Series variation

EXA

FWD

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

Multi-fluid control pilot operated 2-port solenoid valve

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

	Reier to page 326 for the dry all (-2).											
No. of ports	Model		Structure	Actuation	Working fluid							
					Air	Low vacuum [1.33 x 10 ³ Pa (abs)]	Water	Kerosene	Oil [50 mm²/s or less]	Hot water	Steam	
		AP11	Pilot operated	NC	•		•	•	•		•	
		AP12	(Piston drive)	NO	•		•	•	•		•	
		AP21		NC	•		•	•	•		•	
		AP22		NO	•		•	•	•		•	
		AD11	Pilot operated	NC	•		•	•	•			
		AD12	(Diaphragm	NO	•		•	•	•			
2-port		AD21	drive)	NC	•		•	•	•			
``		AD22		NO	•		•	•	•			
		APK11	Pilot kick	NC	•	•	•	•	• *1		•	
		APK21	(Piston kick structure)	NC	•	•	•	•	• *1		•	
		ADK11	Pilot kick	NC	•	•	•	•	•	•		
		ADK12	(Diaphragm	NO	•	•	•	•	•	•		
		ADK21	drive)	NC	•	•	•	•	•			

^{*1: 20} mm²/s or less for APK11/21 Series.

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 SpecFld

Custom

Ending

Port size											ge
Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1¹/₄	32 flange	Rc1 ¹ / ₂	40 flange	Rc2	50 flange	Page
•* ²	•*2	•*2	•*2	•*2							252
● ^{*2}	•*2	•*2	•*2	•*2							252
					•	•	•	•	•	•	262
					•	•	•	•	•	•	262
•*2	•*2	•*2	•*2	•*2							272
		•*2	•*2	•*2							272
					•	•	•	•	•	•	282
					•	•	•	•	•	•	282
● ^{*2}	•*2	•*2	•*2	•*2							292
					•	•	•	•	•	•	300
● ^{*2}	•*2	•*2	•*2	•*2							306
		•*2	•*2	•*2							306
					•	•	•	•	•	•	318

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

Refer to page 248 for details on the coil system.

HNB/G USB/G FAB/G FGB/G FVB FWB/G FHB FLB AΒ 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-

EXA

FWD

Water SpecFld

Custom

Ending

Coil selection guide

Coil housing types and selection guide
 Various types are available according to the application.

 Refer to the structure and features to select the optimum model.

