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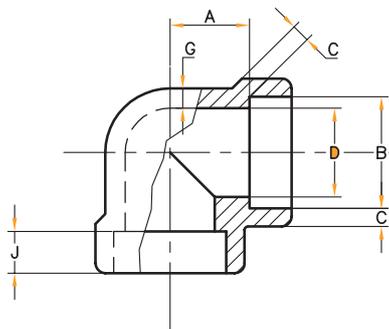
PIPES, FITTINGS & FLANGES.

Made in Italy

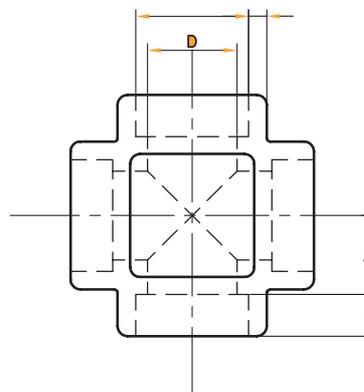
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Socket-welding fittings



90 - deg Elbow



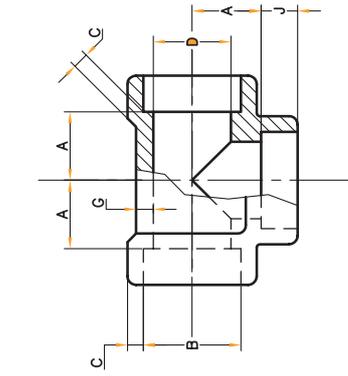
Cross

Nominal pipe size (NPS)	Socket bore diameter, B (note 1)	Bore diameter of fittings, D (note 1)			Socket wall thickness, C (note 2)					
		Class designation			Class designation					
		3000	6000	9000	Avg.	Min.	Avg.	Min.	Avg.	Min.
1/8	11,2	7,6	4,8	—	3,18	3,18	3,96	3,43	—	—
	10,8	6,1	3,2	—						
1/4	14,6	10	7,1	—	3,78	3,3	4,6	4,01	—	—
	14,2	8,5	5,6	—						
3/8	18	13,3	9,9	—	4,01	3,5	5,03	4,37	—	—
	17,6	11,8	8,4	—						
1/2	22,2	16,6	12,5	7,2	4,67	4,09	5,97	5,18	9,35	8,18
	21,8	15	11	5,6						
3/4	27,6	21,7	16,3	11,8	4,9	4,27	6,96	6,04	9,78	8,56
	27,2	20,2	14,8	10,3						
1	34,3	27,4	21,5	16	5,69	4,98	7,92	6,93	11,38	9,96
	33,9	25,9	19,9	14,4						
1 1/4	43,1	35,8	30,2	23,5	6,07	5,28	7,92	6,93	12,14	10,62
	42,7	34,3	28,7	22						
1 1/2	49,2	41,6	34,7	28,7	6,35	5,54	8,92	7,8	12,7	11,12
	48,8	40,1	33,2	27,2						
2	61,7	53,3	43,6	38,9	6,93	6,04	10,92	9,5	13,84	12,12
	61,2	51,7	42,1	37,4						
2 1/2	74,4	64,2	—	—	8,76	7,67	—	—	—	—
	73,9	61,2	—	—						
3	90,3	79,4	—	—	9,52	8,3	—	—	—	—
	89,8	76,4	—	—						
4	115,7	103,8	—	—	10,69	9,35	—	—	—	—
	115,2	100,7	—	—						

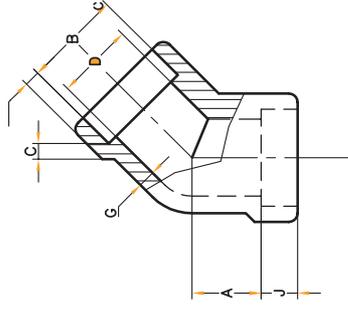
Note 1: Upper and lower values for each size are the respective maximum and minimum dimensions.

Note 2: Average of socket wall thickness around periphery shall be no less than listed values.

