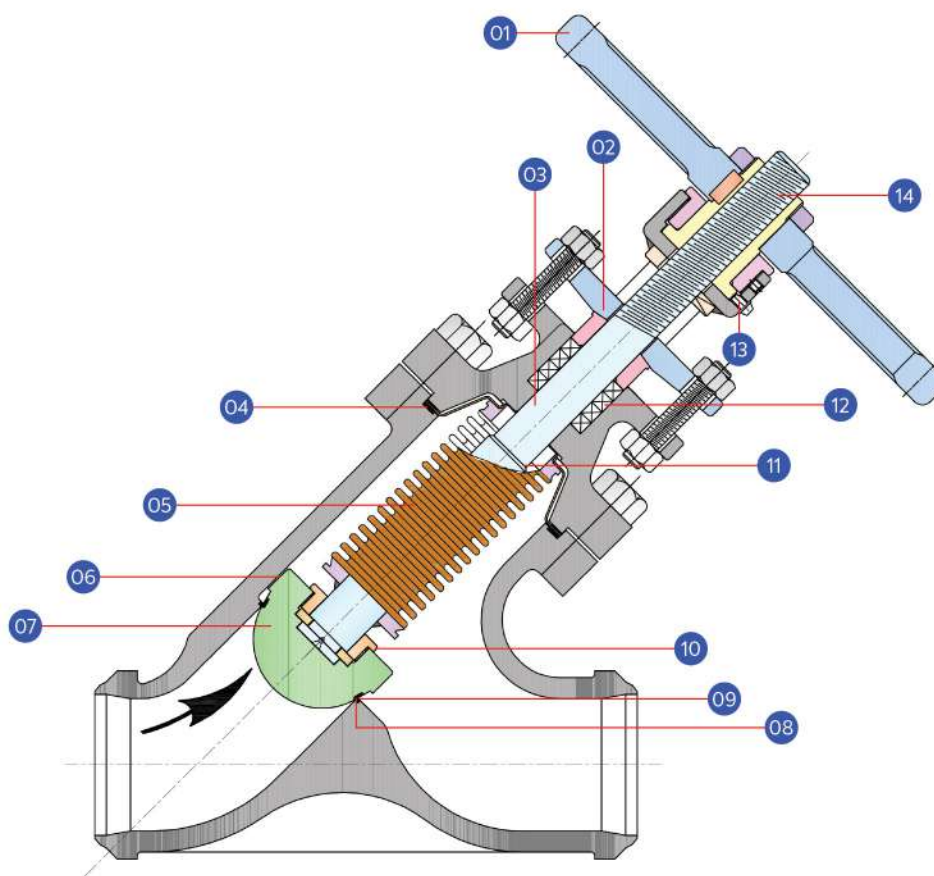


Y TYPE DESIGN



- 1. Non Rising Hand Wheel**
 - Ideal in restricted spaces
- 2. Ease of operation for Secondary Packing**
 - Ease for replacing packing
 - Improves proper sealing
- 3. Non Rotating Stem**
 - High reliability
 - Twist of bellow is avoided
 - Longer packing life
- 4. Body-bonnet Joints**
 - Tongue and groove arrangement
 - No gasket slip possible, long service life
- 5. Multiply Bellows**
 - High service life
- 6. Guided Plug**
 - Body bore guided plug design
- 7. Throttling type plug design**
- 8. Hardfacing or Stellite**
 - Increased service life
- 9. Integral Body Seat**
 - Avoid leak through seating
- 10. Plug and Stem connected by stem nut**
 - Provides 360° rotation of plug
- 11. Back Seat Arrangement on Stem**
 - Additional tertiary safety
 - Anti-blow out under line pressure
- 12. Downstream Safety Gland Packing with Graphite**
 - Additional reliability against bellow failure
- 13. Provision for Lubrication on Yoke Sleeve**
 - Ensures smooth operation
- 14. ACME Stem Thread**
 - Longer service life

WHY OUR VALVES ARE BETTER

Straight type bellow sealed globe valves for demanding applications can be supplied in carbon steel 1.0619 / WCB and stainless steel 1.4408 / CF8M, both with flanged or buttweld ends.

Application (Carbon Steel)

The body and bonnet of the ValveWerkz bellow seal globe valve are made from A105 material. The condensate discharge temperature is adjustable and is factory-set between 120°C and 130°C.

Medium (Carbon Steel)

Medium and high pressure steam, superheated steam, gases, thermal oil, overheated water and gases, etc.

