

Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Miniature Regulator ARJ1020F	Direct operated relieving type with backflow function	M5	0.1 to 0.7	Manifold	452
Miniature Regulator ARJ210	Direct operated relieving type	M5 to 1/8	0.2 to 0.7	Bracket Pressure gauge	454
Miniature Regulator ARJ310	Compact and lightweight Short pitch mounting is possible	M5 1/8	0.2 to 0.7	Bracket Pressure gauge	457
Pilot Operated Regulator AR425 to 925 AR435 to 935	Internal pilot operated type relieving type	1/4 to 2	0.05 to 0.83 0.02 to 0.2	Bracket Pressure gauge	462
MR Unit AMR3000 to 6000	Combined with mist separator and regulator. Filtration 0.3 μm	1/4 to 1	0.05 to 0.85	Adapter assembly Auto drain Pressure switch	465
Compact Manifold Regulator ARM5	Manifold (Common IN, Individual IN) Relieving type with backflow function	ø4 to ø8 ø5/32 to ø5/16	0.05 to 0.7 MPa	Pressure gauge	469
Compact Manifold Regulator ARM10/11	Manifold (Common IN, Individual IN) Relieving type with backflow function Compatible with digital pressure switch	ø4 to ø10 ø1/4 to ø3/8	0.05 to 0.7 MPa	Pressure gauge Digital pressure switch	493
Regulator Manifold ARM1000/2000	Manifold (Common IN, Individual IN) Direct operated relieving type with backflow function	1/8 to 1/4	0.08 to 0.7	Pressure gauge	529
Regulator Manifold ARM2500/3000	Manifold (Common IN, Individual IN) Modular type	1/4, 3/8	0.05 to 0.85	Bracket Pressure gauge	532

Precision Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Direct Operated Precision Regulator ARP20/30/40	Setting sensitivity 0.2% F.S. or less Bleed type	1/8 to 1/2	0.005 to 0.4	Bracket Pressure gauge Digital pressure switch	537
Precision Regulator IR1000/2000/3000	Tension control Contact pressure control Setting sensitivity 0.2% F.S. Repeatability ±0.5% F.S.	1/8 to 1/2	(IR1000, 2000) 0.005 to 0.2 0.005 to 0.4 0.005 to 0.8 (IR3000) 0.01 to 0.2 0.01 to 0.4 0.01 to 0.8	Bracket Pressure gauge	549
Vacuum Regulator IRV10/20	Allows adjustment of vacuum line pressure.	ø6 to ø10 ø1/4 to ø3/8	–100 to –1.3 KPa	Bracket Pressure gauge	563
Precision Regulator VEX1□3 ₀	Large capacity exhaust regulator. Setting sensitivity: 0.2% F.S. Repeatability ±0.5% F.S.	M5 1/8 to 2	0.01 to 0.7 0.05 to 0.7	Bracket Foot Pressure gauge Silencer	571

Clean Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Clean Regulator SRH	Stainless steel regulator Wetted parts (Metal): Stainless steel 316	Rc 1/8 to 1/2 URJF 1/4, 3/8	0.02 to 0.2 0.05 to 0.7	Pressure gauge	587
Precision Clean Regulator SRP	Stainless steel regulator Setting sensitivity: 0.3% F.S. Repeatability: 1% F.S.	M5 Rc 1/8	0.005 to 0.2 0.01 to 0.4	Bracket	601
Clean Regulator/ Fluororesin Type SRF	Fluororesin Type Wetted parts Body: New PFA Diaphragm: PTFE	Refer to page 610.	0.02 to 0.4		609

Series Variation

Regulators for 2 MPa/6 MPa

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Regulator for 2 MPa ARX20	Compatible with inlet supply pressure of 2.0 MPa.	1/8, 1/4	Standard 0.05 to 0.85 MPa Low pressure 0.05 to 0.3 MPa	Bracket Pressure gauge Panel nut	625
Direct Operated Regulator for 6.0 MPa (Relieving Type) VCHR	Relieving type Compatible with 6.0 MPa	G 3/4 to 1 1/2	0.5 to 5.0		630

Electro-Pneumatic Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Compact Electro-Pneumatic Regulator ITV0000	Realizes space savings and reduction of weight for manifold use.	For single unit ø4 For manifolds ø6	ITV001□: 0.001 to 0.1 MPa ITV003□: 0.001 to 0.5 MPa ITV005□: 0.001 to 0.9 MPa ITV009□: -1 to –100 KPa	Bracket Cable connectors	639
Electro-Pneumatic Regulator ITV1000/2000/3000	Stepless control of vacuum pressure in proportion to electric signals Electrostatic painting	1/4 to 1/2	0.005 to 0.1 0.005 to 0.5 0.005 to 0.9	Bracket	651
Electronic Vacuum Regulator ITV209□	Stepless control of vacuum pressure in proportion to electric signals	1/4	–1.3 to –80 kPa		669
Controller for Electro-Pneumatic Regulator IC	Converts digital input signal into analog output signal			Protective cover	675

Electro-Pneumatic Proportional Valves

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Compact Proportional Solenoid Valve PVQ	Direct operated poppet Repeatability: 3% or less Hysteresis: 10% or less	M5 1/8		Bracket	683
Electro-Pneumatic Proportional Valve VEF2000/3000 VEP2000/3000	Stepless control of air flow or pressure by use of electric signals Press-die cushions Pressure control of welding machine and low pressure casting Multi-stage speed control of air cylinder and rotation control of air motor	1/4 to 3/4		Dedicated power amplifier	697
5 Port Electro-Pneumatic Proportional Valve VER2000/4000	Stepless control of cylinder and applied pressure Applicable cylinder ø25 to ø125 Available for exhaust throttle and B port pressure regulation.	1/4 to 3/4	0.1 to 0.9	Dedicated power amplifier	703
Power Amplifier for Electro- Pneumatic Proportional Valve VEA	Dedicated amplifier for an electro-pneumatic proportional valve				710
E-P HYREG® Series VY2	Stepless control of pressure by use of electric signals Thrust control of cylinder Flow control of nozzle Pressure control of tank	M5 to 2	0.05 to supply pressure	Bracket Pressure gauge Silencer	713

Booster Regulators/Others

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Booster Regulator VBA	Can increase the factory air a maximum of 200 %, power supply not required.	1/4 to 1/2	0.2 to 2.0 (VBA111□) 0.2 to 1.0 (VBA20A/40A)	Pressure gauge Silencer	737
Air Tank VBAT	Compact air tank that can be directly connected with a regulator.	3/8 to 3/4		Safety valve Valve for drain	737
Pressure Control Valve AP100	Releases pressure over the set range into an atmosphere and constantly maintains the pressure in a pipe.	1/8, 1/4	0.05 to 0.69	Bracket	758