG	BRONZE / DIN1705 Rg5
3	COVER	BRONZE / DIN1705 Rg5
4	SCREW CAP	BRONZE
5	O-RING	NBR
6	GASKET	NBR
7	O-RING	NBR
8	CHAIN WITH CLIP	BRASS
9	LEVER	CAST IRON
10	WASHER	STAINLESS STEEL
11	NUT	STAINLESS STEEL
12	DRAIN COCK	BRASS



Test Pressure (Bar)

Rating	
Hydrostatic press test (Shell)	3

Dimension Table

(Unit : mm)

SIZE	d	SW	L	H	WEIGHT(kg)
40A	R 1-1/2	60	85	190	4.0
50A	R 2	70	85	190	7.5

Remark : 1. The name plate shall be specified by purchaser as required.

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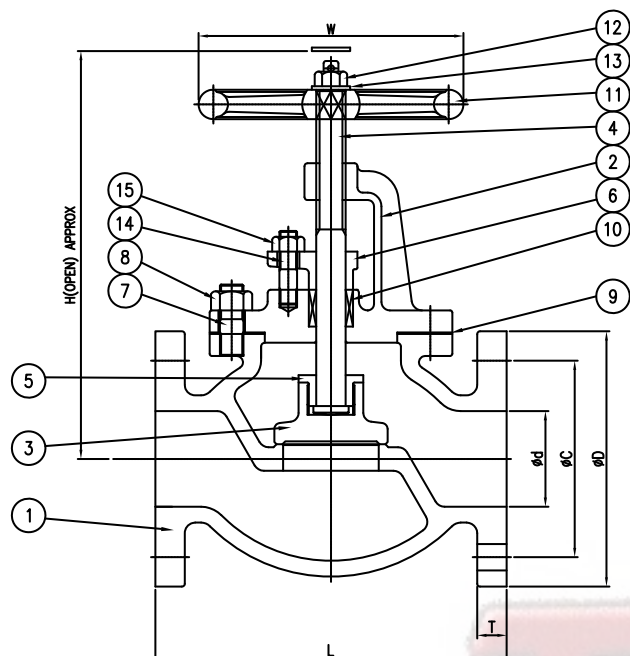
Cast Bronze DIN Valves

■ PN 10/16 Globe Valves and Globe Check Valves

DIN BB Short Type

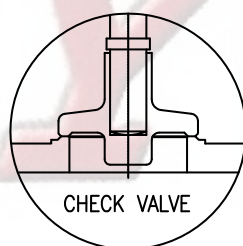
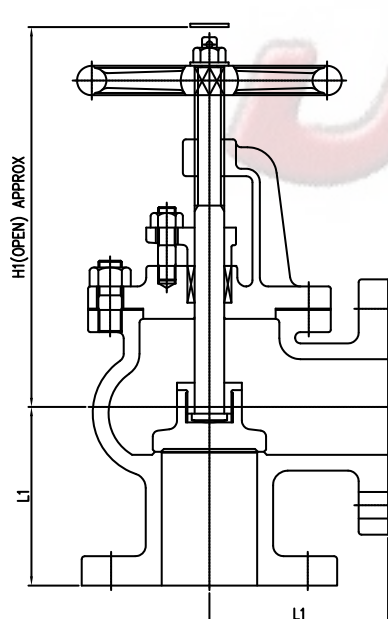
■ PN 10/16 Angle Valves and Angle Check Valves

DIN BB Short Type



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE / BRASS
4	STEM	BRASS
5	DISC NUT	BRASS
6	PACKING GLAND	BRASS
7	BONNET BOLT	STAINLESS STEEL
8	BONNET NUT	STAINLESS STEEL
9	GASKET	NON ASBESTOS
10	PACKING	NON ASBESTOS
11	HANDWHEEL	CAST IRON
12	HANDLE NUT	STAINLESS STEEL
13	WASHER	STAINLESS STEEL
14	PACKING BOLT	STAINLESS STEEL
15	PACKING NUT	STAINLESS STEEL



Dimension Table

(Unit : mm)

Test Pressure (Bar)

