

3 Port Air Operated Valve

VZA200/400 Series



Fluid	Air	
Operating pressure range (MPa)	VZA2 $\frac{1}{2}$ 2, 2 $\frac{1}{4}$	0.1 to 1.0
	VZA4 $\frac{1}{2}$ 2, 4 $\frac{1}{4}$	0.15 to 1.0
Pilot pressure range (MPa)	VZA2 $\frac{1}{2}$ 2, 2 $\frac{1}{4}$	0.1 to 1.0
	VZA4 $\frac{1}{2}$ 2, 4 $\frac{1}{4}$	0.15 to 1.0
Impact/Vibration resistance (m/s ²) (Note)	150/50	

Operating pressure $\leq$ Pilot pressure

Note) Impact resistance: No malfunction from test using drop impact tester, to axis and right angle directions of main valve, each one time when pilot signal ON and OFF.
(Value in the initial stage)

Vibration resistance: No malfunction from test with 45 to 2000 Hz one sweep, to axis and right angle direction of main valve, each one time when pilot signal ON and OFF.
(Value in the initial stage)

Model

Valve model		Type of actuation	Pilot	Port size	Flow rate characteristics ⁽²⁾						Pilot port size
					1→4/2(P→A/B)			4/2→5/3(A/B→EA/EB)			
					C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	
Body ported	VZA212-P-M5	N.C.	Body side	M5 x 0.8	0.60	0.43	0.15	0.52	0.35	0.13	M5 x 0.8
	VZA222-P-M5	N.O.	Body side	M5 x 0.8	0.60	0.43	0.15	0.52	0.35	0.13	M5 x 0.8
Base mounted (with sub-plate)	VZA214-1P-01	N.C.	Sub-plate side	Rc 1/8	1.0	0.30	0.25	0.85	0.35	0.22	M5 x 0.8
	VZA214-2P-01	N.C.	Body side	Rc 1/8	1.0	0.30	0.25	0.85	0.35	0.22	M5 x 0.8
	VZA224-1P-01	N.O.	Sub-plate side	Rc 1/8	0.90	0.25	0.21	0.85	0.35	0.22	M5 x 0.8
	VZA224-2P-01	N.O.	Body side	Rc 1/8	0.90	0.25	0.21	0.85	0.35	0.22	M5 x 0.8
Body ported	VZA412-P-01	N.C.	Body side	Rc 1/8	2.0	0.14	0.49	2.2	0.17	0.53	M5 x 0.8
	VZA422-P-01	N.O.	Body side	Rc 1/8	2.0	0.17	0.49	2.2	0.17	0.53	M5 x 0.8
Base mounted	VZA414-1P-01	N.C.	Sub-plate side	Rc 1/8	2.4	0.19	0.57	2.2	0.11	0.49	M5 x 0.8
	VZA414-1P-02			Rc 1/4							
	VZA414-2P-01	N.C.	Body side	Rc 1/8	2.4	0.19	0.57	2.2	0.11	0.49	M5 x 0.8
	VZA414-2P-02			Rc 1/4							
	VZA424-1P-01	N.O.	Sub-plate side	Rc 1/8	2.4	0.19	0.57	1.9	0.32	0.45	M5 x 0.8
	VZA424-1P-02			Rc 1/4							
	VZA424-2P-01	N.O.	Body side	Rc 1/8	2.4	0.19	0.57	1.9	0.32	0.45	M5 x 0.8
	VZA424-2P-02			Rc 1/4							

Note 1) Base mounted type model no. without sub-plate are VZA2 $\frac{1}{2}$ 4- $\frac{1}{2}$ P, VZA4 $\frac{1}{2}$ 4- $\frac{1}{2}$ P.

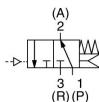
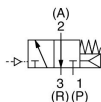
Note 2) Value at the maximum port size

Cannot be used as universal porting.

Symbol

VZA21 $\frac{1}{2}$
VZA41 $\frac{1}{2}$

VZA22 $\frac{1}{2}$
VZA42 $\frac{1}{2}$



⚠ Caution

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.