





Submittal Sheet

The SPFTM Model MT-40 Weld Outlet Fitting provides an economical threaded outlet branch connection. Fittings are forged steel per ASTM A-105 and are available in outlet sizes of $^{1}\!/_{2}$ " through 2" for $1^{1}\!/_{4}$ " through 8" run pipe sizes. A precise fit at the opening in the run pipe is achieved through the MT-40's contoured shape and conforms to standard practice MSS SP-97. The weld bevel is a standard $37^{1}\!/_{2}$ °. The MT-40 may be installed on all schedules of steel pipe. Each outlet size requires only one hole size across the run pipe range, minimizing hole saw/drills needed for component installation. MT-40 threads comply with ANSI/ASME B1.20.1 for NPT.

All fittings are UL/ULC Listed and all fittings except $1^{1}/4 \times 1^{1}/4$, $1^{1}/2 \times 1^{1}/2$, and 2×2 are FM Approved for use in fire protection systems at 175 PSI for schedule 5 pipe and 300 PSI for schedule 7 pipe and above. For the latest UL/ULC Listed and FM Approved pressure ratings versus pipe schedule see www.anvilstar.com or contact your local AnvilStar Sales Representative.



APPROVED
For Listing / Approval details contact your
AnvilStar™ Representative.

	Project Information:	Approval Stamp:
Project:		
Date:	Phone:	
Architect / Engineer:		
Contractor:		
Address:		
Notes 1:		
Notes 2:		
		PAGE 1 OF 3

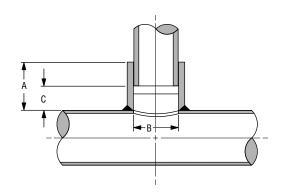






Submittal Sheet

Outlet	FIGUR	Outlet Height	Inside	VELD OL	Take Out	Approx.
Size	Size	A	В	Hole Size	(Wt. Ea.
In./mm	In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lb./kg
	11/4 - 11/2	11/16	11/16	5/8	9/16	0.171
	32 - 40	27.0	17.5	15.9	14.3	0.08
	11/2 - 2	11/16	11/16	5/8	9/16	0.171
1/2 x	40 - 50	27.0	17.5	15.9	14.3	0.08
13 x	2 - 21/2	11/16	11/16	5/8	9/16	0.171
	50 - 65	27.0	17.5	15.9	14.3	0.08
	21/2 - 8	11/16	11/16	5/8	9/16	0.169
	65 - 200	27.0	17.5	15.9	14.3	0.08
	11/4 - 11/2	11/8	7/8	7/8	9/16	0.260
	32 - 40	28.6	22.2	22.2 7/8	14.3	0.12
3,	11/2 - 2	11/8	7/8	, , ,	⁹ /16	0.260
³ /4 x 19 x	40 - 50 2 - 2 ¹ /2	28.6 1½	22.2 7/8	22.2 7/8	14.3	0.12
17 X		1 7/8 28.6			9/16	0.260
	50 - 65 21/2 - 8	28.6 11/8	22.2 7/8	22.2 7/8	14.3 9/16	0.12
	2 ½ - 8 65 - 200		7/8 22.2			0.256
	11/4 - 11/9	28.6 11/4	13/16	22.2 1½	14.3 5/8	0.12
		1 1/4 31.8	30.2		³ /8 15.9	0.331
	32 - 40 1½ - 2	11/4		28.6 11/8	5/8	0.15
			13/16			0.331
	40 - 50	31.8	30.2	28.6	15.9 5/8	0.15
	2 - 21/2	11/4	13/16	11/8		0.320
1 x	50 - 65	31.8	30.2	28.6	15.9	0.15
25 x	21/2 - 3	11/4	13/16	11/8	5/8	0.314
	65 - 80	31.8	30.2	28.6	15.9	0.14
	3 - 4	11/4	13/16	11/8	5/8	0.309
	80 - 100	31.8	30.2	28.6	15.9	0.14
	5 - 8	11/4	13/16	11/8	5/8	0.291
	125 - 200	31.8	30.2	28.6	15.9	0.13
	11/4 - 11/2	13/8	11/2	11/2	11/16	0.432
	32 - 40	34.9	38.1	38.1	17.5	.019
1 ¹ /4 x 32 x	11/2 - 2	13/8	11/2	11/2	1 ¹ /16	0.421
	40 - 50	34.9	38.1	38.1	17.5	.019
	2 - 21/2	13/8	11/2	1½	11/16	0.421
	50 - 65	34.9	38.1	38.1	17.5	.019
	21/2 - 3	13/8	11/2	11/2	1 ¹ /16	0.411
	65 - 80	34.9	38.1	38.1	17.5	.019
	3 - 4	13/8	11/2	11/2	11/16	0.389
	80 - 100	34.9	38.1	38.1	17.5	.018
	5 - 8	13/8	11/2	11/2	11/16	0.389
	125 - 200	34.9	38.1	38.1	17.5	.018