Rating	PN10 / PN16
Size	15A to 200A
Hydrostatic press test (Shell)	25
Hydrostatic press test (Seat)	16

	d	L	H	W	L1	H1	FLANGE			
							D	C	T	n-h
PN10 (DIN2532)	15	120	175	100	65	175	95	65	8	4-14
	20	120	175	100	65	175	105	75	8	4-14
	25	140	178	125	70	178	115	85	10	4-14
	32	150	200	125	90	200	140	100	10	4-18
	40	155	220	140	90	220	150	110	11	4-18
	50	180	250	140	105	250	165	125	11	4-18
	65	200	260	140	115	260	185	145	13	4-18
	80	240	300	180	125	300	200	160	14	8-18
	100	270	350	200	145	350	220	180	17	8-18
	125	320	380	224	170	380	250	210	19	8-18
	150	370	440	280	200	440	285	240	22	8-22
	200	500	620	315	250	570	340	295	22	8-22
PN16 (DIN2533)	250	730	670	400	325	550	395	350	28	12-22
	300	850	750	400	375	620	445	400	28	12-22
	200	500	620	315	250	570	340	295	22	12-22
	250	730	670	400	325	550	405	355	25	12-26
	300	850	750	400	375	620	460	410	28	12-26

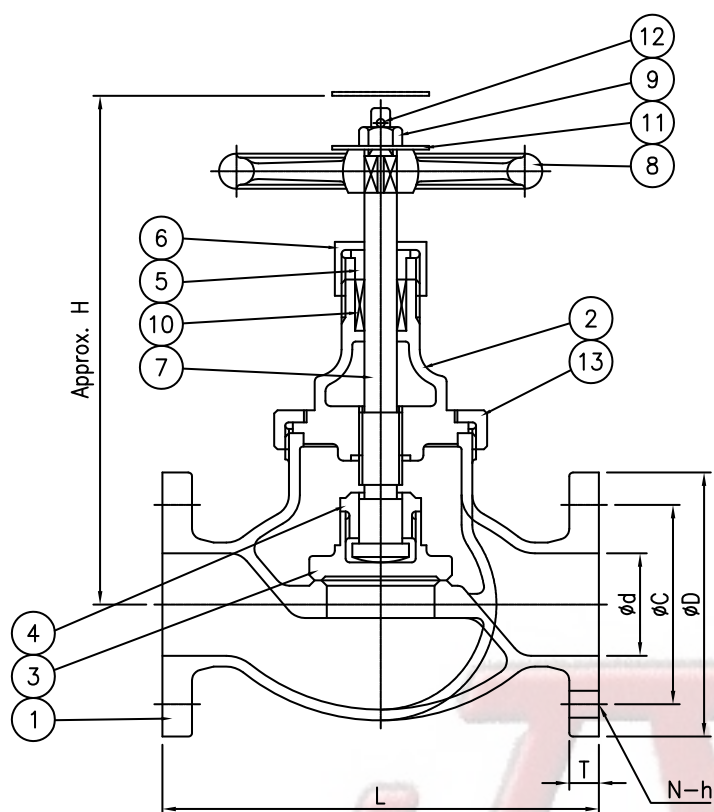
Remark : 1. The name plate shall be specified by purchaser as required.

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Cast Bronze DIN Valves

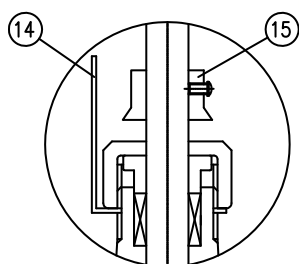
■ PN 10/PN16 Globe and Globe Check Valves (Union Bonnet Type)

DIN Long Type

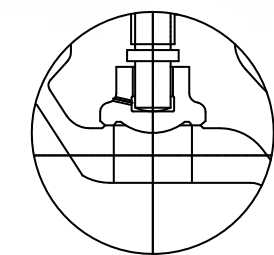


Union Bonnet Integral seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE OR BRASS
4	DISC NUT	BRASS
5	PACKING GLAND	BRASS
6	GLAND NUT	BRASS
7	STEM	BRASS
8	HANDWHEEL	CAST IRON
9	HANDLE NUT	STEEL
10	PACKING	NON ASBESTOS
11	WASHER	STEEL
12	SPLIT PIN	BRASS
13	BONNET NUT	BRONZE / DIN1705 Rg5
14	INDICATOR PLATE	BRASS
15	INDICATOR PIECE	BRASS



Indicator



Screw Down Non Return
(SDNR)

Test Pressure (Bar)

Rating	PN10/PN16
Hydrostatic press test (Shell)	25
Hydrostatic press test (Seat)	16

Dimension Table

(Unit : mm)

NB	d	L	FLANGE				a	D1	H
			D	C	N-h	T			
10	10	120	90	60	4-14	8	2.5	80	110
15	15	120	95	65	4-14	8	3	80	115
20	20	120	105	75	4-14	8	3	80	125
25	25	140	115	85	4-14	10	3	80	140
32	32	150	140	100	4-18	10	3.5	125	155
40	40	155	150	110	4-18	11	4	125	175
50	50	180	165	125	4-18	11	4.5	125	195
65	65	200	185	145	4-18	13	5.5	140	225
80	80	240	200	160	8-18	14	6	140	225
100	100	270	220	180	8-18	17	7	160	280

