

Rising Stem Ball Valve (RSBV)



SchuF  **FETTEROLF**

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Rising Stem Ball Valve Overview

- **Tilt-and-Turn Seal Design**

Offset sealing design which promotes longer seal life and reduced wear along the sealing surfaces, reducing spare part requirements and, overhead costs.

- **Lower Operational Torque**

With the elimination of ball to seal contact during switching, the operational torque loads are significantly lower than that of a standard Floating or Trunnion ball valve.

- **API, ASME, DIN, ISO, JIS, and Grayloc® Design**

Standard face to face dimensioning in accordance with API 6D / API 608, coupled with ISO 5211 bonnet design, along with ASME, DIN, JIS, and Grayloc® flange selections.

- **Blow-Out Proof Stem**

Robust blow-out proof spindle complies with API 609 and allows for high pressure sealing while virtually eliminating bending during operation.

- **Corrosion & Wear Resistant Material Selection**

A wide selection of exotic materials & coatings are available including tungsten carbide, electro-less nickel plated, and Hastelloy® trims.

- **Rapidly Serviceable With Back Seat Design**

All RSBV stems are constructed with a back seated spindle enabling quick gland seal replacement even when the valve is still in service.

- **Fire Tested & Cryogenic Models Available**

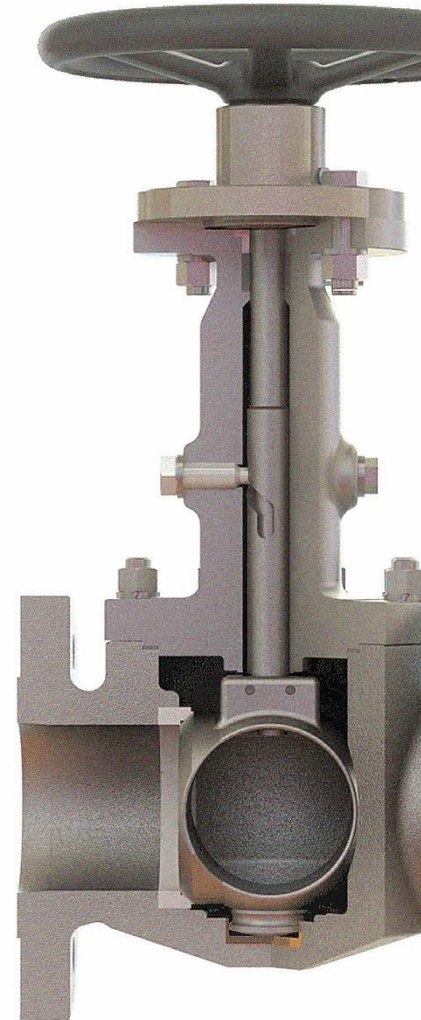
Fire Safe testing in accordance with API 6FA, and Cryo designs with operating temperatures as low as -196°C (-321°F) are available.

- **Seat & Seal Injection Options**

Emergency sealant injection options for both the seat and stem seal can maintain a temporary seal until the damaged seal can be replaced.

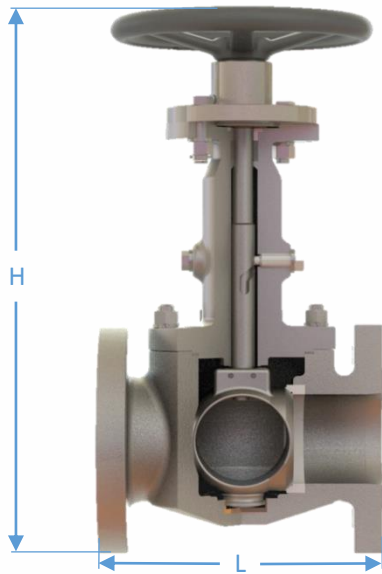
- **Versatile Application Specific Designs**

Single & two piece stems, standard & OS&Y bonnets, dual stem cam pins, vent/ drain plugs, and double block & bleed options are available.



**OPTIMIZED DESIGN,
SAVES YOU TIME AND MONEY !**

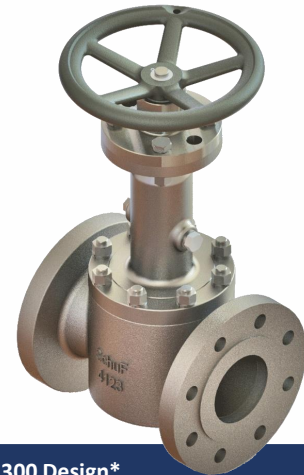
Standard Dimensions - ASME Class 150 / 300



* Additional sizes, connections, and configurations are available upon request.

