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DIN Gate Valve

Product Structural Features

DIN gate valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc., nominal pressure of PN1.6~16Mpa and working temperature range -110~600℃.

Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. It has double seal capability, which becomes more reliable.
5. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet various engineer solution projects.

Technical Specification

Structural Formation	Operator	Design Standard	Face to Face	BW Ends	Flange Ends	Test & Inspection
BB,OS&Y/NRS	Manual Operator	DIN3352 BS EN 1984	DIN3202 BS EN 558-1	DIN3202 BS EN 12627	DIN2543-2547 BS EN 1092-1	DIN3230 BS EN 12569
	Electric Actuator					

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

Products Performance Specification

Nominal Pressure (Mpa)	Shell Test (Mpa)	Sealing Test (Mpa)	Air Seal Test(Mpa)	Suitable Medium
1.6	2.4	1.76	0.6	Water, Oil & Gas, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		
6.4	9.6	7.04		
10.0	15.0	11.0		
16.0	24.0	17.6		

Main Parts Materials

Body	GS-C25								1.4308		
Disc	GS-C25		1.4308		1.4408		Monel				
Stem	A182 F6a		A182 F304		A182 F316		Monel		A182 F304		
Wedge Disc Sealing Face	13Cr	13Cr	STL	SS304	STL	SS316	STL	Monel	SS304	SS304	STL
Seat Ring Sealing Face	13Cr	STL	STL	SS304	STL	SS316	STL	Monel	SS304	STL	STL
Body	1.4408				1.4306				1.4404		
Disc											
Stem	A182 F316				A182 F304L				A182 F316L		
Wedge Disc Sealing Face	SS316	SS316	STL	SS304L	SS304L	STL	SS316L	SS316L	STL	STL	STL
Seat Ring Sealing Face	SS316	STL	STL	SS304L	STL	STL	SS316L	STL	STL	STL	STL

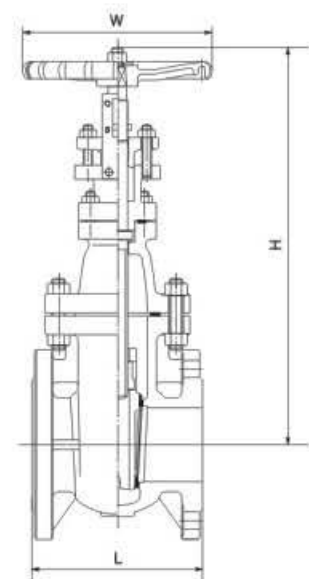
PN1.0Mpa~1.6Mpa

DIN Non-rising Stem Gate Valve F4 Series

Dimensions Data

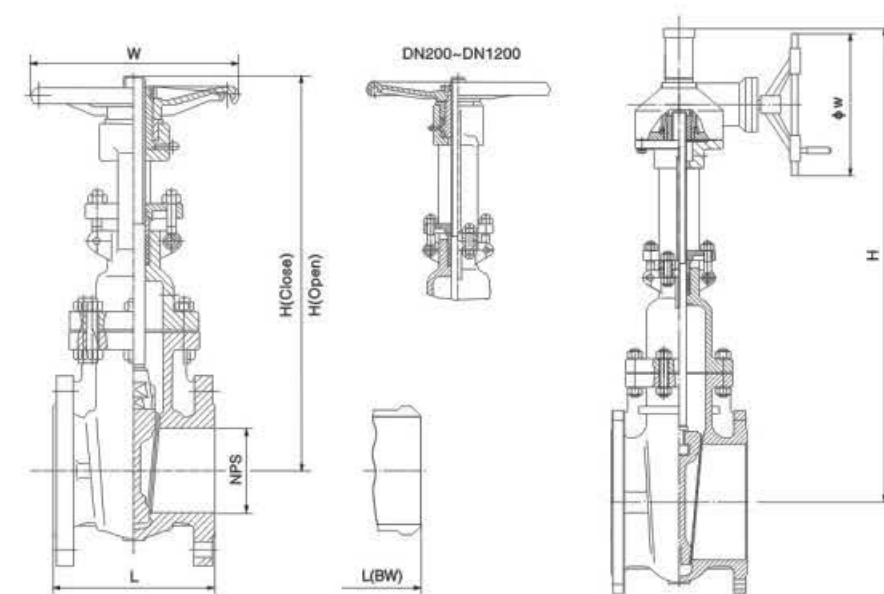
Pressure (Mpa)		PN1.0Mpa											
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400
L		140	150	170	180	190	200	210	230	250	270	290	310
H		278	285	315	360	419	447	546	645	749	830	950	1120
W		160	160	160	160	200	200	200	200	320	320	360	360
Weight(kg)		13	16	20	26	35	48	56	92	145	204	298	378

Pressure (Mpa)		PN1.6Mpa											
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400
L		140	150	170	180	190	200	210	230	250	270	290	310
H		278	285	315	360	419	447	546	645	749	830	950	1120
W		160	160	160	160	200	200	200	200	320	320	360	360
Weight(kg)		13	16	20	26	35	48	56	100	152	219	306	390



PN1.0Mpa~1.6Mpa

DIN Rising Stem Gate Valve F4 Series



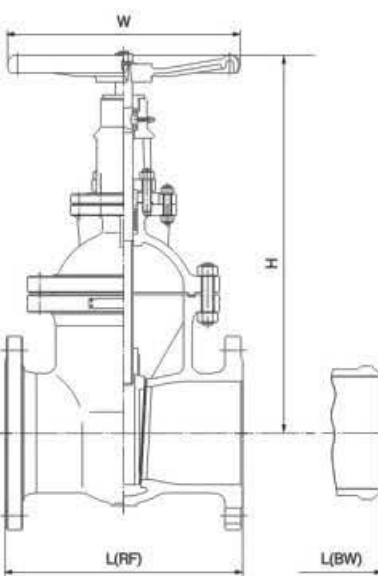
PN2.5Mpa~4.0Mpa

DIN Non-rising Stem Gate Valve F5/F15 Series

Dimensions Data

Pressure (Mpa)		PN2.5Mpa												
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	500
L		240	250	270	280	300	325	350	400	450	500	550	600	700
H		320	325	363	415	453	505	556	744	864	948	1012	1180	1320
W		200	200	200	250	300	350	400	450	500	550	600	640	720
Weight(kg)		19	20	30	39	58	80	101	190	290	405	510	650	960

Pressure (Mpa)		PN4.0Mpa												
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	500
L		240	250	270	280	330	360	390	460	530	630	690	750	880
H		320	325	363	415	453	505	556	744	864	948	1012	1180	1320
W		200	200	200	250	300	350	400	450	500	550	600	720	950
Weight(kg)		20	22	31	41.5	61	83	110	210	318.5	430	520	680	1060