Remark : 1. The flanges shall conform to nominal pressure DIN

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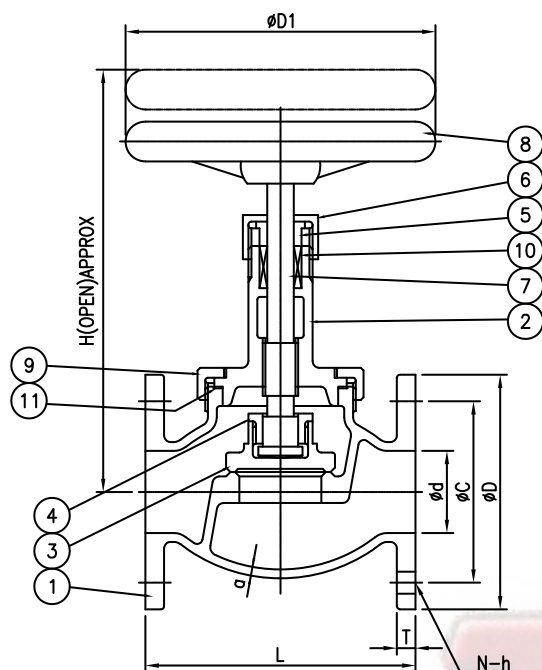
Cast Bronze DIN Valves

■ PN 10/PN16 Globe and Globe Check Valves (Union Bonnet Type)

DIN Short Type

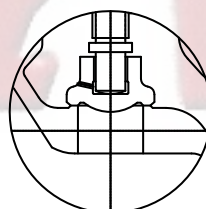
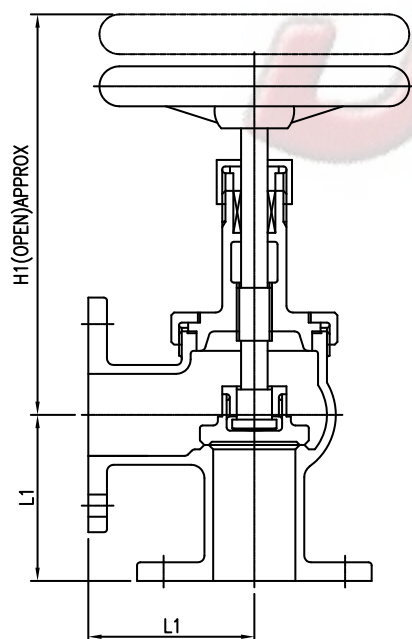
■ PN 10/PN16 Angle and Angle Check Valves (Union Bonnet Type)

DIN Short Type



Union Bonnet Integral seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE OR BRASS
4	DISC NUT	BRASS
5	PACKING GLAND	BRASS
6	GLAND NUT	BRASS
7	STEM	BRASS
8	HANDWHEEL	CAST IRON
9	BONNET NUT	BRONZE
10	PACKING	NON ASBESTOS
11	GASKET	NON ASBESTOS



Screw Down Non Return
(SDNR)

Dimension Table

(Unit : mm)

NB	d	L	L1	FLANGE				a	D1	H	H1
				D	C	N-h	T				
10	10	70	65	90	60	4-14	8	2.5	80	110	105
15	15	70	65	95	65	4-14	8	3	80	115	105
20	20	80	70	105	75	4-14	8	3	80	125	110
25	25	90	75	115	85	4-14	10	3	80	140	125
32	32	105	90	140	100	4-18	10	3.5	125	155	140
40	40	120	100	150	110	4-18	11	4	125	175	160
50	50	140	105	165	125	4-18	11	4.5	125	195	180
65	65	180	115	185	145	4-18	13	5.5	140	225	210
80	80	200	125	200	160	8-18	14	6	140	225	240
100	100	230	-	220	180	8-18	17	7	160	280	-

Test Pressure (Bar)

Rating	PN10/PN16
Hydrostatic press test (Shell)	25
Hydrostatic press test (Seat)	16

