Series Variation

Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
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Miniature Regulator —— ARJ1020F	Direct operated relieving type with backflow function	— M5 ———	— 0.1 to 0.7 —	— Manifold —	952
Miniature Regulator —— ARJ210	Direct operated relieving type	— M5 to 1/8 ——	— 0.2 to 0.7 —	Bracket Pressure gauge	954
Miniature Regulator —— ARJ310	Compact and lightweight Short pitch mounting is possible	— M5 ——— 1/8	— 0.2 to 0.7 —	Bracket Pressure gauge	—— 957
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	962
Compact Regulator —— 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	965
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 	970
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	—— 97 5
Compact Manifold ——— Regulator ARM10/11	Manifold (Common IN, Individual IN) Relieving type with backflow function Compatible with digital pressure sv	ø1/4 to ø3/8	— 0.05 to 0.7 MPa ——	Pressure gauge Digital pressure switch	—— 999 999
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	1035
Regulator Manifold ——— ARM2500/3000	Manifold (Common IN, Individual IN) Modular type	— 1/4, 3/8 ———	- 0.05 to 0.85	Bracket Pressure gauge	1038

Precision Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Direct Operated — Precision Regulator ARP20/30/40	Setting sensitivity O.2% F.S. or less Bleed type	- 1/8 to 1/2	- 0.005 to 0.4	 Bracket Pressure gauge Digital pressure switch 	1043
Regulator ———— IR1200-A/2200-A/3200-A	 Air consumption: Bleed air "0" High flow rate: Up to approx. twice (Compared to the current SMC product) Lightweight: Reduced by up to approx. 2 (Compared to the current SMC product) Repeatability: ±1% (Full span) 		- 0.02 to 0.2 0.02 to 0.4 0.02 to 0.8	 Bracket Hexagon panel nut Pressure gauge Digital pressure switch 	1055
Precision Regulator IR1000-A/2000-A/3000-A	Air consumption: Reduced by up to approx. 90% — (Compared to the current SMC product) High flow rate: Up to approx. Nwice (Compared to the current SMC product) Lightweight: Reduced by up to approx. 27% (Compared to the current SMC product) Sensitivity. 02% (Full span) Repeatability: ±0.5% (Full span)	- 1/8 to 1/2	- (IR1000-A, 2000-A) - 0.005 to 0.2 0.01 to 0.4 0.01 to 0.8 (IR3000-A) 0.01 to 0.2 0.01 to 0.4 0.01 to 0.4 0.01 to 0.8	Bracket Hexagon panel nut Pressure gauge Digital pressure switch	1075
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 0.4 0.01 to 0.8	– Bracket – Pressure gauge	1095
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 	
Precision Regulator ——— VEX1□333	 Large capacity exhaust regulator. Setting sensitivity: 0.2% F.S. Receatability ±0.5% F.S. 	- M5	- 0.01 to 0.7 0.05 to 0.7	Bracket Foot Pressure gauge Silencer	1128
950	· · · · · · · · · · · · · · · · · · ·	SMC			

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Clean Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Clean Regulator ————————————————————————————————————	- 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	- Pressure gauge	— 1129
Precision Clean Regulator — SRP	- Stainless steel regulator	- M5	0.005 to 0.2	- Bracket	
Clean Regulator/ Fluororesin Type SRF	Fluororesin Type Wetted parts Body: New PFA Diaphragm: PTFE	- Refer to page 610.	- 0.02 to 0.4		1151

Electro-Pneumatic Regulators

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Compact Electro-Pneumatic Regulator	Realizes space savings and reduction of weight for manifold use.	For single unit Ø4, Ø5/32" — For manifolds Ø6 (SUP], EXH3), Ø4 (OUT2), Ø1/4" (SUP], EXH3), Ø5/32" (OUT2)	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	— 1174
Electro-Pneumatic Regulator – ITV1000/2000/3000	Stepless control of vacuum pressure — in proportion to electric signals Electrostatic painting	1/8 to 1/2	0.005 to 0.1	Bracket Cable connectors	— 1182
Electronic Vacuum Regulator – ITV209	Stepless control of vacuum pressure - in proportion to electric signals	1/4	-1.3 to -80 kPa	Bracket Cable connectors	
Controller for Electro-Pneumatic Regulator – \mathbf{IC}	Converts digital input signal ———— into analog output signal			Protective cover	
3.0 MPa Maximum Supply Pressure — High Pressure Electro-Pneumatic Regulator ITVH	Maximum supply pressure: 3.0 MPa —	1/4, 3/8	0.2 to 2.0	Bracket — Cable connectors	1237
5.0 MPa Maximum Supply Pressure —— High Pressure Electro-Pneumatic Regulator	Maximum suppply pressure: 5.0 MPa — Laser beam machine, etc.	3/8	0.01 to 3.0	Bracket — Cable connectors	

ITVX

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	1257
E-P HYREG [®] VY1	Stepless control of pressure	— M5 to 2 ———	- 0.05 to	Bracket Pressure gauge Silencer	1270

Booster Regulators/Others

Series	Applications/Features	Port size	Set pressure (MPa)	Option	Page
Booster Regulator ———— VBA	Can increase the factory air a maximum	1/4 to 1/2	- 0.2 to 2.0 (VBA111□)	Pressure gauge	1274
Air Tank ————————————————————————————————————	Compact air tank that can be directly connected with a regulator.	- 3/8 to 3/4		Safety valve Valve for drain	1288
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	1307