

HDPE Temperature Derate Pressure Chart

HDPE PE 4710 Design Pressure (psi)								
Operating Temperature								
Application	DR	73°F	90°F	100°F	110°F	120°F	130°F	140°F
Water, Brine, Alcohols, Glycols, and Dry Natural Gas (non 49CFR192 applications)	DR 7	333	300	267	237	210	190	167
	DR 9	250	225	200	178	158	143	125
	DR 11	200	180	160	142	126	114	100
	DR 13.5	160	144	128	114	101	91	80
	DR 17	125	113	100	89	79	71	63
	DR 21	100	90	80	71	63	57	50
	DR 26	80	72	64	57	50	46	40
	DR 32.5	63	57	51	45	40	36	32
2% or Greater Concentrations of Liquid Hydrocarbons or Other Solvating/Permeating Chemicals	DR 7	167	150	133	118	105	95	83
	DR 9	125	113	100	89	79	71	63
	DR 11	100	90	80	71	63	57	50
	DR 13.5	80	72	64	57	50	46	40
	DR 17	63	56	50	44	39	36	31
	DR 21	50	45	40	36	32	29	25
	DR 26	40	36	32	28	25	23	20
	DR 32.5	32	29	25	23	20	18	16

Design pressure is approximated and can change based on other considerable factors. This chart is not intended for design pressure of 49 CFR 192 for Federally Regulated natural gas pipelines. Temperature Compensation factor based on known PE 4710 material data points at 73°F and 140°F.