Remark : 1. The flanges shall conform to nominal pressure DIN

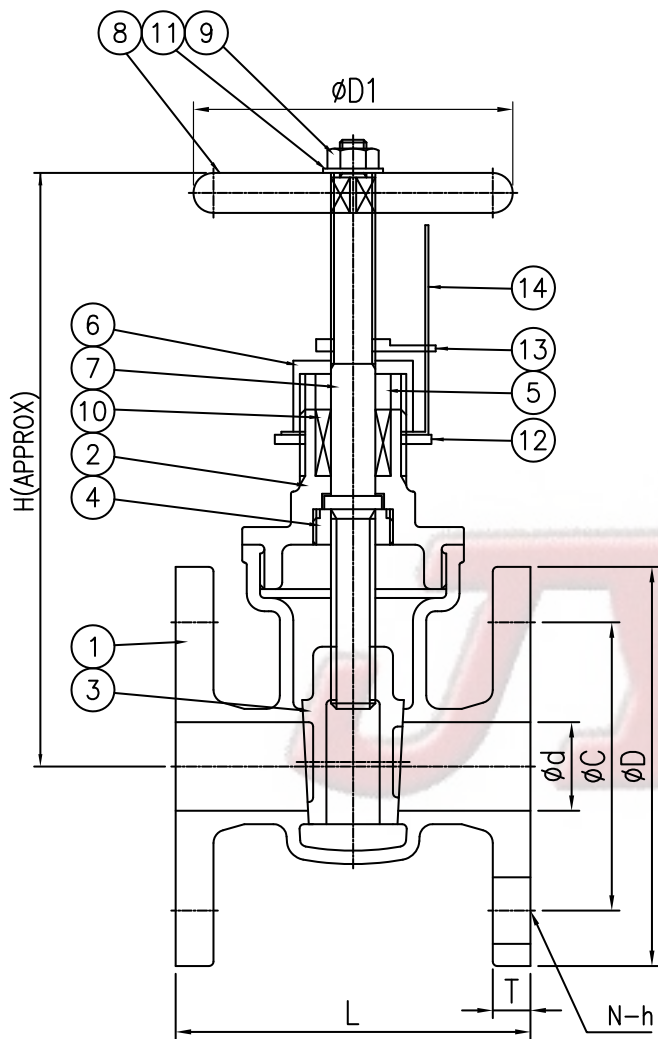
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Cast Bronze DIN Valves

■ PN 16 Gate Valves (Screw Bonnet) Non Rising Stem with Indicator

DIN 3352-T11



NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	DISC	BRONZE / DIN1705 Rg5
4	RING	BRASS
5	PACKING GLAND	BRASS
6	GLAND NUT	BRASS
7	STEM	BRASS
8	HANDWHEEL	CAST IRON
9	HANDLE NUT	STEEL
10	PACKING	NON ASBESTOS
11	WASHER	STEEL
12	DOUBLE NUT	BRASS
13	INDICATOR	STEEL
14	INDICATOR PLATE	BRASS PLATE

Test Pressure (Bar)

Rating	PN16
Hydrostatic press test (Shell)	25
Hydrostatic press test (Seat)	16

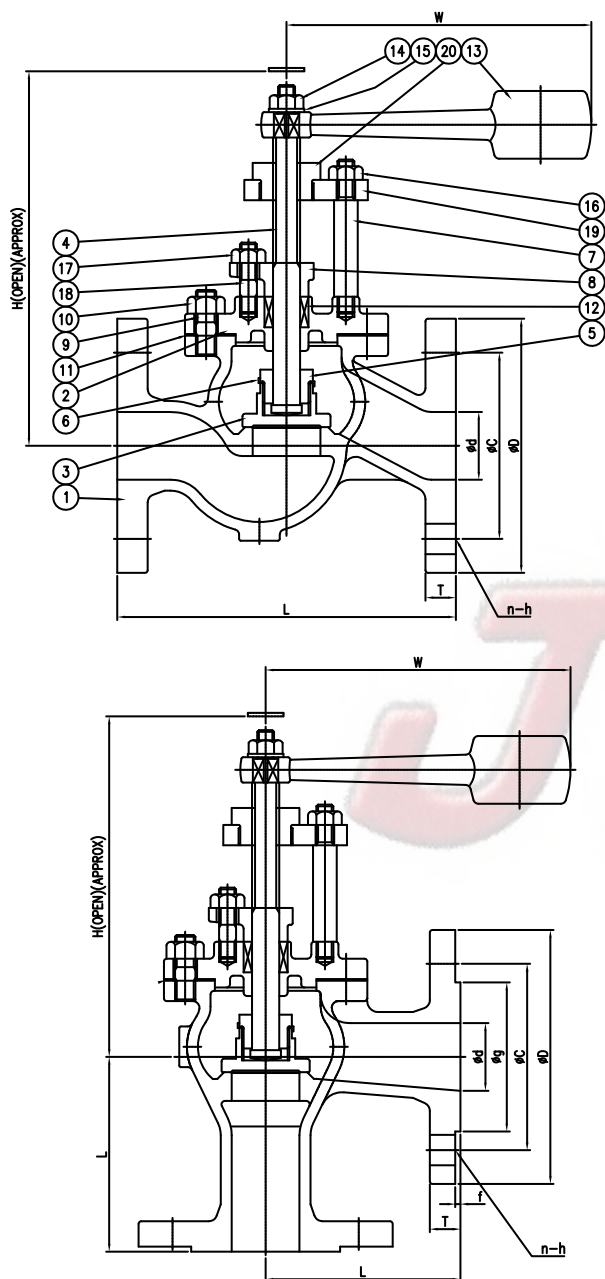
DIMENSIONS(mm)

