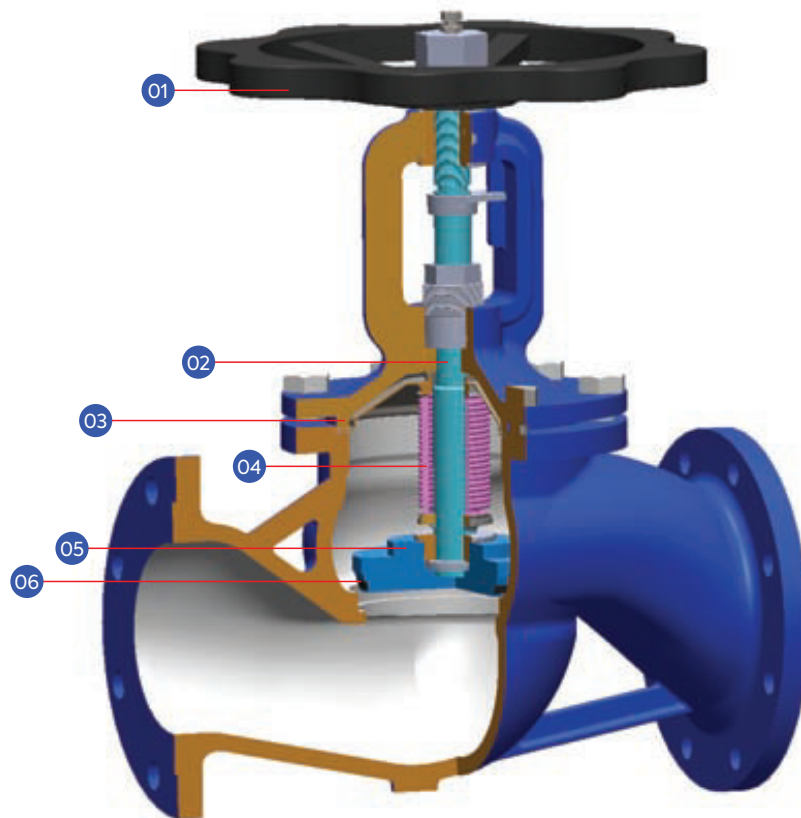


BELLOW SEAL GLOBE VALVE

Straight-type bellows seal valves offer reliable zero-leakage sealing, ideal for high-temperature or hazardous media. The Compact, inline design is perfect for vertical or space-limited installations.

Equipped with a welded metal bellows and dual sealing structure, these valves ensure long service life, safety, and precision under demanding conditions.



- 1. Oversized Handwheel**
Oversized handwheel for easy handling and position indicator allows user to know (OPEN / CLOSE) status of the valve.
- 2. Backseat On Stem**
Metal back seat has been provided to arrest leakage to the atmosphere in case of bellow failure.
- 3. Tongue and Groove Body And Bonnet**
Tongue and Groove Body and Bonnet designed to avoid any leak between joints.
- 4. High Quality Multiply Bellow**
Completely welded multiple layer stainless steel bellows are secured against torque and designed to last as per MSS SP-117 cycle life.
- 5. Standard 360° Free Rotation and Conical Plug**
Standard 360° free rotation and conical plug provides a tighter closure while maintaining seat clean from shards. Both seat and plug are made out of hardened chromium steel 1.4021 or with stellite.
- 6. Plug and Seat Hard Faced**
TA-LUFT certified full size safety gland packing made of pure graphite together with our bellows, guaranteeing 100% zero leak to the atmosphere. Can also be supplied in PTFE on request for other chemical applications.



Applications

- Hot oil system, steam system, hot and cold water system etc.

GL25 Series
Straight Type

Body Material

Cast Iron, GG25	Forged Steel / A105
Ductile Iron, GGG40	St. St. 304
Carbon Steel 1.0619	St.St 316 / 1.4571

Plug material & Design

St. Steel 1.4021 + Hard Faced 13% Cr
Parabolic (For regulating)
Conical (For On Off)
Balancing (For 5" and above, high pressure)

