

STEEL GLOBE VALVES

PN -40

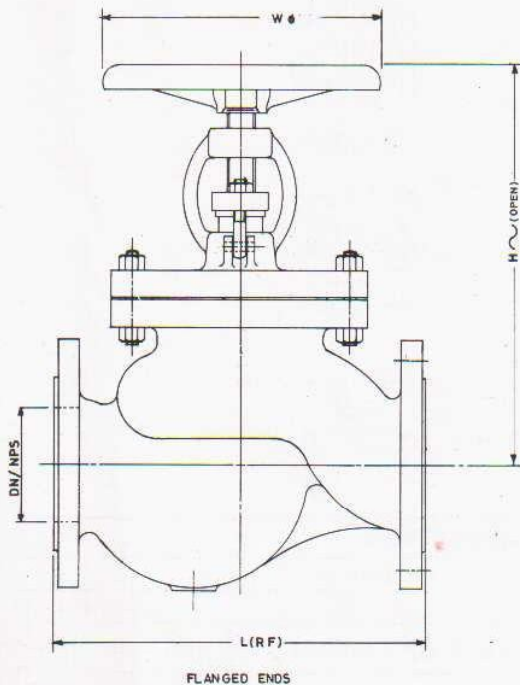


FIG. No. CCS : 010 / CSS : 007 / CSS : 020

SPECIFICATIONS

BOLTED BONNET, O/S AND YOKE TYPE, RISING STEM
FLANGES AS PER BS 4504 PN-40/DIN2545 PN-40.



CATALOGUE FIG. NOS.

ITEM	FIG. NO.	END DETAILS
CAST CARBON STEEL GLOBE VALVES-BS 5160 PN 40	CCS-010 RF	FLANGED ENDS TO DIN 2545 PN-40 RF
CAST STAINLESS STEEL (CF 8) GLOBE VALVES-BS 5160 PN 40	CSS007 RF	FLANGED ENDS TO DIN 2545 PN-40 RF
CAST STAINLESS STEEL (CF 8M) GLOBE VALVES-BS 5160 PN 40	CSS-020 RF	FLANGED ENDS TO DIN 2545 PN-40 RF

PRESSURE / TEMPERATURE RATINGS TO BS 5160

NOMINAL PRESSURE	MAX. PERMISSIBLE GAUGE WORKING PRESSURE °C								
	10 TO 120	200	250	300	350	400	425	450	475
PN-40	40 bar	40 bar	38 bar	33 bar	28 bar	23 bar	20 bar	20 bar	10 bar

DIMENSIONAL DATA

DN NPS	15 1/2	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80 3	100 4	125 5	150 6	200 8	
L (RF)	130	150	160	180	200	230	290	310	350	400	480	600	
H	190	196	225	236	291	314	325	380	435	468	555	645	
W	125	125	160	160	200	200	250	250	300	300	300	350	
ITEM CODE NOS.	A 216 WCB	CCS10AD	CCS10AF	CCS10AG	CCS10AH	CCS10AI	CCS10AJ	CCS10AK	CCS10AL	CCS10AN	CCS10AO	CCS10AP	CCS10AR
	A 351 CF8	CSS007AD	CSS007AF	CSS007AG	CSS007AH	CSS007AI	CSS007AJ	CSS007AK	CSS007AL	CSS007AN	CSS007AO	CSS007AP	CSS007AR
	A 351 CF8M	CSS020AD	CSS020AF	CSS020AG	CSS020AH	CSS020AI	CSS020AJ	CSS020AK	CSS020AL	CSS020AN	CSS020AO	CSS020AP	CSS020AR

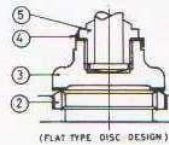
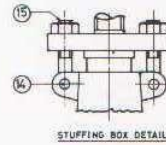
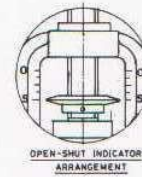
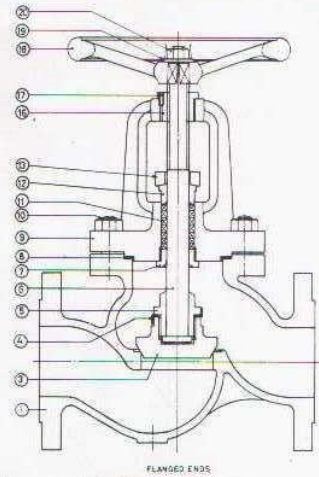
TEST PRESSURES

SHELL TEST (HYDROSTATIC)	SEAT TEST		BACK SEAT TEST
	HYDROSTATIC	PNEUMATIC	HYDROSTATIC
60 bar	40 bar	6.9 bar	40 bar

NOTE :- The above data is subject to change without notice due to our continuing programme of product improvements.

