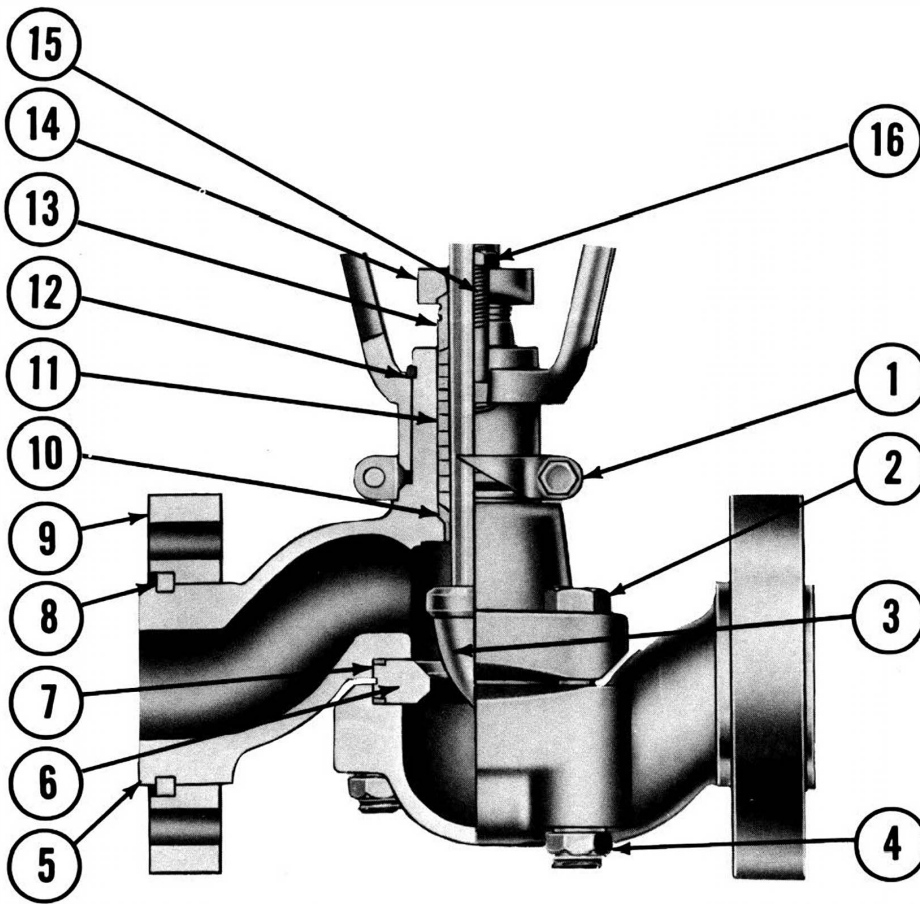


LO-DB Seat Ring



LO-DB Plug and Stem



Materials

Part No.	Temperatures Description	-320°F	-20°F	+400°F	+450°F	+750°F	+1000°F	+1200°F	
		Standard Materials							
1	Yoke Clamp	304 St. St.							
2	Valve Body Bolting	Alloy Steel ASTM A193 Gr B7							
		Stainless Steel ASTM A193 Gr B8							A453
3	Plug/Stem	316 St. St. ASTM A479 TY							
		Hardfaced 316 St. St. ASTM A479 TY (Std. on LO-DB®, opt. on others) ①							
4	Valve Body Nuts	Stainless Steel ASTM A194 Gr 8							
		Alloy Steel ASTM A194 Gr 2H							
5	Body	316 St. St. ASTM A351 Gr CF8M							
		Carbon Steel ASTM A216 Gr WC B							
6	Seat Ring	316 St. St. ASTM A479 TY							
		316 St. St./TFE							
		Hardfaced 316 St. St. ASTM A479 TY (optional)							
7	Seat Ring Gasket	Teflon							
		Non-asbestos Sheet							
		Inconel X-750 Metal O-ring							
8	Flange Half Rings	Carbon Steel							
		304 St. St. (optional)							
9	Separable End Flange	304 St. St. (optional)							
		Carbon Steel ASTM A515 Gr 70							
10	Stem Guide	Stellite							
		AL/BZ							
		25% GLT							
11	Packing	Teflon V-ring ②							
		Grafoil							
12	Yoke Half Rings	304 St. St.							
13	Packing Follower	316 St. St. ASTM A479 TY 316							
		Alloy 20 ASTM B473 (for Alloy 20 valves)							
14	Gland Flange	316 St. St. ASTM A351 Gr CF8M							
15	Packing Box Studs	304 St. St. ASTM A193 Gr B8							
16	Packing Box Stud Nuts	304 St. St. ASTM A194 Gr 8F							

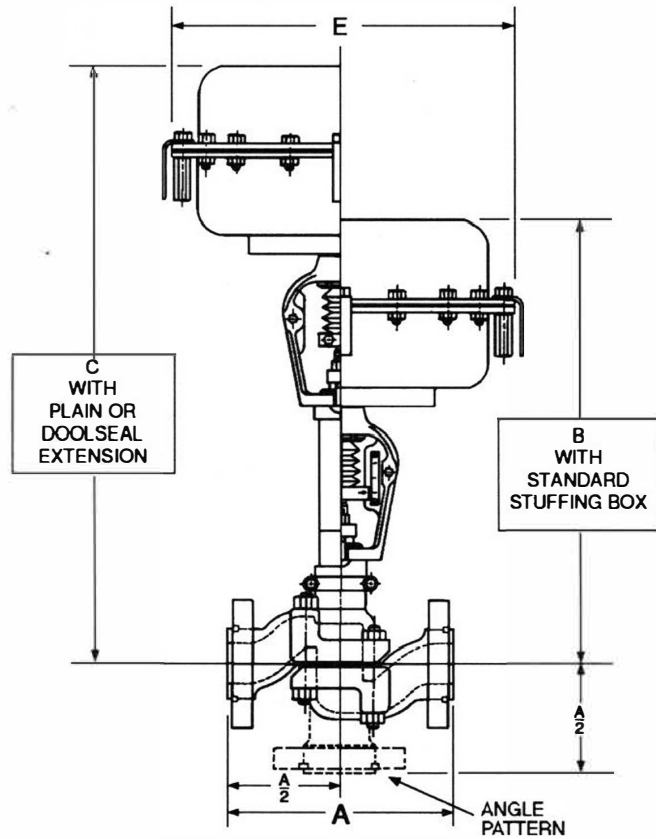
① Hardfacing of stem is mandatory on LO-DB trim and services over 750°F

② No bonnet insulation allowed for teflon packings

Note: Extension bonnet is required for service temperature below -20°F and above +600°F

Grafoil packing necessary for services between 450°F to 600°F without extension

Dimensions (inches)



Diaphragm Actuator (87/88)

Valve Size (inches)	ANSI Class 150, 300 & 600			
	A	B ^①	C ^①	E
1/2	6.75	13.7	17.7	11.9
3/4	6.75	13.7	17.7	11.9
1 ^②	8.50	13.7	17.7	11.9
1 1/2 ^②	9.50	19.5	25.5	14.7
2 ^②	11.50	20.0	26.0	14.7
3 ^②	14.00	28.0	37.0	18.8
4 ^{② ③}	17.00	28.0	37.0	18.8

- ① Add 4 1/2" to B, C or D dimension for actuator removal clearance
- ② Dimension A is for separable flanges or weld ends only. See table on page 19 for integral flange dimension A (to ISA standards as noted)
- ③ 150 and 300 ANSI only