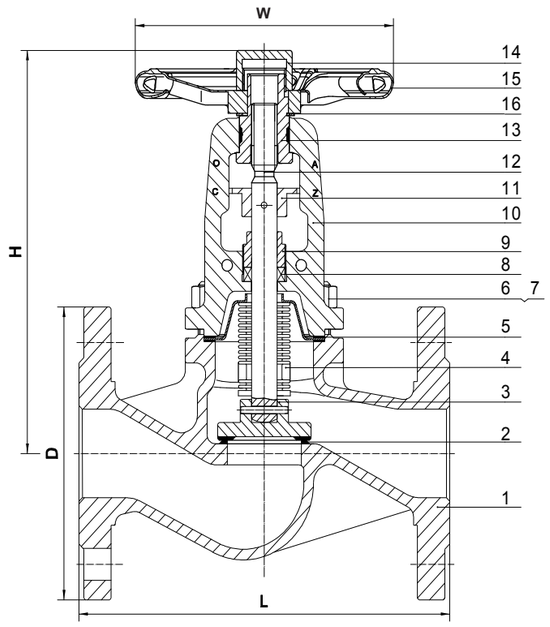
DIN Bellows Seal Globe Valve



Maximum pressure under the disc

DN	80	100	125	150	200	250	300	350	400
Δ p bar	85	60	35	21	14	9	6	5	4

If higher, valve to be mounted with gear operator or with pressure above the disc and fitted with external or internal bypass.

Design

Bellow sealed globe valve in forged and cast steel
Straight pattern with bolted bonnet
Rising, non rotating stem
Increased stem nut positioning,
Blowout safety bonnet sealing
Flange- or BW-ends
Welded seat
Seat in stellite or Cr-steel
Self adjusted gland

Standard

Design	EN 13709
	EN 12516
Face to face	EN 558-1
	EN12982
Flange	EN1092-1
Bellows	MSS-SP 117
BW-ends	EN12627
Markning	EN 19
Pressure test	EN12266-1

CE-mark according PED97/23, category 3

Applications

Water, steam, and other medium which not damage the internal components
Uses within the all kind of industries
The valves are designed for shut of application or simple regulation

	PART NAME	MATERIAL	
1	**Body**	1.0619/JS1049/GS-C25	1.4581
2	**Seat surface**	X20Cr13 (1) overlay	1.4581 (1) overlay
3	**Disc seat surface**	X20Cr13 (2) overlay	1.4581 (2) overlay
4	**Bellows**	SS304/SS321/SS316L	SS321/SS316L
5	**Gasket**	S. S. reinforced graphite(4)	S. S. reinforced graphite(4)
6	**Nuts**	C35	A2-70
7	**Bolts**	CK35	A2-70
8	**Packing**	Graphite rings & wiper rings (4)	Graphite rings & wiper rings
9	**Gland**	1.0460	X5CrNiMo17-12-2 (2)
10	**Bonnet**	1.0619/JS1049/GS-C25	1.4581
11	**No rot.Device**	X20Cr13	S.S
12	**Stem**	X20Cr13(2)	X5CrNiMo17-12-2 (2)
13	**Yoke Nut**	GGG40(3)	Cu-Alloy
14	**Lock Nut**	C.S	C.S
15	**Handwheel**	Steel	Steel
16	**Circlip**	65Mn	65Mn

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
(2) On request: 17 Cr - Monel® - Hastelloy® - other materials
(3) On request: GGG50
(4) On request: PTFE - other materials

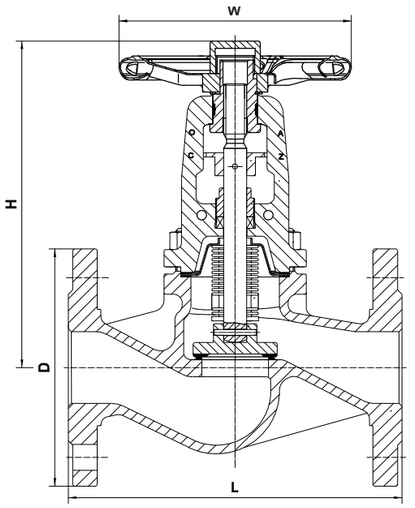


FIG.VK811 DIN BELLOWS SEAL GLOBE VALVES - PN16

SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520	580
W	120	140	140	140	160	160	180	200	250	250	350	450	500	500	600	600
H	196	196	205	205	222	224	240	265	350	380	410	550	715	790	950	1030
Weight kg	4	5	6.5	8	10	13.5	18	24	36	55	81	138	240	350	490	680

