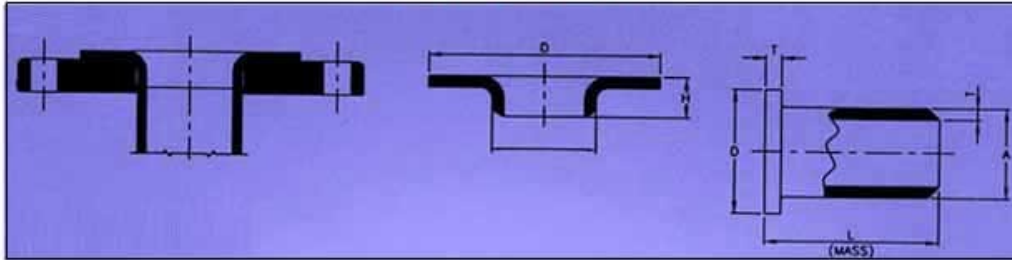


## PLUG & BUSHINGS



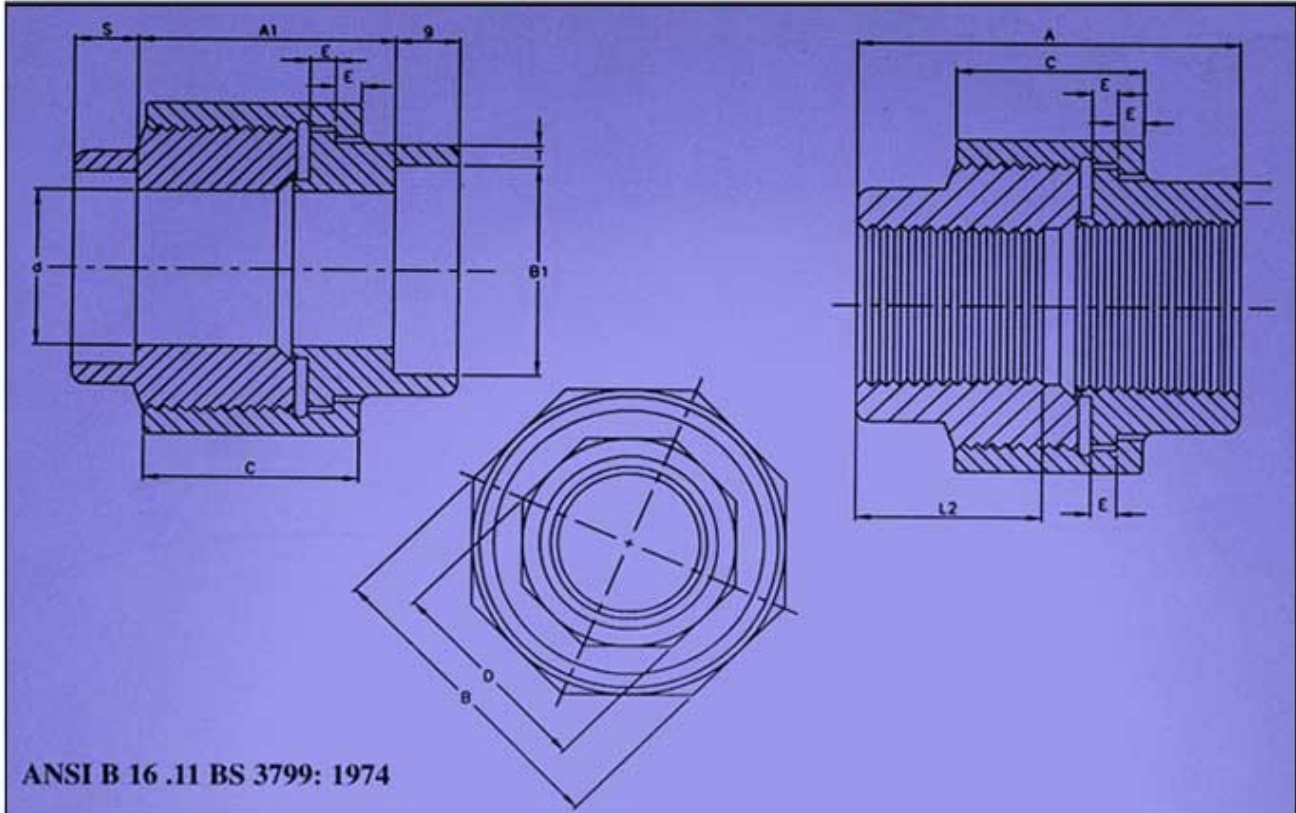
### LONG STUB - ENDS

Nominal Bore (Inch)		1/2	3/4	01.00	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12
Outside Dia 'D'		21.34	26.67	33.40	42.16	48.26	60.30	73.03	88.90	101.60	114.30	141.30	1968.28	219.18	273.05	323.85
Material	SH- 5S	01.65	01.65	01.65	01.65	01.65	01.65	02.11	02.11	02.77	02.77	02.77	02.77	02.77	03.40	03.96
Thickness	SH - 10S	02.11	02.11	02.77	02.77	02.77	02.77	03.05	03.05	03.05	03.05	03.40	03.40	03.46	04.19	04.57
"T"	SH - 40 S	02.77	02.87	03.38	03.56	03.68	03.91	05.16	05.49	05.74	05.02	06.55	07.11	08.18	09.27	09.52
	SH - 80 S	03.73	03.91	04.55	04.85	05.08	05.54	07.01	07.62	08.07	08.56	09.52	10.91	12.70	12.70	12.70
Dimension 'D'		34.92	42.84	50.80	62.50	73.02	92.07	104.77	127.00	139.70	157.14	185.72	215.90	269.87	323.85	381.00
(Dia of Lap Face)																