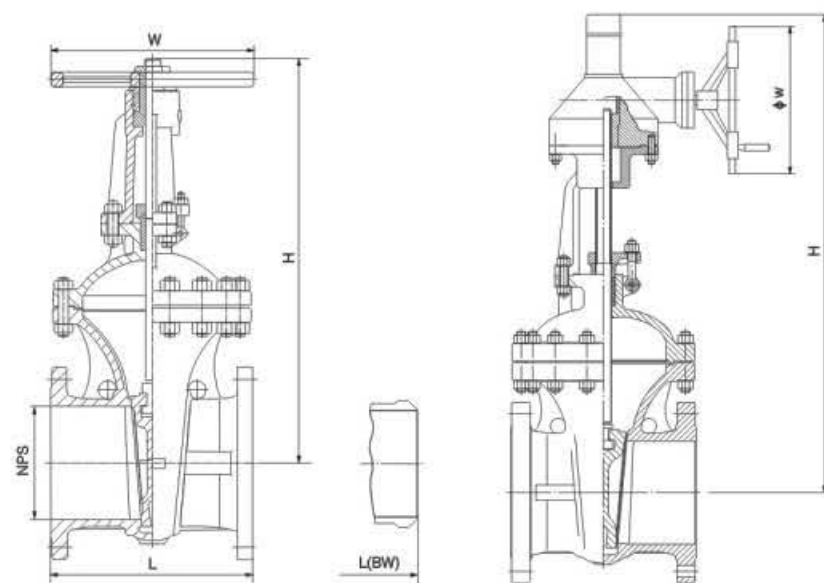
Dimensions Data

Pressure (Mpa)		PN1.0Mpa																			
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
L		140	150	170	180	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550	630
H		295	305	345	370	445	530	565	725	885	1010	1140	1295	1380	1535	1835	2155	-	-	-	-
H _i		-	-	-	-	-	-	-	965	1220	1365	1545	1755	1890	2085	2435	2925	3275	3670	4220	4845
W		200	200	200	250	280	280	300	360	400	400	450	500	500	600	700	800	-	-	-	-
W _i		-	-	-	-	-	-	-	310	310	310	310	460	460	460	460	530	530	530	530	600
Weight(kg)		14	18	22	29	39	53	62	101	160	224	328	416	487	563	852	1250	1830	2295	3700	5050

Pressure (Mpa)		PN1.6Mpa																			
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
L		140	150	170	180	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550	630
H		295	305	345	370	445	530	565	725	885	1010	1140	1295	1380	1535	1835	2155	-	-	-	-
H _i		-	-	-	-	-	-	-	965	1220	1365	1545	1755	1890	2085	2435	2925	3275	3670	4220	4845
W		200	200	200	250	280	280	300	360	400	400	450	500	500	600	700	800	-	-	-	-
W _i		-	-	-	-	-	-	-	310	310	310	310	460	460	460	460	530	530	530	530	600
Weight(kg)		14	18	22	29	39	53	62	110	167	241	337	429	494	571	859	1259	1836	2302	3709	5056

PN1.6Mpa~2.5Mpa

DIN Rising Stem Gate Valve F5 Series



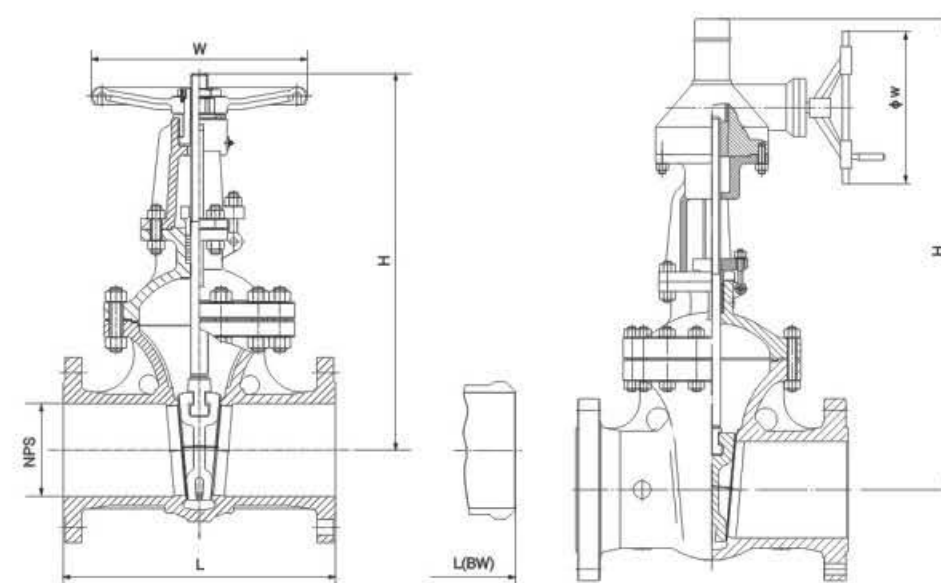
Dimensions Data

Pressure (Mpa)		PN1.6Mpa																			
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
L		240	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1400
H		300	358	375	433	502	612	676	820	969	1142	1280	1452	1565	1676	1864	2083	2400	-	-	-
H ₁		-	-	-	-	-	-	-	-	1220	1370	1525	1755	1890	2135	2585	2945	3345	3750	4005	4830
W		200	280	280	320	360	400	400	400	450	560	640	640	640	720	800	800	950	-	-	-
W ₁		-	-	-	-	-	-	-	-	310	310	310	460	460	460	600	600	600	600	600	600
Weight(kg)		17	19	27.5	32	40	68	75	115	140	310	390	460	600	750	900	1600	2100	3080	3944	6020

Pressure (Mpa)		PN2.5Mpa																			
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
L		240	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1400
H		300	358	375	433	502	612	676	820	969	1142	1280	1452	1565	1676	1864	-	-	-	-	-
H ₁		-	-	-	-	-	-	-	--	1220	1370	1525	1755	1890	2135	2585	2945	3345	3750	4005	4830
W		200	280	280	320	360	400	400	400	450	560	640	640	640	720	800	-	-	-	-	-
W ₁		-	-	-	-	-	-	-	-	310	310	310	460	460	460	600	600	600	600	600	600
Weight(kg)		17	19	27.5	34.5	43	72	108	182	280	352	495	652	925	1250	1560	2030	2558	3870	4960	7558

PN4.0Mpa~6.4Mpa

DIN Rising Stem Gate Valve F7 Series



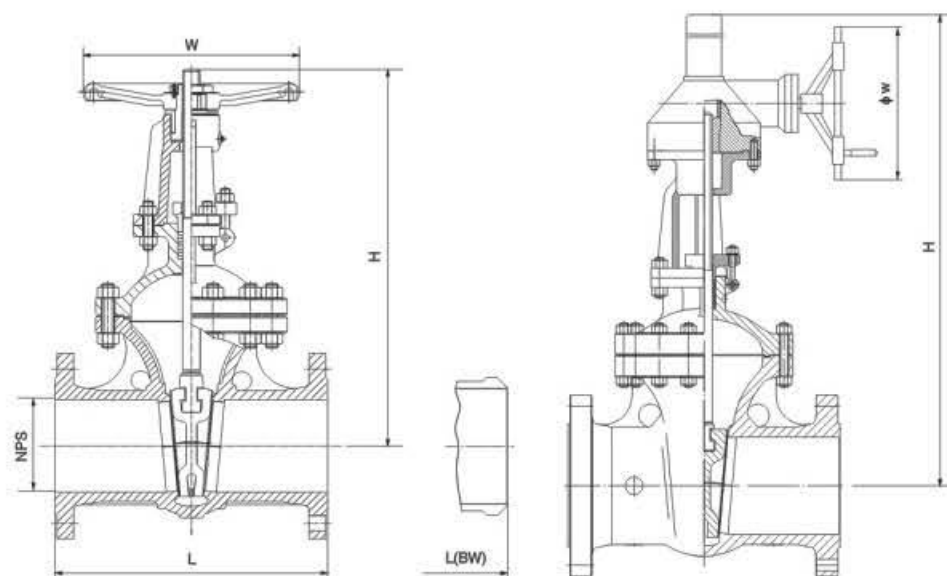
Dimensions Data

Pressure (Mpa)		PN4.0Mpa																		
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900		
L		240	250	290	310	350	400	450	550	650	750	850	950	1150	1350	1550	1750	1950		
H		323	372	395	457	552	634	708	858	1015	1203	1341	1492	1790	1875	-	-	-		
H ₁		-	-	-	-	-	-	-	-	1225	1420	1580	1755	2125	2520	2945	3450	3890		
W		200	280	280	320	360	400	400	450	560	640	640	720	950	950	-	-	-		
W ₁		-	-	-	-	-	-	-	-	310	310	310	460	530	530	600	600	600		
Weight(kg)		17	19	27.5	38	56	95	104	184	352	470	680	910	1450	2150	3050	-	-		