FIG.VK812 DIN BELLOWS SEAL GLOBE VALVES - PN25

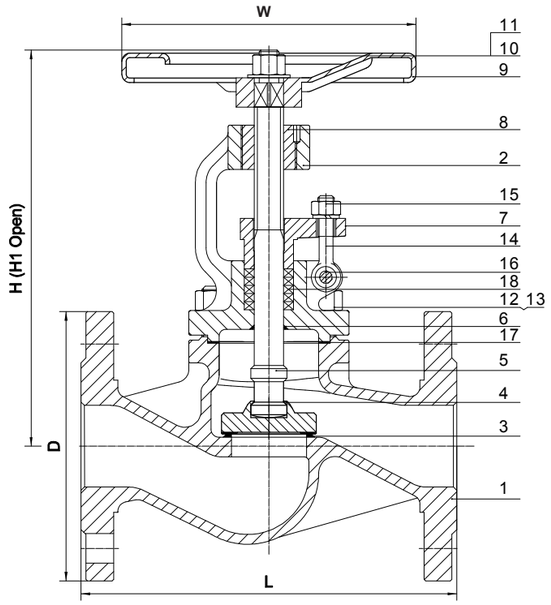
SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620
W	140	140	160	160	180	180	200	250	300	350	400	500	500	500	600	600
H	196	196	205	205	222	224	240	265	350	380	410	550	715	790	950	1030
Weight kg	4	5	6.5	8	10	13.5	18	24	37	58	85	148	255	365	510	700

FIG.VK813 DIN BELLOWS SEAL GLOBE VALVES - PN40

SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660
W	140	140	160	160	180	180	200	250	300	350	400	500	500	500	600	600
H	196	196	205	205	222	224	240	265	350	380	410	550	715	790	950	1030
Weight kg	4	5	6.5	8	10	13.5	18	24	37	58	85	148	260	370	520	720

features on request

- ○ TOP FLANGE TO ISO 5210
- ○ GEAR OPERATOR
- ○ CHAIN WHEEL OPERATOR
- ○ PNEUMATIC ACTUATOR
- ○ HYDRAULIC ACTUATOR
- ○ ELECTRIC ACTUATOR
- ○ POSITION INDICATOR
- ○ LIMIT SWITCHES
- ○ LOCKING / INTERLOCK SYSTEM
- ○ PTFE SOFT SEATS
- ○ STEM PROTECTION / EXTENSION
- ○ REGULATING DISC
- ○ DOUBLE STAGE DISC
- ○ STOP CHECK DISC
- ○ LIVE LOADED PACKING
- ○ DRAIN PLUG
- ○ BW ENDS
- ○ ANSI CONNECTIONS



Maximum pressure under the disc

DN	80	100	125	150	200	250	300	350	400
Δ p bar	85	60	35	21	14	9	6	5	4

If higher, valve to be mounted with gear operator or with pressure above the disc and fitted with external or internal bypass.

Design

Shut of valve in casted and forged steel
Straight patter with vertical stem and bolted bonnet
Raised, turning stem
Stem sealing in graphite
Out blowing safe stem
Back sealed stem
Flanged or butt welded ends
Welded seat
Seat in Cr-steel or Stellite
Self adjusted gland

Standards

Design	EN 13709, EN 12516
Face to face	EN 558-1, EN 12982
Flanges	EN 1092-1
Welded ends	EN 12627
Labeling	EN 19
Pressure test	EN 12266-1

CE-mark according PED97/23, category 3

Applications

Water, steam, and other medium which not damage the internal components
Uses within the all kind of industries
The valves are designed for shut of application or simple regulation

	PART NAME	MATERIAL	
1	**Body**	1.0619/JS1049/GS-C25	1.4581
2	**Bonnet**	1.0619/JS1049/GS-C25	1.4581
3	**Seat surface**	X20Cr13 (1) overlay	X5CrNiMo17-12-2 (1)
4	**Disc seat surface**	X20Cr13 (1)	X5CrNiMo17-12-2 (1)
5	**Stem**	X20Cr13 (2)	X5CrNiMo17-12-2 (2)
6	**Back seat (integral)**	1.0619 (B)	1.4581
7	**Gland**	1.0460	X5CrNiMo17-12-2
8	**Yoke sleeve**	GGG40.3(3)	Cu-Alloy (3)
9	**Handwheel**	Steel	Steel
10	**Plate**	1.0460	1.0460
11	**Handwheel nut**	1.0460	X5CrNiMo17-12-2
12	**Bolts**	CK35	A2-70
13	**Nuts**	C35	A2-70
14	**Eye bolts**	CK35	A2-70
15	**Nuts**	C35	A2-70
16	**Eye bolt pin**	CK35	A2-70
17	**Gasket**	S. S. reinforced graphite (4)	S. S. reinforced graphite
18	**Packing**	Graphite rings & wiper rings (4)	Graphite rings & wiper rings (4)

