






Series variation

Total air control systems (Total Air system)





Detector

Model	Product appearance	Valve	Connection	Operation												Effective cross-sectional area (mm ²)	Page			
				Pin plunger	Roller lever	One way roller lever	Roller plunger	Straight plunger	Toggle switch	Pushbutton valve	Mushroom valve	Select valve	Select valve (2 stations)	Roller arm	Adjusting roller lever			Rod lever	Wire lever	Spring lever
Compact mechanical valve (MS)		Normally closed	Rc1/8	●	●	●	●	●	●	●	●	●	●						2.5	1612
			ø4 push-in fitting	●	●	●	●	●	●	●	●	●							1.6	
		Normally open	Rc1/8	●	-	-	-	-	-	-	-	-	-						2.5	
			ø4 push-in fitting	●	-	-	-	-	-	-	-	-	-						1.6	
Medium mechanical valve (MM)		Normally closed	Rc1/8	●	●									●	●	●	●	●	2.5	1626
			ø4 push-in fitting	●	●									●	●	●	●	●	1.6	
		Normally open	Rc1/8	●	-									-	-	-	-	-	2.5	
			ø4 push-in fitting	●	-									-	-	-	-	-	1.6	
Large mechanical valve (MAVL)		Both normally closed and normally open are available by piping method.	Rc1/4	●	●									●	●	●	●	●	31	1638

indicates not available.

- indicates available, but not specified in the catalog.

Circuit device

Model	Product appearance	Port size	Applications	Page
<ul style="list-style-type: none"> ● Air timer RTD-3A 		ø4 push-in fitting	Delaying pneumatic signals for max. 30 seconds.	1644
<ul style="list-style-type: none"> ● Pressure switch PE-1 		ø4 push-in fitting	Switching electric contact by 0.2 to 0.7 MPa of air signals.	1645
<ul style="list-style-type: none"> ● Air lamp AL-R -B -Y 		ø4 push-in fitting	Confirming residual pressure and displaying operational status. (3 display colors are available; red, blue, and yellow)	1645
<ul style="list-style-type: none"> ● Compact air lamp SAL-R -B 		ø4	Confirming residual pressure and displaying operational status. (Two display colors are available: red and blue) Just insert a ø4 push-in fitting.	1646

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PresCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

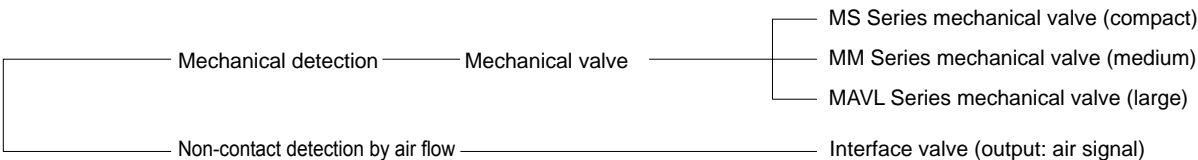
Total air systems

Detector types

Detector

A detector is used to confirm the cylinder position and the presence of material during control. A variety of TAS detectors are available to detect objects of different shapes and states. Optimum detection is ensured by selecting these devices.

Detector types



Series	Features	Applications	Page
MS Series mechanical valve	Equivalent to electrical micro switch Compact and most commonly used.	Confirmation of cylinder, machine position and manual operation	1612
MM Series mechanical valve	Equivalent to compact/vertical electrical limit switch, great mechanical actuator strength. Actuators, such as rod lever and spring rod lever, etc., not available in the MS Series are now available. (Flow rate is the same as MS)	Confirmation of cylinder, machine, and material position	1626
MAVL Series mechanical valve	Equivalent to vertical electrical limit switch. The flow rate is large, so an ø80 cylinder can be moved directly.	Confirmation of cylinder, machine, and material position	1638