Application (Stainless Steel)

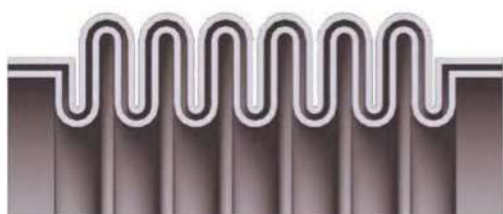
Recycling plants, chemical industry, process water installations, process with aggressive media.

Medium (Stainless Steel)

Process water, aggressive media, corrosive and toxic fluids, ethylene dioxide, H₂SO₄, etc.

Features	ValveWerkz	Others
Stem with back seat	Yes	No
360° free rotation disc	Yes	On Request
Stroke limiter	Yes	On Request
Wide thread stem that prevents the valve from blocking	Yes	No
Tongued body and bonnet	Yes	No

Multi Layer Bellow (ValveWerkz)



- Multiply bellows depending on the pressure of the valve.
- Bellows designed to better MSS SP-117.
- Bellows are welded to the stem and not to the disc, preventing the transmission of vibrations to the bellows, and therefore extending the life of the bellows.

Others



- Just one bellow layer, which means a lower resistance to breakage.
- Bellows designed to support less than 10,000 operation cycles.
- Bellows are welded to the disc, which transmits the vibrations to the bellows, decreasing their lives.

BELLOWS AS A LEAKAGE BARRIER

Our stainless steel 316Ti German manufactured bellows is welded to the stem, becoming a definitive metallic barrier between the process medium and the atmosphere, and hence guarantying zero leakage performance. Still, for higher security, safety TA-LUFT approved packing is applied in design. Furthermore, our multiple layer bellows are designed to last at least 30,000 cycles according to MSS SP-117 manufacturing standard.

Multi Layer Bellows

- Double, triple and quadruple layer bellows depending on the size of the valve.
- Bellows designed to support 30,000 operation cycles.
- Bellows are welded to the stem and not to the disc, preventing the transmission of vibrations to the bellows, and therefore extending the life of the bellows.



Kvs Value Standard Plug

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
KVS	4.8	7.3	11.7	17.8	27.3	43	75.1	111	176	264	369	701	1056	1691

Throttling Plug Kvs Value

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
KVS	4.36	6.76	9.21	16.3	25.1	36.8	61.7	91.6	137	184	287	471	898	1410

Optional Plug Types



Permissible differential pressure acc. EN13709

PN	DN													
	15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN16							16					14	9	6
PN25							25				21	14	9	6
PN40							40			33	21	14	9	6



Applications

- Steam, hot and cold water, oil products, acetic acid, fatty acids, cryogenic liquids, ammonia, natural gas, etc.

GL26 Series

Y 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 - Tapped	NPT
Socket Weld	Flanged End
Butt Weld	

DN15 (½") to DN150 (6")

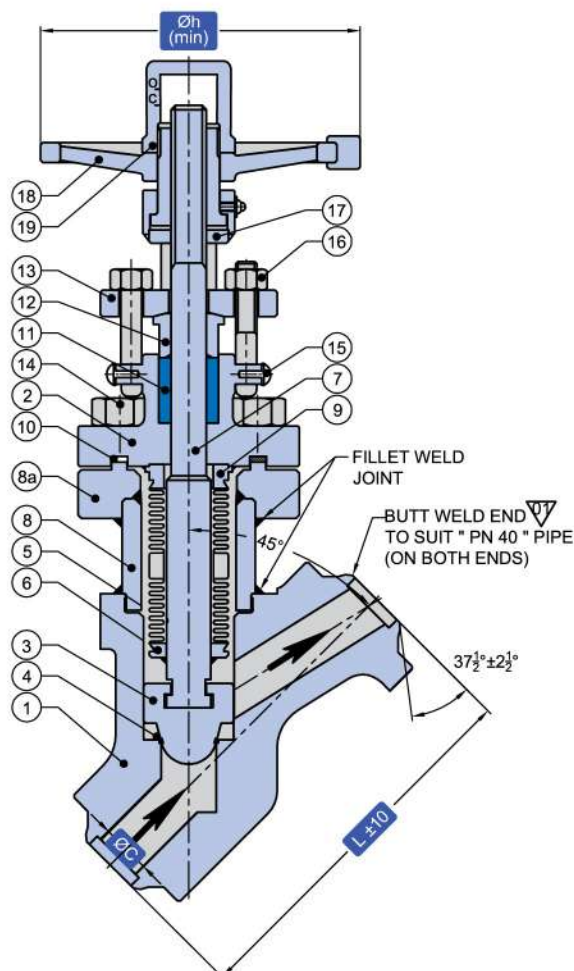
For Standard Plug:

