



PRESSURE PIPES

PVC-U / PE 100 / PP-H

PLASTIC
PRESSURE PIPES
FOR HIGH
DEMANDING
INDUSTRIAL, BUILDING
AND INFRASTRUCTURE
APPLICATIONS.

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THERMOPLASTICS FOR ANY APPLICATION

Plastics are split into 3 broad polymer groups according to the degree of cross linking. They are distinguished into thermoplastics, thermosets and elastomers. Thermoplastics and thermosets are used in various applications of piping systems whereas elastomers are used as seals.

The base polymers polyethylene, polypropylene and polyvinyl Chloride of which are widely used for piping systems are characterized by longevity, high resistance to corrosion and low weight. Due to these features they are well widely used in all kinds of piping applications of construction, chemicals and water treatment industry. The variety of plastics available allows providing the most efficient solution for any challenge.

PVC-U PRESSURE PIPE POLYVINYL CHLORIDE:

PVC-U (U=unplasticized) is one of the oldest plastics. Its cost-effectiveness and simple thermo-mechanical workability makes it a good universal material.

PVC-U PROPERTIES:

- Good Rigidity with low thermal expansion.
- Good Chemical resistance to acids, alkaline solutions, alcohol, oil and petrol.

TEMPERATURE RANGE:

+0°C to +60°C.



TECHNICAL DATA

PRESSURE VARIATION ACCORDING TO TEMPERATURE

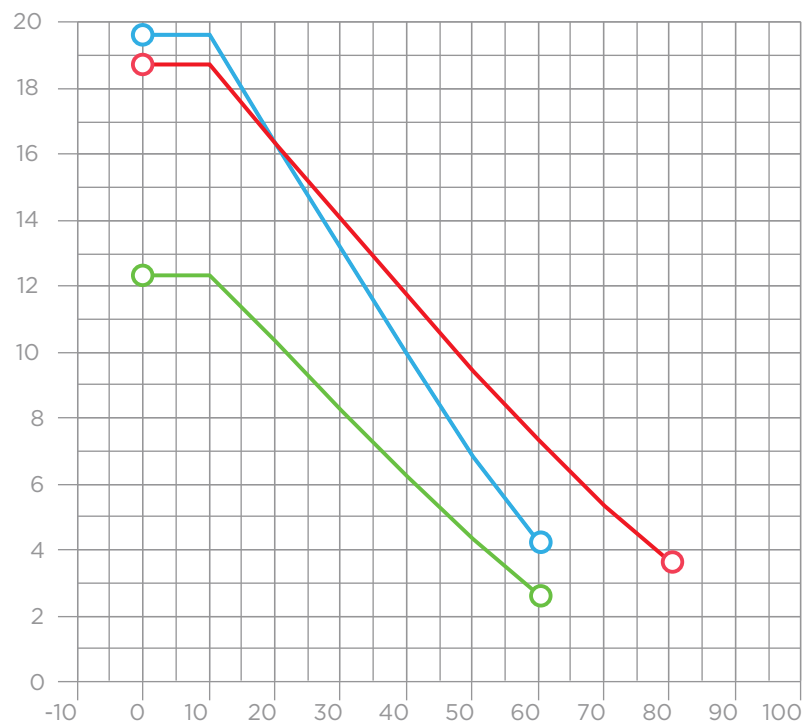
Water and non-hazardous fluids for which the material is classified as chemically resistant (life expectancy 25 years) In other cases, a reduction of the nominal pressure PN is required.



REGRESSION CURVE FOR PVC-U PIPE

Regression coefficients according to EN ISO 1452 and EN ISO 15493 for MRS (minimum required strength).