Dimension 'L' (MSS)		50.80	50.50	50.80	50.80	50.80	63.50	63.50	63.50	76.20	76.20	76.20	88.90	101.60	127.00	152.40
Dimension 'R' (Red)		00.78	00.78	00.78	00.78	00.78	00.78	00.78	00.78	00.78	00.78	01.57	01.57	01.57	01.57	01.57

### SHORT STUB - ENDS

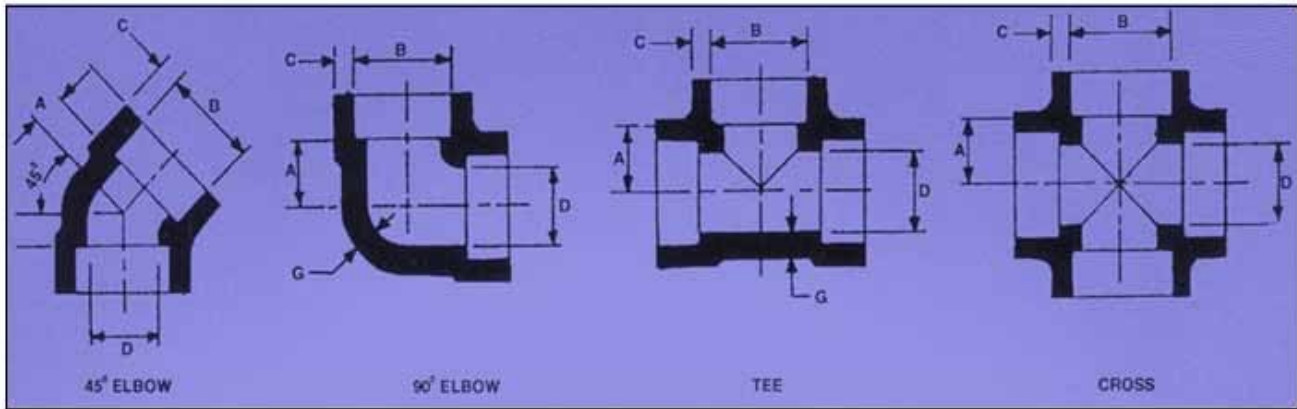
Size	mm	10	15.0	20.0	25.0	32.0	40.0	50.0	65.0	80.0	100	125.0	150.0	200.0	250	300
DIN	D	40	45.0	58.0	68.0	78.0	88.0	102.0	122.0	138.0	158	188.0	212.0	268.0	320	370
STD	D	14	20.0	25.0	30.0	38.0	44.5	57.0	76.0	55.6	108	133.0	159.0	216.0	267	318
ASA	D	-	42.0	52.0	62.0	72.0	82.0	98.0	118.0	130.0	168	188.0	215.0	270.0	330	400
STD	D	-	21.3	26.7	33.5	42.2	48.3	60.4	73.1	88.9	114.3	141.3	168.4	219.2	273	324
OD	D	-	40.0	45.0	54.0	64.0	78.0	88.0	102.0	122.0	158	188.0	212.0	268.0	320	370
STD	D	-	21.0	25.0	31.0	37.5	44.0	57.0	70.0	82.0	107	132.0	158.0	209.0	260	310
Height	H	6	08.0	08.0	10.0	12.0	12.0	16.0	16.0	18.0	20	25.0	25.0	30.0	035	040