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/

SNP

CHB/G

MXB/G

Other

valves

SWD/

MWD

DustColl

CVF/

CVSE

CCH /

CPE/D

LifeSci

Combus

Auto-

Water SpecFld

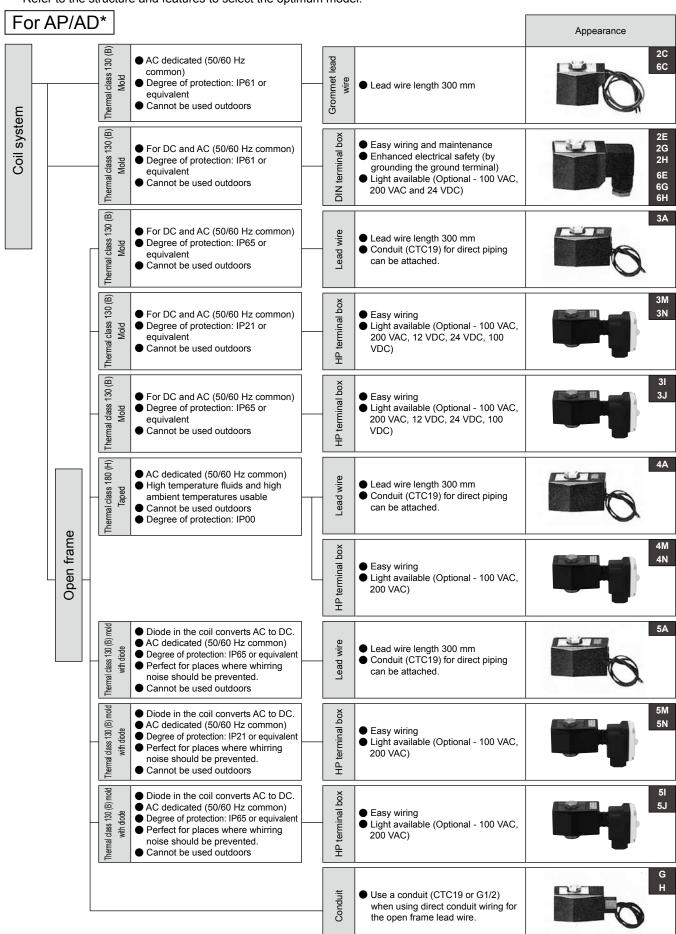
Custom

Ending

Gas-

NVP

EX-

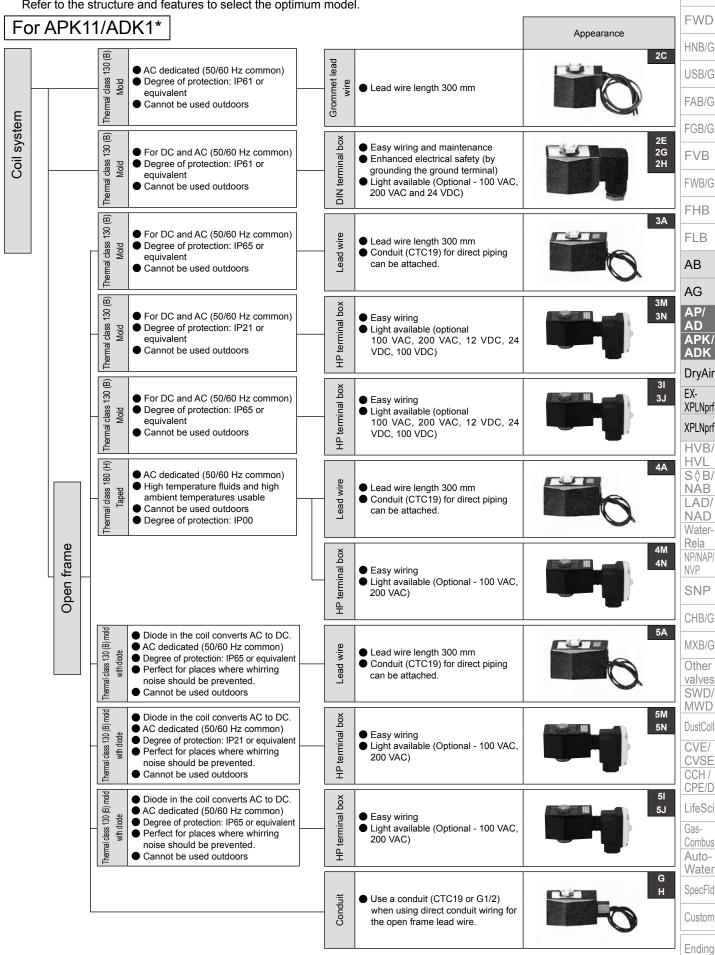


Coil selection guide

Coil housing types and selection guide

Various types are available according to the application.

Refer to the structure and features to select the optimum model.



EXA

EXA **FWD** For APK21/ADK21 Appearance HNB/G 130 (B) 3A USB/G For DC and AC Lead wire Lead wire length 300 mm Thermal class Degree of protection: IP65 or With CTC19 thread for direct FAB/G equivalent conduit piping Cannot be used outdoors FGB/G **FVB** (B) 130 HP terminal box For DC and AC FWB/G Easy wiringLight available (options 100 VAC, Thermal class Degree of protection: IP21 or equivalent 200 VAC, 24 VDC, 100 VDC) **FHB** Cannot be used outdoors FLB 4A Thermal class 180 (H) AB AC dedicated wire ● Lead wire length 300 mm High temperature fluids and high AG ambient temperatures usable With CTC19 thread for direct Lead Degree of protection: IP00 conduit piping AP/ Cannot be used outdoors AD APK/ **ADK** Open frame terminal box DryAir Easy wiring EX-● Light available (Optional - 100 VAC, XPLNprf 200 VAC) 모 XPLNprf HVB/ 5A HVL Thermal class 130 (B) mold Diode in the coil converts AC to DC. S \$ B/ ● AC dedicated (50/60 Hz common) wire NAB ● Lead wire length 300 mm with diode Degree of protection: IP65 or With CTC19 thread for direct LAD/ Lead equivalent conduit piping NAD Perfect for places where whirring noise should be prevented. Water- Cannot be used outdoors Rela NP/NAP/ mold Diode in the coil converts AC to DC. NVP pox 5N hermal class 130 (B) AC dedicated (50/60 Hz common) Degree of protection: IP21 or Easy wiring with diode terminal SNP ● Light available (Optional - 100 VAC, Perfect for places where whirring CHB/G noise should be prevented. 모 Cannot be used outdoors MXB/G Other valves ● Use a conduit (G1/2) when using Conduit SWD/ direct conduit wiring for the open MWD frame lead wire. DustColl CVE/ **CVSE** CCH / CPE/D LifeSci Gas-Combus Auto-Water SpecFld

Ending

Custom

Repair parts compatibility table by coil option

Coil option code	Supported		Repai		
	voltage	Plunger assembly	Core assembly	Coil assembly	Actuator assembly *1
2C	AC	\circ	0	\circ	-
6C *2	DC	-	-	-	0
2E 2G 2H	AC	0	0	0	-
2E 2G 2H	DC	\bigcirc	0	\circ	_
6E 6G 6H	DC	-	-	-	
ЗА	AC		0	0	-
	DC		0	0	-
3M 3N	AC		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	-
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 AΒ AG AP/ AD APK/ ADK DryAir XPLNprf XPLNprf HVB/ HVL S∜B/ NÅB 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

SpecFld

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Ending

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