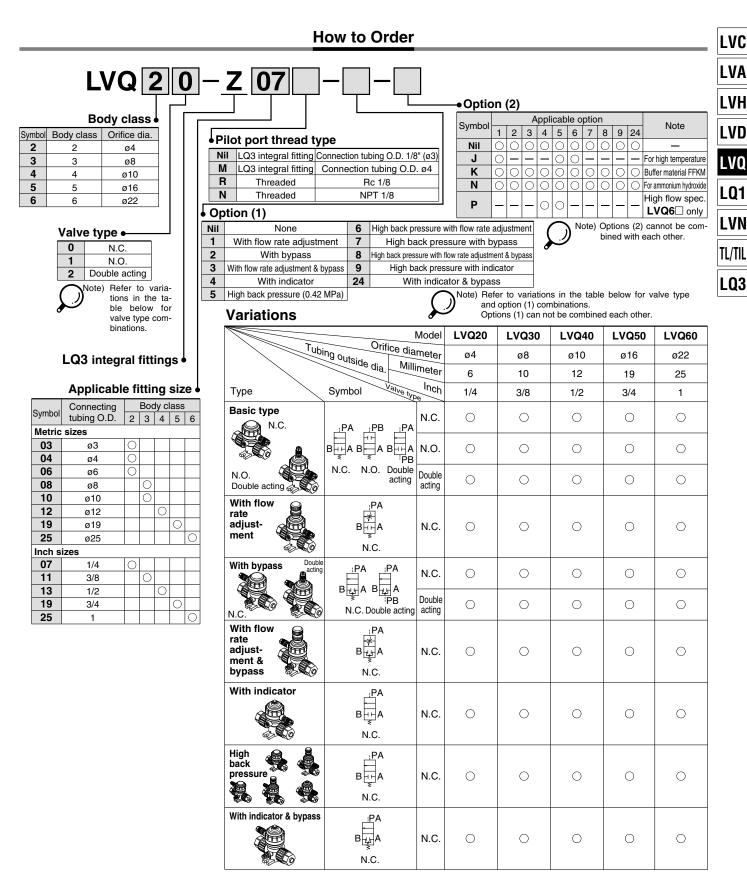
Air Operated Type Flare Integral Fitting Type (Hyper Fittings)

Series LVQ-Z





Standard Specifications

Model		LVQ20	LVQ30	LVQ40	LVQ50	LVQ60
Tubing O.D.	Metric size	6	10	12	19	25
	Inch size	1/4	3/8	1/2	3/4	1
Orifice diameter		ø4	ø8	ø10	ø16	ø22
Flow characteristics	Av x 10 ⁻⁶ m ²	8.4	31.2	45.6	120	192 (228) Note)
	Cv	0.35	1.3	1.9	5	8 (9.5) Note)
Withstand pressure (MPa)		1				
Operating	Standard	-98 kPa to 0.5 MPa			-98 kPa to 0.4 MPa	
pressure <a→b flow=""></a→b>	High temperature	-98 kPa to 0.3 MPa				
Back pressure (MPa)	Standard	0.3 or less			0.2 or less	
	High back pressure	0.42				
	High temperature	0.3 or less			0.2 or less	
Valve leakage (cm³/min)		0 (With water pressure)				
Pilot air pressure (MPa)		0.3 to 0.5 (High back pressure: 0.45 to 0.55)				
Pilot port size		1/8" (ø3), ø4, Rc 1/8, NPT 1/8				
Fluid	Standard	0 to 100				
temperature (°C)	High temperature	0 to 170				
Ambient temperature (°C)		0 to 60				
Mass (kg)		0.08	0.18	0.22	0.72	0.87

Note) () is high flow specification.

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions, and pages 585 and 586 for High Purity Chemical Valve Non-Metallic Exterior Precautions.

Piping

1. Connect tubing with special tools.

Refer to the pamphlet "High-Purity Fluoropolymer Fittings HYPER FITTING®/Flare Type Series LQ3 Fitting Procedure" (M-E06-4) for connecting tubing and special tools. (Downloadable from our web site.)



2. Tighten the nut to the end surface of the body. As a guide, refer to the proper tightening torques shown below.

Tightening torque for piping

Body class	Torque (N⋅m)			
2	1.6 to 1.8			
3	3.2 to 3.5			
4	5.0 to 5.3			
5	10.0 to 10.5			
6	22.5 to 23.0			