CAT. NO : CCS : 10 / CSS : 7 - 20:96

LEADER VALVES LTD, IND. AREA
JALANDHAR-144 004



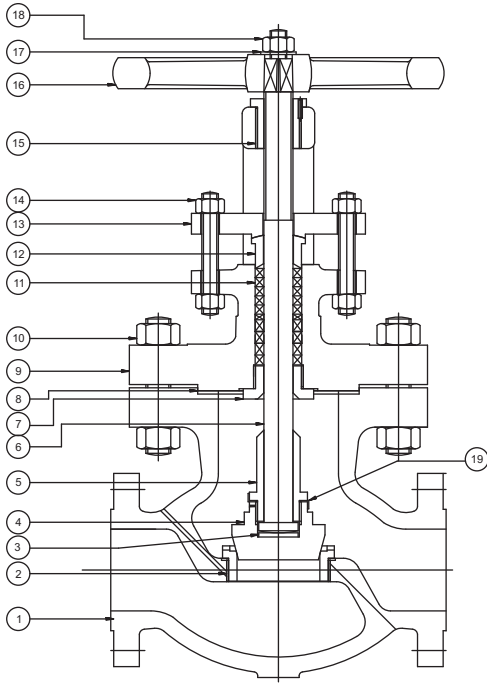
NOTES :- (1) Material Combination Shall be as per Purchase order.
 (2) 13% Cr. Trim Valves shall have hardness differential of 50 BHN at seating Portions subject to a minimum hardness of 250 BHN.

STANDARD MATERIAL COMBINATION

S.NO.	QTY.	PART DESCRIPTION	MATERIALS		
			WCB / F 6 a	CF8 / F 304	CF8M / F 316
1.	1	BODY	C.S. TO ASTM A216 WCB	S.S TO ASTM A351CF8	S.S TO ASTM A351CF8M
2.	1	BODY SEAT (INTEGRAL OR SEPARATE)	SS TO ASTM A182 F6a/ASTM A217 CA15 OR THEIR EQUIVALENT. ASTM A105 WITH 13% Cr. WELD DEPOSIT OR DIRECT DEPOSITION OF HARD FACING.	SS TO ASTM A351CF8/ASTM A182 F304 OR THEIR EQUIVALENT OR DIRECT DEPOSITION OF HARD FACING	SS TO ASTM A351CF8M / ASTM A182 F316 OR THEIR EQUIVALENT OR DIRECT DEPOSITION OF HARD FACING
3.	1	DISC	C.S. TO ASTM A216WCB WITH 13% Cr. WELD DEPOSIT OR S.S. TO ASTM A182 F6a/ASTM A217 CA15 OR THEIR EQUIVALENT.	S.S TO ASTM A182 F304 / ASTM A351 CF8 OR THEIR EQUIVALENT.	S.S TO ASTM A182 F316 / ASTM A351 CF8M. OR THEIR EQUIVALENT
4.	1	LOCKING WASHER	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
5.	1	DISC NUT	S.S. TO ASTM A182F6a/ASTM A276-410 OR THEIR EQUIVALENT	S.S. TO ASTM A182F304/ASTM A276-304 OR THEIR EQUIVALENT	S.S TO ASTM A182F316/ASTM A276-316 OR THEIR EQUIVALENT
6.	1	STEM	S.S. TO ASTM A182F6a/ASTM A276-410 OR THEIR EQUIVALENT	S.S TO ASTM A182F304/ASTM A276-304 OR THEIR EQUIVALENT	S.S. TO ASTM A182F316/ASTM A276-316 OR THEIR EQUIVALENT
7.	1	BACK SEAT BUSHING	S.S. TO ASTM A182F6a/ASTM A276-410 OR THEIR EQUIVALENT	S.S. TO ASTM A182F304/ASTM A276-304 OR THEIR EQUIVALENT	S.S. TO ASTM A182F316/ASTM A276-316 OR THEIR EQUIVALENT
8.	1	GASKET	SPIRAL WOUND STAINLESS STEEL (TYPE 304) WITH ASBESTOS FILLER	SPIRAL WOUND STAINLESS STEEL (TYPE 304) WITH PTFE FILLER	SPIRAL WOUND STAINLESS STEEL (TYPE 304) WITH PTFE FILLER
9.	1	BONNET	C.S. TO ASTM A216WCB	S.S. TO ASTM A351CF8	S.S. TO ASTM A351CF8M
10.	—	STUD BOLTS & NUTS	ASTMA 193 B7 ASTMA 194 2H	ASTMA 193 Gr. B8 ASTMA 194 Gr. 8	ASTMA 193 Gr. B8 ASTMA 194 Gr. 8
11.	1	PACKING	BRAIDED ASBESTOS CONTAINING CORROSION INHIBITOR SUITABLE FOR MAX DESIGN TEMP. 538°C	PACKING SUITABLE FOR THE DUTY	PACKING SUITABLE FOR THE DUTY
12.	1	GLAND FOLLOWER	S.S. TO ASTM A182F6a/ ASTM A276-410 OR THEIR EQUIVALENT	S.S. TO ASTM A182F304/ASTM A276-304 OR THEIR EQUIVALENT	S.S. TO ASTM A182F316/ASTM A276-316 OR THEIR EQUIVALENT
13.	1	GLAND FLANGE	C.S. TO ASTM A216WCB	S.S. TO ASTM A351CF8	S.S TO ASTM A351CF8M
14.	2	PIN FOR EYE BOLTS	S.S. TO ASTM A182F6a OR ITS EQUIVALENT	S.S TO ASTM A182 F6a OR ITS EQUIVALENT	S.S TO ASTM A182 F 6a OR ITS EQUIVALENT
15.	2	GLAND EYE BOLTS & NUTS	CARBON STEEL — Min TENSILE STRENGTH 392N/mm ²	CARBON STEEL — Min TENSILE STRENGTH 392N/mm ²	CARBON STEEL — Min TENSILE STRENGTH 392N/mm ²
16.	1	YOKE BUSH	NON RUSTING METAL HAVING MELTING TEMPERATURE ABOVE 955°C		
17.	1	LOCKING SCREW	STEEL	STEEL	STEEL
18.	1	HAND WHEEL	STEEL / MALLEABLE IRON	STEEL / MALLEABLE IRON	STEEL / MALLEABLE IRON
19.	1	WASHER	STEEL	STEEL	STEEL
20.	1	NUT FOR HAND WHEEL	STEEL	STEEL	STEEL

