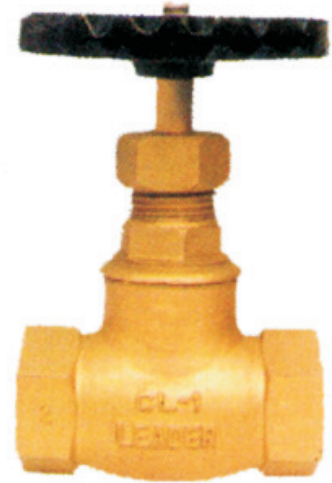
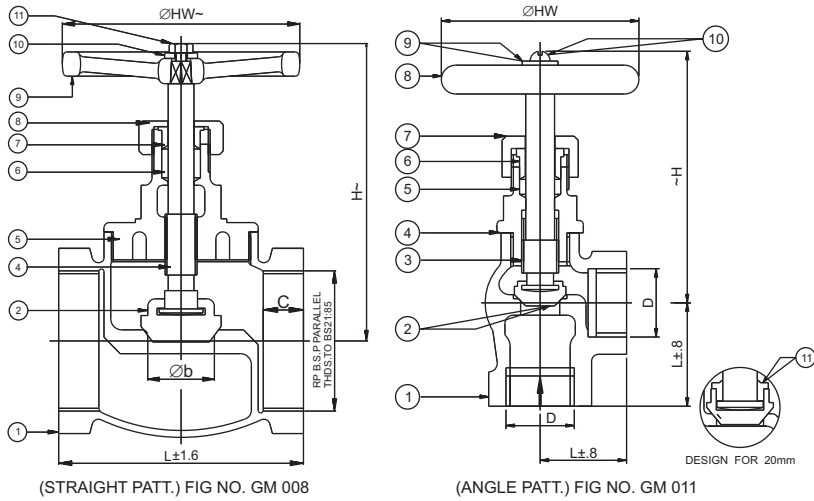


SPECIFICATIONS

SCREWED IN BONNET, INSIDE SCREW, RISING STEM, INTEGRAL SEAT, RENEWABLE DISC, SCREWED FEMALE BSP, PARALLEL THREADS TO BS21. OTHER FORMS OF THREADS CAN BE PROVIDED ON REQUEST.

PRESSURE-TEMPERATURE RATINGS



STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	G.M	EN 1982 Gr. CC491K
2	1	DISC	G.M	EN 1982 Gr. CC491K
3	1	STEM NUT	G.M / BRASS	EN 1982 Gr. CC491K/DIN EN 12165:98 CW617N
4	1	STEM	BRASS ROD	DIN EN 12165:98 CW721R
5	1	BONNET	G.M. / BRASS	EN 1982 Gr. CC491K/ DIN EN 12165:98 CW617N
6	-	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
7	1	GLAND	BRASS	DIN EN 12165:98 CW617N
8	1	GLAND NUT	G.M. / BRASS	EN 1982 Gr. CC491K/DIN EN 12165:98 CW617N
9	1	HAND WHEEL	C.I./ STEEL	EN 1561 Gr. GJL200/ ANY GRADE
10	1	WASHER	CARBON STEEL	ANY GRADE
11	1	SET SCREW	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

NPS		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
L		40	40	45	55	67	80	89	110	134	159	191	235	267
L1		19	21	24	31	35	43	48	58	70	81	112	-	-
Øb		9.5	9.5	11.0	16.0	22.5	29.0	35.0	45.0	63.5	76.2	96	122	148
C		8.0	8.0	9.5	11.5	13.0	14.0	16.0	18.5	22.0	27.0	31.5	34	35
H		55	55	61	73	84	108	112	120	150	165	235	245	180
H1		60	70	80	85	90	95	110	130	175	180	-	-	-
HW		48	48	53	53	60	80	80	92	130	130	171	220	254
ITEM CODE NOS.	Aprox. Wt. ▲	0.13	0.130	0.185	0.350	0.510	0.665	1.210	1.900	3.860	5.450	12.280	23.950	32.400
	PN 16	GM 008 B	GM 008 C	GM 008 D	GM 008 F	GM 008 G	GM 008 H	GM 008 I	GM 008 J	GM 008 K	GM 008 L	GM 008 N	GM 008 O	GM 008 P
	Aprox. Wt. ▲	0.140	0.180	0.250	0.385	0.650	1.070	1.450	2.370	3.838	5.554			
	PN 16 (ANGLE PATT)	GM 011 B	GM 011 C	GM 011 D	GM 011 F	GM 011 G	GM 011 H	GM 011 I	GM 011 J	GM 011 K	GM 011 L			