* Threaded or butt weld end connections are available for all sizes and configurations.

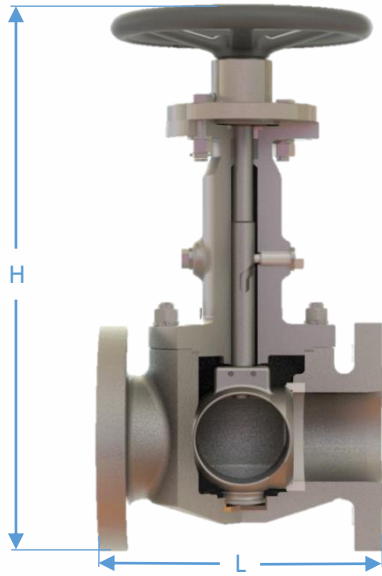
* Reduced bore models are available in all sizes and configurations.



Standard Rising Stem Ball Valve Dimensions - ASME Class 150 / 300 Design*

Model Inch (Din)	ASME Class 150			ASME Class 300		
	L (mm)	H (mm)	Weight (Kg)	L (mm)	H (mm)	Weight (Kg)
1" (DN25)	13,2 (127)	9,5 (240)	35 (15)	6,5 (165)	9,8 (250)	45 (20)
1,5" (DN40)	13,6 (165)	10,2 (260)	35 (15)	7,5 (190)	10,5 (270)	60 (27)
2" (DN50)	7,0 (178)	12,2 (310)	65 (30)	8,5 (216)	12,5 (320)	65 (30)
3" (DN80)	8,0 (203)	15,0 (380)	80 (35)	11,1 (282)	16,0 (405)	100 (45)
4" (DN100)	9,0 (229)	17,7 (450)	130 (60)	12,0 (305)	18,5 (470)	165 (75)
6" (DN150)	15,5 (394)	26,5 (675)	250 (115)	15,9 (403)	36,0 (915)	340 (155)
8" (DN200)	18,0 (457)	32,5 (825)	515 (235)	19,8 (502)	43,5 (1105)	460 (210)
10" (DN250)	21,0 (533)	38,0 (965)	740 (335)	22,4 (568)	50,2 (1275)	915 (415)
12" (DN300)	24,0 (610)	47,2 (1200)	1595 (725)	25,5 (648)	57,0 (1450)	1630 (75)
14" (DN350)	27,0 (686)	51,0 (1295)	2310 (1050)	30,0 (762)	61,5 (1560)	2465 (1120)
16" (DN400)	30,0 (762)	56,0 (1420)	2675 (1215)	33,0 (838)	68,0 (1725)	2840 (1290)
18" (DN450)	34,0 (864)	61,0 (1550)	3695 (1680)	36,0 (914)	74,5 (1890)	4050 (1840)
20" (DN500)	36,0 (914)	68,5 (1740)	4325 (1965)	39,0 (991)	81,0 (2055)	5105 (2320)
24" (DN600)	42,0 (1067)	75,0 (1905)	5630 (2560)	45,0 (1143)	87,0 (2210)	6580 (2990)

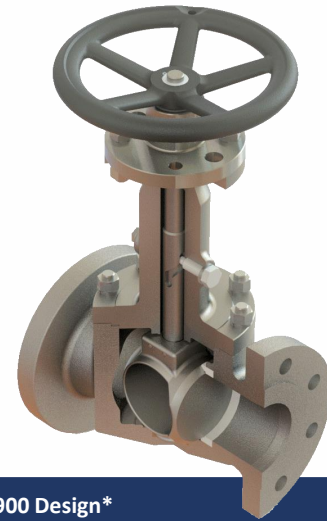
Standard Dimensions - ASME Class 600 / 900



* Additional sizes, connections, and configurations are available upon request.

* Threaded or butt weld end connections are available for all sizes and configurations.

