

Steel Pipe Couplings Fig. 336 Merchant Couplings

Figure 336

Standard, Full & Half



Size		Outside Diameter (Coupling)		Length				Threads		Unit Weight							
				Full		Half				Full				Half			
NPS	DN	in	mm	in	mm	in	mm	in	mm	Straight Tapped		Taper Tapped		Straight Tapped		Taper Tapped	
										lbs	kg	lbs	kg	lbs	kg	lbs	kg
1/8	6	0.563	14	13/16	22	11/32	9	27	686	0.03	0.01	0.03	0.01	0.01	0.00	0.01	0.00
1/4	8	0.719	18	13/16	30	17/32	13	18	457	0.07	0.03	0.07	0.03	0.03	0.01	0.03	0.01
3/8	10	0.875	22	13/16	30	17/32	13	18	457	0.10	0.05	0.10	0.05	0.05	0.02	0.05	0.02
1/2	15	1.063	27	19/16	40	23/32	18	14	356	0.18	0.08	0.18	0.08	0.08	0.04	0.08	0.04
3/4	20	1.313	33	15/8	41	3/4	19	14	356	0.26	0.12	0.26	0.12	0.12	0.05	0.12	0.05
1	25	1.576	40	2	51	15/16	24	11 1/2	292	0.42	0.19	0.42	0.19	0.18	0.08	0.18	0.08
1 1/4	32	1.900	48	2 1/16	52	31/32	25	11 1/2	292	0.50	0.23	0.50	0.23	0.23	0.10	0.23	0.10
1 1/2	40	2.200	56	2 1/16	52	31/32	25	11 1/2	292	0.67	0.30	0.67	0.30	0.32	0.15	0.32	0.15
2	50	2.750	70	2 1/8	54	1	25	11 1/2	292	1.03	0.47	1.03	0.47	0.47	0.21	0.47	0.21
2 1/2	65	3.250	83	3 3/8	79	1 1/2	38	8	203	2.09	0.95	2.15	0.98	0.96	0.44	0.96	0.44
3	80	4.000	102	3 1/4	83	1 9/16	40	8	203	3.36	1.52	3.46	1.57	1.60	0.73	1.60	0.73
3 1/2	90	4.625	117	3 3/8	86	1 5/8	41	8	203	4.82	2.19	5.18	2.35	2.22	1.01	2.22	1.01
4	100	5.000	127	3 1/2	89	1 11/16	43	8	203	4.80	2.18	4.87	2.21	2.11	0.96	2.11	0.96
5	125	6.296	160	3 3/4	95	1 13/16	46	8	203	8.31	3.77	8.75	3.97	3.80	1.72	3.80	1.72
6	150	7.390	188	4	102	1 13/16	46	8	203	11.18	5.07	11.88	5.39	5.28	2.39	5.28	2.39

- Manufactured in accordance with ASTM specification A865 and A589 threading in accordance with ASME B1.20.1.
- Merchant couplings in sizes 1/8" NPS (6 DN) through 2" NPS (50 DN) are normally supplied straight tapped. Sizes 2 1/2" NPS (65 DN) and larger are taper tapped.
- Taper tapped standard merchant couplings in sizes 1/8" NPS (6 DN) through 2" NPS (50 DN) are available upon request.
- Couplings from 1/8" NPS (6 DN) through 6" NPS (150 DN) are dipped in rust preventative.
- Electroplated full couplings are also available.
- Working Pressure: 150 PSI.

Note: Half couplings are chamfered on one end and squared on the other.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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General Assembly of Threaded Fittings

1 Inspect both male and female components prior to assembly

- Threads should be free from mechanical damage, dirt, chips and excess cutting oil.
- Clean or replace components as necessary.

2 Application of thread sealant

- Use a thread sealant that is fast drying, sets-up to a semi hard condition and is vibration resistant. Alternately, an anaerobic sealant may be utilized.
- Thoroughly mix the thread sealant prior to application.
- Apply a thick even coat to the male threads only. Best application is achieved with a brush stiff enough to force sealant down to the root of the threads.

3 Joint Makeup

- For sizes up to and including 2" pipe, wrench tight makeup is considered three full turns past handtight. Handtight engagement for ½" through 2" thread varies from 4½ turns to 5 turns.
- For 2½" through 4" sizes, wrench tight makeup is considered two full turns past handtight. Handtight engagement for 2½" through 4" thread varies from 5½ turns to 6¾ turns.