NB	d	L	D	C	N-h	T	D1	H
20	20	80	105	75	4-14	8	80	155
25	25	80	115	85	4-14	9.5	80	165
32	32	100	140	100	4-18	10.5	100	175
40	40	140	150	110	4-18	11.5	100	185
50	50	150	165	125	4-18	12	125	210
65	65	170	185	145	4-18	13	140	250
80	80	180	200	160	8-18	14	160	300
100	100	190	220	180	8-18	15	160	330

Ductile Iron, Cast Steel DIN Valves

■ PN 10/ 16 Self-Closing Valves Weight Loaded Type

DIN /F1/F32



Bolted Bonnet Renewable seat
Rising Stem Flanged Ends

NO.	PARTS	MATERIAL
1	BODY	DUCTILE IRON / DIN1693 GGG-40 CAST STEEL / DIN17245 GS-C25
2	BONNET	DUCTILE IRON / DIN1693 GGG40 CAST STEEL / DIN17245 GS-C25
3	DISC	BRONZE / STAINLESS STEEL
4	STEM	BRASS / STAINLESS STEEL
5	DISC NUT	BRONZE / STAINLESS STEEL
6	SET SCREW	STEEL
7	STAY	STEEL
8	PACKING GLAND	BRONZE
9	BONNET BOLT	STEEL
10	BONNET NUT	STEEL
11	GASKET	NON ASBESTOS
12	PACKING	NON ASBESTOS
13	LEVER	DUCTILE IRON
14	HANDLE NUT	STEEL
15	WASHER	STEEL
16	STAY NUT	STEEL
17	PACKING NUT	STEEL
18	PACKING BOLT	STEEL
19	BUSH SUPPORT	STEEL
20	BUSH	BRASS

Test Pressure (Bar)

Rating	PN10 / PN16
Size	15A to 150A
Hydrostatic press test (Shell)	25
Hydrostatic press test (Seat)	16

Dimension Table

(Unit : mm)

	d	L	L1	D	C	T	n-h	W	H	H
PN10 PN16	20	150	95	105	75	14	4-14	180	190	170
	25	160	100	115	85	14	4-14	180	195	175
	32	180	105	140	100	14	4-18	180	205	185
	40	200	115	150	110	16	4-18	180	210	195
	50	230	145	165	125	16	4-18	180	240	215

Remark : 1. The name plate shall be specified by purchaser as required

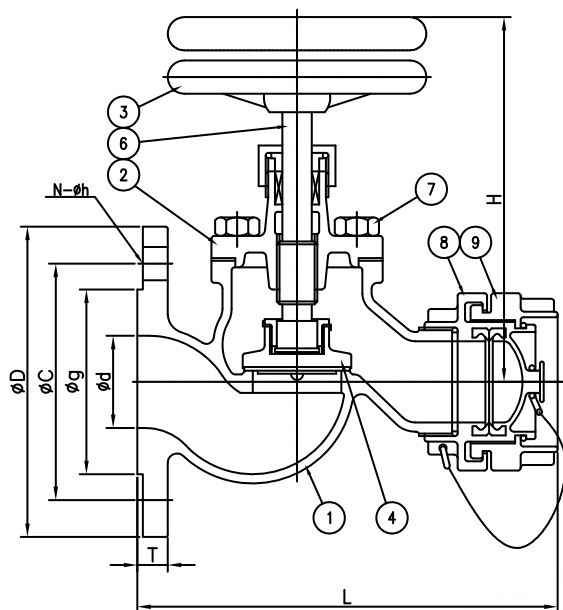
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Cast Bronze DIN Valves