TEST PRESSURES

STANDARD NO.	SHELL TEST (HYDROSTATIC)	SEAT TEST (HYDROSTATIC)
BS 12266 PART 1	24 bar	17.6 bar

NOTE: The above data is subject to change without notice.

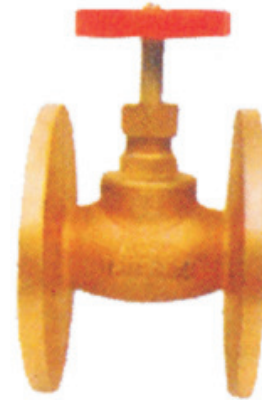
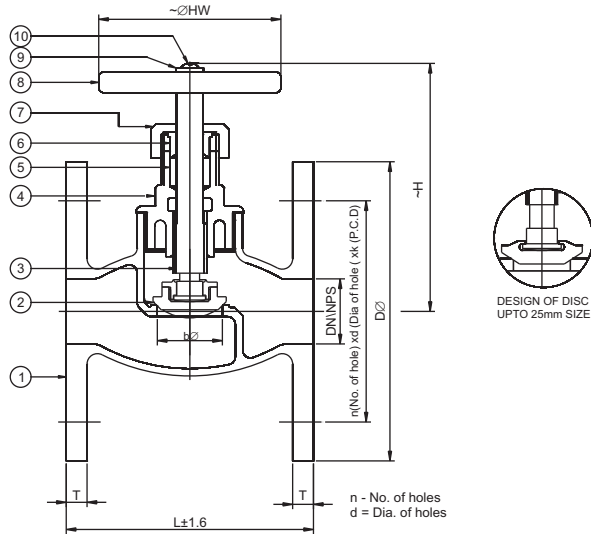
(▲ WEIGHT GIVEN IN KGS)

Cu-ALLOY GLOBE VALVES

PN 16, CLASS 100

SPECIFICATIONS

SCREWED IN BONNET, INSIDE SCREW, RISING STEM, INTEGRAL SEAT, RENEWABLE DISC, FLANGED AS PER BS 4504 PN 16/BS 10 TABLE E.



STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	G.M	BSEN 1982:99 Gr. CC491K
2	1	DISC	G.M	BSEN 1982:99 Gr. CC491K
3	1	STEM NUT	G.M / BRASS	DIN EN 12165: CW 617N
4	1	STEM	BRASS ROD	EN 12165 CW 721R
5	1	BONNET	G.M. / BRASS	DIN EN 12165 CW 617N
6	-	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
7	1	GLAND	BRASS	DIN EN 12165 CW 617N
8	1	GLAND NUT	G.M. / BRASS	DIN EN 12165 CW 617N
9	1	HAND WHEEL	C.I./ STEEL (PVC COATED)	BSEN 1561 Gr. 200/ANY GRADE
10	1	WASHER	CARBON STEEL	ANY GRADE
11	1	SET SCREW	CARBON STEEL	ANY GRADE

