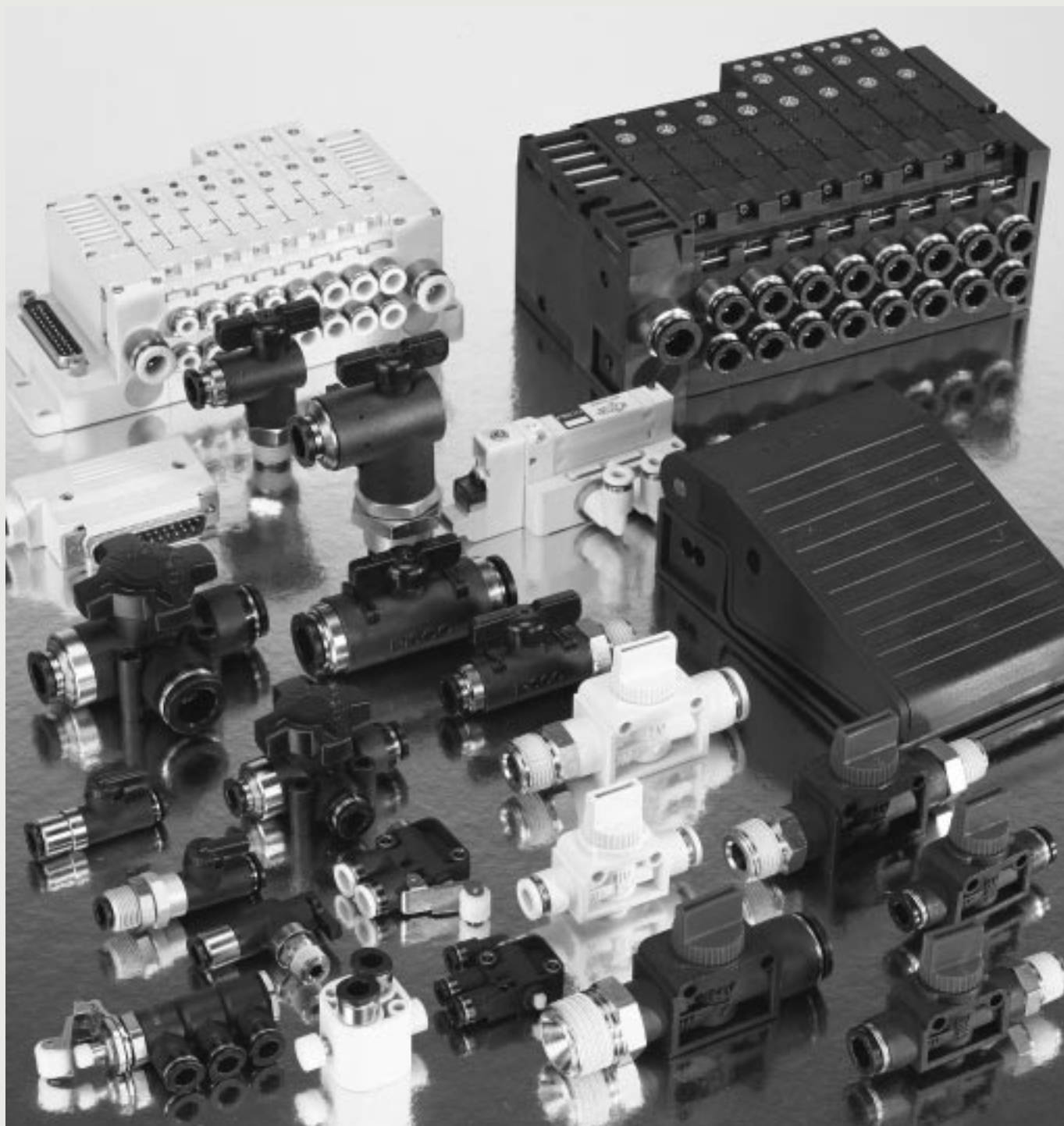


# Change Series



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# Change Series

Coming in a wide variety in tube sizes, thread sizes, and manifolds, PISCO supplies change and solenoid valves to all applications of pneumatic piping.

## Classification Index



Product Name	Fluid admitted	Service pressure range	Working vacuum	Service temperature range	Page
Change valve	Air	0~102psi (0~0.7MPa)	-29.5in. Hg (-100kpa)	32~140°F (0~60°C)	280
Hand valve	Air	0~150psi (0~0.9MPa)	-29.5in. Hg (-100kpa)	32~140°F (0~60°C)	282
Ball valve series	10 Series Air 20-60 Series Air, water (conditional)	0~102psi (0~0.7MPa) 0~150psi (0~0.9MPa)	-29.5in. Hg (-100kpa)	32~140°F (0~60°C)	286
Mechanical valve	Air	0~102psi (0~0.7MPa)	—	32~140°F (0~60°C)	292
Solenoid valve 11-21 series	Air	29~102psi (0.2~0.7MPa)	—	41~122°F (5~50°C)	300
Solenoid valve 10-20 series	Air	29~102psi (0.2~0.7MPa)	—	41~122°F (5~50°C)	312
Solenoid valve Dual Pressure	Air	29~102psi (0.2~0.7MPa)	—	41~122°F (5~50°C)	342
Vacuum generator for SVA 10 and 20	Air	44~102psi (0.3~0.7MPa)	—	41~122°F (5~50°C)	344
Valve Manifold	Air	Single solenoid 29~102psi(0.2~0.7MPa) Double solenoid 0~116psi(0~0.8MPa)	—	41~122°F (5~50°C)	366
Sub-D connector	—	—	—	—	372

# Common Safety Instructions for Change Series Valves

Be sure to read the following instructions before selecting and using the PISCO devices. Also read the detailed instructions for individual series.

## Warning

- 1.The Valves have their own direction of air flow. Therefore confirm the direction in the catalog and by the mark on the product before use. Mistaking the flow direction may cause injuries on the operator or damage to the equipment.
- 2.Do not operate the manually changing Valve mechanically. Such operation may damage the valve itself.
- 3.Remove drainage and dust and use clean air. Also provide an air filter on the upstream side of the valve. Impurities contained in compressed air can cause malfunction.
- 4.Do not give tension, twist or bending to the Change Series valves. Also do not drop or give excessive shocks to them. Such careless handling can inflict damage to them.

## Caution

- 1.For the handling of joints, refer to the Common Safety Instructions for Quick-Fitting joints.
- 2.Notes on installation
  - (1)For the taper pipe thread on the Hand Valve or Ball Valve, tighten with a proper tool, using the hexagonal part.
  - (2)In tightening the screw, use the tightening torque recommended in the following table. Use of a torque higher than the recommended level may damage thread or cause deformation, thus causing leaks. Use of a torque lower than the recommended level may cause loose screw and leakage.

●Table Recommended Tightening Torque

Thread Type	Thread Size	Tightening Torque
Taper pipe thread	R1/8	7~9N·m
	R1/4	12~14N·m
	R3/8	22~24N·m
	R1/2	28~30N·m

- 1.Notes on removal
  - (1)For the taper pipe thread on the Hand Valve or Ball Valve, tighten with a proper tool, using the hexagonal part.
  - (2)Remove sealant sticking to the thread on the mated equipment. The sealant left sticking may enter the peripheral equipment and cause trouble.