Pressure (Mpa)		PN6.4Mpa																		
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900		
L		240	250	290	310	350	400	450	550	650	750	850	950	1150	1350	1550	1750	1950		
H		360	404	456	504	553	638	718	873	1053	1203	1394	1645	2285	2508	-	-	-		
H ₁		-	-	-	-	-	-	890	1080	1285	1475	1635	1840	2180	2500	-	-	-		
W		240	280	280	320	360	400	450	560	640	640	720	800	950	950	-	-	-		
W ₁		-	-	-	-	-	-	310	310	460	460	460	530	530	530	-	-	-		
Weight(kg)		19	20	35	52	66	103	140	230	410	510	780	940	1600	3765	-	-	-		

PN10.0Mpa
DIN Rising Stem Gate Valve DIN F7 Series
Dimensions Data

Pressure (Mpa)		PN10.0Mpa																
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900
L		240	250	290	310	350	400	450	550	650	750	850	950	1150	1350	1550	1750	1950
H		360	390	415	460	510	625	750	890	1050	1208	-	-	-	-	-	-	-
H ₁		-	-	-	-	-	-	890	1200	1415	1680	1900	2285	-	-	-	-	-
W		180	200	250	280	300	360	450	500	650	700	-	-	-	-	-	-	-
W ₁		-	-	-	-	-	-	310	310	460	460	460	530	-	-	-	-	-
Weight(kg)		28	42	55	63	101	147	228	449	608	1020	1350	1650	-	-	-	-	-

PN16.0Mpa
DIN Rising Stem Gate Valve F8 Series

Dimensions Data

Pressure (Mpa)	PN16.0Mpa										
Size	mm	40	50	65	80	100	125	150	200	250	300
L		270	300	360	390	450	525	600	750	900	1050
H		365	512	560	585	631	670	820	990	-	-
H ₁		-	-	-	-	-	840	955	1235	1500	1725
W		250	280	280	300	360	400	500	650	-	-
W ₁		-	-	-	-	-	310	310	460	460	530
Weight(kg)		50	74	107	120	180	342	410	582	950	1380

Product Structural Features

DIN globe valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc., nominal pressure of PN1.6~16Mpa and working temperature range -110~600℃.

Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and tempered, and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet various engineer solution projects.

Technical Specification

Structural Formation	Operator	Design Standard	Face to Face	BW Ends	Flange Ends	Test & Inspection
BB,OS&Y	Manual Operator	DIN3356	DIN3202	DIN3202 BS EN 12627	DIN2543-2548 BS EN 1092-1	DIN3230 BS EN 12569
	Electric Actuator					

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

Products Performance Specification

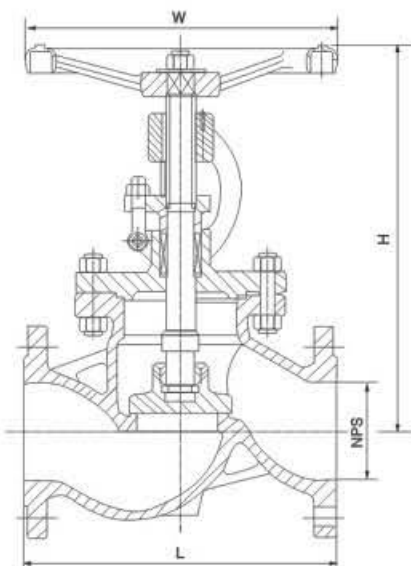
Nominal Pressure (Mpa)	Shell Test (Mpa)	Sealing Test (Mpa)	Air Seal Test(Mpa)	Suitable Medium
1.6	2.4	1.76	0.6	Water, Oil & Gas, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		
6.4	9.6	7.04		
10.0	15.0	11.0		
16.0	24.0	17.6		

Main Parts Materials

Body	GS-C25								1.4308		
Disc	GS-C25			1.4308		1.4408		Monel			
Stem	A182 F6a			A182 F304		A182 F316		Monel	A182 F304		
Wedge Disc Sealing Face	13Cr	13Cr	STL	SS304	STL	SS316	STL	Monel	SS304	SS304	STL
Seat Ring Sealing Face	13Cr	STL	STL	SS304	STL	SS316	STL	Monel	SS304	STL	STL
Body	1.4408				1.4306				1.4404		
Disc	A182 F316				A182 F304L				A182 F316L		
Stem	A182 F316				A182 F304L				A182 F316L		
Wedge Disc Sealing Face	SS316	SS316	STL	SS304L	SS304L	STL	SS316L	SS316L	STL	STL	STL
Seat Ring Sealing Face	SS316	STL	STL	SS304L	STL	STL	SS316L	STL	STL	STL	STL

PN1.6Mpa~4.0Mpa

DIN Globe Valve F1 Series



Dimensions Data

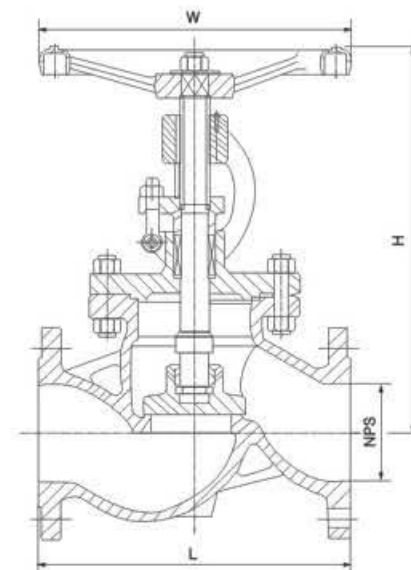
Pressure(Mpa)		PN1.6Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	305	354	402	437	496	541	699	815	914	1189	1350
W		120	140	160	160	180	200	200	750	250	300	350	400	450	500	550	600
Weight(kg)		5.2	7.1	7.4	8.5	13	20	25	35	50	75	100	210	446	648	805	1050

Pressure(Mpa)		PN2.5Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	325	363	415	453	505	556	744	864	948	1269	1450
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		6	7.5	8	9	14	22	27	38	55	82	105	220	450	660	810	1100

Pressure(Mpa)		PN4.0Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	325	370	430	480	532	589	783	888	965	1285	1512
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		6	7.5	8	9	15	24	30	41	60	85	110	225	460	670	830	1120

PN6.4Mpa~16.0Mpa

DIN Globe Valve F2 Series



Dimensions Data

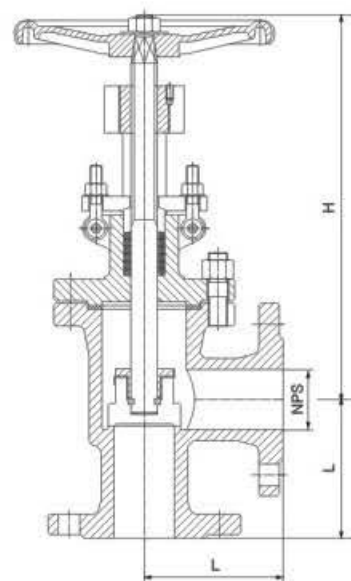
Pressure(Mpa)		PN6.4Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	300	340	380	430	500	550	650	775	900	1025	1150
H		240	260	276	285	300	305	354	402	437	496	541	699	815	914	1189	1350
W		120	140	160	160	180	200	200	750	250	300	350	400	450	500	550	600
Weight(kg)		8	10	12	16	17	26	33	45	65	90	120	230	470	680	850	1130

Pressure(Mpa)		PN10.0Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	300	340	380	450	500	550	650	775	900	1025	1250
H		240	260	276	285	300	325	363	415	453	505	556	744	864	948	1269	1450
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		8	10	13	17	19	27	34	46	67	95	125	235	480	690	860	1150