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
L		50	64	83	83	83	108	142	175	207	249	281
Øb		11	16	22.5	29	35	45	63.5	76.2	96	122	148
H		64	78	84	102	105	120	150	165	235	245	280
HW		60	60	62	70	90	92	130	130	171	220	254
D		95.3	101.6	114.3	120.7	133.4	152.4	165.1	182.4	215.9	254	279
T		6.4	6.4	7.9	7.9	9.5	9.5	11.1	12.7	15.9	17.5	17.5
ITEM CODE NOS.	Aprox. Wt. ^	1.290	1.450	2.290	3.290	3.610	5.760	10.600	11.650	19.880	29.200	43.768
	PN 16	GM 009 D	GM 009 F	GM 009 G	GM 009 H	GM 009 I	GM 009 J	GM 009 K	GM 009 L	GM 009 N	GM 009 O	GM 009 P
	Aprox. Wt. ^	1.290	1.450	2.290	3.290	3.610	5.760	10.600	11.650	19.880	29.200	43.768
	CLASS 100	GM 010 D	GM 010 F	GM 010 G	GM 010 H	GM 010 I	GM 010 J	GM 010 K	GM 010 L	GM 010 N	GM 010 O	GM 010 P

NOMINAL PRESSURE ACCORDING TO PN OR CLASS DESIGNATION

END DETAILS

TEST PRESSURES

SHELL TEST (HYDROSTATIC)

SEAT TEST (HYDROSTATIC)

STANDARD NO.

PN 16

FLANGED ENDS AS PER BS 4504 PN 25

24 bar

17.6 bar

BS 12266 PART-1

CLASS 100

FLANGED ENDS AS PER BS 10 TABLE E

300 Psig

220 Psig

NOTE: The above data is subject to change without notice.

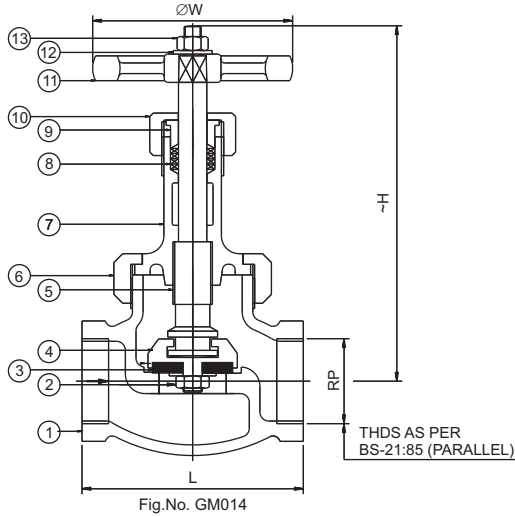
(^WEIGHT GIVEN IN KGS)

SPECIFICATIONS

UNION BONNET, INSIDE SCREW, RISING STEM, INTEGRAL SEAT, RESILIENT SEATED, SCREWED FEMALE BSP PARALLEL THREADS TO Bs21. OTHER FORMS OF THREADS BE PROVIDED ON REQUEST.

PRESSURE-TEMPERATURE RATINGS

20 BAR FROM--10°C TO 100°C



STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1.	1	BODY	G.M.	EN 1982 Gr. CC491K
2.	2	RESILIENT SEAT (RENEWABLE)	RUBBER	TO SUIT SERVICE CONDITIONS
3.	1	DISC RETAINING NUT	G.M.	EN 1982 Gr. CC491K
4.	1	DISC HOLDER	G.M	EN 1982 Gr. CC491K
5.	-	STEM	BRASS/ 13% Cr. STEEL	DIN EN 12165:98 CW721R/ ASTM A182 F6a or its equivalent
6.	1	BONNET	G.M	EN 1982 Gr. CC491K
7.	1	UNION NUT	G.M.	EN 1982 Gr. CC491K
8.	1	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
9.	1	GLAND	G.M./BRASS	EN 1982 Gr.CC491K/DIN EN 12165:98 CW721R
10.	1	GLAND NUT	G.M	EN 1982 Gr. CC491K
11.	1	HAND WHEEL	C.I./STEEL	EN 1561 Gr.GJL200/ ANY GRADE
12.	1	WASHER	CARBON STEEL	ANY GRADE
13.	1	HAND WHEEL NUT	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

NPS	1/4	3/8	1/2	3/4	1	1 ¼	1 ½	2	2 ½	3	4
L	60	60	70	85	100	108	125	148	168	203	248
Øb	9.5	11	15	20	25	32	38	50	63.5	76.2	100
H	90	90	108	115	128	180	207	243	245	261	331
HW	60	60	63	63	78	100	113	125	140	157	184
Aprox. Wt. ^	0.430	0.445	0.660	0.704	1.525	2.116	4.020	6.000	7.810	11.470	21.595
ITEM CODE NOS.	GM 014 B	GM 014 C	GM 014 D	GM 014 F	GM 014 G	GM 014 H	GM 014 I	GM 014 J	GM 014 K	GM 014 L	GM 014 N

TEST PRESSURES

STANDARD NO.	SHELL TEST	SEAT TEST	
		HYDROSTATIC	PNEUMATIC
BS 12266 PART-1	30 bar	22 bar	6.9 bar

NOTE: The above data is subject to change without notice.