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
(2) On request: 17 Cr - Monel® - Hastelloy® - other materials
(3) On request: GGG50
(4) On request: PTFE - other materials

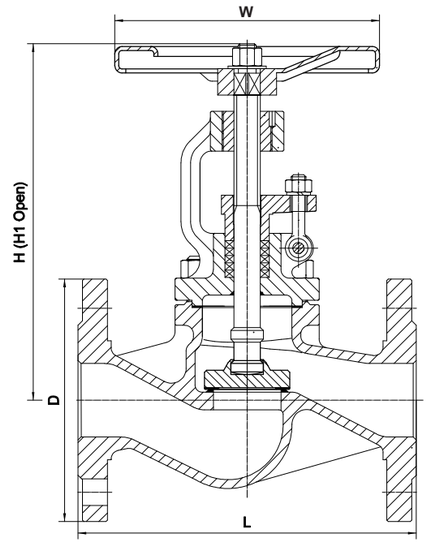


FIG.VK611 DIN GLOBE VALVES - PN16

SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520	580
W	140	140	160	160	180	180	200	250	300	350	400	500	500	500	600	600
H	180	190	220	225	252	263	290	330	350	420	455	550	665	800	960	1060
H1	190	202	236	241	272	287	315	360	385	465	505	630	755	910	1080	1210

FIG.VK612 DIN GLOBE VALVES - PN25

SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555	620
W	140	140	160	160	180	180	200	250	300	350	400	500	500	500	600	600
H	180	190	220	225	252	263	290	330	350	420	455	550	665	800	960	1060
H1	190	202	236	241	272	287	315	360	385	465	505	630	755	910	1080	1210

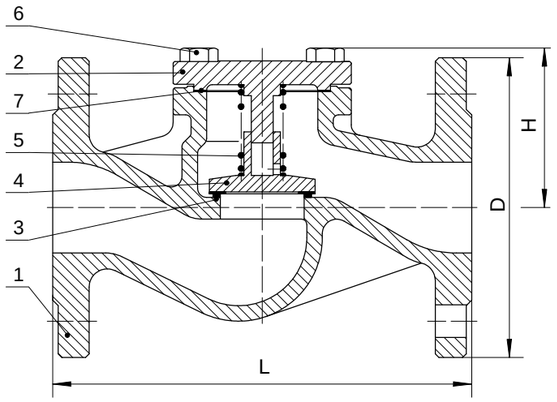
FIG.VK613 DIN GLOBE VALVES - PN40

SIZE DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L RF/BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580	660
W	140	140	160	160	180	180	200	250	300	350	400	500	500	500	600	600
H	180	190	220	225	252	263	290	330	350	420	455	550	665	800	960	1060
H1	190	202	236	241	272	287	315	360	385	465	505	630	755	910	1080	1210

features on request

- ○ TOP FLANGE TO ISO 5210
- ○ GEAR OPERATOR
- ○ CHAIN WHEEL OPERATOR
- ○ PNEUMATIC ACTUATOR
- ○ HYDRAULIC ACTUATOR
- ○ ELECTRIC ACTUATOR
- ○ POSITION INDICATOR
- ○ LIMIT SWITCHES
- ○ LOCKING / INTERLOCK SYSTEM
- ○ PTFE SOFT SEATS
- ○ STEM PROTECTION / EXTENSION
- ○ REGULATING DISC
- ○ DOUBLE STAGE DISC
- ○ STOP CHECK DISC
- ○ LIVE LOADED PACKING
- ○ DRAIN PLUG
- ○ BW ENDS
- ○ ANSI CONNECTIONS

DIN Lift Check Valve



Application

- Self-acting closing element; in case of “A” class leakage, an additional on-off valve should be added to the piping.
- **Fluids**
  Water, steam, air, gas
- **Industry**
  Power engineering, chemical and petrochemical industry

Technical description

- Lift check valve is self-acting by pressure of the working medium on the plug, which prevents reverse flow and temperature or pressure shocks, achieved by the spring above the plug
- Direction of flow is under the plug

Testing

- The valves are pressure tested by water for strength and tightness in accordance with EN-12266 Cerfitication: PED/97/23/EC
- The minimum pressure for the strength testing is 1.5 x PN

Installation

- Lift check valve installation be installation to horizontal
- Direction of flow see body mark