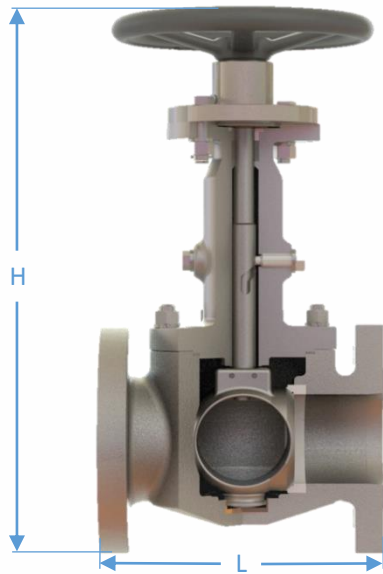
* Reduced bore models are available in all sizes and configurations.



Standard Rising Stem Ball Valve Dimensions - ASME Class 600 / 900 Design*

Model Inch (Din)	ASME Class 600			ASME Class 900		
	L (mm)	H (mm)	Weight(Kg)	L (mm)	H (mm)	Weight (Kg)
1" (DN25)	8,5 (216)	14,0 (355)	55 (25)	10,0 (254)	15,0 (380)	135 (60)
1,5" (DN40)	9,5 (241)	16,5 (420)	70 (30)	12,0 (305)	18,0 (455)	210 (95)
2" (DN50)	11,5 (292)	19,5 (490)	80 (35)	14,5 (368)	21,0 (530)	275 (125)
3" (DN80)	14,0 (356)	24,0 (610)	140 (65)	15,0 (381)	30,0 (760)	340 (155)
4" (DN100)	17,0 (432)	29,0 (735)	215 (100)	18,0 (457)	35,5 (900)	450 (205)
6" (DN150)	22,0 (559)	41,5 (1055)	550 (250)	24,0 (610)	45,3 (1150)	1035 (470)
8" (DN200)	26,0 (660)	50,0 (1270)	915 (415)	29,0 (737)	55,0 (1395)	1595 (725)
10" (DN250)	31,0 (787)	58,5 (1485)	1760 (800)	33,0 (838)	64,0 (1625)	2400 (1090)
12" (DN300)	33,0 (838)	66,5 (1690)	2530 (1150)	38,0 (965)	73,0 (1855)	4555 (2070)
14" (DN350)	35,0 (889)	71,5 (1815)	3630 (1650)	40,5 (1029)	76,5 (1940)	5260 (2390)
16" (DN400)	39,0 (991)	79,0 (2010)	3960 (1800)	44,5 (1130)	85,0 (2160)	9020 (4100)
18" (DN450)	43,0 (1092)	87,0 (2210)	5630 (2560)	48,0 (1219)	89,0 (2260)	9570 (4350)
20" (DN500)	47,0 (1194)	94,5 (2400)	8230 (3740)	52,0 (1321)	96,0 (2440)	10525 (4785)
24" (DN600)	55,0 (1397)	103,0 (2615)	10560 (4800)	61,0 (1549)	110,0 (2795)	-

Standard Dimensions - ASME Class 1500 / 2500



* Additional sizes, connections, and configurations are available upon request.

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* Reduced bore models are available in all sizes and configurations.



Standard Rising Stem Ball Valve Dimensions - ASME Class 1500 / 2500 Design*

Model Inch(Din)	ASME Class 1500			ASME Class 2500		
	L (mm)	H (mm)	Weight (Kg)	L (mm)	H (mm)	Weight (Kg)
1" (DN25)	10,0 (254)	16,5 (420)	125 (65)	17,8 (451)	18,1 (460)	210 (95)
1,5" (DN40)	12,0 (305)	20,0 (505)	210 (95)	20,0 (508)	22,3 (565)	220 (100)
2" (DN50)	14,5 (368)	27,2 (690)	275 (125)	22,8 (578)	28,0 (710)	320 (145)
3" (DN80)	18,5 (470)	33,5 (850)	385 (175)	26,5 (673)	33,5 (850)	480 (218)
4" (DN100)	21,5 (546)	39,5 (1005)	560 (255)	36,0 (914)	40,7 (1035)	925 (420)
6" (DN150)	27,8 (705)	49,5 (1255)	1830 (830)	40,3 (1022)	52,5 (1335)	2245 (1020)
8" (DN200)	32,8 (832)	60,0 (1525)	2970 (1350)	50,0 (1270)	64,8 (1645)	3980 (1810)
10" (DN250)	39,0 (991)	70,0 (1780)	5125 (2330)	56,0 (1422)	67,5 (1715)	5470 (2485)

Rising Stem Ball Valve Standards



Sour Service Standards

Nace MR0175
Nace MR0103
ISO 15156



Design Standards

ASME B16.34
ASME Boiler & Pressure Vessel Code Sec. IX & VIII
API 6D/ API 608
BS5351