	FIGUR	E MT	-40 W	VELD OL	JTLETS	•
Outlet Size	Nominal Size	Outlet Height A	Inside Diameter B	Recommended Hole Size	Take Out C	Approx. Wt. Ea.
In./mm	In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lb./kg
	11/2	15/8	15/8	15/8	1 ⁵ /16	0.477
	40	41.3	41.3	41.3	23.8	.022
	2	15/8	15/8	15/8	15/16	0.477
	50	41.3	41.3	41.3	23.8	.022
114	21/2	15/8	15/8	15/8	15/16	0.477
1 ¹ /2 x 40 x	65	41.3	41.3	41.3	23.8	.022
40 X	3 - 4	15/8	15/8	15/8	15/16	0.477
	80 - 100	41.3	41.3	41.3	23.8	.022
	4	15/8	15/8	15/8	15/16	0.477
	100	41.3	41.3	41.3	23.8	.022
	5 - 8	15/8	15/8	15/8	15/16	0.477
	125 - 200	41.3	41.3	41.3	23.8	.022
	2	13/4	21/16	2	11/16	0.857
	50	44.5	52.4	50.8	27.0	0.38
	21/2	13/4	21/16	2	11/16	0.829
	3	44.5	52.4	50.8	27.0	0.38
	3	13/4	21/16	2	11/16	0.829
	80	44.5	52.4	50.8	27.0	0.39
2 x	4	13/4	21/16	2	11/16	0.800
50 x	100	44.5	52.4	50.8	27.0	0.36
	5	13/4	21/16	2	11/16	0.743
	125	44.5	52.4	50.8	27.0	0.34
	6	13/4	21/16	2	11/16	0.743
	150	44.5	52.4	50.8	27.0	0.34
	8	13/4	2 ¹ /16	2	11/16	0.743
	200	44.5	52.4	50.8	27.0	0.34





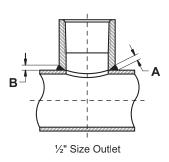


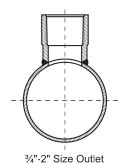


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Installation - Model MT-40 Weld Outlet

- SPF[™] Outlet Fittings are designed to be installed using only one weld pass.
- 1/2" size outlets have a heavy cross section which helps to prevent weld/heat induced distortion during
 installation.
- 3/4"-2" size outlets maintain a relative uniform wall thickness in the contoured section. Heat settings can easily
 be set to allow for full penetration welds while reducing the probability of burn through. The weld area is
 designed adequately distanced from the threads such that the welding process should not distort the threads.
- It is recommended that the weld temperature be only as hot as needed to fully penetrate the materials being
 welded. Excessive heat may cause the outlet fitting to expand excessively resulting in threads not gauging
 properly after cooling. The following chart lists the recommended amount of weld for each size outlet.





Outlet	А	В
Size	(Inches)	(Inches)
1/2	1/4	3/16
3/4	1/4	³ / ₁₆
1	1/4	³ / ₁₆
1 1/4	1/4	³ / ₁₆
1 1/2	5/16	1/4
2	5/16	1/4

Thread Assembly Instructions

THREAD INSPECTION

A. Prior to installing a threaded branch pipe or nipple into a MT-40 outlet fitting, inspect the thread of the outlet and the nipple to insure that:

- 1) No dirt or weld spatter is in the threads.
- 2) No burn through has damaged the threads.
- 3) Thread length is correct.
- B. Clean as needed.

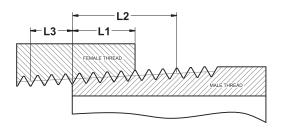
APPLICA TION OF PIPE SEALANT

A. Use a pipe sealant that is fast drying, sets-up semi-hard and is vibration resistant. For outlets 1/2" through 1", an anaerobic pipe sealant is recommended.

B. Thread tape containing Teflon* may also be used.

TIGHTENING OF BRANCH PIPE

A. For outlet sizes through 2", wrench tighten up to three (3) full turns past handtight.



NPT TAPERED PIPE THREADS ANSI/ASME B1.20.1 Length of Effective Threads

Drop Nipple or Outlet Size	L1 Dim. Hand Tight in./thrds.	L3 Dim. Wrench Tight in./thrds.	Total L1 + L3 Length in./thrds.	L2 Dim. Effective Threads in./thrds.
1/2"	0.320/4.48	0.214/3.00	0.534/7.48	0.534/7.47
3/4"	0.339/4.75	0.214/3.00	0.553/7.75	0.546/7.64
1"	0.400/4.60	0.261/3.00	0.661/7.60	0.683/7.85
1-1/4"	0.420/4.83	0.261/3.00	0.681/7.83	0.707/8.13
1-1/2"	0.420/4.83	0.261/3.00	0.681/7.83	0.724/8.32
2"	0.436/5.01	0.261/3.00	0.697/8.01	0.757/8.70



^{*}Teflon is a registered trademark of DuPont.