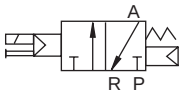
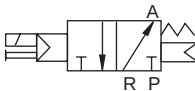
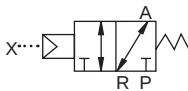
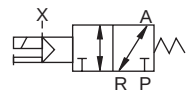


Series variation

NP/NAP/NVP Series

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/ AD
APK/ ADK
DryAir
EX- XPLNprf
XPLNprf
HVB/ HVL
S◇B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
CHB/G
MXB/G
Other valves
SWD/ MWD
DustColl
CVE/ CVSE
CCH/ CPE/D
LifeSci
Gas- Combus
Auto- Water
Outdoor
SpecFld
Custom
Ending

Series external appearance		Model No.	JIS symbol	Flow characteristics			Voltage (V)			
				C [dm ³ /(s·bar)]	b	S (mm ²)				
				*1						
Internal pilot with solenoid valve (NC/NO)	NP13/NP14	3-port	NC	P→A			100 AC 200 AC 24 DC			
					10A to 20A 15 to 35	10A to 20A 0.27 to 0.31			25A to 50A 200 to 660	
			NO	R→A					Custom made 110 AC 220 AC	
					10A to 20A 15 to 41	10A to 20A 0.21 to 0.31				
Air operated (Universal)	NAP11		NAP11		P→A					
					10A to 20A 15 to 35	10A to 20A 0.27 to 0.31	25A to 50A 200 to 660			
Pneumatic, solenoid valve(Universal)	NVP11		NVP11		P→A			100 AC 200 AC 24 DC		
					10A to 20A 15 to 35	10A to 20A 0.27 to 0.31	25A to 50A 200 to 660			
							Custom made 110 AC 220 AC			

*1: Effective cross-sectional area "S" and sonic conductance "C" are converted as $S \approx 5.0 \times C$.

	Port size of port A/P							Coil housing					Page
	Female thread							Grommet coil	DIN terminal box (Pg thread)	DIN terminal box with lamp (Pg thread)	With T type terminal box (G1/2)	T type terminal box with lamp (G1/2)	
	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1 1/4	Rc1 1/2	Rc2						
	●	●	●	●	●	●	●	●	●	●	●	●	674
	●	●	●	●	●	●	●	●	●	●	●	●	
	●	●	●	●	●	●	●						680
	●	●	●	●	●	●	●						
	●	●	●	●	●	●	●	●	●	●	●	●	684
	●	●	●	●	●	●	●	●	●	●	●	●	

Electrical connection circuit diagram

Option	Wiring circuit		Coil housing
	AC	DC	
-			Grommet coil (2C) DIN terminal box (2G) T type terminal box (3T)
With indicator lamp			DIN terminal box (2H) T type terminal box (3R)
With surge suppressor			Grommet coil (2CS, Rc1) 1/4 to Rc2 DIN terminal box (2GS) T type terminal box (3TS)
with surge suppressor and indicator lamp			DIN terminal box (2HS) T type terminal box (3RS)
Surge suppressor included			Grommet coil (2CS, Rc3/8 to Rc1)

EXA
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FGB/G
FVB
FWB/G
FHB
FLB
AB
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APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
S◇B/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
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