## SCREWED & SOCKET - WELD UNION DIMENSIONS



Nominal size		End to end A	Width A/F Union nut (min.) B	Height of Union nut (min.) C	Width A/F of ends (min.) D	Thickness of shoulder (min.) E	Distance Length of thread (min.) L2	Bore between bottom of Socket (min.) A1	Bore diameter of socket (min.) B-1	diameter of sockets (min.) D*	Socket Depth socket (min.) S	Wall thickness T
In mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1/8	(6)	40	32	16	17	3.2	6.70	17	10.7	6.8	10	3.2
1/4	(8)	43	32	18	19	3.2	10.21	17	14.1	9.2	10	3.3
3/8	(10)	48	39	19	22	3.2	10.36	17	17.6	12.5	10	3.5
1/2	(15)	51	43	21	30	4.0	13.56	18	21.8	15.5	10	4.1
3/4	(20)	57	50	24	36	4.8	13.86	20	27.4	21.0	13	4.3
1	(25)	64	60	25	41	4.8	17.34	26	34.1	26.5	13	5.0
1 <sup>14</sup>	(32)	70	70	29	50	5.6	17.93	28	42.9	35.0	13	5.3
1 <sup>12</sup>	(40)	79	78	30	60	5.6	18.38	30	49.0	30.5	13	5.6
2	(50)	89	95	37	70	6.4	19.22	36	61.0	52.0	16	6.1
2 <sup>12</sup>	(65)	118	128	48	85	9.6	28.89	57	73.8	62.0	16	7.7
3	(80)	121	140	51	100	12.7	30.48	70	89.7	78.0	16	8.3

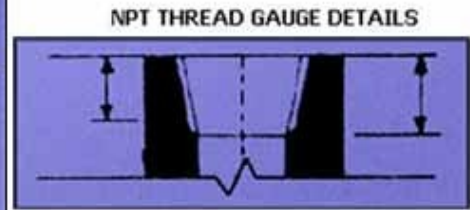
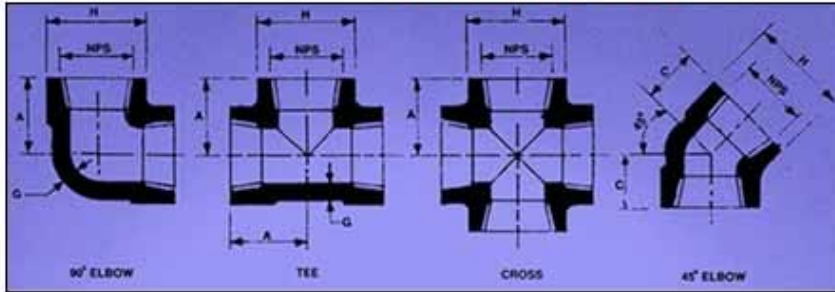
## SOCKET WELD ENDS



## DIMENSIONS

NOMINAL PIPE SIZE		3000 PSI RATING							6000 PSI RATING				
IN	MM	SOCKET BORE <i>B</i>	SOCKET DEPTH <i>D</i>	SOCKET THICKNESS		A	BODY BORE		SOCKET THICKNESS		A	BODY BORE	
				AVER-AGE	MIN		A	G	AVER-AGE	MIN		A	G
1/4	06	14.1	09.65	3.78	3.30	11.2	10.0	3.02	04.60	4.00	13.5	07.10	3.68
3/8	10	17.5	09.65	4.00	3.50	13.5	13.3	3.20	05.03	4.37	15.8	09.90	4.00
1/2	15	21.7	09.65	4.67	4.10	15.8	16.6	3.75	05.97	5.18	19.0	12.06	4.78
3/4	20	27.0	12.07	4.90	4.27	19.0	21.7	3.91	06.96	6.05	22.3	16.03	5.56
1	25	33.8	12.07	5.70	4.98	22.3	27.4	4.55	07.92	6.93	27.0	21.05	6.35
1 1/4	32	42.5	12.07	6.04	5.28	27.0	35.8	4.85	07.92	6.93	31.8	30.02	6.35
1 1/2	40	48.6	12.07	6.35	5.54	31.8	41.7	5.08	08.92	7.80	38.0	34.07	7.15
2	50	61.1	15.08	6.93	6.05	38.0	53.3	5.54	10.92	9.52	41.2	43.06	8.75
2 1/2	65	73.8	15.08	8.76	7.67	41.2	64.2	7.00					
3	80	89.8	15.08	9.50	8.30	57.2	—	7.68					