KVS = 4.8 - 1691

For Throttling Plug:

KVS = 4.36 - 1410

ANSI 150	PN16
ANSI 300	PN25
ANSI 600	PN40
ANSI 900	



Part Materials

Nominal Pressure		PN40		300#
1.	Body	ASTM – A 105	ASTM – A 182 Gr.F316L	SS317LMN
2.	Bonnet	ASTM – A 105	ASTM – A 182 Gr.F316L	1.4439
3.	Parabolic Plug	ASTM – A 276 TYPE 410 / A 217 Gr.CA15 + Hard Faced	ASTM – A 276 TYPE 316L + Stellite Gr.21	AISI – 317L + Stellite Gr.21
4.	Integral Seat	ASTM – A 105 + Hard Faced	ASTM – A 182 Gr.F316L + Stellite Gr.21	1.4439 + Stellite Gr.21
5.	Bellow	AISI – 316Ti / AISI – 321		Hastelloy – C276
6.	Bellow Collar	ASTM – A 276 TYPE 316 / 316L		Hastelloy – C276
7.	Stem	ASTM – A 276 TYPE 410	ASTM – A 276 TYPE 316L	AISI – 317L
8.	Cylinder/ Stem Nut (For Ss317I)	ASTM – A 106 Gr.B	ASTM – A 312 TYPE 316L	AISI – 317L
8a.	Cylinder Flange	ASTM – A 105	AISI – 316L	
9.	Top Collar	ASTM – A 276 TYPE 316 / 316L		Hastelloy – C276
10.	Gasket	SPW- SS304 + Graphite		
11.	Packing	Graphite		
12.	Gland Bush	ASTM – A 276 TYPE 410 / A 217 Gr.CA15	ASTM – A 276 TYPE 316L / A 351 Gr.CF3M	AISI – 317L
13.	Gland Flange	ASTM – A 105 / Carbon Steel	ASTM – A 240 TYPE 304 / A 351 Gr.CF8	
14.	Hex Bolt/ Fasterner	ASTM – A 193 Gr.B7		ASTM – A 193 Gr.B8
15.	Rivet / Washer/ Gland Stud / Nut	Carbon Steel	AISI – 304	ASTM – A 240 TYPE 304 / A 351 Gr.CF8
16.	Eye Bolt / Nut	ASTM – A 193 Gr.B7 / A 194 Gr.2H	ASTM – A 193 Gr.B8 / A 194 Gr.8	
17.	Guide Plate	ASTM – A 216 Gr.WCB / Carbon Steel	ASTM – A 276 TYPE 304 / A 351 Gr.CF8	ASTM – A 276 TYPE 304 / A 351 Gr.CF8
18.	Hand Wheel	SG IRON / ASTM – A 216 Gr.WCB	SG IRON / ASTM – A 216 Gr.WCB / IS 2062 Gr. E 250 A	SG IRON / ASTM – A 216 Gr.WCB
19.	Hand Wheel Nut / Key	Carbon Steel	AISI – 304	

Working Conditions

Temperature (°C)	Pressure (Bar)		
	ASTM – A 105	ASTM – A 182 Gr.F316L	SS317LMN
	PN40		ANSI300
-29 to 38	51.1	41.4	41.4
50	50.1	40.4	40.4
100	46.6	34.8	34.8
150	45.1	31.4	31.4
200	43.8	29.2	29.2
250	41.9	27.5	27.5
300	39.8	26.1	26.1
325	38.7	25.5	25.5
350	37.6	25.1	25.1
375	36.4	24.8	24.8
400	34.7	24.3	24.3
425	28.8	23.9	23.9

Dimensions(mm)

DN	PN/ANSI	Body Material	L	H	Øh	Bore Dimension ØC (min)
15	40	ASTM - A 105	150	235	100	9
		ASTM - A 182	130	250	100	12
	300#	Gr.F316L SS317LMN	152	240	150	
20	40	ASTM - A 105	150	240	100	12
		ASTM - A 182	150	266	100	17
	300#	Gr.F316L SS317LMN	178	155	150	
25	40	ASTM - A 105	150	245	100	17
		ASTM - A 182	160	265	150	
	300#	Gr.F316L SS317LMN	203	265	150	
40	40	ASTM - A 105	229	305	200	
		ASTM - A 182	200	305	200	
	300#	Gr.F316L SS317LMN	229	305	200	
50	40	ASTM - A 105	267	335	200	
		ASTM - A 182	230	335	200	
	300#	Gr.F316L SS317LMN	267	335	200	
65	40	ASTM - A 105	292	450	250	
		ASTM - A 182	290	450	250	
	300#	Gr.F316L SS317LMN	292	450	250	
80	40	ASTM - A 105	318	505	300	
		ASTM - A 182	310	505	300	
	300#	Gr.F316L SS317LMN	318	505	300	
100	40	ASTM - A 105	356	605	300	
		ASTM - A 182	350	605	300	
	300#	Gr.F316L SS317LMN	356	605	300	
125	40	ASTM - A 105	400	660	350	
		ASTM - A 182	400	670	350	
	300#	Gr.F316L SS317LMN	400	670	350	
150	40	ASTM - A 105	444	760	350	
		ASTM - A 182	480	750	350	
	300#	Gr.F316L SS317LMN	444	760	350	
200	40	ASTM - A 105	559	900	450	
		ASTM - A 182	600	900	400	
	300#	Gr.F316L SS317LMN	559	900	450	