Bellow Material

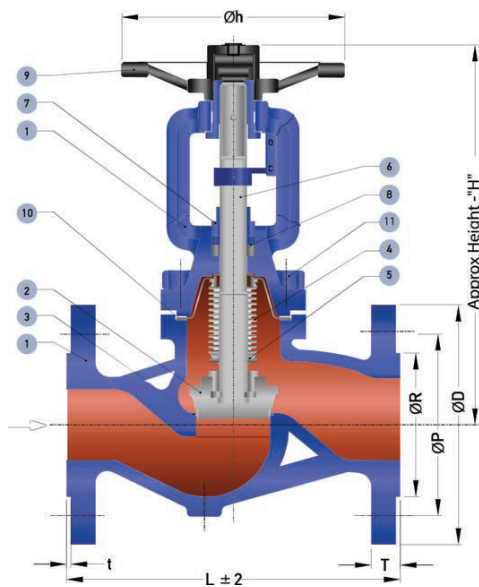
321 Ti	St.St 304
St.St 316 / 1.4571	Hastelloy C
BSPT - Tapered	NPT
Socket Weld	Flanged End
Butt Weld	

DN15 (½") to DN150 (6")

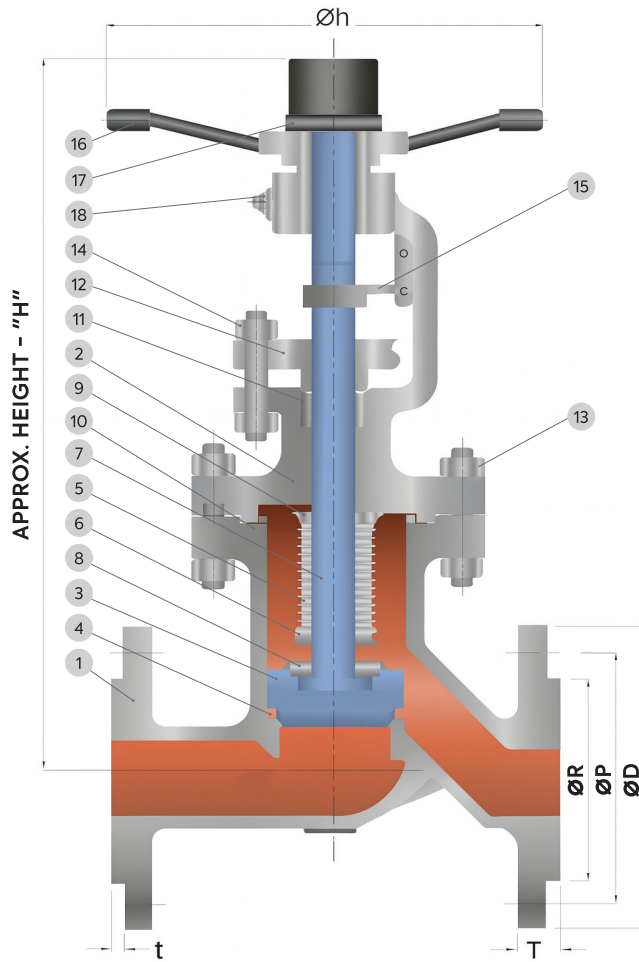
For Standard Plug: KVS = 4.8 - 1691

For Throttling Plug: KVS = 4.36 - 1410

ANSI 150	ANSI 600	PN16	PN40
ANSI 300	ANSI 900	PN25	



Part Name	PN16	PN25
1. Body & Bonnet	EN-JL 1040 Cast Iron	EN-GJS-400-18-LT Ductile Iron
2. Plug	St. Steel 1.4021 + Hard Faced 13% Cr	
3. Seat	ASTM - A105 + Hard Faced 13% Cr	
4. Bellow	St. Steel 1.4541 / AISI-321	
5. Bellow Collar	St. Steel 1.4541	
6. Stem	St. Steel 1.4006	
7. Gland	St. Steel 1.4021	
8. Packing	Pure Graphite	
9. Hand Wheel	EN-GJS-400-18-LT Nodular	
10. Bonnet Gasket	Graphite + Stainless Steel	
11. Bolt & Nuts	Carbon Steel Gr. 10.9	