## SCREWED ENDS



### SPECIFICATION:

- OVERALL DIMENSIONS
- SOCKET DIMENSIONS
- THREAD DIMENSIONS

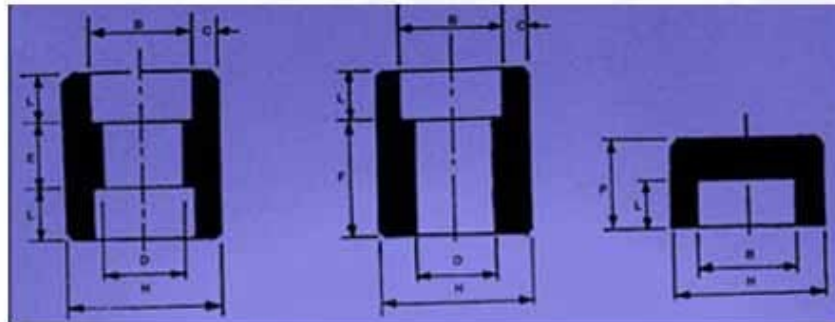
## DIMENSIONS

NOMINAL PIPE SIZE		3000 PSI RATING				6000 PSI RATING				3000 & 6000 PSI RATING	
IN	MM	A	C	H	G	A	C	H	G	L2	B
1/4	06	25	19	025	3.3	028	22	033	06.6	10.2	08.1
3/8	10	28	22	033	3.5	033	25	038	07.0	10.4	09.1
1/2	15	33	25	038	4.1	038	28	046	08.2	13.6	11.0
3/4	20	38	28	046	4.3	045	33	056	08.5	13.9	12.7
1	25	45	33	056	5.0	051	38	062	10.0	17.3	14.7
1 1/4	32	51	38	062	5.3	061	43	075	10.6	18.0	17.0
1 1/2	40	61	43	075	5.6	064	44	084	11.1	18.4	17.8
2	50	64	44	084	7.1	083	52	102	12.1	19.2	19.0
2 1/2	65	83	52	102	7.7	095	64	121	15.3	28.9	23.6
3	80	95	64	121	8.8	106	79	146	16.6	30.5	25.9

## FORGED COUPLINGS & CAP - SOCKET WELD ENDS

### TOLERANCES

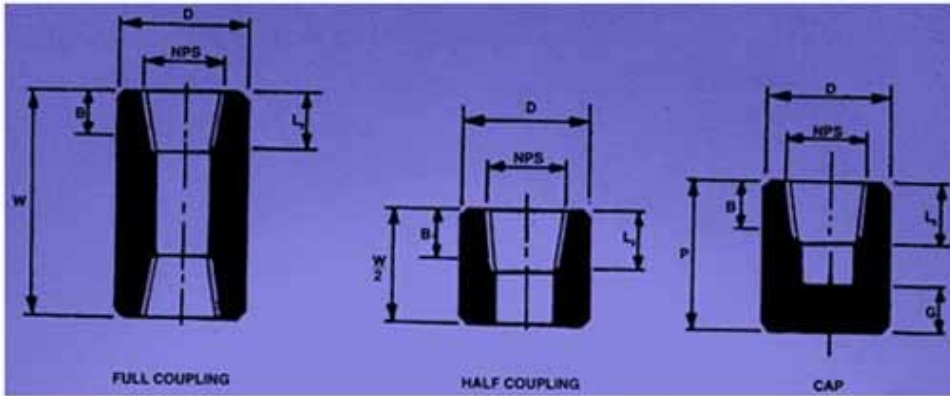
NPS	E	F	B	D
UPTO 1/4" NPS	+1.5	+0.8		
3/8" NPS - 3/4" NPS	+3	+1.5	+0.25 -0.00	+0.0 -1.5
1" NPS - 2" NPS	+4	+2		
2 1/2" NPS & ABOVE	+5	+2.5	+0.38 -0.0	+0.0 -3.0