(^ WEIGHT GIVEN IN KGS)

Cu-ALLOY UNION BONNET GLOBE VALVES

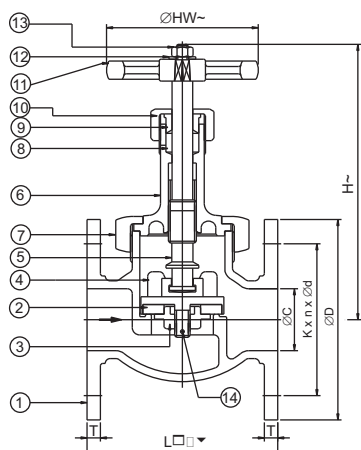
PN 20, CLASS 150

SPECIFICATIONS

UNION BONNET, INSIDE SCREW, RISING STEM, INTEGRAL SEAT, RESILIENT SEATED, FLANGED ENDS AS PER BS 4504 PN25 / BS 10 TABLE 'F'-AS APPLICABLE

PRESSURE-TEMPERATURE RATINGS

PN20: 20bar from-10°C TO 100°C
CLASS 150: 280 psi from-10°C TO 100°C



STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1.	1	BODY	G.M	BS EN 1982 : 99 Gr. CC491K
2.	1	RESILIENT SEAT(RENEWABLE)	RUBBER	TO SUIT SERVICE CONDITIONS
3.	1	DISC RETAINING NUT	G.M / BRASS	BSEN 1982:99 Gr. CC 491K/ DIN EN 12165 CW 721R
4.	1	DISC HOLDER	G.M	BSEN 1982:99 Gr. CC491K
5.	1	STEM	H.T. BRASS	DIN EN 12165 CW721R
6.	1	BONNET	G.M	BSEN 1982:99 Gr. CC491K
7.	1	UNION NUT	G.M	BSEN 1982:99 Gr. CC491K
8.	1	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
9.	1	GLAND	G.M / BRASS	BSEN 1982:99 Gr. CC491K/DIN EN 12165 CW721R
10.	1	GLAND NUT	G.M	BSEN 1982:99 Gr. CC491K
11.	1	HAND WHEEL	C.I .	BSEN 1561:97 Gr. 200
12.	1	WASHER	CARBON STEEL	ANY GRADE
13.	1	HAND WHEEL NUIT	CARBON STEEL	ANY GRADE
14.	1	PIN	Ph. BRONZE	DIN EN 12163 CW 451 K

DIMENSIONAL DATA

DN		15	20	25	32	40	50	65	80	100
L		80	95	115	118	138	157	188	213	240
H		108	115	128	180	207	243	245	261	331
ØHW		63	63	78	100	113	125	140	157	184
ØD		95	105	115	140	150	165	185	200	235
ITEM CODE NOS.	PN 20	GM 015D	GM 015F	GM 015G	GM 015H	GM 015I	GM 015J	GM 015K	GM 015L	GM 015N
	Aprox. Wt. ^									
	CLASS 150	GM 016D	GM 016F	GM 016G	GM 016H	GM 016I	GM 016J	GM 016K	GM 016L	GM 016N
	Aprox. Wt. ^									

NOMINAL PRESSURE ACC.TO CLASS DESIGNATION	END DETAILS	TEST PRESSURES				STANDARD NO
		SHELL TEST (HYDROSTATIC)	SEAT (HYDROSTATIC)	TEST (PNEUMATIC)		
PN 20	FLANGED ENDS AS PER BS 4504 PN 25	30 bar	22 bar	6.9 bar	BS 12266 PART-1	
CLASS 150	FLANGED ENDS AS PER BS 10 TABLE F	30 psig	22 psig	100 psig		

NOTE: The above data is subject to change without notice.