Part Materials

Nominal Pressure		PN40	
1. Body	1.0619/ ASTM - A 216 Gr. WCB	1.4408/ ASTM - A351 Gr. CF8M (1.4408)	
2. Bonnet	1.0619/ ASTM - A 216 Gr. WCB	1.4408/ ASTM - A351 Gr. CF8M (1.4408)	
3. Plug	ASTM - A217 Gr. CA15 + 13% Cr. Overlay	1.4408/ ASTM - A351 Gr. CF8M (1.4408) + Stellite Gr. 6	
4. Integral Seat	1.0619/ ASTM - A216 Gr. WCB + 13% Cr. Overlay	1.4408/ ASTM - A351 Gr. CF8M (1.4408) + Stellite Gr. 6	
5. Bellow	1.4541 / AISI-321	1.4571/ AISI - 316Ti	
6. Bellow Collar	1.4401 / ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316	
7. Stem	1.4006 / ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316	
8. Collar Ring	1.4006 / ASTM - A 276 TYPE 410	1.4401 / ASTM - A 276 TYPE 316	
9. Top Collar	1.4401 / ASTM - A 276 TYPE 316	1.4401 / ASTM - A 276 TYPE 316	
10. Gasket	SPW- SS304 + Graphite		
11. Packing	Graphite		
12. Gland bush/Flange	1.0619/ ASTM - A216 Gr. WCB	1.4408/ ASTM - A351 Gr. CF8M	
13. Fastener	ASTM - A 193 Gr. B7/ A 194 Gr. 2H	ASTM - A 193 Gr. B8M/ A 194 Gr. 8M	
14. Gland Stud & Nut	ASTM - A 193 Gr. B7/ A 194 Gr. 2H	ASTM - A 193 Gr. B8M/ A 194 Gr. 8M	
15. Guide Plate/Indicator	Carbon Steel	1.4408/ ASTM - A351 Gr. CF8M	
16. Hand Wheel	Mild Steel/ Nodular Cast Iron		
17. Hand Wheel Nut/Cap	Carbon Steel	1.4401 / AISI -316	
18. Grease Nipple	Carbon Steel	1.4401 / AISI -316	

Working Conditions

Temperature (°C)	Pressure (Bar)				
	Cast Iron EN-JL 1040	Ductile Iron EN-GJS-400-18-LT	Carbon steel WCB (1.0619)	Stainless Steel CF8M (1.4408)	
	PN16		PN25	PN40	
-60/-10					40.0
-10/120 -10/100*	16.0	16.0	25.0	40.0	40.0*
150	14.4	15.5	24.3	35.2	36.3
200	12.8	14.7	23.0	33.3	33.7
250	11.2	13.9	21.8	30.4	31.8
300	9.6	12.8	20.0	27.6	29.7
350		11.2	17.5	25.7	28.5
400				23.8	27.4

Dimensions(mm)

DN	PN	ØD (Outer Flange Diameter)	ØP (Bolt Circle)	ØR	T	t	No. of Hole /Ø	L (Face to face)	Øh	Stroke	H (Closed)	Weight (kg)
15	16	95	65	46	16	2	4/Ø14	130	172	4.0	215	4.8
	25	95	65	46	16	2	4/Ø14	130	172	4.0	215	5.0
	40	95	65	45	16	2	4/Ø14	130	172	4.0	260	8.5
20	16	105	75	56	16	2	4/Ø14	150	172	5.0	220	5.2
	25	105	75	56	18	2	4/Ø14	150	172	5.0	220	5.5
	40	105	75	58	18	2	4/Ø14	150	172	5.0	275	9.5
25	16	115	85	65	17	3	4/Ø14	160	172	6.5	230	6.0
	25	115	85	65	19	3	4/Ø14	160	172	6.5	230	6.4
	40	115	85	68	18	2	4/Ø14	160	172	7.0	290	11.5
32	16	140	100	76	18	3	4/Ø19	180	172	8.0	235	7.8
	25	140	100	76	19	3	4/Ø19	180	172	8.0	235	8.3
	40	140	100	78	18	2	4/Ø18	180	200	8.0	297	17.0
40	16	150	110	84	19	3	4/Ø19	200	200	10.0	255	11.2
	25	150	110	84	19	3	4/Ø19	200	200	10.0	265	11.5
	40	150	110	88	18	3	4/Ø18	200	200	10.0	331	19.0
50	16	165	125	99	20	3	4/Ø19	230	200	13.0	265	13.6
	25	165	125	99	20	3	4/Ø19	230	200	13.0	275	14.2
	40	165	125	102	20	3	4/Ø18	230	200	13.0	350	21.5
65	16	185	145	118	20	3	4/Ø19	290	250	16.5	325	22.9
	25	185	145	118	22	3	8/Ø18	290	250	16.5	325	24.8
	40	185	145	122	22	3	8/Ø18	290	250	16.0	435	33.5
80	16	165	160	132	22	3	8/Ø19	310	250	20.0	335	27.4
	25	165	160	132	24	3	8/Ø19	310	250	20.0	355	27.9
	40	165	160	138	24	3	8/Ø18	310	300	19.0	455	45.0
100	16	220	180	156	24	3	8/Ø19	350	300	25.0	385	40.3
	25	235	190	156	24	3	8/Ø28	350	300	25.0	410	42.2
	40	235	190	162	24	3	8/Ø22	350	300	25.0	540	61.5
125	16	250	210	184	26	3	8/Ø19	400	350	32.0	425	67.2
	25	270	220	184	26	3	8/Ø28	400	350	32.0	450	67.0
	40	270	220	188	26	3	8/Ø26	400	350	32.0	640	102.0
150	16	285	240	211	26	3	8/Ø23	480	400	51.0	485	89.2
	25	300	250	211	28	3	8/Ø28	480	400	38.0	525	91.0
	40	300	250	218	28	3	8/Ø26	480	400	38.0	695	122.0
200	16	340	295	266	30	3	12/Ø23	600	450	64.0	615	143.5
	25	360	310	274	34	3	12/Ø28	600	450	51.0	640	147.0
	40	375	320	285	34	3	12/Ø30	600	450	50.0	825	22.0
250	16	400	355	319	32	3	12/Ø28	730	500	62.5	780	241.0
	25	425	370	330	38	3	12/Ø31	730	500	62.5	820	246.0
	40	450	385	345	38	3	12/Ø33	730	600	70.0	1,010	362.0
300	40	515	450	410	42	4	12/Ø33	850	600	80.0	1,210	533.0

