

**ASA Class 150/300**

<b>Technical Data</b>	
<b>Manufacturing STD:</b>	BS 1873
<b>Testing &amp; Inspection STD:</b>	API 598/ BS 5146
<b>Face to Face:</b>	ANSI B 16.10
<b>End connections:</b>	Flanged as per ANSI B 16.5
<b>Shell wall thickness:</b>	ANSI B 16.34

<b>No.</b>	<b>Description</b>	<b>Material</b>	<b>Qty.</b>
01	Body	ASTM A 216 Gr. wcb	1
02	Bonnet	ASTM A 216 Gr. wcb	1
03	Seat ring	AISI 410 ( 13% CR.)	1
04	Disc	AISI 410 ( 13% CR.)	1
05	Stem	AISI 410 ( 13% CR.)	1
06	Stem Nut	AISI 410 (13%CR)	1
07	Bonnet Bush	AISI 410	1
08	Gland	CARBON STEEL	1
09	Gland packing	METALIC WIRE REINFORCED GRAPHITED ASBESTOS / GRAFOIL	-
10	Yoke Sleeve	NI-RESIST	1
11	Bonnet Gasket	COMPRESSED ASBESTOS FIBRE/ SOFT STEEL	1
12	Bonnet Stud & Nut	ASTM A 193 GR.B7 ASTM A 194 GR.2H	-
13	Eye Bolt & Nut	ASTM A 193 GR.B7 ASTM A 194 GR.2H	2 Set
14	Hand Wheel	CAST IRON	1
15	Hand Wheel Nut	CARBON STEEL	1

Primary service reating & test pressure				
Class	Working press.	Temp.	HYD. Test pressure	
			Body	Seat
400	150 PSIG	800 ° F	1425 PSIG	1060 PSIG
600	300 PSIG	800 ° F	2175 PSIG	1600 PSIG
AIR TEST-SEAT 80 +_ 10 PSIG				

Class - 150								
Size	A	B	ø C	ø D	ø M	N	PCD	J
25	128	14.2	51	108.0	16	4	79.0	150
40	165	17.5	73	127.0	16	4	98.5	210
50	202	19.0	92	152.0	19	4	120.5	210
65	215	22.3	105	178.0	19	4	140.0	255
80	242	24.0	127	190.0	19	4	152.0	255
100	291	24.0	157	229.0	19	8	190.0	405
125	357	24.0	186	254.0	22	8	216.0	490
150	407	25.0	216	279.0	22	8	241.0	490
200	496	28.5	270	343.0	22	8	298.0	610
250	621	30.0	324	406.0	25	12	362.0	625
300	699	32.0	381	483.0	25	12	432.0	625

Class - 300								
Size	A	B	ø C	ø D	ø M	N	PCD	J
25	204	17.5	51	124.0	19	4	89	210
40	230	20.5	73	155.0	22	4	114	250
50	268	22.0	92	165.0	19	8	127	250
65	293	25.0	105	190.	22	8	149	405
80	318	28.5	127	209.0	22	8	168	405
100	357	32.0	157	254.0	22	8	200	490
125	399	35.0	186	279.0	22	8	235	490
150	443	36.5	216	317.0	22	12	270	490
200	532	41.0	270	381.0	25	12	330	610
250	621	47.0	324	444.5	29	16	387	610
300	710	51.0	381	521.0	32	16	451	610
all dimesion are in mm								

**Note :** Due to constant upgradation designs & dimensions are subject to change wihtout notice.

## ASA Class 400/600

Technical Data	
<b>Manufacturing STD:</b>	BS 1873
<b>Testing &amp; Inspection STD:</b>	API 598/ BS 5146
<b>Face to Face:</b>	ANSI B 16.10
<b>End connections:</b>	Flanged as per ANSI B 16.5
<b>Shell wall thickness:</b>	ANSI B 16.34

No.	Description	Material	Qty.
01	Body	ASTM A 216 Gr. wcb	1
02	Bonnet	ASTM A 216 Gr. wcb	1
03	Seat ring	AISI 410 ( 13% CR.)	1
04	Disc	AISI 410 ( 13% CR.)	1
05	Stem	AISI 410 ( 13% CR.)	1
06	Stem Nut	AISI 410 (13%CR)	1
07	Bonnet Bush	AISI 410	1
08	Gland	CARBON STEEL	1
09	Gland packing	METALIC WIRE REINFORCED GRAPHITED ASBESTOS / GRAFOIL	-
10	Yoke Sleeve	NI-RESIST	1
11	Bonnet Gasket	COMPRESSED ASBESTOS FIBRE/ SOFT STEEL	1

Primary service rating & test pressure				
Class	Working press.	Temp.	HYD. Test pressure	
			Body	Seat
400	150 PSIG	800 ° F	1425 PSIG	1060 PSIG
600	300 PSIG	800 ° F	2175 PSIG	1600 PSIG
AIR TEST-SEAT 80 +_ 10 PSIG				