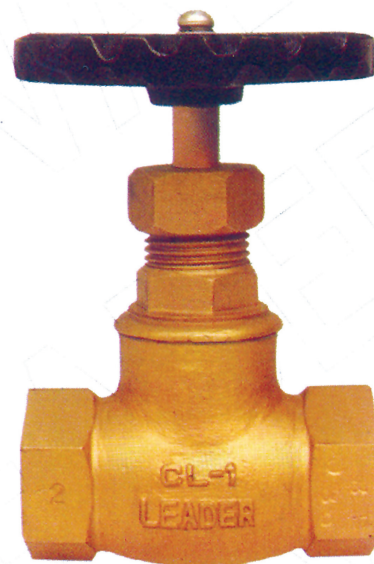
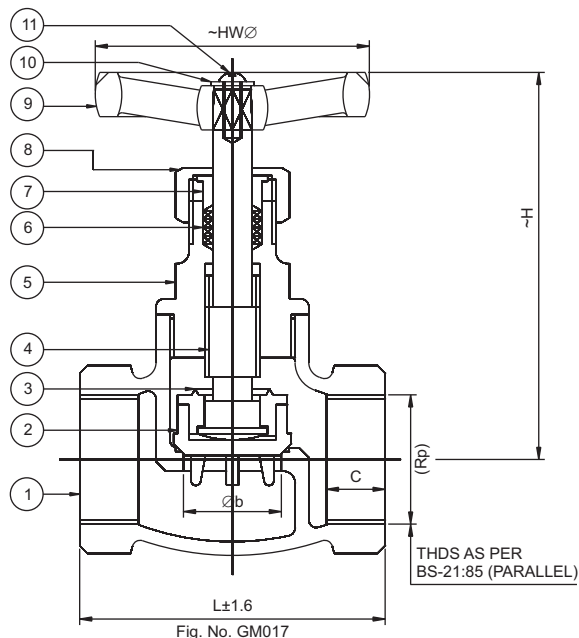
(^WEIGHT GIVEN IN KGS)

SPECIFICATIONS

UNION BONNET, INSIDE SCREW, RISING STEM, INTEGRAL SEAT, RESILIENT SEATED, RENEWABLE DISC, SCREWED FEMALE BSP PARALLEL THREADS TO BS21, OTHER FORMS OF THREADS CAN BE PROVIDED ON REQUEST.

PRESSURE-TEMPERATURE RATINGS

PN25 : 25bar from -10°C To 100°C
 PN25 : 10.5 bar at 260°C



STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	G.M.	EN 1982 Gr. CC491K
2	1	DISC	G.M.	EN 1982 Gr. CC491K
3	1	STEM NUT	G.M./BRASS	EN 1982 Gr. CC491K/DIN EN 12165:98 CW617N
4	1	STEM	BRASS ROD	DIN EN 12165:98 CW721R
5	1	BONNET	G.M./BRASS	EN 1982 Gr. CC491K/DIN EN 12165:98 CW617N
6	1	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
7	1	GLAND	BRASS	DIN EN 12165:98 CW617N
8	1	GLAND NUT	G.M./BRASS	EN 1982 Gr. CC491K/DIN EN 12165:98 CW617N
9	1	HAND WHEEL	C.I./ STEEL	EN 1561 Gr. GJL200
10	1	WASHER	CARBON STEEL	ANY GRADE
11	1	SET SCREW	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

NPS	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	40	35	57	68	78	95	13	125	157	178	206
Øb	9.5	11	12.7	20	25	32	40	50	63.5	76.2	100
C	8	9.5	13	14	15	19	19	19.5	22	27	32
H	55	61	68	75	100	109	135	140	190	220	235
HW	48	48	60	60	80	90	90	130	135	165	195
Aprox. Wt. ^	0.150	0.232	0.305	0.500	0.883	1.450	1.880	2.945	6.740	9.350	14.500
ITEM CODE NOS.	GM017B	GM017 C	GM017 D	GM017 F	GM017 G	GM017 H	GM017 I	GM017 J	GM017 K	GM017 L	GM017 N

TEST PRESSURES

STANDARD NO.	SHELL TEST (HYDROSTATIC)	SEAT TEST (HYDROSTATIC)
BS 12266 PART- 1	37.5 bar	27.5 bar

NOTE: The above data is subject to change without notice.