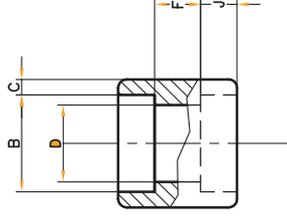
The minimum values are permitted in localized areas.



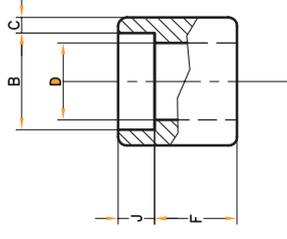
Tee



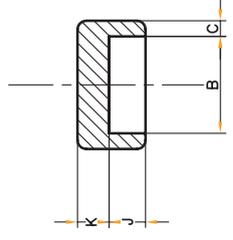
45 - deg Elbow



Coupling



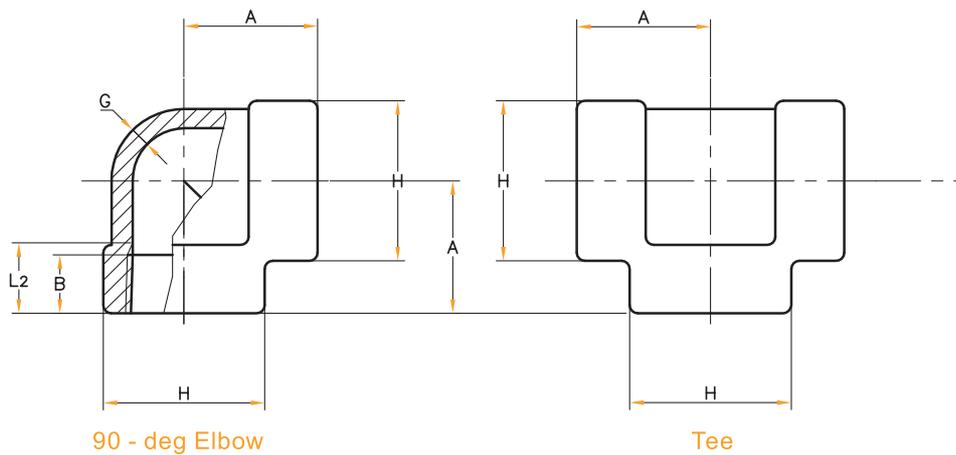
Half-Coupling



Cap

Body wall, G		Min. Depth of socket, J		Center to bottom of socket, A						Laying lengths		Tolerances					End wall thickness, K _{min}	
				90-Deg elbows, tees, and crosses		45-Deg elbows						Couplings, E	Half couplings, F	A	E	F		
3000	6000	9000	3000	6000	9000	3000	6000	9000	3000	6000	9000						3000	6000
Min.	Min.	Min.	Min.	11	11	11	11	11	8	8	8	6,5	16	1	1,5	1	4,8	
2,41	3,15	—	—	13,5	13,5	13,5	13,5	13,5	8	8	8	6,5	16	1	1,5	1	4,8	
3,02	3,68	—	—	15,5	15,5	15,5	15,5	15,5	8	8	8	6,5	16	1	1,5	1	4,8	
3,2	4,01	—	—	19	19	19	19	19	11	11	11	9,5	22,5	3	3	3	4,8	
3,73	4,78	7,47	—	22,5	22,5	22,5	22,5	22,5	11	11	11	9,5	24	3	3	3	6,4	
3,91	5,56	7,82	—	27	27	27	27	27	13	13	13	9,5	28,5	3	3	3	6,4	
4,55	6,35	9,09	—	32	32	32	32	32	14	14	14	12,5	30	4	4	4	9,6	
4,85	6,35	9,7	—	38	38	38	38	38	17,5	17,5	17,5	12,5	32	4	4	4	9,6	
5,08	7,14	10,15	—	41	41	41	41	41	20,5	20,5	20,5	12,5	32	4	4	4	11,2	
5,54	8,74	11,07	—	41	41	41	41	41	25,5	25,5	25,5	19	41	4	4	4	11,2	
7,01	—	—	—	41	41	41	41	41	28,5	28,5	28,5	19	43	5	5	5	15,7	
7,62	—	—	—	57	57	57	57	57	32	32	32	19	44,5	5	5	5	19	
8,56	—	—	—	66,5	66,5	66,5	66,5	66,5	41	41	41	19	48	5	5	5	22,4	