Pressure(Mpa)		PN16.0Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	300	340	380	450	500	550	650	775	900	1025	1250
H		240	260	276	285	300	325	370	430	480	532	589	783	888	965	1285	1512
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		8	10	13	17	20	28	35	49	70	100	130	245	490	710	890	1190

PN1.6Mpa~4.0Mpa

DIN Angle Globe Valve F32 Series



Dimensions Data

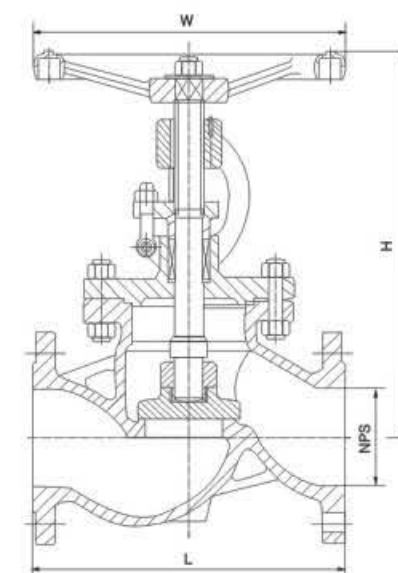
Pressure(Mpa)		PN1.6Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		90	95	100	105	115	250	270	280	330	360	390	460	530	630	690	750
H		246	260	276	285	300	305	354	402	437	496	541	699	815	914	1189	1350
W		120	140	160	160	180	200	200	750	250	300	350	400	450	500	550	600
Weight(kg)		6	7.5	8	9	14	22	27	38	55	82	105	220	450	660	810	1100

Pressure(Mpa)		PN2.5Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		90	95	100	105	115	250	270	280	330	360	390	460	530	630	690	750
H		246	260	276	285	300	325	363	415	453	505	556	744	864	948	1269	1450
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		6	7.5	8	9	15	24	30	41	60	85	110	225	460	670	830	1120

Pressure(Mpa)		PN4.0Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		90	95	100	105	115	250	270	280	330	360	390	460	530	630	690	750
H		246	260	276	285	300	325	370	430	480	532	589	783	888	965	1285	1512
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		8	10	12	16	17	26	33	45	65	90	120	230	470	680	850	1130

PN1.6Mpa~4.0Mpa

DIN Stop Globe Valve F1 Series



Dimensions Data

Pressure(Mpa)		PN1.6Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	305	354	402	437	496	541	699	815	914	1189	1350
W		120	140	160	160	180	200	200	750	250	300	350	400	450	500	550	600
Weight(kg)		5.2	7.1	7.4	8.5	13	20	25	35	50	75	100	210	446	648	805	1050

Pressure(Mpa)		PN2.5Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	325	363	415	453	505	556	744	864	948	1269	1450
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		6	7.5	8	9	14	22	27	38	55	82	105	220	450	660	810	1100

Pressure(Mpa)		PN4.0Mpa															
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H		240	260	276	285	300	325	370	430	480	532	589	783	888	965	1285	1512
W		120	140	160	160	180	200	200	250	300	350	400	450	500	550	600	600
Weight(kg)		6	7.5	8	9	15	24	30	41	60	85	110	225	460	670	830	1120

Product Structural Features

DIN check valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc., nominal pressure of PN1.6~16Mpa and working temperature range -110~600℃.

Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet engineer solution projects.

Technical Specification

Structural Formation	Operator	Design Standard	Face to Face	BW Ends	Flange Ends	Test & Inspection
BC	N/A	DIN3356	DIN3202	DIN3202 BS EN 12627	DIN2543-2547 BS EN 1092-1	DIN3230 BS EN 12569

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

Products Performance Specification

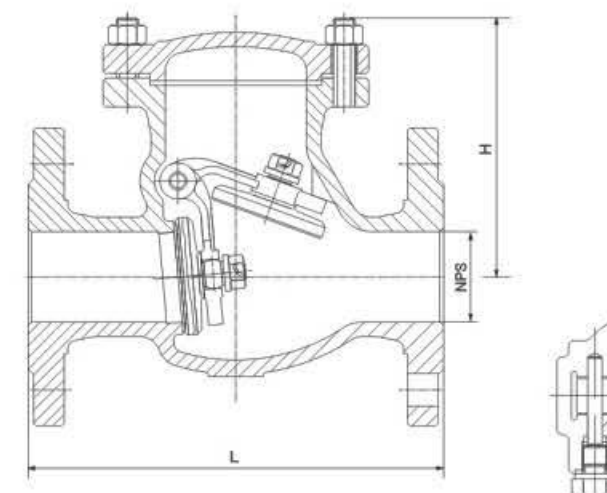
Nominal Pressure (Mpa)	Shell Test (Mpa)	Sealing Test (Mpa)	Air Seal Test (Mpa)	Suitable Medium
1.6	2.4	1.76	0.6	Water, Oil & Gas, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		
6.4	9.6	7.04		
10.0	15.0	11.0		
16.0	24.0	17.6		

Main Parts Materials

Body	GS-C25								1.4308		
Disc	GS-C25		1.4308		1.4408		Monel				
Wedge Disc Sealing Face	13Cr	13Cr	STL	SS304	STL	SS316	STL	Monel	SS304	SS304	STL
Seat Ring Sealing Face	13Cr	STL	STL	SS304	STL	SS316	STL	Monel	SS304	STL	STL
Body	1.4408				1.4306				1.4404		
Disc											
Wedge Disc Sealing Face	SS316	SS316	STL	SS304L	SS304L	STL	SS316L	SS316L	STL		
Seat Ring Sealing Face	SS316	STL	STL	SS304L	STL	STL	SS316L	STL	STL		

PN1.6Mpa~2.5Mpa

DIN Swing Check Valve F1 Series



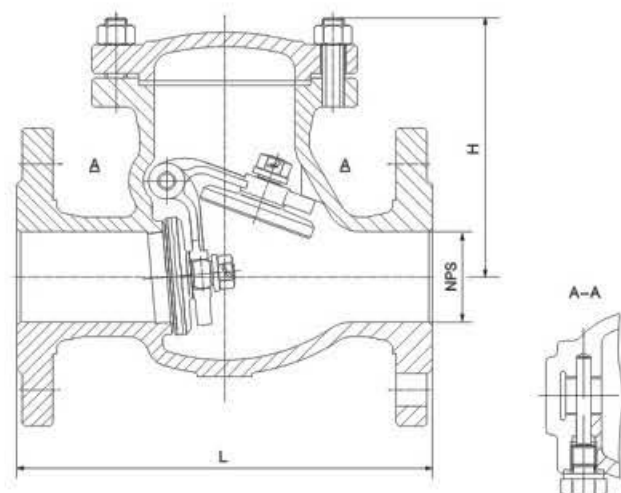
Dimensions Data

Pressure (Mpa)		PN1.6Mpa										
Size	mm	50	65	80	100	125	150	200	250	300	350	400
L		200	240	260	300	350	400	500	600	700	800	900
H		305	354	402	437	496	541	699	815	914	1189	1350
Weight(kg)		21	28	38	58	92	130	210	295	365	410	460

Pressure (Mpa)		PN2.5Mpa										
Size	mm	50	65	80	100	125	150	200	250	300	350	400
L		200	240	260	300	350	400	500	600	700	800	900
H		325	363	415	453	505	556	744	864	948	1269	1450
Weight(kg)		22	29	38	61	96	132	213	297	375	415	480