Class - 150								
Size	A	B	ø C	ø D	ø M	N	PCD	J
25	215	23.9	51	124	19	4	89.0	250
40	242	28.7	73	156	22	4	114.5	250
50	293	31.7	92	165	19	8	127.5	305
65	331	34.8	105	191	22	8	149.0	305
80	357	38.8	127	210	22	8	168.0	405
100	407	41.4	157	254	25	8	200.0	405
125	458	44.5	186	279	25	8	235.0	490
150	496	47.5	216	318	25	12	270.0	490
200	598	54.1	270	381	381	12	330.0	610
250	677	60.2	324	445	445	16	387.0	672
300	763	63.5	381	521	521	16	451.0	825

Class - 300								
Size	A	B	ø C	ø D	ø M	N	PCD	J
25	21 4	23. 9	51	12 4	1 9	4	89	210
40	24 2	28. 7	73	15 6	2 2	4	114	250
50	29 3	31. 7	92	16 5	1 9	8	127	250
65	33 1	34. 8	10 5	19 1	2 2	8	149	405
80	35 7	38. 1	12 7	21 0	2 2	8	168	405
100	43 3	44. 5	15 7	27 3	2 5	8	216	490
125	50 9	50. 8	18 6	33 0	2 9	8	267	490
150	56 0	54. 1	21 6	35 6	2 9	1 2	292	610
200	66 1	62. 0	27 0	41 9	3 2	1 2	349	675
250	78 8	69. 8	32 4	50 8	3 5	1 6	432	825
300	83 9	72. 9	38 1	55 9	3 5	2 0	489	825

all dimension are in mm

**Note :** Due to constant upgradation designs & dimensions are subject to change without notice.

**Din Std. ND-16 / ND-40**

<b>Technical Data</b>	
<b>Manufacturing STD:</b>	BS 1873
<b>Testing &amp; Inspection STD:</b>	API 598
<b>Face to Face:</b>	As per Din ND -16/ND -40
<b>End connections:</b>	Flanged as per Din 2533/2543/2535/2545
<b>Shell wall thickness:</b>	ANSI B 16.34

<b>No.</b>	<b>Description</b>	<b>Material</b>	<b>Qty.</b>
01	Body	ASTM A 216 Gr. WCB / CAST IRON	1
02	Bonnet	ASTM A 216 Gr. WCB / CAST IRON	1
03	Seat ring	AISI 410 (13% CR)	1
04	Disc	AISI 410 (13% CR)	1
05	Stem	AISI 410 (13% CR)	1
06	Stem Nut	AISI 410 (13% CR)	1
07	Bonnet Bush	AISI 410	1
08	Gland	CARBON STEEL	1
09	Gland packing	METALIC WIRE REINFORCED GRAPHITED ASBESTOS	-
10	Yoke Sleeve	NI-RESIST	1
11	Bonnet Gasket	COMPRESSED ASBESTOS FIBRE/ SOFT STEEL	1
12	Bonnet Stud & Nut	ASTM A 193 GR.B7 ASTM A 194 GR.2H	-
13	Eye Bolt & Nut	ASTM A 193 GR.B7 ASTM A 194 GR.2H	2 Set
14	Hand Wheel	CAST IRON	1
15	Hand Wheel Nut	CARBON STEEL	1

<b>Hydraulic Test Pressure</b>			
<b>Std.</b>	<b>Body</b>	<b>Seat</b>	<b>Air</b>
ND 16	32 kg. /cm <sup>2</sup> 464 PSIG	16 kg. /cm <sup>2</sup> 232 PSIG	6 kg. /cm <sup>2</sup> 80 PSIG
ND 40	80 kg. /cm <sup>2</sup> 1160 PSIG	40 kg. /cm <sup>2</sup> 580 PSIG	6 kg. /cm <sup>2</sup> 80 PSIG

<b>Primary Service Rating &amp; Test Pressure</b>		
ND 16	16 kg / cm <sup>2</sup>	220° C
Nd 40	40 kg / cm <sup>2</sup>	400° C

<b>Size</b>	<b>A</b>	<b>B</b>	<b>ø C</b>	<b>ø D</b>	<b>ø M</b>	<b>N</b>	<b>PCD</b>	<b>J</b>
25	161	18	68	115	14	4	85	125
40	199	20	88	150	18	4	110	175
50	231	20	102	165	18	4	125	175
65	291	22	122	185	18	8	145	225
80	309	24	138	200	18	8	160	225
100	351	26	162	235	22	8	190	250
125	401	28	188	270	26	8	220	250
150	481	30	218	300	26	8	260	312
200	599	34	285	375	30	12	320	375
250	729	42	345	450	33	12	385	500

**Note :** Due to constant upgradation designs & dimensions are subject to change without notice