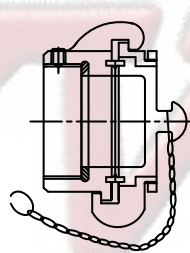
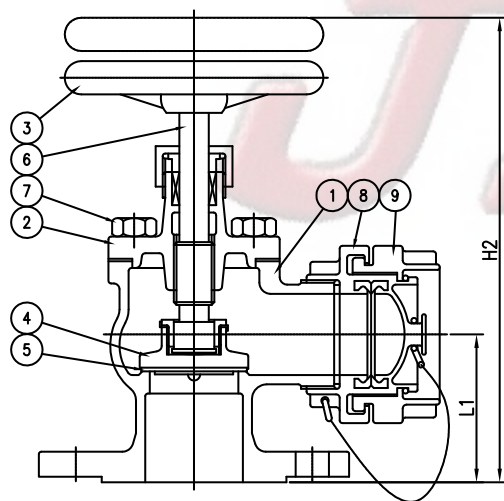
■ PN 10/ 16 Hydrant Valves

DIN 86211

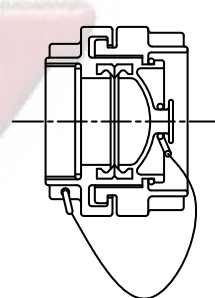


Bolted Bonnet Integral seat
Flanged Ends

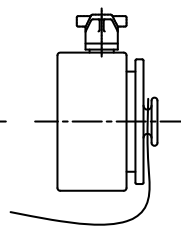
NO.	PARTS	MATERIAL
1	BODY	BRONZE / DIN1705 Rg5
2	BONNET	BRONZE / DIN1705 Rg5
3	HANDWHEEL	CAST IRON
4	DISC	BRONZE
5	SEAT	INTEGRAL
6	STEM	BRASS
7	BOLT	STAINLESS STEEL
8	COUPLING BODY	BRONZE
9	COUPLING DUST	BRONZE



(NAKAJIMA COUPLING)
40A to 65A



(STORZ COUPLING)
40A to 65A



(AB COUPLING)
ONLY 65A

Test Pressure (Bar)

Rating	PN10 / PN16
Size	40A to 65A
Hydrostatic press test (Shell)	16
Hydrostatic press test (Seat)	10

Dimension Table

(Unit : mm)

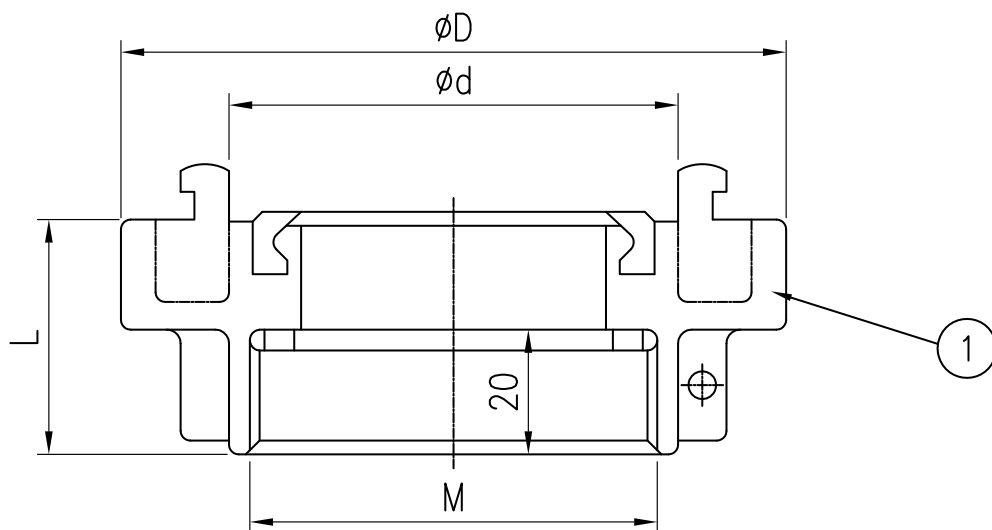
Rating	Size	d	L	L1	H	H1	FLANGE					Weight (kg)GL	Weight (kg)AG
							D	C	g	t	n-h		
PN 10 PN 16	40	40	165	75	170	165	150	110	88	14	4-18	8	8
	50	50	222	75	175	235	165	125	102	16	4-18	9	8.5
	65	65	260	90	205	265	185	145	122	16	4-18	16	15

Remark : 1. The name plate shall be specified by purchaser as required.