NOTE :- The above data is subject to change without notice due to our continuing programme of product improvements.

LEADER VALVES LTD, IND. AREA
 JALANDHAR-144 004



Outside Screw & Yoke Type Rising Stem
Sizes 1 1/2" to 16" Class-150
Sizes 1 1/2" to 12" Class-300

TRIM MATERIAL COMBINATION (ON REQUEST)					
Trim No.	Seat ring Face Part No.2	Disc Seat Face Part No.4	Stem Part No.6	Backseat Bush Part No.7	Lantern Ring Part No.20
1	F6a/13%Cr.	F6a/13%Cr.	F6a/AISI410	F6a/AISI410	F6a/AISI410
2	F304	F304	F304/AISI304	F304/AISI304	F304/AISI304
5	STELLITE	STELLITE	F6a/AISI410	F6a/AISI410	F6a/AISI410
8	STELLITE	F6a/13%Cr.	F6a/AISI410	F6a/AISI410	F6a/AISI410
9	MONEL	MONEL	MONEL	MONEL	MONEL
10	F316	F316	F316/AIS1316	F316/AISI316	F316/AISI316
13	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20

OTHER TRIM COMBINATION OF BS 1873 CAN BE PROVIDED ON REQUEST. LANTERN RING CAN BE PROVIDED IF REQUIRED, EXCEPT FOR CL-150.

STANDARD MATERIAL COMBINATION

P. No	PART NAME	Carbon steel to ASTM		Alloy steel to ASTM					Stainless steel to ASTM			
		Type WCB	Type LCB	Type WC1	Type WC6	Type WC9	Type C5	Type C12	Type CF8	Type CF8M	Type CF3	Type CF3M
1	BODY	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A217 C12	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3	THRUST PLATE	HARDENED STEEL										
5	DISC NUT	A182 F6a	F304	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A276 F304	A182 F316	A182 304L	A182 316L
8	GASKET	Spiral wound Stainless steel Graphoil filled										
9	BONNET	A216 WCB	A352 LCB	A217 Wc1	A217 WC6	A217 WC9	A217 C5	A217 C12	A315 CF8	A351 CF8M	A351 CF3	A351 CF3M
10	BODY BONNET STUDS & NUTS	A193 B7 A194 2H	A320 L7 A194 4	A193 B7 A194 2H	A193 B16 A194 4	A193 B16 A194 4	A193 B16 A194 4	A193 B16 A194 4	A193 B8 A194 8	A193 B8 A194 8M	A193 B8 A194 8	A193 B8 A194 8M
11	PACKING	To Suit service conditions										
12	GLAND	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A276 F304	A182 F316	A182 304L	A182 316L
13	GLAND FLANGE	A105	A350 LF2	A105	A105	A105	A105	A105	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
14	GLAND STUDS & NUTS	A193 B7 A194 2H	A320 L7 A194 Gr.4	A193 B7 A194 2H	A193 B16 A194 Gr.4	A193 B16 A194 Gr.4	A193 B16 A194 Gr.4	A193 B16 A194 Gr.4	A193 B8 A194Gr.8	A193 B8 A194 Gr.8	A193 B8 A194 Gr.8	A193 B8 A194 Gr.8
15	YOKE BUSH	Al. Bronze BS 1982 CC333G or Ni-resist to A4390D2										
16	HANDWHEEL	DI A536 80-55-06 OR MI 1S2108 BM290/ASTMA338										
17	WASHER	STEEL										
18	HANDWHEEL RETAINING NUT	STEEL										
19	LOCKING WASHER	STEEL										

TEST PRESSURE

CLASS	SHELL TEST (HYDROSTATIC)		SEAT TEST			
			HYDROSTATIC		PNEUMATIC	
	150	30 Bar g	435 Psi g	22 Bar g	319 Psi g	6.9 bar
300	76 Bar g	1102 Psi g	55 Bar g	780 Psi g	6.9 bar	100 Psi g

