Series variation

EXA

FWD

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G FHB

FLB AB

AG
AP/
AD
APK/
ADK
DryAir
EXXPLNprf
XPLNprf

S & B/ NAB LAD/ NAD Water-Rela NP/NAP/ NVP

CHB/G MXB/G Other valves SWD/ MWD DustColl

Multi-fluid control direct acting 2, 3-port solenoid valve

* Refer to page 328 for dry air (-Z).

3				_					
c	No.								
5	of ports	Model	Configuration		Actuation		Air	Low vacuum [1.33 x 10 ² Pa (abs)]	
3	2-port	AB31/41/42	AB21	Single unit	NC		•		
G		AB21 AB71	AB31	-			•	•	
			AB41				•	•	
_			AB42		NO		•	•	
		OHP TO	AB71 NC Cammon quanty						
			GAB312	Manifold	NC	Common supply	•	•	
		566	GAB352	-		Individual supply	•	•	
/		A STATE OF	GAB412			Common supply	•	•	
ir		* * * *	GAB452			Individual supply	•	•	
rf			GAB422		NO	Common supply	•	•	
rf	3-port		AG31	Single unit	Universal		•	•	
/			AG41	- - -			•	•	
/			AG33		NC pressurization		•	•	
) 			AG43				•	•	
0/			AG34		NO pressurization		•	•	
			AG44				•	•	
5		Manifold	GAG31	Manifold	Universal	Common supply/ individual exhaust	•	•	
G			GAG35			Common supply separate flow	•	•	
s			GAG41			Common supply/ individual exhaust	•	•	
)		n n 3/1	GAG45			Common supply separate flow	•	•	
		Actuator	GAG33		NC proceurization	Common supply/individual	•	•	
			GAG43			exhaust	•	•	
			GAG34	Actuator	NO pressurization		•	•	
i			GAG44				•	•	
S									

SpecFld

CCH / CPE/D LifeSci Gas-Combus Auto-Water

Custom

Ending

_												
	Page	Port size				Working fluid						
		Rc1	Rc3/4	Rc1/2	Rc3/8	Rc1/4	Rc1/8	Steam	Hot water	Oil [50 mm²/s or less]	Kerosene	Water
	150					•	•		water	•		•
	154					*4	*4	•	•	•		•
	154			•*4	*4	•*4		•	•	•	•	•
					*4	*4			•		•	•
	154							•		•*1		
	168	•	•	•	*2	*2		_	_		•	•
	172				*2	*2		•	•	•	•	•
	172				*2	*2		•	•	•	•	•
	172					•		•	•	•	•	•
	172				•*2	•*2		•	•	•	•	•
	182				•*2	● ^{*2}		•	•	•	•	•
	190					● ^{*4}	● *4	•	•	•	•	•
	190				•*4	●*4		•	•	•	•	•
	208					●*4	● *4	•	•	•	•	•
	208				● ^{*4}	● ^{*4}		•	•	•	•	•
	226					● ^{*4}	•*4		•	•	•	•
	226				● *4	● *4			•	•	•	•
	198					●* ₃	● ^{*2} _{*3}	•	•	•	•	•
	198					●*2 *3	●*2 *3	•	•	•	•	•
	198				●*2 *3	●*2 *3	. 3	•	•	•	•	•
	198				●*2 *3	●*2 *3		•	•	•	•	•
	216				*3	●*3 ●*2 *3	●*2 *3	•	•	•	•	•
					*2		*3	_	_			
	216				●*2 *3	●*2 *3	_*2	•	•		•	•
	234					●*2 *3	● *2		•	•	•	•
	234				●*2 *3	●*2 *3			•	•	•	•

Refer to page 148 for details on the coil system.

*1 : 20 mm²/s for AB71 Series.

*2 : Port A: Rc1/4, port C: Rc3/8

*3 : ● indicates NO port.

*4 : Refer to each How to order column for the thread.

EXA

FWD

LifeSci Gas-Combus

Auto-Water

SpecFld

Custom

Coil selection guide

Coil housing types and selection guide

FWD

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FIR

AB

AG

AP/ AD APK/

ADK

DryAir

XPLNprf

XPLNprf

HVB/

HVL

S&B/ NAB LAD/

NAD

Water-

NP/NAP/ NVP

SNP

CHB/G

MXB/G

Other

valves

SWD/

MWD

DustColl

CVF/

CVSE

CCH /

CPE/D

LifeSci

Combus

Auto-

Water

SpecFld

Custom

Ending

Gas-

Rela

EX-

Various types are available for general purpose valve according to the application.

