

PRESSURE RATINGS FOR PLASTIC

PIPE & FITTINGS							TEMPERATURE CORRECTION FACTORS				
MAXIMUM OPERATING PRESSURE (PSI) AT 75 F											
NOMINAL PIPE SIZE	SCH 40 CPVC & PVC	SCH 80 CPVC & PVC		SCH 80 POLY- PROPYLENE	SCH 80 PVDF		OPERATING TEMP (F)	FACTORS			
	Socket End	Socket End	Threaded End	Thermo-Seal Joint**	Thermo-Seal Joint	Threaded End		PVC	CPVC	PP	PVDF
							70	1.00	1.00	1.00	1.00
							80	0.90	0.96	0.97	0.95
							90	0.75	0.92	0.91	0.87
1/2"	600	850	420	410	580	290	100	0.62	0.85	0.85	0.80
3/4"	480	690	340	330	470	235	110	0.50	0.77	0.80	0.75
1"	450	630	320	310	430	215	115	0.45	0.74	0.77	0.71
1 1/4"	370	520	260	_____	_____	_____	120	0.40	0.70	0.75	0.68
1 1/2"	330	471	240	230	320	160	125	0.35	0.66	0.71	0.66
2"	280	400	200	200	275	135	130	0.30	0.62	0.68	0.62
2 1/2"	300	425	210***	185	_____	_____	140	0.22	0.55	0.65	0.58
3"	260	375	190***	185	_____	_____	150	N.R.	0.47	0.57	0.52
4"	220	324	160***	160	_____	_____	160	N.R.	0.40	0.50	0.49
6"	180	280	N.R.	N.R.	_____	_____	170	N.R.	0.32	0.26	0.45
8"	160	250	N.R.	_____	_____	_____	180	N.R.	0.25	*	0.42
10"	140	230	N.R.	_____	_____	_____	200	N.R.	0.18	N.R.	0.33
12"	130	230	N.R.	_____	_____	_____	210	N.R.	0.15	N.R.	0.33
							240	N.R.	N.R.	N.R.	0.25
							280	N.R.	N.R.	N.R.	0.18

*Based on water service, for more severe service, and additional correction factor may be required.

N.R. - Not Recommended

**Threaded Polypropylene not recommended for pressure service.

***For threaded joints.

N.R. - Not Recommended

EXAMPLES:

1. A. Find pipesize, pipe type and pressure rating in table on left - 3", PVC, Schedule 80, Socket End has rating of 375 PSI.
 B. Select operating temperature and pipe type from table on right - PVC at 125 F = Correction Factor of 0.35.
 C. 375 PSI rating x 0.35 = 131.25 PSI Working Pressure at 125 F.

2. A. 3" CPVC Shedule 80 Pressure Rating = 375 PSI (Same as for PVC).
 B. 125 F Operating Temperature for CPVC pipe = Correction Factor of 0.66.
 C. 375 PSI Rating x 0.66 = 247.5 Working Pressure at 125 F.