



H2O Rx

ECO Valve—Pressure Derating

The maximum pressure rating for plastic ECO Valves, regardless of size, is 1034 kPa at 20°C.

As with all other thermoplastic piping components, the maximum non-shock operating pressure is related to temperature. As ambient, collective surface and fluid temperature increases, the maximum valve pressure rating decreases.

The decrease is dependent on the thermoplastic valve material.

Use the Thermoplastics Temperature Correction Factors chart below to determine maximum operating pressures when using plastic bodies on high temperature applications.

Thermoplastics Temperature Correction Factors

	°C	PVC	CPVC	PP	PVDF
Example: CPVC valve operating at 60°C	21	1.00	1.00	1.00	1.00
Factor at 60°C = .90	27	1.00	1.00	1.00	1.00
1034 kPa(g) x .90 = 930 kPa(g)	32	1.00	1.00	1.00	1.00
	38	0.90	1.00	1.00	1.00
<i>Valve is de-rated to 930 kPa(g)</i>	43	0.83	1.00	0.91	1.00
	46	0.75	1.00	0.87	1.00
	49	0.66	1.00	0.83	1.00
	52	0.58	0.97	0.79	1.00
	54	0.50	0.95	0.75	1.00
	60	0.33	0.90	0.66	1.00
	66	NR	0.80	0.60	0.97
	71	NR	0.70	0.53	0.93
	77	NR	0.60	0.43	0.86
	82	NR	0.50	0.33	0.80
	93	NR	0.33	NR	0.66

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Literature Request: Pressure Derating

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