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201 Bethel Ave Aston, PA 19014-3443 (800) PENN-USA Fax: (610) 497-3325

salespa@pennusa.com

315 North Wayside Drive Houston, TX 77020-7514 (800) PENN-USA Fax: (713) 679-7920

salestx@pennusa.com

WWW.PENNUSA.COM

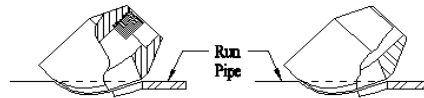
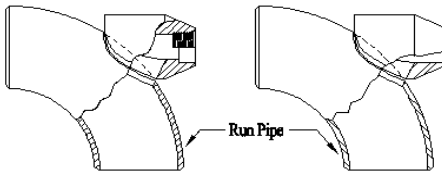
JOT- 17

CARBON OUTLETS

PENN FORGED CARBON STEEL OUTLETS

ASTM A105/ASME SA105 -- MSS SP 97 -- ASME B31.1 -- ASME B16.11 -- ASME B16.9

JANUARY 5, 2026

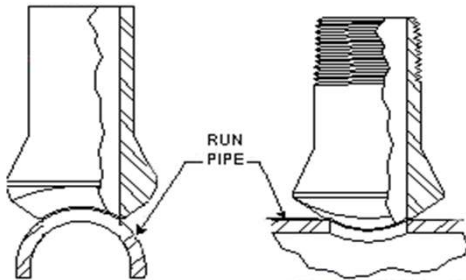


LONG RADIUS 90 DEGREE ELBOW CONNECTIONS

OUTLET SIZE	3000# THREAD	3000# SOCKET	6000# THREAD	6000# SOCKET	STD/XS B-W
1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
3/8	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1/2	74.08	111.44	161.51	173.43	147.87
3/4	87.81	113.52	177.34	190.60	174.48
1	97.09	120.79	209.06	234.89	190.32
1-1/4	200.61	236.17	269.22	279.33	266.82
1-1/2	214.86	254.18	282.79	314.69	311.04
2	214.64	283.21	AVAIL	AVAIL	355.15
2-1/2	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
3	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL

Short radius available POA

Size on Size POA



LATERAL CONNECTIONS

OUTLET SIZE	3000# THREAD	3000# SOCKET	6000# THREAD	6000# SOCKET	STD/XS B-W
1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
3/8	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1/2	219.18	AVAIL	AVAIL	AVAIL	AVAIL
3/4	223.34	AVAIL	AVAIL	AVAIL	AVAIL
1	239.36	AVAIL	AVAIL	AVAIL	AVAIL
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	434.22	AVAIL	AVAIL	AVAIL	AVAIL
2	829.41	AVAIL	AVAIL	AVAIL	AVAIL
2-1/2	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
3	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL

NIPPLE CONNECTIONS 3 1/2" LONG *

OUTLET SIZE	EXTRA STRONG PLAIN END	XXS/S160 PLAIN END	EXTRA STRONG THREADED	XXS/S160 THREADED
1/2	255.74	317.72	299.38	317.72
3/4	286.07	370.77	444.23	424.34
1	391.03	524.29	481.05	577.22
1-1/4	631.84	614.18	692.87	746.04
1-1/2	730.80	798.50	694.68	809.90
2	738.16	827.95	724.79	985.85

*Other lengths including 6-1/2 long and higher available POA

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Penn Machine
Since 1931

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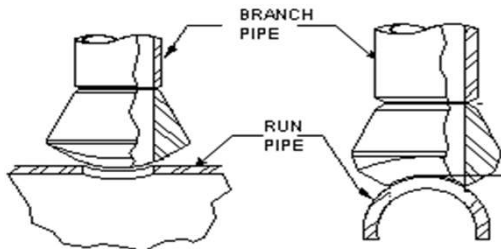
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THREAD & SOCKET CONNECTIONS

OUTLET SIZE	3000# THREAD	6000# THREAD	3000# SOCKET	6000# SOCKET
1/8	AVAIL	AVAIL	AVAIL	AVAIL
1/4	AVAIL	AVAIL	AVAIL	AVAIL
3/8	AVAIL	AVAIL	AVAIL	AVAIL
1/2	20.53	37.58	25.46	44.95
3/4	23.64	41.22	25.83	47.80
1	27.55	51.10	28.63	60.69
1-1/4	43.67	AVAIL	47.83	283.88
1-1/2	43.67	239.25	47.83	233.53
2	49.72	267.39	54.36	281.75
2-1/2	166.78	AVAIL	238.18	AVAIL
3	202.25	AVAIL	321.61	AVAIL
4	379.09	AVAIL	476.75	AVAIL

BUTT-WELD CONNECTIONS

OUTLET SIZE	STANDARD BUTT-WELD	EXTRA STRONG BUTT-WELD	XXS BUTT-WELD	SCHEDULE 160 BUTT-WELD
1/8	AVAIL	AVAIL	AVAIL	AVAIL
1/4	46.37	AVAIL	AVAIL	AVAIL
3/8	46.37	AVAIL	AVAIL	AVAIL
1/2	42.49	49.70	220.14	220.14
3/4	44.82	50.96	224.93	224.93
1	46.84	53.14	236.42	236.42
1-1/4	60.71	AVAIL	AVAIL	AVAIL
1-1/2	55.66	67.76	317.28	317.28
2	56.15	70.06	358.47	358.47
2-1/2	128.56	177.32	AVAIL	AVAIL
3	140.70	154.45	571.28	571.28
4	177.80	196.32	1021.94	1021.94
5	438.76	679.98	AVAIL	AVAIL
6	512.89	825.75	AVAIL	AVAIL
8	980.04	1502.72	AVAIL	AVAIL
10	1411.68	AVAIL	AVAIL	AVAIL
12	2681.31	AVAIL	AVAIL	AVAIL
14	AVAIL	AVAIL	AVAIL	AVAIL
16	AVAIL	AVAIL	AVAIL	AVAIL
18	AVAIL	AVAIL	AVAIL	AVAIL
20	AVAIL	AVAIL	AVAIL	AVAIL
24	AVAIL	AVAIL	AVAIL	AVAIL

All flat and size on size outlets are POA

Header sizes larger than 24" POA

F.O.B. - Factory Full Freight allowed on greater than 1000 lbs

All prices in U.S. Dollars

9,000 class and 10,000 class outlets are POA

Larger size butt weld connections available to 66 NPS

All other grades are available, please consult factory.

For run consolidations see WWW.PENNUSA.COM (catalog)

MTR \$5.00 per line or free of charge at WWW.PENNUSA.COM

Minimum order \$50.00 (exclusive of test reports and /or freight).

A \$7.00 material handling fee will be applied to all non-motor freight shipments.

