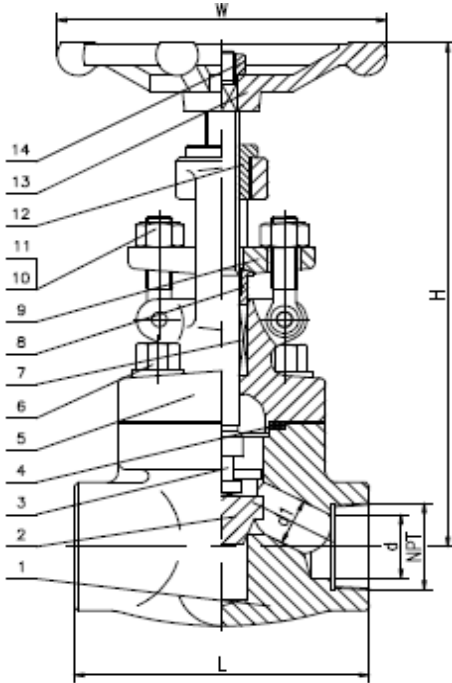


## RGL Series Forged Steel Reduced Bore Globe Valve - ANSI Class 800

The "FGL" range of Forged Steel Globe valves are manufactured with a high integrity forged body with bolted bonnet. The valve design includes Out Screw & Yoke construction and integral back seat. The range offers secure sealing at pressure classes upto ANSI Class 800 lbs pressure and temperature ratings. Packing type offered is flexible graphite. Available in carbon steel as standard with alloy steels by request.



No	Name	Material
1	Body	ASTM A105N
2	Disc	ASTM A276 Gr 410 + STL
3	Stem	ASTM A182 Gr F6a
4	Gasket	Graphite / SS304
5	Bonnet	ASTM A105N
6	Bonnet Bolt	ASTM A193 GR B7
7	Packing	Graphite
8	Packing Gland	ASTM A276-410
9	Gland Flange	ASTM A105
10	Gland Bolt	ASTM A193 GR B7
11	Gland Nut	ASTM A194 GR 2H
12	Stem Nut	AISI 1025
13	Handwheel	ASTM A197
14	Locking Nut	AISI 1025
15	Name Plate *	Aluminium

\* Not shown on drawing

### Design Features

- Design and manufacture to API602
- Face to Face dimension as per ANSI B16.10
- Threaded / Socket Weld connections to ASME B16.11
- Pressure Temperature rating to ASME B16.34
- Test and Inspection to API598
- Body marking as per MSS-SP-25

### Dimensions for Class 800, RB Forged Globe Valve in mm

NPS	L	d1	d	NPT	H	W	Wt(Kg)
1/2	79	9	15	1/2	164	100	1.9
3/4	92	13	20	3/4	164	100	2.1
1	111	17.5	25	1	203	125	3.5
1 1/2	152	30	40	1 1/2	260	160	7.5
2	172	35	50	2	300	180	11.4

API 602 # 800 A105N Rating†			
Service Temperature		ASTM A105	
°F	°C	PSIG	Mpa
-20 To 100	-29 To 38	1975	13.62
200	94	1800	12.41
300	149	1750	12.07
400	205	1690	11.65
500	260	1595	11.00
600	316	1460	10.07
650	344	1430	9.86
700	371	1420	9.79
750	399	1345	9.27
800	427	1100	7.58
850	455	715	4.93
900	482	460	3.17
950	510	275	1.90
1000	538	140	0.96

† Permissible but not recommended for prolonged use above 800° F (427°C)

### Test Pressures - ANSI Class 800

Body (Hydro)	3000	psig
Seat (Hydro)	2200	
Seat (Air)	90	psig
Back Seat (Hydro)	2200	psig
Suitable Temperature -29 to 425		
Suitable media	Steam, Water, Gas, Oil etc	

Body Design Conditions	Class 800
PMA Maximum allowable pressure	1975 psig
TMA Maximum allowable temperature	425 °C
Minimum allowable temperature	-29 °C
PMO Maximum operating pressure	1975 psig @38 °C
TMO Maximum operating temperature	425 °C
Minimum operating temperature	-29 °C