(^WEIGHT GIVEN IN KGS)

Cu-ALLOY UNION BONNET GLOBE VALVES - BS 5154

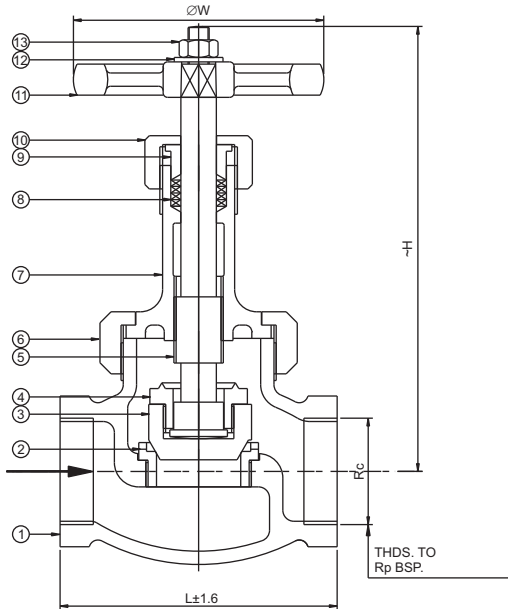
PN 25

SPECIFICATIONS

UNION BONNET, INSIDE SCREW, RISING STEM RENEWABLE SEAT & DISC, SCREWED FEMALE BSP PARALLEL THREADS TO Bs21. OTHER FORMS OF THREADS CAN BE PROVIDE ON REQUEST.

PRESSURE-TEMPERATURE RATINGS

PN 25 : 25 bar FROM - 10°C TO 100°C
10.5 bar at 260°C



STANDARD MATERIAL COMBINATION

P.NO.	Qty.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	G.M.	EN 1982 Gr. CC491K
2	1	DISC	13% Cr. STEEL	ASTM A182 F6a or its equivalent
3	1	BODY SEAT RING	13% Cr. STEEL	ASTM A182 F6a or its equivalent
4	1	STEM NUT	G.M.	EN 1982 Gr. CC491K
5	1	STEM	13% Cr. STEEL	ASTM A 182 F6a / ASTM A276-410 or their equivalent
6	1	BONNET	G.M	EN 1982 Gr. CC491K
7	1	UNION NUT	G.M.	EN 1982 Gr. CC491K
8	1	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
9	1	GLAND	13% Cr. STEEL	ASTM A 182 F6a / ASTM A276-410 or their equivalent
10	1	GLAND NUT	G.M.	EN 1982 Gr. CC491K
11	1	HAND WHEEL	C.I. / STEEL	EN 1561 Gr. GJL200 / ANY GRADE
12	1	WASHER	CARBON STEEL	ANY GRADE
13	1	HANDE STEEL	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

NPS		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L		60	60	70	85	100	108	125	148	168	203	248
H		90	90	108	115	128	180	205	243	245	261	331
$\varnothing W$		60	60	63	63	78	100	113	125	140	157	184
Aprox. Wt. Δ	(PN 25/A)	----	----	0.690	1.000	1.500	2.800	3.770	5.850	8.500	12.500	22.420
ITEM CODE NOS.	PN 25/A	GM 020 B	GM 020 C	GM 020 D	GM 020 F	GM 020 G	GM 020 H	GM 020 I	GM 020 J	GM 020 K	GM 020 L	GM 020 N

TEST PRESSURES

STANDARD NO.	SHELL TEST (HYDROSTATIC)	SEAT TEST (HYDROSTATIC)
BS 12266 PART- 1	37.5 bar	27.5 bar

NOTE: The above data is subject to change without notice.