### DIMENSIONS

NOMINAL		SOCKET BORE	LENGTH	SOCKET DEPTH	3000 PSI RATING				6000 PSI RATING				
PIPE SIZE	SIZE				D	C	H	P	D	C	H	P	
1/4	06	14.1	09.65	06.04	15.8	10.0	3.03	022.0	16.0	07.1	4.00	23.5	19.0
3/8	10	17.5	09.65	06.04	17.5	13.3	3.05	026.0	16.5	09.9	4.37	28.0	20.5
1/2	15	21.7	09.65	09.65	22.3	16.6	4.01	031.0	17.5	12.6	5.18	34.0	21.5
3/4	20	27.0	12.07	09.65	24.0	21.7	4.27	037.0	22.0	16.3	6.05	41.0	26.0
1	25	33.8	12.07	12.07	28.5	27.4	4.98	045.5	25.0	21.5	6.93	50.0	28.5
1 1/4	32	42.5	12.07	12.07	30.0	35.8	5.28	055.0	26.0	30.2	6.93	58.5	31.0
1 1/2	40	48.6	12.07	12.07	32.0	41.7	5.54	062.0	28.0	34.7	7.08	66.5	33.0
2	50	61.1	15.08	19.00	41.0	53.3	6.05	075.0	34.0	43.6	9.52	83.0	37.0
2 1/2	65	73.8	15.08	19.00	43.0	64.2	7.67	092.0					
3	80	89.8	15.08	19.00	45.0	79.5	8.03	109.0					

## FORGED COUPLINGS & CAP - SCREWED ENDS



### SPECIFICATION:

- DIMENSIONS
- THREADS

### DIMENSIONS

NOMINAL BORE		3000 PSI RATING				6000 PSI RATING				3000 & 6000 PSI RATING	
IN	MM	D	W	P	G	D	W	P	G	B	L2
1/4	6	19.0	35.0	25.0	4.8	25.0	35.0	27	6.4	8.1	10.2
3/8	10	22.5	38.0	25.0	4.8	32.0	38.0	27	6.4	9.1	10.4
1/2	15	28.5	48.0	32.0	6.4	38.0	48.0	33	8.0	11.0	10.4
3/4	20	35.0	51.0	36.5	6.4	45.0	51.0	38	8.0	12.7	13.9
1	25	45.0	60.5	41.0	9.6	57.0	60.5	43	11.0	14.7	17.3
1 1/4	32	57.0	66.5	45.0	9.6	63.0	66.5	46	11.0	17.0	18.0
1 1/2	40	63.0	79.0	45.0	11.0	76.0	79.0	48	12.7	17.8	18.4
2	50	76.0	85.0	48.0	12.7	92.0	85.0	51	15.8	19.0	19.2
2 1/2	65	92.0	92.0	60.5	15.8	108	92.0	64	19.0	23.6	28.9
3	80	108	108	65.0	19.0	127	108	68	22.3	25.9	30.5

## FORGED COUPLINGS & CAP - SCREWED ENDS

### DIMENSIONS

NOMINAL PIPE SIZE		A	SQ. HEADED PLUGS		ROUND HEADED PLUGS		HEX. HEAD PLUGS & BUSHINGS		
IN	MM		B	C	D	E	F	H	G
1/4	06	11.0	06.0	10.0	41	14.0	16.0	6.5	3.0
3/8	10	13.0	08.0	11.0	41	18.0	18.0	08.0	04.0
1/2	15	14.0	10.0	14.0	45	21.0	22.0	08.0	05.0
3/4	20	16.0	11.0	16.0	45	27.0	27.0	09.5	06.0
1	25	19.0	13.0	21.0	51	33.0	36.0	09.5	06.0
1 1/4	32	21.0	14.0	24.0	51	43.0	45.0	14.0	07.0
1 1/2	40	21.0	16.0	28.0	51	48.0	50.0	16.0	08.0
2	50	22.0	17.5	33.0	64	60.0	65.0	17.5	09.0
2 1/2	65	27.0	19.0	38.0	70	73.0	75.0	19.0	10.0
3	80	28.0	21.0	43.0	70	89.0	90.0	20.5	10.0
4	100	32.0	25.0	64.0	76	114.0	115.0	32.0	13.0