PN4.0Mpa~10.0Mpa

DIN Swing Check Valve F1/F2 Series



Dimensions Data

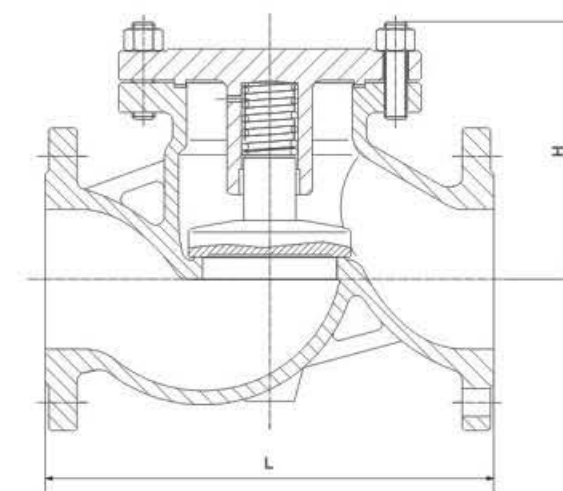
Pressure(Mpa)		PN4.0Mpa														
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L		200	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H		135	152	178	185	210	290	310	365	445	480	510	545	595	655	860
Weight(kg)		15	22	29	40	46	58	92	168	310	430	558	780	915	1170	1350

Pressure(Mpa)		PN6.4Mpa														
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L		260	300	340	380	430	500	550	650	775	900	1025	1150	1275	1400	1600
H		168	175	192	225	280	310	335	390	452	520	570	626	695	770	905
Weight(kg)		40	48	62	80	114	187	214	329	418	640	911	1130	1320	1693	2015

Pressure(Mpa)		PN10.0Mpa														
Size	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L		260	300	340	380	430	500	550	650	775	900	1025	1150	1275	1400	1600
H		165	183	205	236	272	305	345	398	456	528	600	685	-	-	-
Weight(kg)		48	65	73	87	105	192	208	370	668	963	1100	1358	-	-	-

PN1.6Mpa~4.0Mpa

DIN Lift Check Valve F1 Series



Dimensions Data

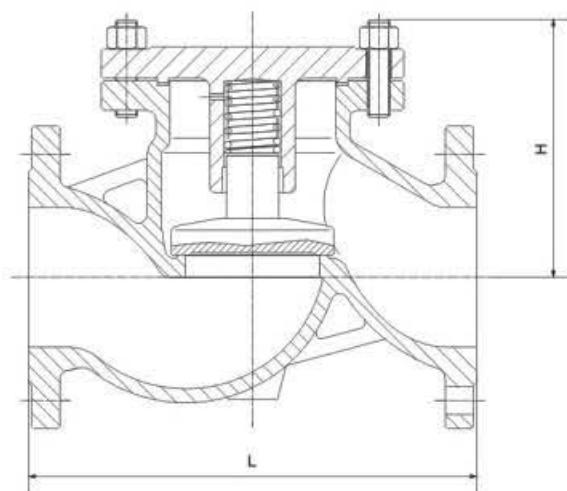
Pressure(Mpa)		PN1.6Mpa										
Size	mm	50	65	80	100	125	150	200	250	300	350	400
L		230	290	310	350	400	480	600	730	850	980	1100
H		305	354	402	437	496	541	699	815	914	1189	1350
Weight(kg)		10	20	30	39	50	70	161	251	395	500	618

Pressure(Mpa)		PN2.5Mpa										
Size	mm	50	65	80	100	125	150	200	250	300	350	400
L		230	290	310	350	400	480	600	730	850	980	1100
H		325	363	415	453	505	556	744	864	948	1269	1450
Weight(kg)		12	22	33	44	55	78	180	270	410	520	650

Pressure(Mpa)		PN4.0Mpa										
Size	mm	50	65	80	100	125	150	200	250	300	350	400
L		230	290	310	350	400	480	600	730	850	980	1100
H		325	370	430	480	532	589	783	888	965	1285	1512
Weight(kg)		13	23	34	46	60	85	190	280	430	550	680

PN6.4Mpa~10.0Mpa

DIN Lift Check Valve F2 Series



Dimensions Data

Pressure(Mpa)		PN6.4Mpa													
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L		210	230	230	260	260	300	340	380	430	500	550	650	775	900
H		100	110	125	140	168	170	188	205	230	240	265	310	-	-
Weight(kg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pressure(Mpa)		PN10.0Mpa													
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L		210	230	230	260	260	300	340	380	430	500	550	650	775	900
H		100	110	125	140	170	185	200	235	265	310	350	400	-	-
Weight(kg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Product Structural Features

DIN bellow seal globe valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc., nominal pressure of PN1.6~4.0Mpa and working temperature range -29~350℃.

Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. It has double seal capability, which becomes more reliable.
5. The stem may show the position of lift, thus it is clearer.
6. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet engineer solution projects.

Technical Specification

Structural Formation	Operator	Design Standard	Face to Face	BW Ends	Flange Ends	Test & Inspection
BB, OS&Y	Manual Operator	DIN3356 BS EN 1984	DIN3202 BS EN 558-1	DIN3202 BS EN 12627	DIN2543-2547 BS EN 1092-1	DIN3230 BS EN 12569
	Electric Actuator					

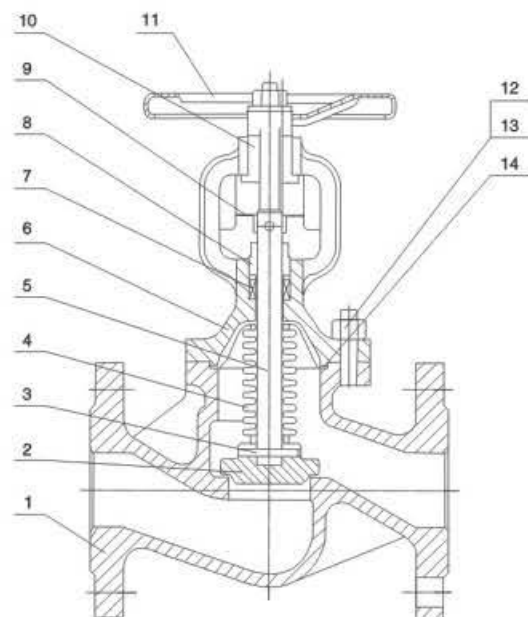
Note: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

Products Performance Specification

Nominal Pressure(Mpa)	Shell Test(Mpa)	Sealing Test(Mpa)	Air Seal Test(Mpa)	Suitable Medium
1.6	2.4	1.76	0.6	Water, Oil & Gas, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		

PN1.6Mpa~4.0Mpa

DIN Bellow Seal Globe Valve

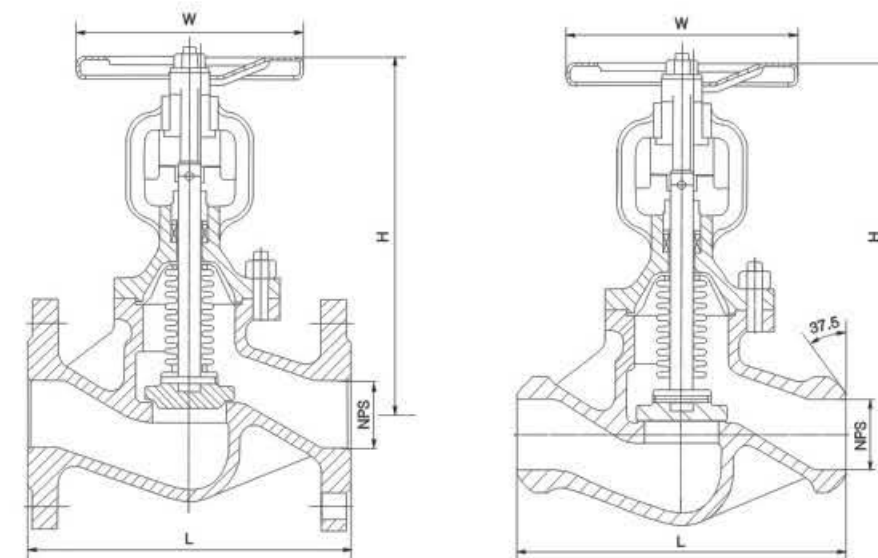


Main Parts Materials

NO.	Part Name	Material
1	Body	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
2	Disc	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
3	Pin	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
4	Bellow Seal	1Cr18Ni9Ti, 304, 316
5	Stem	A182 F6a, A182 F304, A182 F316
6	Bonnet	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
7	Packing	Flexible Graphite, PTFE
8	Gland Flange	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
9	Guide Block	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
10	Yoke Nut	Copper Alloy, A439 D2
11	Handwheel	Ductile Iron, Carbon Steel
12	Bolt	ASTM A193-B7, A193-B8, A193-B8M
13	Nut	ASTM A194-2H, A194-8, A194-8M
14	Gasket	Flexible Graphite+Stainless Steel, PTFE

