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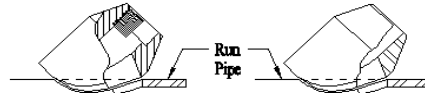
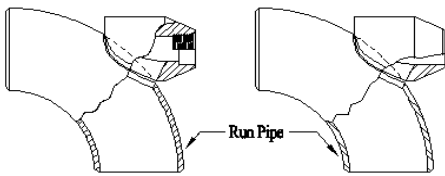
JOT- 16

CARBON OUTLETS

PENN FORGED CARBON STEEL OUTLETS

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

MAY 2, 2022



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	55.25	83.12	120.46	129.35	110.29
3/4	65.49	84.67	132.26	142.15	130.13
1	72.41	90.09	155.93	175.19	141.94
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	160.25	189.57	210.91	234.71	231.98
2	180.22	211.22	AVAIL	AVAIL	264.88
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

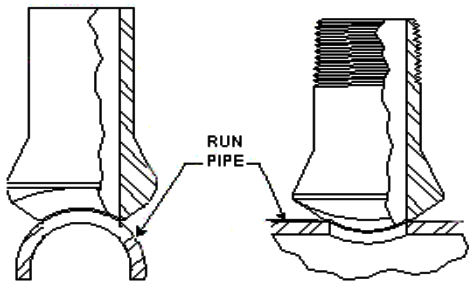
LATERAL CONNECTIONS

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	163.47	AVAIL	AVAIL	AVAIL	AVAIL
3/4	166.57	AVAIL	AVAIL	AVAIL	AVAIL
1	178.52	AVAIL	AVAIL	AVAIL	AVAIL
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	323.85	AVAIL	AVAIL	AVAIL	AVAIL
2	618.60	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	190.74	236.96	223.29	236.96
3/4	213.36	276.53	331.32	359.89
1	291.64	391.03	358.78	430.51
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	545.05	595.54	518.11	604.04
2	550.54	617.51	553.99	735.27

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



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