The values, unless otherwise indicated, are to be considered in millimeters

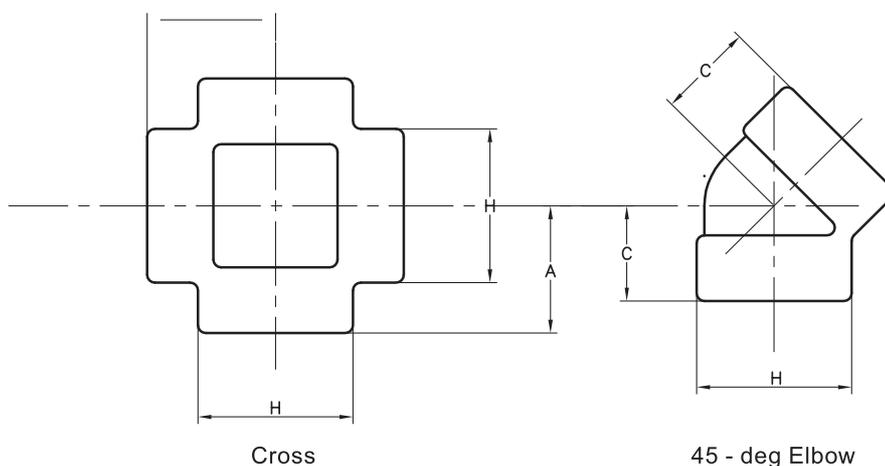


Nominal pipe size (NPS)	Center-to-end elbows, tees, crosses, A			Center-to-end 45-deg elbow, C		
	2000	3000	6000	2000	3000	6000
1/8	21	21	25	17	17	19
1/4	21	25	28	17	19	22
3/8	25	28	33	19	22	25
1/2	28	33	38	22	25	28
3/4	33	38	44	25	28	33
1	38	44	51	28	33	35
1 1/4	44	51	60	33	35	43
1 1/2	51	60	64	35	43	44
2	60	64	83	43	44	52
2 1/2	76	83	95	52	52	64
3	86	95	106	64	64	79
4	106	114	114	79	79	79





Forged threaded fittings



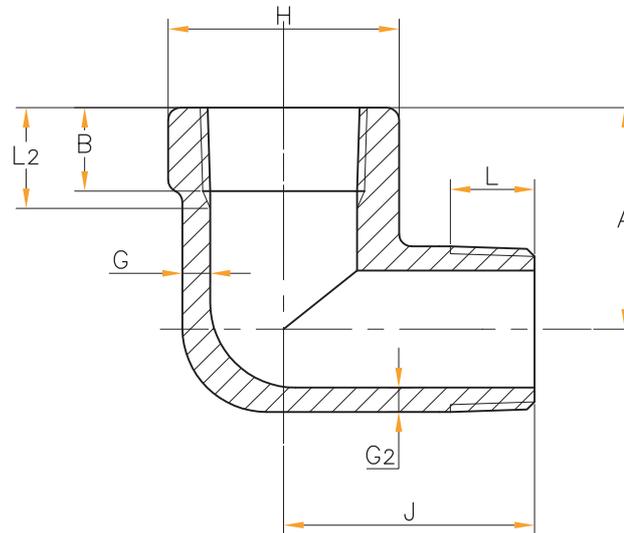
Outside diameter of band, H			Min. wall thickness, G			Min. length of thread	
2000	3000	6000	2000	3000	6000	B	L2
22	22	25	3,18	3,18	6,35	6,4	6,7
22	25	33	3,18	3,3	6,6	8,1	10,2
25	33	38	3,18	3,51	6,98	9,1	10,4
33	38	46	3,18	4,09	8,15	10,9	13,6
38	46	56	3,18	4,32	8,53	12,7	13,9
46	56	62	3,68	4,98	9,93	14,7	17,3
56	62	75	3,89	5,28	10,59	17	18
62	75	84	4,01	5,56	11,07	17,8	18,4
75	84	102	4,27	7,14	12,09	19	19,2
92	102	121	5,61	7,56	15,29	23,6	28,9
109	121	146	5,99	8,84	16,64	25,9	30,5
146	152	152	6,55	11,18	18,67	27,7	33