Refer to the structure and features to select the optimum model For direct acting 2, 3-port solenoid valve (AB/GAB/AG/GAG) Appearance Blank class For DC and AC (50/60 Hz common)Degree of protection: IP61 or lead Lead wire length 300 mm Grommet Thermal Cannot be used outdoors mold В χoq class Easy wiring and maintenanceEnhanced electrical safety (by For DC and AC (50/60 Hz common)Degree of protection: IP61 or terminal grounding the ground terminal)

Light available (Optional 100 VAC, 200 VAC and 24 VDC) Thermal or mold equivalent Cannot be used outdoors В class For DC and AC (50/60 Hz common)Degree of protection: IP65 or Lead wire length 300 mmConduit (CTC19) for direct piping Thermal eadequivalent Cannot be used outdoors В 3M 3N class For DC and AC (50/60 Hz common)
 Degree of protection: IP21 or Easy wiring
 Light available (Optional -100 VAC, 200 VAC, 12 VDC, terminal Thermal mold equivalent Cannot be used outdoors 24 VDC, 100 VDC) 皇 В ŏ class For DC and AC (50/60 Hz common)Degree of protection: IP65 or terminal Light available (Optional -100 VAC, 200 VAC, 12 VDC, Thermal equivalent Cannot be used outdoors 24 VDC, 100 VDC) mold system AC dedicated (50/60 Hz common)High temperature fluids and high Lead wire length 300 mmConduit (CTC19) for direct piping ambient temperatures usable -ead Degree of protection: IP00 Soil Cannot be used outdoors pox 4M 4N terminal Open fram Light available (optional -100 VAC, 200 VAC) 노 Diode in the coil converts AC to DC.
 Perfect for places where whirring noise should be prevented.
 AC dedicated (50/60 Hz common) Thermal class B rr with diode wire ● Lead wire length 300 mm Conduit (CTC19) for direct piping Lead Degree of protection: IP65 or can be attached. equivalent Cannot be used outdoors Diode in the coil converts AC to DC. 5M 5N Perfect for places where whirring noise should be prevented.

• AC dedicated (50/60 Hz common) Easy wiringLight available (Optional terminal class diode Degree of protection: IP21 or 100/200 VAC) Thermal owith diode equivalent 노 Cannot be used outdoors Diode in the coil converts AC to DC.
 Perfect for places where whirring ŏ 5I 5J class B ₁ noise should be prevented.

AC dedicated (50/60 Hz common) terminal Light available (Optional - Degree of protection: IP65 or 100/200 VAC) equivalent 녚 Cannot be used outdoors Use a conduit (CTC19 or G1/2) when using direct conduit wiring for the open frame lead wire.

Repair parts compatibility table by coil option

Coil option code	Supported	d Repair parts							
	voltage	Plunger assembly	Core assembly	Coil assembly	Actuator assembly *1				
0 or blank	AC	0	0	0	-				
6C *2, *3	DC	-	-	-	0				
2E 2G 2H	AC	0	0	0	-				
2E 2G 2H	DC	0	0	0	-				
6E 6G 6H *2, *3	DC	-	-	-	0				
3A	AC		0	0	-				
	DC		0	0	-				
3M 3N	AC	\cap	0	0	-				
	DC		0	0	-				
3I 3J	AC		0	0	-				
	DC		0	0	-				
4A	AC	0	0	0	-				
4M 4N	AC	0	0	0	-				
5A	AC	0	0	0	-				
5M 5N	AC	0	0	0	-				
5I 5J	AC	0	0	0	-				

^{*1 :} The actuator assembly includes the coil assembly, core assembly and plunger assembly.

EXA **FWD** HNB/G USB/G FAB/G FGB/G FVB FWB/G FHB FLB AB AG AP/ AD APK/ ADK DryAir 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

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Custom

Ending

 $^{^{\}star}2\,$: As 6C, 6E, 6G and 6H are dedicated parts, they are provided as part of the actuator assembly.

^{*3 :} AB41 only.