

# Pressure Control Equipment

## Regulators

Series	Application/Characteristics	Port size	Set pressure (MPa)	Option	Page
<b>Miniature regulator ARJ1020F</b>	Direct operated relieving type Back flow function	M5	0.1 to 0.7	Manifold	14-4-4
<b>Miniature regulator ARJ210</b>	Direct operated relieving type	M5 to 1/8	0.2 to 0.7	Bracket Pressure gauge	14-4-6
<b>Miniature regulator ARJ310</b>	Small, compact Allows smaller mounting pitch	M5 1/8	0.2 to 0.7	Bracket Pressure gauge	14-4-11
<b>Pilot operated regulator AR425-925 AR435-935</b>	Internal pilot type Relieving type	1/4 to 2	0.05 to 0.83 0.02 to 0.2	Bracket Pressure gauge	14-4-15
<b>Compact manifold regulator ARM10/11</b>	Manifold		0.05 to 0.7		14-4-19
<b>Manifold regulator ARM1000/2000</b>	Manifold (Common IN/Individual IN) Direct operated relieving type Back flow function	1/8	0.08 to 0.7	Pressure gauge	14-4-52
<b>Manifold regulator ARM2500/3000</b>	Manifold (Common IN/Individual IN) Modular type	1/4, 3/8	0.05 to 0.85	Bracket Pressure gauge	14-4-55
<b>Direct operated precision regulator ARP3000</b>	Setting sensitivity: 0.001 MPa Direct operated relieving type	1/4	0.005 to 0.3	Bracket Pressure gauge	14-4-59
<b>Regulator for 2 MPa ARX20</b>	Compatible with inlet supply pressure of 2.0 MPa	1/8, 1/4	Standard type 0.05 to 0.85 MPa Low pressure type 0.05 to 0.3 MPa	Bracket Pressure gauge Panel nut	14-4-61
<b>Precision regulator IR1000/2000/3000</b>	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	14-5-1
<b>Vacuum regulator IRV1000/2000/3000</b>	Able to adjust the pressure for vacuum line	1/8 to 1/2	-100 to -1.3 kPa	Bracket Pressure gauge	14-5-15
<b>Precision regulator VEX1□3□</b>	Large capacity exhaust regulators 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	14-6-1

## Combination

Series	Application/Characteristics	Port size	Set pressure (MPa)	Option	Page
<b>MR unit</b> <b>AMR3000-6000</b>	Mist separator and regulator integrated Filtration: 0.3 μm	1/4 to 1	0.05 to 0.85	Adapter assembly Auto-drain Pressure gauge	14-7-1

## New Function/Multi-application Valves

Series	Application/Characteristics	Port size	Set pressure (MPa)	Option	Page
<b>Compact electro-pneumatic regulator</b> <b>ITV0000</b>	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	14-8-3
<b>Electro-pneumatic regulator</b> <b>ITV1000/2000/3000</b>	Pressure controlled steplessly by electric signals Electrostatic painting	1/8 to 1/2	0.005 to 0.1 0.005 to 0.5 0.005 to 0.9	Bracket	14-8-14
<b>Electronic vacuum regulator</b> <b>ITV209□</b>	Pressure controlled steplessly by electric signals	1/4	-1.3 to -80 kPa		14-8-30
<b>Controller for electro-pneumatic regulator</b> <b>IC</b>	Converts digital input signal into analog output signal	M5 female (Built-in sensor type)		Panel mount adapter set Display protective cover	14-8-35
<b>Booster regulator</b> <b>VBA1110-4200</b>	Pressure increased up to 2 times the inlet pressure	1/4 to 1/2	0.2 to 2.0 (VBA1110) 0.2 to 1.0 (VBA4200)	Pressure gauge Silencer Air tank	14-9-1
<b>Electro-pneumatic proportional valve</b> <b>VEF2000/3000</b> <b>VEP2000/3000</b>	Pressure and flow rate controlled steplessly by electric signals Pressure control for press die cushion, solvent bridge and low pressure casting Multistage speed control of air cylinders and rpm control of air motors Exclusive power amplifier	1/4 to 3/4		Dedicated power amplifier	14-9-11
<b>5 port electro-pneumatic proportional control valve</b> <b>VER2000/4000</b>	A single unit that actuates a cylinder and steplessly controls the applied pressure Applicable cylinders: ø25 to ø125 Exhaust air throttling or B port pressure reduction possible	1/4 to 3/4	0.1 to 0.9	Dedicated power amplifier	14-9-17
<b>Electro-pneumatic HYREG®</b> <b>Series VY1</b>	Pressure controlled steplessly by electric signals Cylinder thrust control Cylinder thrust control nozzle suction flow control Pressure control of the tank	M5 to 2	0.05 to supply pressure	Bracket Pressure gauge Silencer	14-10-1

F.R.L.

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# Lubrication Equipment

Series	Application	Port size	Bowl capacity (cm <sup>3</sup> )	Applicable oil viscosity (cst (40°C))	Option	Page
<b>Large flow lubricator</b> <b>AL800/900</b>	Individual lubrication	1 ¼ to 2	500 1,000	32	1,000 cm <sup>3</sup> tank Float switch	14-13-3
<b>Auto feed lube</b> <b>ALF400 to 900</b>	With auto lubrication function	¼ to 2	2*(Note)	32	Bracket	14-13-6
<b>Auto feed tank</b> <b>ALT-5/-9</b>	With inlet pressure insulation function	AIR ¼ OIL ⅜	5,000 9,000	32	Float switch	14-13-6
<b>DP lube</b> <b>ALD600/900</b> <b>DP lube unit</b> <b>ALDU600/900</b>	Centralized multiple lubrication	¾ to 2	2,000 5,000	32	Bracket Bracket panel (ALDU) Float switch	14-13-11
<b>Booster lube</b> <b>ALB900</b>	Centralized multiple lubrication No pressure differential type	1, 2, 3	5,000	32	Float switch	14-13-15

\*1 Reference) AL1000 = 7 cm<sup>3</sup>, AL2000 = 25 cm<sup>3</sup>, AL3000 = 50 cm<sup>3</sup>

\*2 Note) Refer to the bowl capacity of auto feed tank.