- PVC-U SCH 40
- PVC-U SCH 80
- PVC-C SCH 80

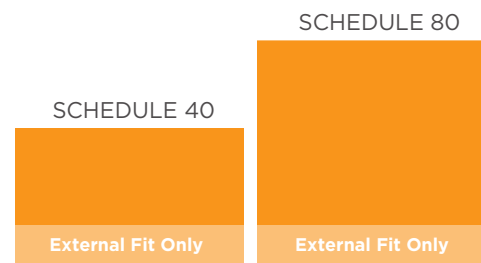


PVC-U PRESSURE PIPES

SCH -40
ASTM D 1785

PART #	Ø DIAMETER	DN	OUTSIDE DIAMETER		WALL THICKNESS		WORKING PRESSURE	
			IN	MM	IN	MM	PSI@73F	LB/FT
O207HPF0050HP	1/2"	15	0.84	21.34	0.109	2.77	600	0.21
O207HPF0075HP	3/4"	20	1.05	26.67	0.113	2.87	480	0.28
O207HPF0100HP	1"	25	1.32	33.40	0.133	3.38	450	0.41
O207HPF0125HP	1-1/4"	32	1.66	42.16	0.14	3.56	370	0.57
O207HPF0150HP	1-1/2"	40	1.90	48.26	0.145	3.68	330	0.69
O207HPF0200HP	2"	50	2.38	60.33	0.154	3.91	280	0.96
O207HPF0250HP	2-1/2"	65	2.88	73.03	0.203	5.16	300	1.46
O207HPF0300HP	3"	80	3.50	88.90	0.216	5.49	260	1.95
O207HPF0400HP	4"	100	4.50	114.30	0.237	6.02	220	2.84
O207HPF0500HP	5"	125	5.56	141.30	0.258	6.55	190	3.95
O207HPF0600HP	6"	150	6.63	168.28	0.28	7.11	180	5.49
O207HPF0800HP	8"	225	8.63	219.08	0.322	8.18	160	8.25
O207HPF1000HP	10"	280	10.75	273.05	0.365	9.27	140	12.24
O207HPF1200HP	12"	315	12.75	323.85	0.406	10.31	130	16.83
O207HPF1400HP	14"	355	14.00	355.60	0.438	11.13	130	19.96
O207HPF1600HP	16"	400	16.00	406.40	0.500	12.7	130	26.55

PVC	
TEMP (F)	FACTOR
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22



As Schedule gets higher, the pipe wall gets thicker, making the inside diameter smaller.

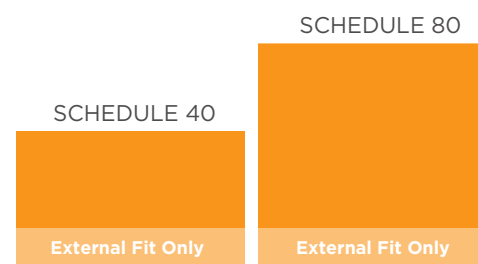


PVC-U PRESSURE PIPES

SCH - 80
ASTM D 1785

PART #	Ø DIAMETER	DN	OUTSIDE DIAMETER		WALL THICKNESS		WORKING PRESSURE	
			IN	MM	IN	MM	PSI@73F	LB/FT
O207HPF0050HP	1/2"	15	0.84	21.34	0.147	3.73	850	0.21
O207HPF0075HP	3/4"	20	1.05	26.67	0.154	3.91	690	0.28
O207HPF0100HP	1"	25	1.32	33.40	0.179	4.55	530	0.41
O207HPF0125HP	1-1/4"	32	1.66	42.16	0.191	4.85	520	0.57
O207HPF0150HP	1-1/2"	40	1.90	48.26	0.200	5.08	490	0.69
O207HPF0200HP	2"	50	2.38	60.33	0.218	5.54	370	0.96
O207HPF0250HP	2-1/2"	65	2.88	73.03	0.267	7.01	320	1.46
O207HPF0300HP	3"	80	3.50	88.90	0.300	7.62	290	1.95
O207HPF0400HP	4"	100	4.50	114.30	0.337	8.56	280	2.84
O207HPF0500HP	5"	125	5.56	141.30	0.375	9.53	250	3.95
O207HPF0600HP	6"	150	6.63	168.28	0.432	10.97	230	5.43
O207HPF0800HP	8"	225	8.63	219.08	0.500	12.70	230	8.25
O207HPF1000HP	10"	280	10.75	273.05	0.593	15.06	220	12.24
O207HPF1200HP	12"	315	12.75	323.85	0.687	17.45	220	16.83
O207HPF1400HP	14"	355	14.00	355.60	0.750	19.05	220	19.96
O207HPF1600HP	16"	400	16.00	406.40	0.843	21.41	220	26.55

PVC	
TEMP (F)	FACTOR
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22



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info@hydroplast.pk

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