Connection

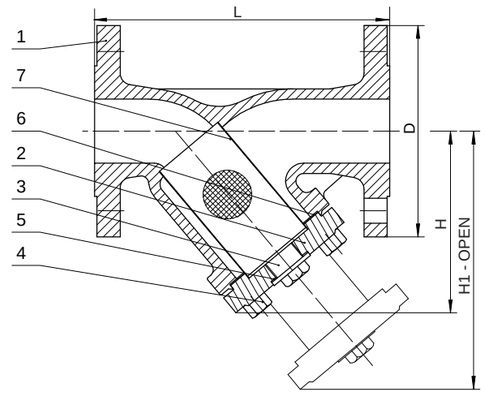
- Butt-welded according to EN-12627, flanged according to EN-1092-1 or according to customer request
- Face to face dimension is according to EN-558-1 (DIN 3202 F1 Series)

	PART NAME	MATERIAL	
1	Body	1.0619/JS1049/GS-C25	1.4581
2	Cover	1.0619/JS1049/GS-C25	1.4581
3	Seat ring surface	X20Cr13 (1)	X5CrNiMo17-12-2 (1)
4	Disc seat surface	X20Cr13 (2)	X5CrNiMo17-12-2 (2)
5	Spring	S.S	S.S
6	Bolts	CK35	A2-70
7	Gasket	SS.reinforced graphite(3)	SS.reinforced graphite(3)

Dimensions

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L(mm)		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H(mm)		69	70	75	78	85	90	110	125	150	185	285	340	400	445	490	595
Weight (kg) FL	PN16	2.8	3.5	4.2	5.5	7.5	9.4	13	17.5	29.2	40	60	116	220	330	520	820
	PN25	2.8	3.5	4.2	5.5	7.5	9.5	14	20	32.5	48	73	128	210	350	560	850
	PN40	2.8	3.5	4.2	5.5	7.5	9.5	14	20	32.5	48	73	136.5	288.5	390	610	920
Weight (kg) BW	PN16	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	22.5	36	51	108	203	308	210	560
	PN25	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	23	38	53	110	223	315	300	580
	PN40	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	23	38	53	110	223	315	400	600
Kv		3.9	6.9	11.1	17.6	27.8	43.5	71.3	112	174	267	380	670	1060	1514	2060	2690

DIN Y-Strainer



Application

- Steam, water, oil or gas where protection from foreign matter in a pipeline is required.
- **Industry**
  Power engineering, chemical and petrochemical industry

Technical description

- Y-Strainer is are devices for mechanically removing solids from fl owing media by means of a perforated or wire mesh straining element or basket, replaceable in line. They are used in pipelines to protect equipment such as pumps,meters, manual and control metal seated valves, steam traps and regulators

Testing

- The Y-strainer are pressure tested by water for strength in accordance with EN-12266 Cerfitication: ED/97/23/EC
- The minimum pressure for the strength testing is 1,5 x PN

Installation

- Y-Strainer can be installed at any position but you should as are the screen is downwards.
- Flow derection see body mark.

Connection

- Butt-welded according to EN-12627, flanged according to EN-1092-1 or according to customer request
- Face to face dimension is according to EN-558-1

	PART NAME	MATERIAL	
1	Body	1.0619/JS1049/GS-C25	1.4581
2	Cover	1.0619/JS1049/GS-C25	1.4581
3	Screw	1.0460	X5CrNiMo17-12-2
4	Blots	CK35	A2-70
5	Sealing piece	Cu-Alloy	Cu-Alloy
6	Gasket	S.S.reinforced graphite	S.S.reinforced graphite
7	Screen	SS304/SS316/SS316L	SS316/SS316L

Dimensions

DN		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		72	88	105	110	130	140	170	190	240	290	340	425	515	615	725	835
Weight (kg) FL	PN16	2.5	3.4	4.6	5.5	5.6	9.2	13.5	17.3	27	39	58	113	225	270	380	620
	PN25	2.5	3.4	4.6	5.5	5.6	9.4	15	20.2	32	47.5	70	121.5	230	290	430	680
	PN40	2.5	3.4	4.6	5.5	5.6	9.4	15	20.2	32	47.5	70	127.4	240	310	470	700
Weight (kg) BW	PN16	1.0	1.6	2.6	3.0	3.8	4.2	8.2	15	22	33	50	80	160	200	340	510
	PN25	1.0	1.6	2.6	3.0	3.8	4.2	8.2	15	22	33	50	80	160	200	340	510
	PN40	1.0	1.6	2.6	3.0	3.8	42.0	8.2	15	22	33	50	80	160	200	340	510
Kv (for mesh40)		6.3	11	17.5	28	44	69	118	178	270	420	620	1100	1700	2500	3400	4400