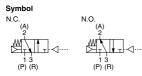
3 Port Air Operated Valve VGA342 Series





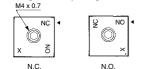
Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.

Precautions

Caution

A

1. Change of fluid passage



Please note that the pressure in the valve should be exahusted when changing the fluid passage.

Loosen the hexagon socket head cap screw M4 x 0.7. Rotate the NC/NO switching plate NO/NC with the ◀ mark on the adapter plate. However, the X symbol is not appli-cable. For piping, refer to the table below. Screw tightening torque M4: 1.4 N·m

Pipina

Fluid passage Port	Р	A	R	
N.C.	Inlet side	Outlet side	EXH side (2 port: Plug)	
N.O.	EXH side (2 port: Plug)	Outlet side	Inlet side	

Take sufficient precations and confirm safety when changing the flow path and restarting after the changes.

2. Other

M5 size hole at the left side of the adapter plate is a breathing port for spool valve. Do not plug or tighten it.

How to Order				
		SYJA		
VGA342-04 A Port size	Passage	VZA		
04 1/2 06 3/4 Nil Rc	ype A Normally closed (N.C.) B Normally open (N.O.)	VFA		
10 1 F G N NP	Τ	VFRA		
Specifications	IF	VPA4		
Operating type	Air operated type	SYJA		
Type of actuation	N.C./N.O. (Changeable)			
Return mechanism	Air + Spring	VZA		
Fluid	Air			
Operating pressure range	0.2 to 0.9 MPa	VTA		
Pilot pressure	Same as operating pressure			
Ambient temperature and operating fluid temperate	ure -10 to 50°C (No freezing)	VOA		
Lubrication	Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)	VGA		
Impact/Vibration resistance Note)	150/50 m/s ²			
	using drop impact tester, to axis and right angle directions	VPA		

How to Order

SYA

VPA3

of main valve, each one time when pilot signal ON and OFF. (Value in the initial stage) Vibration resistance: No malfunction occurs on the test with one sweep from 45 to 1000 Hz, to axis and

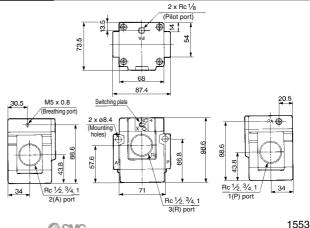
right angle directions of main valve each time when pilot signal ON and OFF. (Value in the initial stage)

Flow Rate Characteristics

Deat	Flow rate characteristics											
Port size	1→2(P→A)			2→3(A→R)		2→1(A→P) 3→2		(R→A)			
Size	C[dm3/(s·bar)]	b	Cv	C[dm3/(s·bar)]	b	Cv	C[dm3/(s·bar)]	b	Cv	C[dm3/(s·bar)]	b	Cv
1/2	26	0.38	7.0	27	0.37	7.4	27	0.36	7.3	25	0.37	6.8
3/4	38	0.30	9.8	38	0.32	9.8	40	0.22	9.8	40	0.20	9.6

Dent size	Effective area (mm ²)				
Port size	1→2(P→A)	2→3(A→R)			
1	210	235			

Dimensions

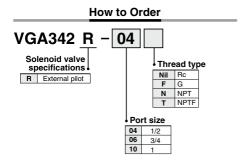


SMC Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com VGA342 series Made to Order Specifications

Please contact SMC for detailed dimensions, specifications and lead times.

Made to Order

1 External Pilot, Air Operated Valve



Specifications

Valve type	External pilot, air operated valve					
Type of actuation	Universal porting type					
Fluid	Air					
Operating	Main pressure	-101.2 kPa to 0.9 MPa				
pressure range	Pilot pressure	Equivalent to main pressure (Min. 0.2 MPa or more)				
	External pilot	Equivalent to pilot pressure				
Ambient and fluid temperature	–10 to 50°C (No freezing.)					
Weight	1.2 kg					



Dimensions