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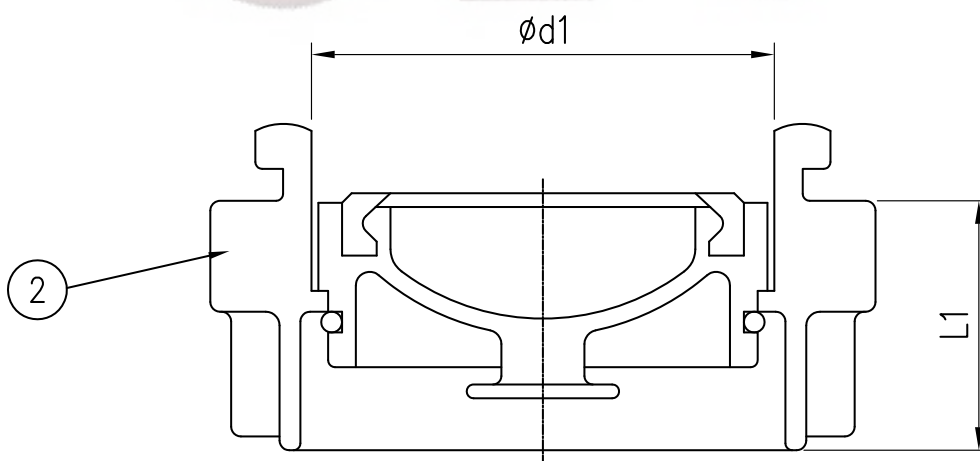
Hose Coupling

■ Storz Type Coupling



DIMENSION TABLE

SIZE	d	D	M	L
40	52	78	M52x2	32
50	66	98	M64x2	35
65	81	116	M80x2	40
	89	124	M80x2	40