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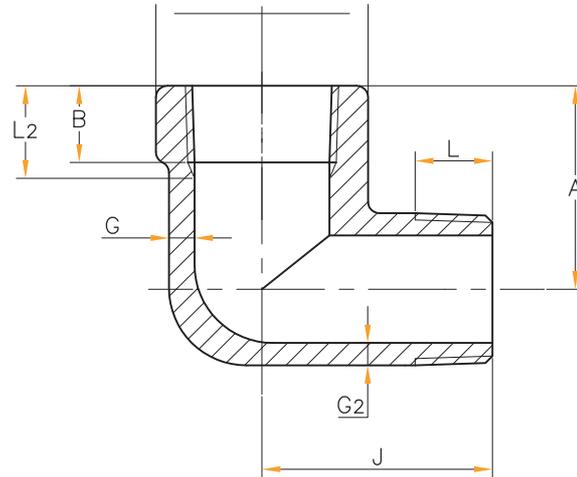


Forged threaded fittings - street elbows



Nominal pipe size (NPS)	Center-to-female end street ells, A		Center-to-male end street ells, J		Outside diameter of band, H	
	Class designation		Class designation		Class designation	
	3000	6000	3000	6000	3000	6000
1/8	19	22	25	32	19	25
1/4	22	25	32	38	25	32
3/8	25	28	38	41	32	38
1/2	28	35	41	48	38	44
3/4	35	44	48	57	44	51
1	44	51	57	66	51	62
1 1/4	51	54	66	71	62	70
1 1/2	54	64	71	84	70	84
2	64	83	84	105	84	102





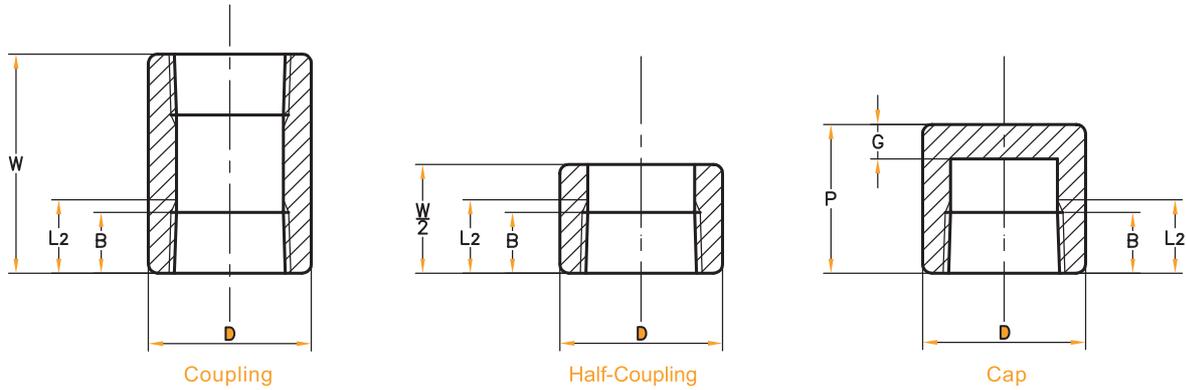
Min. wall thickness, G2		Min. wall thickness, G2		Min. length internal thread		Min. length male thread, L
Class designation		Class designation		B	L2	
3000	6000	3000	6000			
19	22	25	32	19	25	1/8
22	25	32	38	25	32	1/4
25	28	38	41	32	38	3/8
28	35	41	48	38	44	1/2
35	44	48	57	44	51	3/4
44	51	57	66	51	62	1
51	54	66	71	62	70	1 1/4
54	64	71	84	70	84	1 1/2
64	83	84	105	84	102	2