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 GL26 Series (Y-Type)

01	—	02	—	03	—	04	—	05	—	06																																																																																		
Body Material <table><tr><th>Code</th><th>Material</th></tr><tr><td>G1</td><td>Cast Iron</td></tr><tr><td>G2</td><td>Ductile Iron</td></tr><tr><td>C1</td><td>Cast Carbon Steel</td></tr><tr><td>C2</td><td>Forged Steel /A105</td></tr><tr><td>S1</td><td>St.St 304</td></tr><tr><td>S2</td><td>St.St 316 /1.4571</td></tr></table>	Code	Material	G1	Cast Iron	G2	Ductile Iron	C1	Cast Carbon Steel	C2	Forged Steel /A105	S1	St.St 304	S2	St.St 316 /1.4571		Internal Parts <table><tr><th>Code</th><th>Material</th></tr><tr><td>1</td><td>321 Ti</td></tr><tr><td>2</td><td>St.St 304</td></tr><tr><td>3</td><td>St.St 316 /1.4571</td></tr><tr><td>4</td><td>Hashtelloy C</td></tr></table>	Code	Material	1	321 Ti	2	St.St 304	3	St.St 316 /1.4571	4	Hashtelloy C		Rating <table><tr><th>Code</th><th>Rating</th></tr><tr><td>A</td><td>ANSI 150</td></tr><tr><td>B</td><td>ANSI 300</td></tr><tr><td>C</td><td>ANSI 600</td></tr><tr><td>D</td><td>ANSI 900</td></tr><tr><td>E</td><td>PN16</td></tr><tr><td>F</td><td>PN25</td></tr><tr><td>G</td><td>PN40</td></tr></table>	Code	Rating	A	ANSI 150	B	ANSI 300	C	ANSI 600	D	ANSI 900	E	PN16	F	PN25	G	PN40		Size <table><tr><th>Code</th><th>Size</th></tr><tr><td>A</td><td>½"</td></tr><tr><td>B</td><td>¾"</td></tr><tr><td>C</td><td>1"</td></tr><tr><td>D</td><td>1 ¼"</td></tr><tr><td>E</td><td>1 ½"</td></tr><tr><td>F</td><td>2"</td></tr><tr><td>G</td><td>2 ½"</td></tr><tr><td>H</td><td>3"</td></tr><tr><td>I</td><td>4"</td></tr><tr><td>J</td><td>5"</td></tr><tr><td>K</td><td>6"</td></tr></table>	Code	Size	A	½"	B	¾"	C	1"	D	1 ¼"	E	1 ½"	F	2"	G	2 ½"	H	3"	I	4"	J	5"	K	6"		Connection <table><tr><th>Code</th><th>Material</th></tr><tr><td>B</td><td>BSPT – Tapped</td></tr><tr><td>N</td><td>NPT</td></tr><tr><td>S</td><td>Socket Weld</td></tr><tr><td>F</td><td>Flanged End</td></tr><tr><td>W</td><td>Butt Weld</td></tr></table>	Code	Material	B	BSPT – Tapped	N	NPT	S	Socket Weld	F	Flanged End	W	Butt Weld		Design <table><tr><th>Code</th><th>Type</th></tr><tr><td>C</td><td>Conical</td></tr><tr><td>R</td><td>Regulating Plug</td></tr></table>	Code	Type	C	Conical	R	Regulating Plug
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Your Valve Ordering Code:

GL26	01	02	03	04	05	06

Example:

GL26 Series (Y-Type) - C21GDFR.
Forged Steel / A105. 321 Ti Internal Parts. Pressure Rating of PN40, 1 ¼ inch size. Connection Type of Flanged End. Design Regulating Plug.

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



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ORDERING FORM

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