PN1.6Mpa~4.0Mpa

DIN Bellow Seal Globe Valve



Dimensions Data

Model	DWJ41-16														
Pressure	PN16														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	500	500
Weight(Kg)	4	4.5	5	7	9	12.5	18	23	41	54	90	160	260	410	610

Model	DWJ41-25														
Pressure	PN25														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	450	450
Weight(Kg)	4	4.5	5	7.5	9.5	13	19	24	43	57	95	168	300	510	680

Model	DWJ41-40														
Pressure	PN40														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	500	500
Weight(Kg)	4	4.5	5	8	10	13.5	20	25	45	60	98	171	340	580	780

DIN Bellow Seal Y-Type Globe Valve

Product Structural Features

DIN bellow seal Y-type globe valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc., nominal pressure of PN1.6~4.0Mpa and working temperature range -29~350°C.

Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and tempered, and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. It has double seal capability, which becomes more reliable.
5. The stem may show the position of lift, thus it is clearer.
6. Small flowing resistance and low pressure drop.
7. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet engineer solution projects.

Technical Specification

Structural Formation	Operator	Design Standard	Face to Face	BW Ends	Flange Ends	Test & Inspection
BB, OS&Y	Manual Operator	DIN3356 BS EN 1984	DIN3202 BS EN 558-1	DIN3202 BS EN 12627	DIN2543-2545 BS EN 1092-1	DIN3230 BS EN 12569
	Electric Actuator					

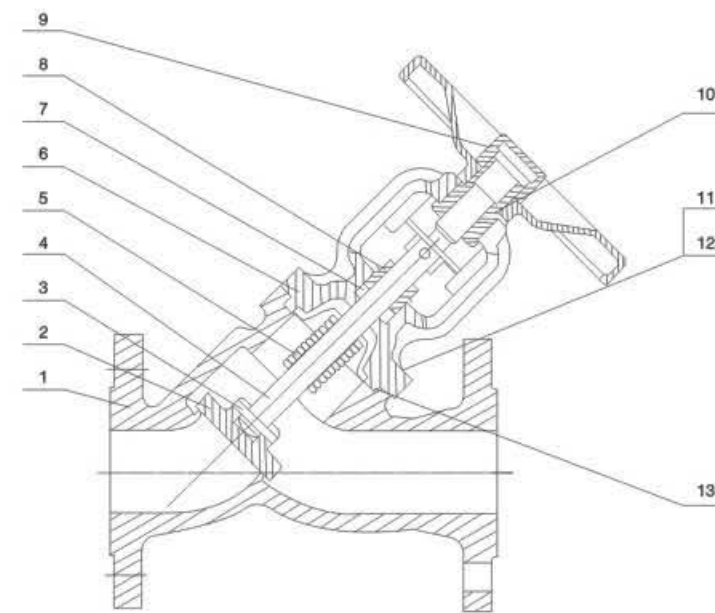
Note: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

Products Performance Specification

Nominal Pressure(Mpa)	Shell Test(Mpa)	Sealing Test(Mpa)	Air Seal Test(MPa)	Suitable Medium
1.6	2.4	1.76	0.6	Water, Oil & Gas, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		

PN1.6Mpa~4.0Mpa

DIN Bellow Seal Y-Type Globe Valve

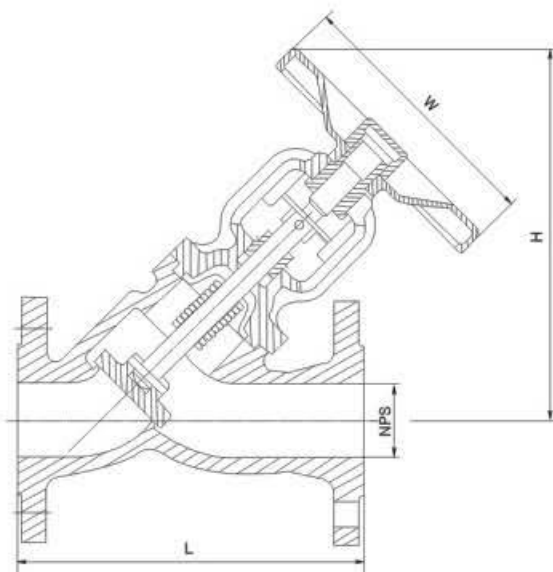


Main Parts Materials

NO.	Part Name	Material
1	Body	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
2	Disc	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
3	Pin	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
4	Stem	A182 F6a, A182 F304, A182 F316
5	Bellow Seal	1Cr18Ni9Ti, 304, 316
6	Bonnet	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
7	Packing	Flexible Graphite, PTFE
8	Gland Flange	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
9	Handwheel	Ductile Iron, Carbon Steel
10	Yoke Nut	Copper Alloy, A439 D2
11	Bolt	ASTM A193-B7, A193-B8, A193-B8M
12	Nut	ASTM A194-2H, A194-8, A194-8M
13	Gasket	Flexible Graphite+Stainless Steel, PTFE

PN1.6Mpa~4.0Mpa

DIN Bellow Seal Y-Type Globe Valve



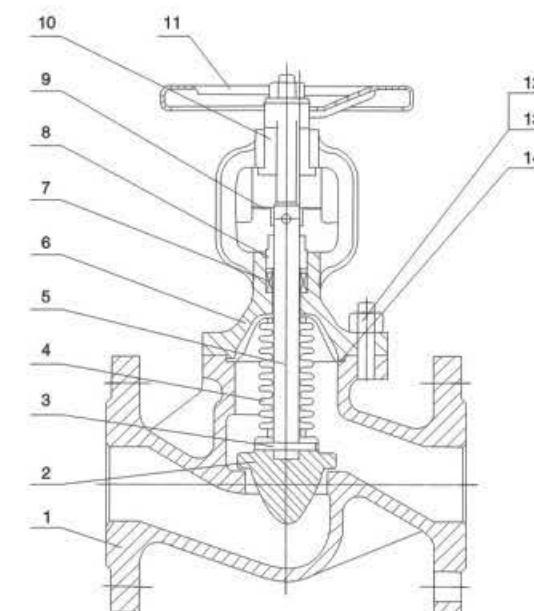
Dimensions Data

Model	DWJ45-16														
Pressure	PN16														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	195	200	200	230	235	260	275	350	385	445	605	730	805	880
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(Kg)	4	4.5	5	7	9	12.5	18	23	41	54	90	160	260	410	610

Model	DWJ45-25														
Pressure	PN25														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	195	200	200	230	235	260	275	350	385	445	605	730	805	880
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(Kg)	4	4.5	5	7.5	9.5	13	19	24	43	57	95	168	300	510	680

Model	DWJ45-40														
Pressure	PN40														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	195	200	200	230	235	260	275	350	385	445	605	730	805	880
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(Kg)	4	4.5	5	8	10	13.5	20	25	45	60	98	171	340	580	780