(Δ WEIGHT GIVEN IN KGS)

Cu-ALLOY UNION BONNET GLOBE VALVES

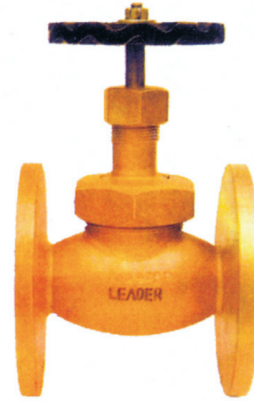
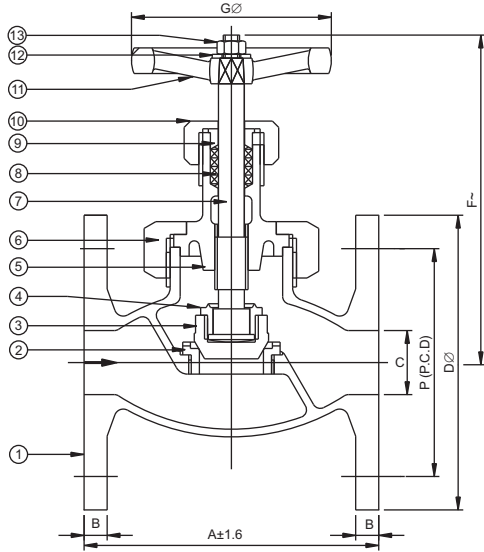
PN 25 CLASS 150

SPECIFICATIONS

UNION BONNET, INSIDE SCREW, RISING STEM RENEWABLE SEAT & DISC, FLANGED ENDS AS PER Bs4504 PN 25/ BS 10 TABLE F.

PRESSURE-TEMPERATURE RATINGS

PN 25 : 25 bar FROM - 10°C TO 100°C
10.5 bar at 260°C



STANDARD MATERIAL COMBINATION

P.NO.	Qty.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	G.M.	EN 1982 Gr. CC491K
2	1	DISC	13% Cr. STEEL	ASTM A182 F6a or its equivalent
3	1	BODY SEAT RING	13% Cr. STEEL	ASTM A182 F6a or its equivalent
4	1	STEM NUT	G.M.	EN 1982 Gr. CC491K
5	1	STEM	13% Cr. STEEL	ASTM A 182 F6a / ASTM A276-410 or their equivalent
6	1	BONNET	G.M	EN 1982 Gr. CC491K
7	1	UNION NUT	G.M.	EN 1982 Gr. CC491K
8	1	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
9	1	GLAND	13% Cr. STEEL	ASTM A 182 F6a / ASTM A276-410 or their equivalent
10	1	GLAND NUT	G.M.	EN 1982 Gr. CC491K
11	1	HAND WHEEL	C.I. / STEEL	EN 1561 Gr. GJL200 / ANY GRADE
12	1	WASHER	CARBON STEEL	ANY GRADE
13	1	HANDE STEEL	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

DN NPS	15 ½	20 ¾	25 1	32 1 ¼	40 1 ½	50 2	65 2 ½	80 3	100 4	
A	80	95	115	118	138	157	188	213	240	
B	8	8	9	9	11	11	13	14	17	
C∅	13.0	19.0	25.0	32.0	38.0	51.0	63.5	76.0	102.0	
D∅	95	105	115	140	150	165	185	200	235	
ITEM CODE	PN 25/A	GM 021 D	GM 021 F	GM 021 G	GM 021 H	GM 021 I	GM 021 J	GM 021 K	GM 021 L	GM 021 N
Aprox. Wt. (PN 25/A)										
ITEM CODE	CLASS 150/A	GM 022 D	GM 022 F	GM 022 G	GM 022 H	GM 022 I	GM 022 J	GM 022 K	GM 022 L	GM 022 N
Aprox. Wt. (CL-150/A)	2.060	2.550	4.155	4.930	7.200	10.470	15.500	22.000	34.000	

NOMINAL PRESSURE ACCORDING TO CLASS DESIGNATION	END DETAILS	TEST PRESSURES		
		SHELL TEST (HYDROSTATIC)	SEAT TEST (HYDROSTATIC)	STANDARD NO.
PN 25	FLANGED ENDS AS PER BS 4504 PN 25	37.5 bar	27.5 bar	BS 12266 PART-1
CLASS 150	FLANGED ENDS AS PER BS 10 TABLE F	30 bar	22 bar	

NOTE: The above data is subject to change without notice.

