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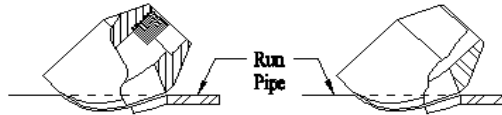
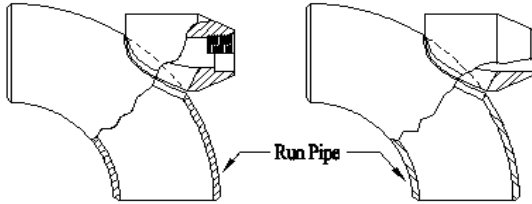
**JOT- 14**

**CARBON OUTLETS**

**PENN FORGED CARBON STEEL OUTLETS**

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

**OCTOBER 15 , 2018**



**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	43.68	65.70	95.23	102.25	87.18
3/4	51.77	66.93	104.56	112.37	102.87
1	57.24	71.22	123.26	138.49	112.21
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	126.68	149.86	166.73	185.54	183.38
2	142.47	166.97	AVAIL	AVAIL	209.39
2-1/2	AVAIL	AVAIL	AVAIL	AVAIL	463.25
3	AVAIL	AVAIL	AVAIL	AVAIL	680.59
4	AVAIL	AVAIL	AVAIL	AVAIL	912.51

Short radius available POA

Size on Size POA

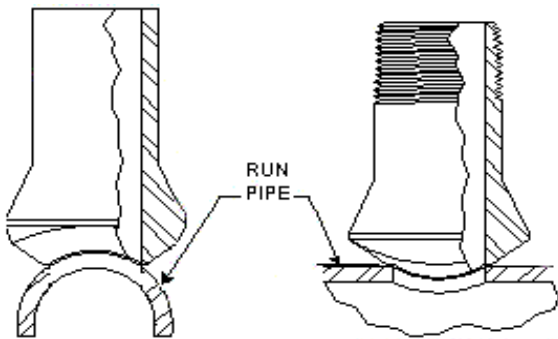
**LATERAL CONNECTIONS**

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	129.23	AVAIL	AVAIL	AVAIL	AVAIL
3/4	131.68	AVAIL	AVAIL	AVAIL	AVAIL
1	141.12	AVAIL	AVAIL	AVAIL	AVAIL
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	256.01	AVAIL	AVAIL	AVAIL	AVAIL
2	489.01	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	150.78	187.32	176.51	187.32
3/4	168.66	218.60	261.91	250.18
1	230.55	309.11	283.62	340.32
1-1/4	AVAIL	AVAIL	AVAIL	AVAIL
1-1/2	430.87	470.78	409.47	477.50
2	435.21	488.15	437.94	581.24

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



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