

## CHROME MOLY OUTLETS

F 11

F 22

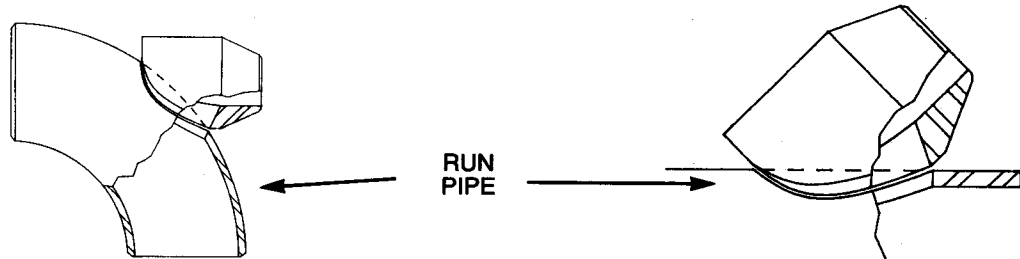
F 5

F 9

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COT-1 OCTOBER 1, 1993

PENN FORGED CHROME MOLY OUTLETS  
MSS-SP-97 ASTM A-182/ASME SA-182 ASME B 16.11 ANSI B16.9

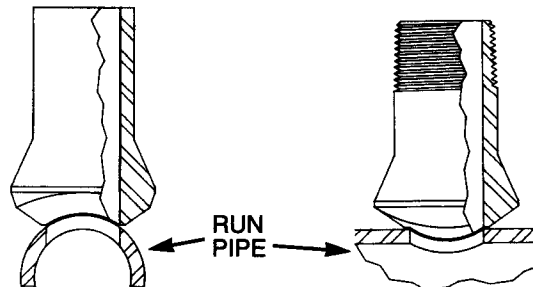


### LONG RADIUS ELBOW\* AND 45° LATERAL CONNECTIONS

OUTLET SIZE	F11		F22		F5		F9	
	3M SW TD BUTTWELD	6M SW TD	3M SW TD BUTTWELD	6M SW TD	3M SW TD BUTTWELD	6M SW TD	3M SW TD BUTTWELD	6M SW TD
1/4	60.46	88.58	63.63	93.26	82.31	102.12	97.26	135.88
3/8	60.46	88.58	63.63	93.26	82.31	102.12	97.26	135.88
1/2	60.46	88.58	63.63	93.26	82.31	102.12	97.26	135.88
3/4	88.58	110.71	93.26	116.52	102.12	127.51	135.88	164.18
1	110.71	125.51	116.52	132.12	127.51	150.77	164.18	186.12
1 1/4	125.51	169.54	132.12	178.46	150.77	203.85	186.12	238.62
1 1/2	169.54	214.55	178.46	225.85	203.85	247.69	238.62	303.05
2	214.55	416.92	225.85	438.86	247.69	480.58	303.05	518.86

\*Short radius available-POA

2 1/2" AND UP - POA



### NIPPLE CONNECTIONS 3 1/2" LONG\* 3M & 6M PLAIN END or THREADED

OUTLET SIZE	F11	F22	F5	F9
1/2	70.68	74.40	100.05	115.02
3/4	92.65	97.51	114.62	131.82
1	104.12	109.60	131.54	151.26
1 1/4	131.54	138.46	165.38	190.18
1 1/2	156.15	164.37	198.46	228.25
2	200.95	211.54	246.15	283.08

\*Other lengths available - POA

2 1/2" AND UP - POA

NOTES: Larger sizes, heavy wall, specials and other grades available. Call for pricing and availability.