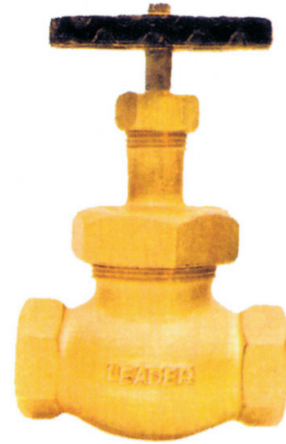
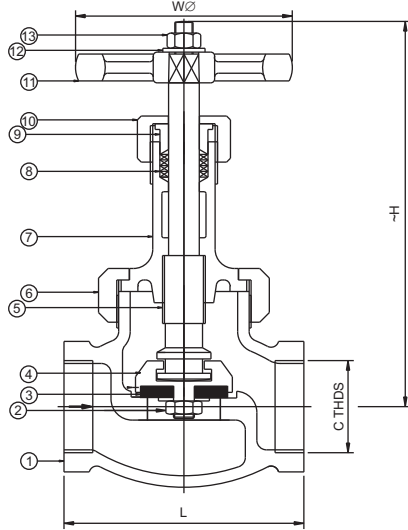
(∧WEIGHT GIVEN IN KGS)

SPECIFICATION

UNION BONNET, INSIDE SCREW, RISING STEM, TEFLON DISC, INTEGRAL SEAT & RENEWABLE DISC, SCREWED FEMALE BSP PARALLEL THREADS TO Bs21. OTHER FORMS OF THREADS CAN BE PROVIDED ON REQUEST.

PRESSURE-TEMPERATURE RATING

PN 25 : 25bar from -10°C To 100°C
10.5 bar at 186°C



STANDARD MATERIAL COMBINATION

P. NO.	QTY	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1.	BODY	G.M.	EN 1982 Gr CC491K
2.	1.	DISC	TEFLON	-
3.	1.	DISC HOLDER	G.M.	EN 1982 Gr CC491K
4.	1.	DISC RETAINING NUT	BRASS	DIN EN 12165:98 CW617N
5.	1.	STEM	BRASS	DIN EN 12165:98 CW617N
6.	1.	BONNET	G.M.	EN 1982 Gr. CC491K
7.	1.	UNION NUT	G.M	EN 1982 Gr. CC491K
8.	-	GLAND PACKING	TO SUIT SERVICE CONDITION	
9.	1	GLAND	BRASS	DIN EN 12165:98 CW617N
10.	1	GLAND NUT	G.M.	EN 1982 Gr. CC491K
11.	1	HAND WHEEL	C.I. / STEEL	EN 1561 Gr. GJL200/ANY GRADE
12.	1	WASHER	CARBON STEEL	ANY GRADE
13.	1	HAND WHEEL NUT	CARBON STEEL	ANY GRADE

DIMENSIONAL DATA

NPS	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
L	60	60	70	85	100	108	125	148	168	203	248	
WØ	60	60	63	63	78	100	113	125	140	157	184	
C	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	
H	90	90	108	115	128	180	205	243	245	261	331	
Aprox. Wt. ^ (PN215/B)	0.42	0.436	0.71	1.020	1.565	2.115	4.020	6.000	7.20	10.970		
ITEM CODE NOS.	PN25/B	GM 023 B	GM 023 C	GM 023 D	GM 023 F	GM 023 G	GM 023 H	GM 023 I	GM 023 J	GM 023 K	GM 023 L	GM 023 N

TEST PRESSURE

STANDARD NO.	SHELL TEST (HYDROSTATIC)	SEAT TEST (HYDROSTATIC)
BS 12266 PART-1	37.5 bar	27.5 bar

NOTE: The above data is subject to change without notice.

(^ WEIGHT GIVEN IN KGS)