DIMENSION TABLE

SIZE	d1	L1
40	52	32
50	66	35
65	81	40
	89	40

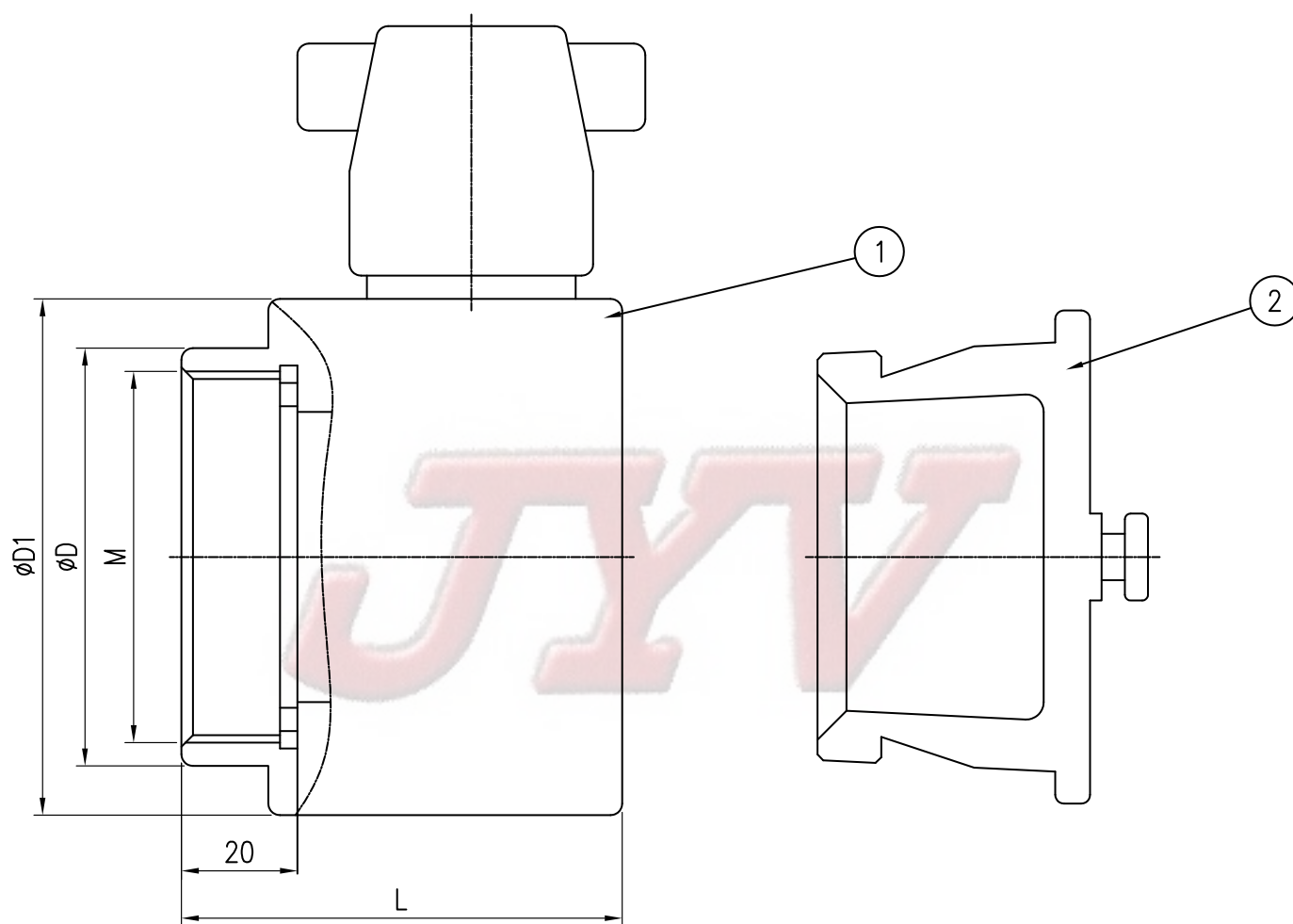
NO.	PARTS	MATERIAL
1	COUPLING	BRONZE
2	GASKET	BRONZE

※ It's prohibited to copy or transcribe arbitrarily



Hose Coupling

■ SB336 Coupling (John Morris Coupling, Instantaneous Coupling)



DIMENSION TABLE

SIZE d	D	D1	M	L
50	72	89	M64x2	76
65	89	89	M80x2	76

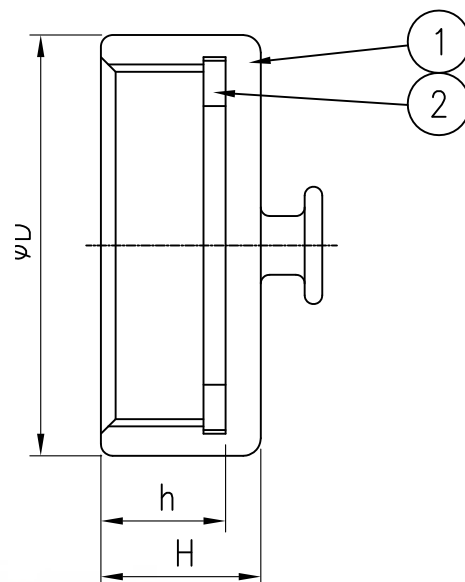
NO.	PARTS	MATERIAL
1	COUPLING	BRONZE
2	CAP	BRONZE

Hose Coupling

ANSI Threads Coupling

HOSE COUPLING SCREW THREADS
(AMERICAN NATIONAL FIRE HOSE THREADS, NFPA 194)

NOM. SIZE	THREAD PER INCH	PITCH P	BASIC HEIGHT OF THREAD h	MINIMUM INTERNAL THREAD DIMENSIONS			EXTERNAL(NIPPLE) THREAD DIMENSIONS		
				MIN. MINOR DIA.	BASIC PITCH DIA.	BASIC MAJOR DIA.	MAX. MAJOR DIA.	MAX. PITCH DIA.	MAX. MINOR DIA.
3/4	8	3.175	2.062	31.11	33.17	35.23	34.93	32.86	30.80
1	8	3.175	2.062	31.11	33.17	35.23	34.93	32.86	30.80
1-1/2	9	2.822	1.833	47.19	49.02	50.85	50.55	48.71	46.88
2-1/2	7-1/2	3.387	2.200	73.92	76.12	78.32	77.94	75.74	73.54



NAVY HOSE COUPLING SCREW THREADS (MIL-F-19488)

NOM. SIZE	THREAD PER INCH	PITCH P	HEIGHT OF THREAD h	COUPLING(INTERNAL) THREAD DIMENSIONS				NIPPLE(EXTERNAL) THREAD DIMENSIONS			
				PITCH DIA		MINOR DIA		PITCH DIA		MAJOR DIA	
				MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
3/4	11-1/2	2.209	1.435	25.33	25.11	24.11	23.68	24.86	24.64	26.29	25.86
1	11-1/2	2.209	1.435	31.93	31.71	30.71	30.28	31.64	31.24	32.90	32.45
1-1/2	11-1/2	2.209	1.435	46.76	46.54	45.54	45.11	46.29	46.07	47.72	47.29
2-1/2	7-1/2	3.387	2.200	76.53	76.12	74.74	73.92	75.74	75.34	77.94	77.13

SIZE	D	h	H
3/4	38	18	22
1	43	18	22
1-1/2	58	19	25
2-1/2	90	20	25

NO.	PARTS	MATERIAL
1	COUPLING	BRONZE
2	GASKET	RUBBER