

Pressure Regulator Selection Guide

Select diaphragm regulators in preference when the outlet pressure < 500 psig.

Select piston regulators when the outlet pressure ≥ 500 psig.

Dual-stage diaphragm regulators are recommended when the inlet pressure fluctuates frequently but no outlet pressure variation is desired.

Type	Series	Sensing Mechanism	Maximum Inlet Pressure psig	Outlet Pressure Range psig	Flow Rate Cv
Cylinder Pressure Regulators	FCR-1	Diaphragm	4500	0-500	0.06
	FCR-1S	Diaphragm	4500	0-200	0.06
	FCR-2	Piston	6000	0-2500	0.06
	FCR-1D	Dual-stage Diaphragm	4500	0-250	0.05
Line Pressure Regulators	FLR-1	Diaphragm	1500	0-250	0.14
	FLR-2	Piston	4500	0-1000	0.06 0.1 (Vent)
	FLR-3	Diaphragm	3000	0-200	1.0
	FLR-5	Diaphragm	500	0-150	1.8
	FBR-1	Piston	6000	0-1800	0.06
	HPR-10	Piston	10000	10-10000	0.06
	HPL-06	Piston	4500	0-1500	2.0
High Performance High Purity Pressure Regulators	FHR-1	Diaphragm ^①	3500	0-150	0.06 0.15 (Inlet pressure 600, 1000)
Ultra High Purity Miniature Pressure Regulators	FHR-M	Diaphragm ^①	145	0-60	0.06
Steam Heated Vaporizing Pressure Regulators	VPR	Diaphragm	3600	0-500	0.06
Pressure Control Panels ^②	FSR-1	Diaphragm	4500	0-500	0.06
	FSR-2	Piston	4500	0-2500	0.06 0.1 (Vent)
Changeover Systems ^②	FDR-1	Diaphragm	4500	0-500	0.06
	FDR-2	Piston	4500	0-2500	0.06 0.1 (Vent)
	CEPR	Diaphragm	4500	85-265	0.06
	FDR-1L	Diaphragm	4500	85-265	0.06
	DPPR	Diaphragm	4500	0-150	0.06
	FDR-1T	Diaphragm	4500	0-150	0.06
Point-of-Use Panels ^②	FPR-1	Diaphragm	1500	0-500	0.14
	FPR-1S	Diaphragm	1500	0-200	0.06
Back Pressure Regulators	BPR-1	Diaphragm	250	0-250	0.3
	BPR-2	Piston	1000	10-1000	0.3
	BPR-3	Piston	10000	5-10000	0.25

Notes: ^① Tied Diaphragm.

^② Sensing mechanism of pressure control panels, changeover systems and point-of-use panels refers to the sensing mechanism of the pressure regulator.