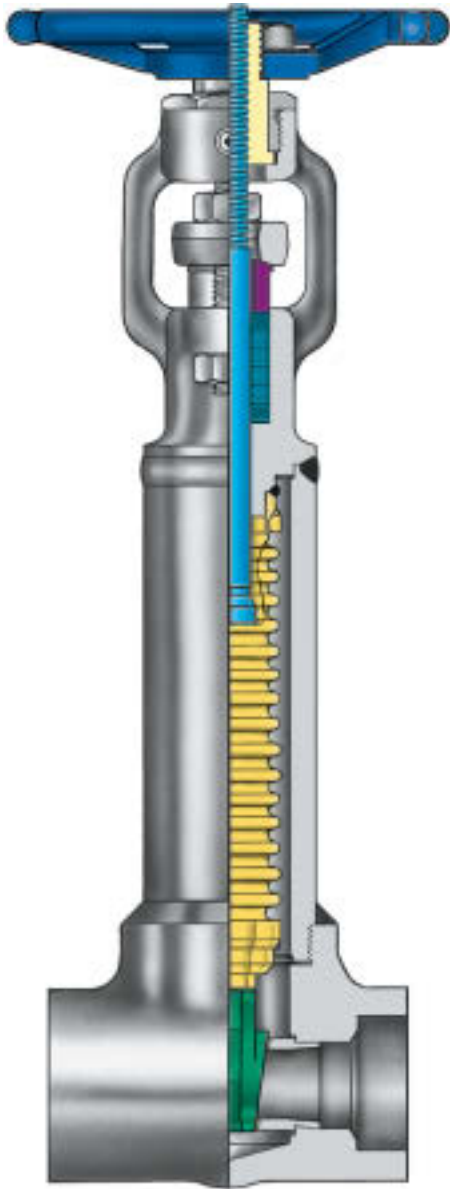




COMPACT FORGED STEEL BELLOWS SEAL GATE VALVES

THREADED, SOCKET WELD OR FLANGED 1/2–2" (15–50 mm)
API 602, CLASSES 800, 1500, ASME CLASSES 150–1500



DESIGN FEATURES:

- **Long cycle life bellows (3000 cycles).**
Designed and qualification-tested for high pressure/temperature service.
- **Bellows monitoring port (optional).** A plug can be connected with the space above the bellows to monitor performance.
- **Two secondary stem seals:**
 - a) Backseat in open position
 - b) Graphite packing.
- **Superior seating faces.**
Seats hardfaced with Stellite 6 and wedge is solid Stellite 6.

All standard valves available in A 105N, A 182 Gr. F22 & Gr. F316.

TYPICAL A 105 VALVE PARTS LIST

Part	Standard Materials
Body	A 105N
Body Extension	Steel ASTM A 106 Gr. B
Seat	Gr. 410 (stainless) HF
Wedge	Stellite 6
Bonnet	A 105N
Stem	Gr. 410 (stainless)
Packing rings	Graphite
Bellows ⁽¹⁾	Gr. 321 (stainless)
Gland stud	Gr. B6 (stainless)
Gland nut	Gr. 2H (stainless)
Gland	Gr. 416 (stainless)
Packing flange	A 105
Stem nut	Gr. 416 (stainless)
Yoke bushing	Steel
Handwheel	Malleable iron (painted)
Stem nut	Steel
Handwheel Lock washer	Steel
Name plate	Aluminum

(1) Hastelloy C and Inconel 625 also available.

A bolted bonnet version with provision for seal welding is available for nuclear and other applications.

Optional body, trim and bellows materials available on request.

PRESSURE/TEMPERATURE RATINGS

Material	Temp. °F °C	Working Pressure psig bar		Shell Test Pressure psig bar	
		800	1500	800	1500
A 105N	100 38	1975 136	3705 256	2975	5575
	800 427	1100 76	2060 142		
A 182 Gr. F 316	100 38	1920 132	3600 248	2900	5400
	1000 538	935 64	1750 121		

FIGURE NUMBERS

Class	Figure No.
150	0054T
300	1054T
600/800	2054T
1500	3054T

DIMENSIONS AND WEIGHTS

Size in mm	Port		End to End		Handwheel		Center to Top Open		Center to Top Closed		Socket Weld Bore	Socket Weld Depth	End to End (Flanged)				Weight lb kg	
	800	1500	800	1500	800	1500	800	1500	800	1500			150	300	600	1500	800	1500
1/2 ⁽¹⁾ 15	0.38 10	0.50 13	2.88 73	3.50 89	2.50 64	3.50 89	7.20 183	13.50 343	6.70 170	12.88 327	0.855 21.72	0.38 10	4.25 108	5.50 139	6.50 165	8.50 216	3 1.4	8 3.6
3/4 20	0.50 13	0.50 13	3.25 83	3.50 89	3.50 89	3.50 89	11.25 286	13.50 343	10.63 270	12.88 327	1.065 27.05	0.50 13	4.63 118	6.00 152	7.50 191	9.00 229	6 2.7	8 3.6
1 25	0.69 18	0.69 18	3.50 89	5.00 127	3.50 89	5.00 127	12.56 319	17.00 431	11.75 298	16.19 411	1.330 33.78	0.50 13	5.00 127	6.50 165	8.50 216	10.00 254	7 3.2	17 7.7
1 1/4 32	1.25 32	1.25 32	5.00 127	5.25 133	6.00 152	8.00 203	15.50 393	22.63 575	14.13 359	21.25 540	1.675 42.55	0.50 13	5.50 140	7.00 178	9.00 227	11.00 279	16 7.3	32 14.6
1 1/2 40	1.25 32	1.25 32	5.00 127	5.25 133	6.00 152	8.00 203	15.50 393	22.63 575	14.13 359	21.25 540	1.915 48.64	0.50 13	6.50 165	7.50 191	9.50 241	12.00 305	16 7.3	32 14.6
2 50	1.50 38	1.50 38	5.25 133	10.00 254	6.00 152	10.00 254	17.81 452	25.94 659	16.13 410	24.25 616	2.406 61.11	0.63 16	7.00 178	8.50 221	11.50 292	14.50 368	22 10	60 27

(1) All dimensions are for A 105N and F316 only. For other materials see 3/4" (20 mm) dimensions.