DIN Parabola Bellow Seal Globe Valve

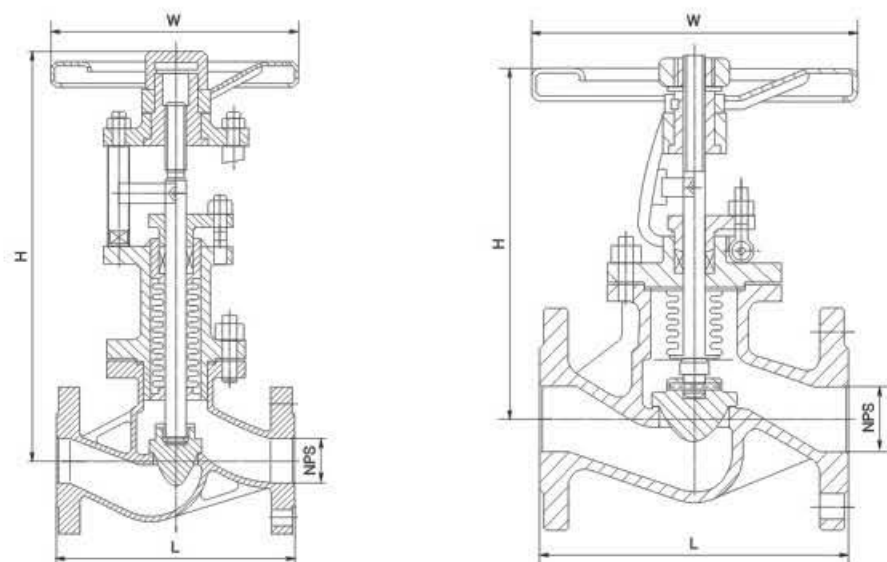


Main Parts Materials

NO.	Part Name	Material
1	Body	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
2	Disc	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
3	Pin	A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
4	Bellow Seal	1Cr18Ni9Ti, 304, 316
5	Stem	A182 F6a, A182 F304, A182 F316
6	Bonnet	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
7	Packing	Flexible Graphite, PTFE
8	Gland Flange	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
9	Guide Block	GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
10	Yoke Nut	Copper Alloy, A439 D2
11	Handwheel	Ductile Iron, Carbon Steel
12	Bolt	ASTM A193-B7, A193-B8, A193-B8M
13	Nut	ASTM A194-2H, A194-8, A194-8M
14	Gasket	Flexible Graphite+Stainless Steel, PTFE

PN1.6Mpa~4.0Mpa

DIN Parabola Bellow Seal Globe Valve



Dimensions Data

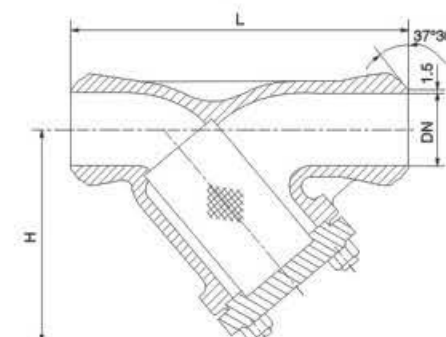
Model	DWL41-16														
Pressure	PN16														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	500	500
Weight(Kg)	4	4.5	5	7	9	12.5	18	23	41	54	90	160	260	411	610

Model	DWL41-25														
Pressure	PN25														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	450	450
Weight(Kg)	4	4.5	5	7.5	9.5	13	19	24	43	57	95	168	300	510	680

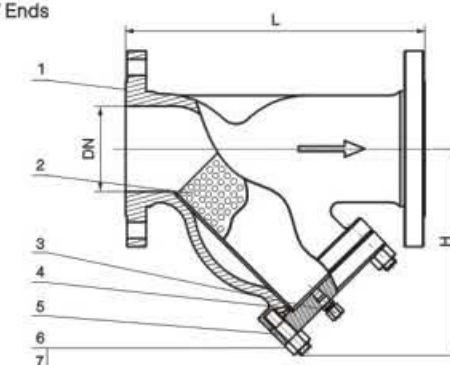
Model	DWL41-40														
Pressure	PN40														
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	130	130	130	130	150	150	180	180	200	200	400	450	450	500	500
Weight(Kg)	4	4.5	5	8	10	13.5	20	25	45	60	98	171	340	580	780

Standards

Design and Manufacture: BS 1873, BS EN 13709
Face to Face Dimensions: DIN3202, BS EN 558-1
Flange Ends Dimensions: DIN2543-2551, BS EN 1092-1
Test & Inspection: DIN 3230, BS EN 12569



BW Ends



Percentage Open Area

Even the mesh is same, open area is not always same due to the diameter of wire. The details of wire as follows:

A: Number of Wire B: Diameter of Wire
C: Width of Opening D: Percentage of Open Area

MESH	A SWG	B m/m	C m/m	D %
5	20	0.914	4.166	67.3
10	22	0.711	1.829	51.8
20	28	0.356	0.914	51.8
30	32	0.274	0.572	45.7
40	36	0.193	0.442	48.4
50	37	0.172	0.336	43.6
60	38	0.152	0.271	41.0
80	40	0.122	0.195	37.8
100	42	0.102	0.152	35.8
120	43	0.092	0.119	31.8
150	45 1/2	0.066	0.103	37.1
180	46 1/2	0.053	0.088	38.9
200	47	0.051	0.076	35.8
250	48	0.040	0.062	37.7
300	48	0.039	0.044	27.6

Main Parts Materials

NO.	Part Name	Material		
1	Body	DIN 17245 GS-C25	DIN 17445 1.4308	DIN 17445 1.4408
2	Screen	SS304	SS304	SS316
3	Plug	ASTM 193 B7	ASTM 193 B8	ASTM 193 B8
4	Gasket	ASTM 194 2H	ASTM 194 8	ASTM 194 8
5	Cover	Graphite+SS304	Graphite+SS304	Graphite+SS316
6/7	Bolt/Nut	DIN 17245 GS-C25	DIN 17445 1.4308	DIN 17445 1.4408

Dimensions Data

PN16(DIN 3202-F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500	600
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1250	1450
H	mm	98	103	108	115	140	150	175	205	245	285	335	415	490	570	580	618	730	890
PN25(DIN 3202-F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500	600
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1250	1450
H	mm	98	103	108	115	140	150	175	205	245	285	335	415	490	570	580	618	730	890
PN40(DIN 3202-F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500	600
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1250	1450
H	mm	98	103	108	115	140	150	175	205	245	285	335	415	490	570	580	618	730	890

PN2.5MPa Flange Ends (BS EN 1092-1:2005)

DN	Flange			Flange Neck				Raised Face		Bolt		
	D	b	k	So	d _s	S ₁ (max)	r	d ₄	f	Number	Size	d ₂
10~150	For DN≤150 the size conform to DN 2545 4.0MPa											
175	330	28	280	12	217	21	8	248	3	12	M24	26
200	360	30	310	12	246	23	8	278	3		M27	30
250	425	32	370	14	298	24	10	335	3			
300	485	34	430	15	352	26	10	395	4	16	M30	33
350	555	38	490	16	408	29	10	450	4		M33	36
400	620	40	550	18	460	30	10	505	4			
500	730	44	660	21	566	33	12	615	4	20	M36	39
600	845	46	770	23	670	35	12	720	5		M39	42
700	960	50	875	24	776	38	12	820	5			
800	1085	54	990	26	882	41	15	930	5	24	M45	48
900	1185	58	1090	27	988	44	15	1030	5		M52	56
1000	1320	62	1210	29	1094	47	18	1140	5			
1200	1530	70	1420	32	1306	53	18	1350	5	32	M56	62
1400	1755	76	1640	34	1514	57	18	1560	5	36		
1600	1975	84	1860	37	1726	63	20	1780	5	40		
1800	2195	90	2070	40	1963	68	20	1985	5	44	M64	70
2000	2425	96	2300	43	2144	72	20	2210	5	48		

PN4.0 Mpa Flange Ends (BS EN 1092-1:2005)

