



**Design Specifications**

- General valve design : BS 1868
- 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	203.2	241.3	292.1	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4
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 <sub>(max)</sub>	160.0	200.0	230.0	250.0	310.0	380.0	420.0	500.0	555.0	610.0	655.0	740.0
ØD	205.0	210.0	235.0	305.0	350.0	460.0	474.0	536.0	605.0	680.0	750.0	870.0
E**	203.2	241.3	292.1	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4
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	266.7	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6
ØB	51.0	76.0	102.0	152.0	203.0	254.0	305.0	337.0	387.0
C <sub>(max)</sub>	155.0	210.0	240.0	280.0	330.0	385.0	445.0	560.0	640.0
ØD	205.0	202.0	245.0	305.0	370.0	435.0	474.0	580.0	650.0
E**	266.7	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6
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 <sub>(max)</sub>	190.0	230.0	260.0	300.0	395.0	460.0	560.0
ØD	187.0	224.0	280.0	320.0	410.0	480.0	525.0
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
160	Cover	A 216 - WCB	A 217 - WC6	A 351 - CF8	A 351 - CF8M
194	Hinge Bracket	A 216 - WCB / IS 2002 (A516-60)	A 217 - WC6/ IS 2002 (A516-60)	A 351 - CF8	A 351 - CF8M
350	Disc	A 105 + 13% Cr A 216 - WCB+13%Cr	A 217 - WC6 + ST6	A 351 - CF8	A 351 - CF8M
411	SW Gasket	SS 316 + GRPH	SS 316 + GRPH	SS 316 + GRPH	SS 316 + GRPH
515	Seat Ring	A 105 + ST6	A 182 - F11 + ST6	A 351 - CF8	A 351 - CF8M
563	Hinge Pin	A 276 - 410 (H)	A 276 - 410 (H)	A 276 - 304	A 276 - 316
570	Disc Carrier	A 216 - WCB	A 217 - WC6	A 351 - CF8	A 351 - CF8M
902	Stud	A 193 - B7	A 193 - B16	A 193 - B8	A 193 - B8M
920.1/2	Hex. Nut	A 194 - 2H	A 194 - 4/7	A 194 - B8	A 194 - 8M
920.3	Hex. Nut	SS (18-8) / A 194 - 2H	SS (18-8) / A194-4/7	SS (18-8)	A 194 - 8M