



### DIMENSIONAL DATA

NOMINAL DIA. (DN)	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
FACE TO FACE "L"	203 <sup>±2</sup>	216 <sup>±2</sup>	241 <sup>±2</sup>	292 <sup>±2</sup>	330 <sup>±2</sup>	356 <sup>±2</sup>	495 <sup>±2</sup>	622 <sup>±2</sup>	698 <sup>±3</sup>	787 <sup>±3</sup>	914 <sup>±3</sup>	978 <sup>±3</sup>	978 <sup>±3</sup>	1295 <sup>±4</sup>

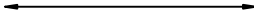
FLANGES AS PER IS:1538/ TABLE E/ TABLE D/ AS CLASS 150/ DESIRED BY CUSTOMER

ALL DIMENSIONS ARE IN MILLIMETERS

### TEST PRESSURE

PN RATING	TEST FOR BODY/SEAT	TEST Pr. MPa (Gauge)	TEST DURATION min.
PN 10	BODY	1.5 (Hyd.)	5
	SEAT	1.0 (Hyd.)	2
PN 16	BODY	2.4 (Hyd.)	5
	SEAT	1.6 (Hyd.)	2

NOTE : THE ABOVE DATA IS SUBJECT TO CHANGE WITHOUT NOTICE DUE TO OUR CONTINUING PROGRAMME OF PRODUCT IMPROVEMENT.



### DIMENSIONAL DATA

DN	50	65	80	100	125	150	200	250	300
NPS	2"	2½"	3"	4"	5"	6"	8"	10"	12"
L	168 ±2	191 ±2	204 ±2	255 ±2	268 ±3	284 ±3	333 ±3	535 ±3	575 ±3
H (APPROX)	238	253	275	310	400	410	465	568	650

All dimensions are in millimeters

### TEST PRESSURE

PN RATING	TEST FOR BODY	TEST Pr. MPa (Gauge)	TEST DURATION min.
PN 10	BODY	1.5 (Hyd.)	5
PN 16	BODY	2.4 (Hyd.)	5

NOTE : THE ABOVE DATA IS SUBJECT TO CHANGE WITHOUT NOTICE DUE TO OUR CONTINUING PROGRAMME IMPROVEMENT



### DIMENSIONAL DATA FLANGED

DN	40	50	65	80	100	125	150	200	250	300
NPS	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"
L	175 ±2	202 ±2	212 ±2	263 ±2	325 ±2	378 ±3	385 ±3	456 ±3	538 ±3	670 ±3

### DIMENSIONAL DATA SCREWED

DN	15	20	25	32	40	50	65	80
NPS	½"	¾"	1"	1¼"	1½"	2"	2½"	3"
L1	102 ±2	128 ±2	145 ±2	145 ±2	180 ±2	211 ±2	244 ±2	249 ±2

All dimensions are in millimeters

### TEST PRESSURE

PN RATING	TEST FOR BODY	TEST Pr. MPa (Gauge)	TEST DURATION min.
PN 10	BODY	1.5 (Hyd.)	5
PN 16	BODY	2.4 (Hyd.)	5

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S.No.	NAME OF PART	QUANTITY		MATERIAL OF CONSTRUCTION			
		Fig (a)	Fig (b)				
1.	BODY	1.	1	CI	CS.	SS-304	SS-316
2.	BODY GASKET	2	-	C.A.F.	PTFE	PTFE	PTFE
3.	STUDS & NUTS	4x4	—	CS.	CS.	SS-304	SS-316
4.	BODY CONNECTORS	2	1	C.I.	CS.	SS-304	SS-316
5.	BODY SEAT RING SEAL	2	2	PTFE	PTFE	PTFE	PTFE
6.	BALL	1	1	SS-304	SS-304	SS-304	SS-316
7.	STEM	1	1	SS.410	SS.410	SS-304	58-316
8.	CAPISEALING TAPE	2	2	PVC	PVC	PVC	PVC
9.	GASKETS	2	2	PYFE	PTFE	PTFE	PTFE
10.	GLAND	1	1	C.S	C.S.	SS-304	SS-316
11.	STOPPER	1	1	CS.	C.S.	SS-304	SS-316
12.	WRENCH	1	1	CS.	C.S.	SS-304	SS-316
13.	WRENCH NUT	1	1	CS.	CS.	SS-304	SS-316
14.	WRENCH SLEEVE	1	1	PVC	PVC	PVC	PVC