REQUEST FOR QUOTE



STEP 1

Find the model series



STEP 2

Define the specification/valve code



STEP 3

Fill up ordering sheet (back of the brochure) or Scan the QR code below



STEP 4

Submit your order via our website or contact your local partner

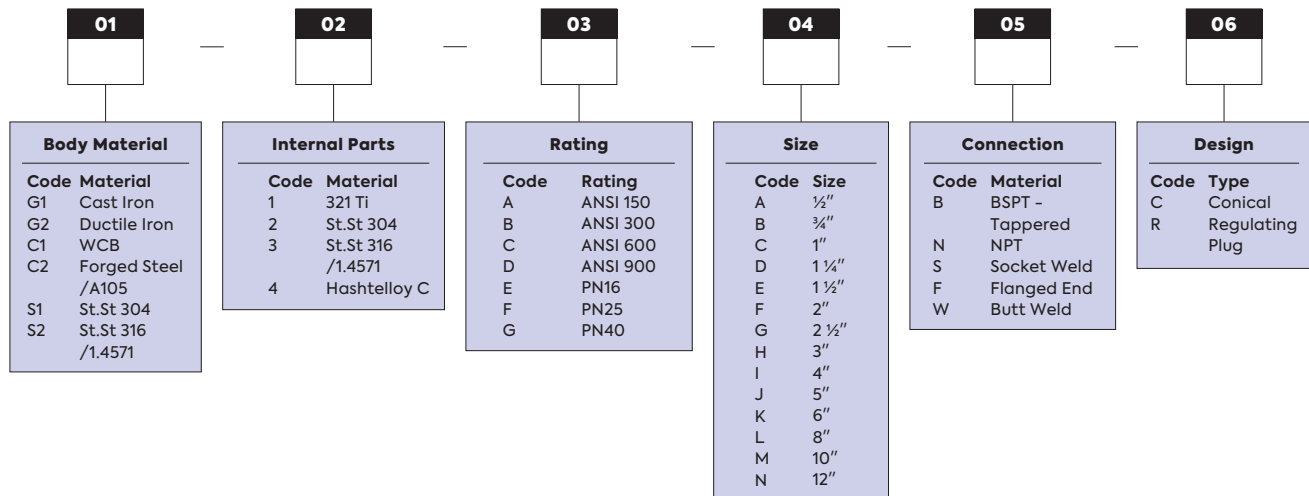


STEP 5

Prepare for confirmation and delivery

*For further assistance with placing your order, please contact your local partner. A sales engineer will be assigned to assist you.

Valve Coding Sheet GL25 Series (S-Type)



Your Valve Ordering Code:

GL25 —

Example:

GL25 Series (S-Type) – C21GDFR.
Forged Steel / A105. 321 Ti Internal Parts. Pressure Rating of PN40, ½ inch size.
Connection Type of Flanged End. Design Regulating Plug.

*For special material or customisation, please refer to our sales engineer.



SCAN FOR ONLINE ORDERING FORM

Tel: +65 6909 1221
Email: enquiry@valvewerkz.com
Website: www.valvewerkz.com