DN	Flange			Flange Neck				Raised Face		Bolt		
	D	b	k	So	d _s	S ₁ (max)	r	d ₄	f	Number	Size	d ₂
10	90	16	60	6	30	10	4	40	2	4	M12	14
15	95	16	65	6	37	11	4	45	2			
20	105	18	75	6.5	44	12	5	58	2			
25	115	18	85	7	53	14	5	68	2			
32	140	18	100	7	60	14	5	78	2			
40	150	18	110	7.5	68	14	5	88	2	8	M16	18
50	165	18	125	8	80	15	5	102	2			
65	185	22	145	8.5	99	17	6	122	2			
80	200	24	160	9	116	18	6	138	2			
100	235	24	190	10	136	18	6	162	2		M20	22
125	270	26	220	11	165	20	8	188	2	12	M24	26
150	300	28	250	12	192	21	8	218	2		M27	30
(175)	350	32	295	13	223	24	10	260	2			
200	375	34	320	14	252	26	10	285	2			
250	450	38	385	16	308	29	10	345	2			
300	515	42	450	17	364	32	12	410	2	16	M30	33
350	580	46	510	19	420	35	12	465	2		M33	36
400	660	50	585	21	476	38	12	535	2			
(450)	685	50	610	21	526	38	12	560	2			
500	755	52	670	21	578	39	15	615	2		M36	39
600	890	60	795	24	690	45	15	735	2	20	M39	42
700	995	64	900	27	796	48	18	840	2		M45	48
800	1140	72	1030	30	908	54	18	960	2			
900	1250	76	1140	33	1014	57	18	1070	2			
1000	1360	80	1250	36	1120	60	20	1180	2		M52	56
1200	1575	88	1460	42	1332	66	20	1380	2	24	M56	62
1400	1795	98	1680	47	1548	74	20	1600	2			
1600	2025	108	1900	54	1762	81	20	1815	2			

PN1.6MPa Flange Ends (BS EN 1092-1:2005)

DN	Flange			Flange Neck				Raised Face		Bolt		
	D	b	k	So	d _s	S ₁ (max)	r	d ₄	f	Number	Size	d ₂
10~50	For DN≤50, the size conform to DN 2545 4.0MPa											
65	185	18	145	8	93	14	5	122	3	4	M16	18
80	200	20	160	8.5	110	15	5	138	3			
100	220	20	180	9.5	130	15	5	158	3			
125	250	22	210	10	159	17	6	188	3			
150	285	22	240	11	184	17	6	212	3			
(175)	315	24	270	12	211	18	6	242	3	8	M20	22
200	340	24	295	12	236	18	6	268	3			
250	405	26	355	14	290	20	8	320	3			
300	460	28	410	15	342	21	8	378	4			
350	520	30	470	16	396	23	8	438	4			
400	580	32	525	18	448	24	10	490	4	12	M24	26
500	715	36	650	21	554	27	10	610	4			
600	840	40	770	23	660	30	10	725	5			
700	910	42	840	24	760	30	12	795	5			
800	1025	42	950	26	864	32	12	900	5			
900	1125	44	1050	27	966	33	12	1000	5	16	M27	30
1000	1255	46	1170	29	1070	35	12	1115	5			
1200	1485	52	1390	32	1278	39	15	1330	5			
1400	1685	58	1590	34	1488	44	15	1530	5			
1600	1930	64	1820	36	1696	48	18	1750	5			
1800	2130	68	2020	39	1902	51	18	1950	5	20	M30	33
2000	2345	70	2230	41	2106	53	18	2150	5			
2200	2555	74	2440	43	2312	56	18	2360	6			

PN6.3 MPa Flange Ends (BS EN 1092-1:2005)

DN	Flange			Flange Neck				Raised Face			Bolt				
	D	b	k	So	d ₃	S ₁ (max)	r	d ₄	f	r ₂	Number	Size	d ₂		
10~25	For DN 10-DN25 the size conform to DIN2548 16.0MPa														
32	For DN 32 the size conform to DIN2547 10.0MPa														
40	For DN 40 the size conform to DIN2548 16.0MPa														
50	180	26	135	10	90	20	5	102	3	1.5	4	M20	22		
65	205	26	160	10	105	20	5	122	3	1.5	8				
80	215	28	170	11	122	21	5	138	3	1.5					
100	250	30	200	12	146	23	5	162	3	1.5					
125	295	34	240	13	177	26	6	188	3	1.5					
150	345	36	280	14	204	27	6	218	3	1.5		12	M30	33	
(175)	375	40	310	15	235	30	8	260	3	1.5					
200	415	42	345	16	264	32	8	285	3	1.5	M33		36		
250	470	46	400	19	320	35	8	345	3	1.5					
300	530	52	460	21	378	39	10	410	4	2					
350	600	56	525	23	434	42	10	465	4	2		16		M36	39
400	670	60	585	26	490	45	12	535	4	2				M39	42
500	800	68	705	31	602	51	12	615	4	2	20	M45	48		
600	930	76	820	35	714	57	15	735	4	2		24	M52	56	
700	1045	84	935	40	826	63	15	840	4	2			28	M56	62
800	1165	92	1050	45	938	69	18	960	4	2	M64			70	
900	1285	98	1170	50	1046	74	18	1070	4	2					
1000	1415	108	1290	55	1162	81	18	1180	4	2					
1200	1665	126	1530	64	1390	95	18	1380	4	2	32	M72X6	78		

PN10.0 MPa Flange Ends (BS EN 1092-1:2005)

DN	Flange			Flange Neck				Raised Face			Bolt		
	D	b	k	So	d ₃	S ₁ (max)	r	d ₄	f	r ₂	Number	Size	d ₂
10~25	For DN 10-DN25 the size conform to DIN2548 16.0MPa												
32	155	24	110	12	63	15	6	75	3	1.5	4	M20	22
40~100	For DN 40-DN100 the size conform to DIN2548 16.0MPa												
125	315	40	250	16	185	30	6	188	3	1.5	8	M30	33
150	355	44	290	18	216	33	6	218	3	1.5			
(175)	385	48	320	20	247	36	8	260	3	1.5			
200	430	52	360	21	278	39	8	285	3	1.5			
250	505	60	430	25	340	45	8	345	3	1.5	12	M36	39
300	585	68	500	29	402	51	10	410	4	2			
350	655	74	560	32	460	55	10	465	4	2			
400	715	78	620	36	518	59	12	535	4	2			
500	870	94	760	44	630	70	15	615	4	2	16	M45	48
600	990	104	875	51	740	78	15	735	4	2			
700	1145	120	1020	59	860	90	18	840	4	2			
											20	M64	70

PN 16.0MPa Flange Ends (BS EN 1092-1:2005)

DN	Flange				Flange Neck				Raised Face			Bolt		
	d _b	D	b	k	So	d ₃	S ₁	r	d ₄	f	r ₂	Number	Size	d ₂
10	10	100	20	70	10	40	15	4	40	2	1	4	M12	14
15	15	105	20	75	10	45	15	4	45	2	1		M16	18
25	25	140	24	100	10	61	18	4	68	2	1			
40	40	170	28	125	10	82	21	4	88	3	1.5	8	M20	22
50	50	195	30	145	10	96	23	4	102	3	1.5		M24	26
65	70	220	34	170	11	118	24	5	122	3	1.5			
80	80	230	36	180	12	128	24	5	138	3	1.5	12	M27	30
100	97	265	40	210	14	150	25	5	162	3	1.5		M30	33
125	130	315	44	250	16	184	29.5	6	188	3	1.5			
150	153	355	50	290	18	224	37	6	218	3	1.5	16	M33	36
(175)	171	390	54	320	19	250	37.5	8	260	3	1.5			
200	194	430	60	360	21	288	44	8	285	3	1.5		M39	42
250	239	515	68	430	31	346	48	8	345	3	1.5			
300	286	585	78	500	36	414	57	10	410	4	2	16		