MAIN DIMENSIONS			FLANGE DETAILS AS PER ANSI.8 16.5					FLANGE DETAILS AS PER ANSI-B 16.5					DIMENSIONS FOR SCREWED END					
NOM SIZE	BORE	FtoF	FLANGE DIA	FLANGE THICK.	PC D	DIA OF HOLES	NO OF HOLES	F to F	FLANGE DIA	FLANGE THICK.	PCD	DIA OF HOLES	NO OF HOLES	NOM SIZE	A	B	C	E
DN	C (mm)	A (± 2)	D (+1.5) (-1.0)	B (min)	K (±1)	d	n	IS 9884 A (± 2)	D (+1.5) (-1.0)	B (mm)	K (±1)	d	n		±2	AS PER IS : 554	MIN.	MIN.
15	12.5	130	88.9	11.2	60.3	14.3	4	140	95.3	14.3	66.7	14.3	4	1/4	75	1/4"	6	18
20	19	130	98.4	11.2	69.9	14.3	4	152	117.5	15.9	82.6	17.5	4	3/8	80	3/8"	9.5	22
25	25	140	108	11.2	79.4	14.3	4	165	123.8	17.5	88.9	117.5	4	1/2	83	1/2"	12.5	25
32	32	165	117.5	12.7	88.9	14.3	4	178	133.4	19.1	98.4	17.5	4	3/4	90	3/4"	19	32
40	38	165	127	14.3	98.4	14.3	4	190	155.6	20.6	114.3	22.2	4	1	97	1"	25	39
50	51	203	152.4	15.9	120.7	17.5	4	216	165.1	22.2	127.0	17.5	8	1 1/4	103	1 1/4"	32	49
65	63.5	222	177.8	17.5	139.7	17.5	4	241	190.5	25.4	149.2	22.2	8	1 1/2	115	1 1/2"	38	55
80	76	241	190.5	19.5	152.4	17.5	4	283	209.6	28.6	168.3	22.2	8	2	142	2"	51	68
100	120	305	228.6	23.8	190.5	17.5	8	305	254	31.8	200.0	22.2	8	2 1/2	160	2 1/2"	63.5	85
150	152	394	279	25.4	241.3	22.3	8	403	318	36.5	269.7	22.3	12	3	179	3"	76	100
200	203	457	343	28.6	298.5	22.3	8	419	381	41.3	330.2	25.4	12	4	217	4"	102	125

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### MAIN DIMENSIONS

	50±2	65±2	80±2	100±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	125±2	1200±2
	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	660	711	811	-	-	-
	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	950	1000	1100	1200	-	-	-
	160	215	220	250	310	330	460	495	585	650	750	830	900	1050	1150	1200	1300	1400	1500	1650	1800	-
	365	380	425	470	485	595	728	835	950	1020	1110	1200	1300	1500	1670	1780	1930	2080	2200	2450	2580	-

### FLANGES DETAILS & TOLERANCES AS PER 1538

50mm	165± $\frac{1.5}{10}$	16± $\frac{0}{8}$	125±1	-	19
65mm	180± $\frac{1.5}{10}$	16± $\frac{0}{8}$	145±1	-	19
80mm	200± $\frac{4.5}{10}$	21	160±2	-	19± $\frac{0}{8}$
100mm	220± $\frac{4.5}{10}$	22	180±2	8	19± $\frac{0}{8}$
125mm	250± $\frac{4.5}{10}$	22.5	210±2	8	19± $\frac{0}{8}$
150mm	285± $\frac{5.5}{10}$	23	240±2	8	23± $\frac{0}{8}$
200mm	340± $\frac{5.5}{10}$	24.5	295±2	8	23± $\frac{0}{8}$
250mm	395± $\frac{5.5}{10}$	26	350±2	12	23± $\frac{0}{8}$
300mm	445± $\frac{5.5}{10}$	27.5	400±2	12	23± $\frac{0}{8}$
350mm	505± $\frac{6.5}{10}$	29	460±2	16	23± $\frac{0}{8}$
400mm	565± $\frac{6.5}{10}$	30	515±2	16	28± $\frac{0}{8}$
450mm	615± $\frac{6.5}{10}$	31.5	565±2	20	28± $\frac{0}{8}$
500mm	670± $\frac{6.5}{10}$	33	620±2	20	28± $\frac{0}{8}$
600mm	780± $\frac{6.5}{10}$	36	725±2.8	20	31± $\frac{0}{8}$
700mm	895± $\frac{7.5}{10}$	38.5	840±2.8	24	31± $\frac{0}{8}$
750mm	960± $\frac{7.5}{10}$	40	900±2.8	24	31± $\frac{0}{8}$
800mm	1015± $\frac{7.5}{10}$	41.5	950±2.8	24	34± $\frac{0}{8}$
900mm	1115± $\frac{7.5}{10}$	44	1050±2.8	28	34± $\frac{0}{8}$
1000mm	1230± $\frac{7.5}{10}$	47	1160±2.8	28	37± $\frac{0}{8}$
1100mm	1340± $\frac{8.5}{10}$	50	1270±2.8	32	37± $\frac{0}{8}$
1200mm	1455± $\frac{8.5}{10}$	63	1380±2.8	32	40± $\frac{0}{8}$

### STANDARD MATERIAL COMBINATION

S.NO.	Name of Part	No.	Material	Specification
1	BODY	01	C.I.	IS 210 Cr. FG200
2	BODY SEAT RING	02	LTB	IS 318 Cr. LTB2
3	WEDGE	01	C.I.	IS 210 Cr. FG200
4	WEDGE FACING RING	02	LTB	IS 318 Cr. LTB2
5	WEDGE NUT	01	LTB	IS 318 Cr. LTB2
6	STEM	01	S.S.	IS 6603 AISI 410
7	GASKET	01	RUBBER	SHORE HARDNESS 70±5
8	BOLTS & NUTS	06 EACH	CARBON STEEL	IS 1363 CL-4.6/ IS 1363 CL-4
9	BONNET	01	C.I.	IS 210 Cr. FC200
10	STUFFING BOX	01	C.I.	IS 210 Cr. FC200
11	GLAND PACKING	04 EACH	HEMP & JUTE	IS 5414
12	GLAND	01	C.I.	IS 210 Cr. FC200
13	T-HEAD BOLTS & NUTS	01	CARBON STEEL	IS 1363 CL-4.6/ IS 1363 CL-4
14	BOLTS & NUTS		CARBON STEEL	IS 1363 CL-4.6/ IS 1363 CL-4
15	GASKET	01	RUBBER	SHORE HARDNESS 70±5
16	THRUST BRIDGE	01	C.I.	IS 210 Gr. FG200

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