Testing Standards

EN 10204
API 598
ASME B16.34
API 6D
ISO 15848-1

Alternative Connection Standards

ASME B16.25
ASME B16.11
ASME B16.1.20

Flange Standards

ASME B16.5
ASME B16.47
EN 10092-1
JIS B2220

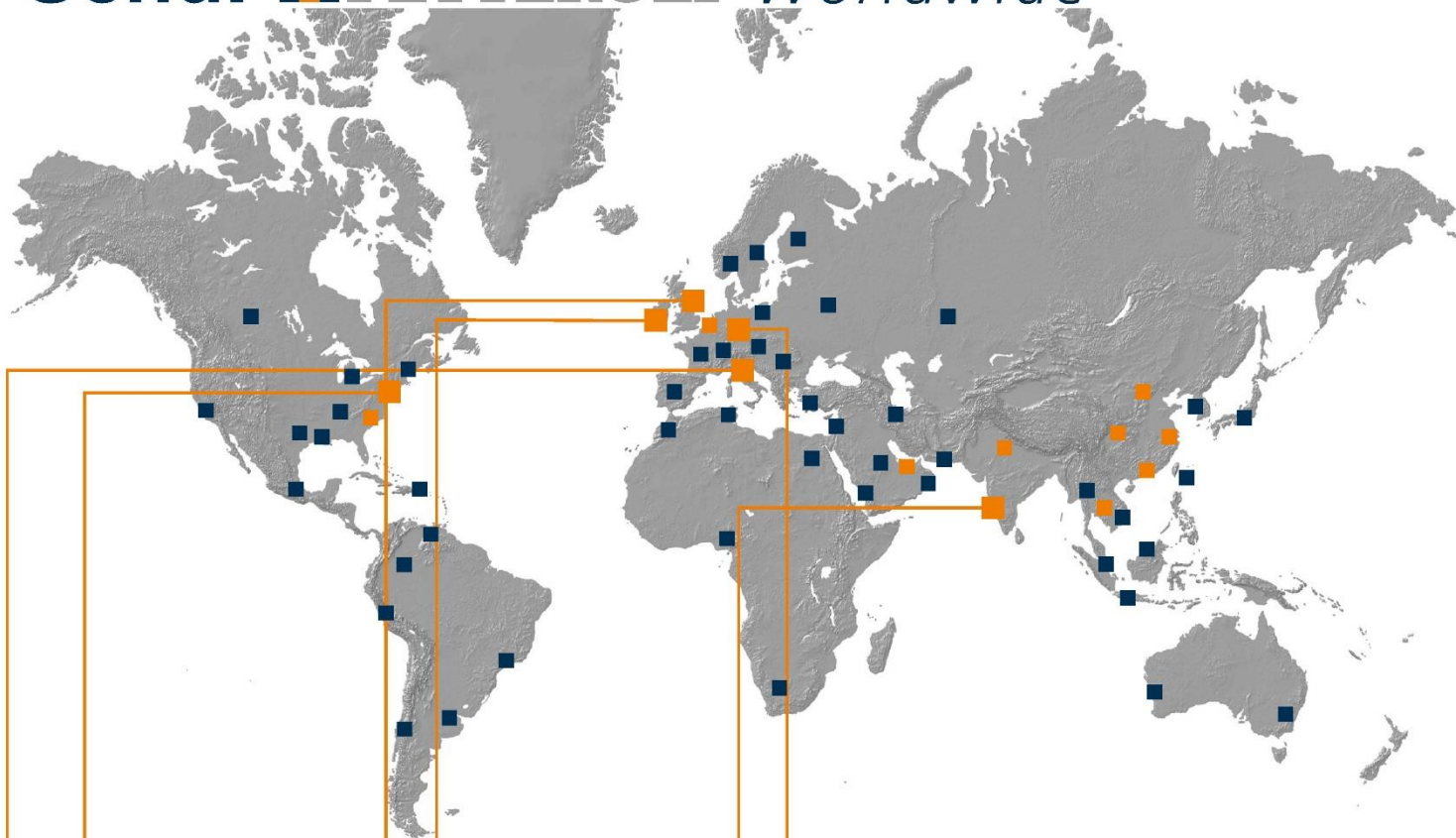


Add. Standards

API 6FA/ BS6364
MSS-SP-55
MSS-SP-77
API 607
API 624



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