



Design Specifications

- General valve design : API 600 / ISO 10434
- Pressure, temperature rating : ASME B 16.34
Standard class
- Flanged end design : ASME B 16.5
- Buttweld end design : ASME B 16.25
- End to end dimension / Face to face : ASME B 16.10
- Testing standard : API 598

Dimensions in mm

Class 150

	50	80	100	150	200	250	300	350	400	450	500	600
E	177.8	203.2	228.6	266.7	292.1	330.2	355.6	381.0	406.4	431.8	457.2	508.0
ØB	51.0	76.0	102.0	152.0	203.0	254.0	305.0	336.0	387.0	438.0	489.0	591.0
C _(max)	370.0	445.0	530.0	720.0	940.0	1170	1400	1665	1910	2050	2275	2680
ØD	203.0	254.0	254.0	356.0	356.0	457.0	508.0	508.0	610.0	700.0	800.0	900.0
E**	215.9	282.5	304.8	403.4	419.1	457.2	501.7	572.0	609.6	660.4	711.2	812.8
ØB**	52.5	78.0	102.0	154.0	203.0	254.5	303.0	333.5	381.0	428.5	478.0	574.5

Schedule 40 for class 150. Alternate schedule on request.

Class 300

	50	80	100	150	200	250	300	350	400
E	215.9	282.5	304.8	403.4	419.1	457.2	501.7	762.0	838.2
ØB	51.0	76.0	102.0	152.0	203.0	254.0	305.0	337.0	387.0
C _(max)	410.0	505.0	625.0	840.0	1035	1245	1430	1740	1935
ØD	203.0	254.0	254.0	356.0	457.0	508.0	508.0	610.0	700.0
E**	215.9	282.5	304.8	403.4	419.1	457.2	501.7	762.0	838.0
ØB**	52.5	78.0	102.0	154.0	203.0	254.5	303.0	333.5	381.0

Schedule 40 for class 300. Alternate schedule on request.

Class 600

	50	80	100	150	200	250	300
E	292.1	355.6	431.8	558.8	660.4	787.4	838.2
ØB	51.0	76.0	102.0	152.0	200.0	248.0	298.0
C _(max)	435.0	535.0	645.0	895.0	1065	1255	1550
ØD	203.0	254.0	356.0	508.0	508.0	508.0	610.0
E**	292.1	355.6	431.8	558.8	660.4	787.4	838.2
ØB**	49.2	73.5	97.0	146.5	193.5	243.0	289.0

Schedule 80 for class 600. Alternate schedule on request.

Materials

Part No.	Description	Material			
100	Body	A 216-WCB	A 217-WC6	A 351-CF8	A 351-CF8M
166	Bonnet	A 216-WCB	A 217-WC6	A 351-CF8	A 351-CF8M
200	Stem	A 479-410-2 / A 182-F6 A (>12")	A 479-410-2 / A 182-F6 A (>12")	A 276-304 / A 182-F 304 (>12")	A 276-316 / A 182-F316 (>12")
361	Wedge	A 217-CA15 A 216-WCB+13%Cr	A 217-WC6+ST6	A 351-CF8	A 351-CF8M
411 *	Gasket	SS 316 + GRPH	SS 316 + GRPH	SS 316 + GRPH	SS 316 + GRPH
450	Back Seat	A 276-410 (H)	A 276-410 (H)	A 276-304	A 276-316
452	Gland Flange	A 105/A 216-WCB	A 105	A 351-CF8	A 351-CF8M
456	Gland Bush	A 276-410	A 276-410	A 276-304	A 276-316
461	Gland Packing	Graphite	Graphite	Graphite	Graphite
515	Seat Ring	A 105+13%Cr	A 182-F11+ST6	A 351-CF8	A 351-CF8M
544	Stem Nut	A 439-D2	A 439-D2	A 439-D2	A 439-D2
900	Gland Bolt	A 307-B	A 307-B	A 182-F304	A 182-F304
902.1	Stud	A 193-B7	A 193-B16	A 193-B8	A 193-B8M
920.1	Hex. Nut	A 194-2H	A 194-4/7	A 194-8	A 194-8M
920.2	Hex. Nut		A 194-2H	A 194-8	A 194-8M
961	Handwheel	SG IRON / CS	SG IRON / CS	SG IRON / CS	SG IRON / CS

* Flat graphite with SS reinforcement for # 150 only. SS Spiral wound gasket for # 300 and # 600.