The values, unless otherwise indicated, are to be considered in millimeters





Threaded fittings



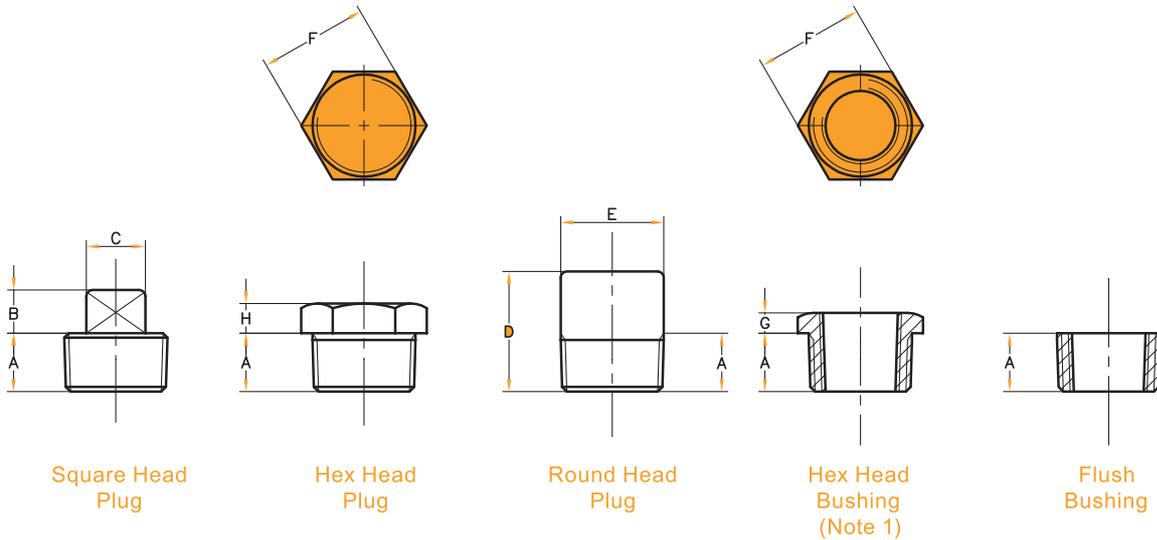
Nominal pipe size (NPS)	End-to-end couplings, W	End-to-end caps, P		Outside diameter, D		Min. end wall thickness, G		Min. length of thread	
	3000 AND 6000	3000	6000	3000	6000	3000	6000	B	L2
1/8	32	19	—	16	22	4,8	—	6,4	6,7
1/4	35	25	27	19	25	4,8	6,4	8,1	10,2
3/8	38	25	27	22	32	4,8	6,4	9,1	10,4
1/2	48	32	33	28	38	6,4	7,9	10,9	13,6
3/4	51	37	38	35	44	6,4	7,9	12,7	13,9
1	60	41	43	44	57	9,7	11,2	14,7	17,3
1 1/4	67	44	46	57	64	9,7	11,2	17	18
1 1/2	79	44	48	64	76	11,2	12,7	17,8	18,4
2	86	48	51	76	92	12,7	15,7	19	19,2
2 1/2	92	60	64	92	108	15,7	19	23,6	28,9
3	108	65	68	108	127	19	22,4	25,9	30,5
4	121	68	75	140	159	22,4	28,4	27,7	33

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Threaded fittings



Square Head Plug

Hex Head Plug

Round Head Plug

Hex Head Bushing (Note 1)

Flush Bushing

Nominal pipe size (NPS)	Min. Length, A	Square head plugs		Round head plugs		Hex plugs and bushings		
		Min. Square height, B	Min. Width flats, C	Nominal head diameter, E	Min. Length, D	Nominal width flats, E	Min. Hex height	
							Bushing, G	Plug, H
1/8	10	6	7	10	35	11	—	6
1/4	11	6	10	14	41	16	3	6
3/8	13	8	11	18	41	18	4	8
1/2	14	10	14	21	44	22	5	8
3/4	16	11	16	27	44	27	6	10
1	19	13	21	33	51	36	6	10
1 1/4	21	14	24	43	51	46	7	14
1 1/2	21	16	28	48	51	50	8	16
2	22	18	32	60	64	65	9	18
2 1/2	27	19	36	73	70	75	10	19
3	28	21	41	89	70	90	10	21
4	32	25	65	114	76	115	13	25

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