



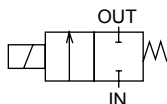
Explosion-proof direct acting 2-port solenoid valve General purpose

AB41EX2 Series

- Pressure and explosion proof construction Ex d IIB T2 (group IIB/temperature class T2)
- Organizations for explosive-proof certification: Japan certification (TIIS), Korea certification (KOSHA)
- NC (open when energized)
- Port size: Rc1/4, Rc3/8

RoHS

JIS symbol



Common specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	AB41EX2
Working fluid	Air/water/kerosene/oil (50 mm ² /s or less)/steam
Working pressure differential MPa	0 to 4 (refer to max. working pressure differential in individual specifications.)
Max. working pressure MPa	5 (≈730 psi, 50 bar) (0.7 (≈100 psi, 7 bar) when fluid is steam)
Proof pressure (water pressure) MPa	25 (≈3600 psi, 250 bar)
Fluid temperature °C	-10 (14°F) to +170 (338°F)
Ambient temperature °C	-10 (14°F) to +40 (104°F)
Thermal class	Class 180 (H)
Atmosphere	Outdoors/explosive gas (group IIB/temperature class T2)
Valve structure	Direct acting poppet structure
Valve seat leakage cm ³ /min(ANR)	300 or less (air)
Mounting orientation	Unrestricted
Degree of protection	IP65 or equivalent

Individual specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item Model No.	Port size	Orifice size (mm)	Max. working pressure differential (MPa)				Rated voltage	Apparent power (VA)				Power consump (W)		Weight (kg)
			Air	Water(hot)/Kerosene	Oil (50 mm²/s)	Steam		When holding		When starting		AC		
			AC	AC	AC	AC		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
AB41EX2-02 -1	Rc1/4	1.5	4	2.5	2	0.7	100 VAC 50/60 Hz	11	9.5	30	26	5.5	5	1.2
-2		2.0	2	1.5	1.2	0.7								
-3		3.0	0.9	0.7	0.4	0.7								
-4		3.5	0.7	0.6	0.3	0.6								
-5		4.0	0.5	0.4	0.2	0.4								
-6		5.0	0.3	0.3	0.15	0.3								
-7		7.0	0.15	0.15	0.10	0.15								
AB41EX2-03 -1	Rc3/8	1.5	4	2.5	2	0.7	200 VAC 50/60 Hz	11	9.5	30	26	5.5	5	1.2
-2		2.0	2	1.5	1.2	0.7								
-3		3.0	0.9	0.7	0.4	0.7								
-4		3.5	0.7	0.6	0.3	0.6								
-5		4.0	0.5	0.4	0.2	0.4								
-6		5.0	0.3	0.3	0.15	0.3								
-7		7.0	0.15	0.15	0.10	0.15								

*: The voltage fluctuation range must be within -10 to +10% of the rated voltage.

Flow characteristics

Model No.	Port size	Orifice size (mm)	Flow characteristics		
			C[dm ³ /(s·bar)]	b	Cv
AB41EX2-02 -1	Rc1/4 Rc3/8	1.5	0.29	0.53	0.1
-2		2.0	0.53	0.52	0.15
-3		3.0	1.1	0.52	0.31
-4		3.5	1.7	0.49	0.42
-5		4.0	[1.5]	[0.47]	[0.40]
-6		5.0	2.1	0.48	0.54
-7		7.0	[1.9]	[0.47]	[0.48]
			3.0	0.42	0.8
			[2.6]	[0.38]	[0.62]
			4.8	0.29	1.0
			[4.6]	[0.37]	[0.82]

*1 : Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.

*2 : Dimensions shown in [] are for stainless steel body.

How to order

AB41EX2-02-4-C4G10BKR-AC100V

Model No.

H Voltage
*2

G Organizations for explosive-proof certification

A Port size
*1

B Orifice size

C Body/sealant combination

D Coil

E Applicable cable O.D.

F Other options

Code		Description		
A Port size				
02	Rc1/4			
03	Rc3/8			
B Orifice size				
1	ø1.5			
2	ø2			
3	ø3			
4	ø3.5			
5	ø4			
6	ø5			
7	ø7			
C Body/sealant combination				
	Body	Seal	Treatment	Remarks
C	Std. Copper alloy	PTFE	-	Air/water/kerosene/oil/steam (up to 170°C)
F	Option Stainless steel	PTFE		
K	Copper alloy	PTFE		
N	Stainless steel	PTFE		
			Oil-prohibited	
D Coil				
4	Thermal class 180 (H) explosion-proof coil (for AC)			
E Applicable cable O.D.				
9	ø7.5 to ø9.5 *For Item G KR,ø8.0 to ø9.5			
10	ø9.5 to ø10.5			
11	ø10.5 to ø11.5			
13	ø11.5 to ø13.5			
F Other options				
Blank	No option			
B	With mounting plate			
G Organizations for explosive-proof certification				
Blank	Japan certification (TIIS) *3			
KR	Korea certification (KOSHA) *4			
H Voltage				
AC100V	100 VAC 50/60 Hz			
AC200V	200 VAC 50/60 Hz			

[Example of model No.]

AB41EX2-02-4-C4G10BKR-AC100V

Model : AB41EX2

- A Port size : Rc1/4
- B Orifice size : ø3.5
- C Body/sealant combination : Body - copper alloy/sealant - PTFE
- D Coil : Thermal class 180 (H) explosion-proof coil (for AC)
- E Applicable cable O.D. : ø9.5 to ø10.5
- F Other options : With mounting plate
- G Organizations for explosive-proof certification : Korea certification (KOSHA)
- H Voltage : 100 VAC 50/60 Hz

⚠ Precautions for model No. selection

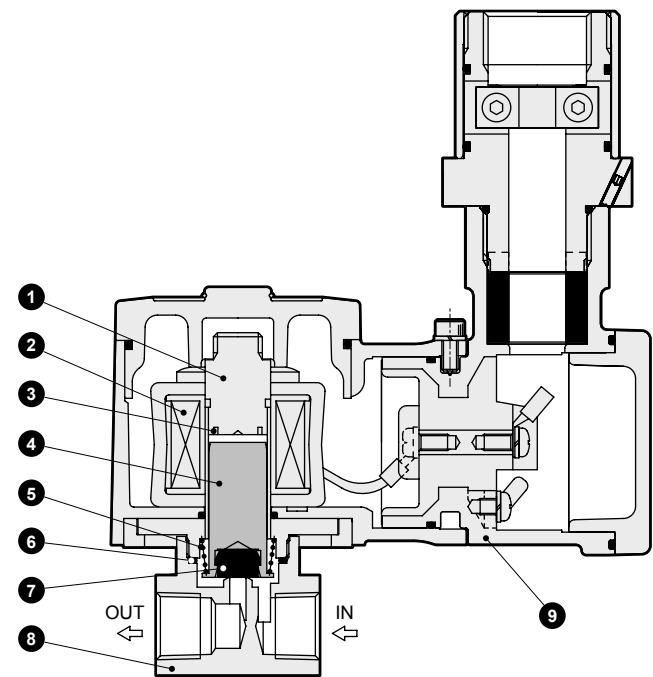
- *1 : As G and NPT threads can also be used for piping port threads, contact CKD for details.
- *2 : Other voltages as below are also available. Contact CKD for details.
12, 24, 48, 110, 115, 120, 220, 240, 380, 400, 415, 440, 480, 500 VAC
- *3 : Japan certification (TIIS) is included.
- *4 : Korea certification (KOSHA) is included.

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

AB41EX2 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

Internal structure and parts list

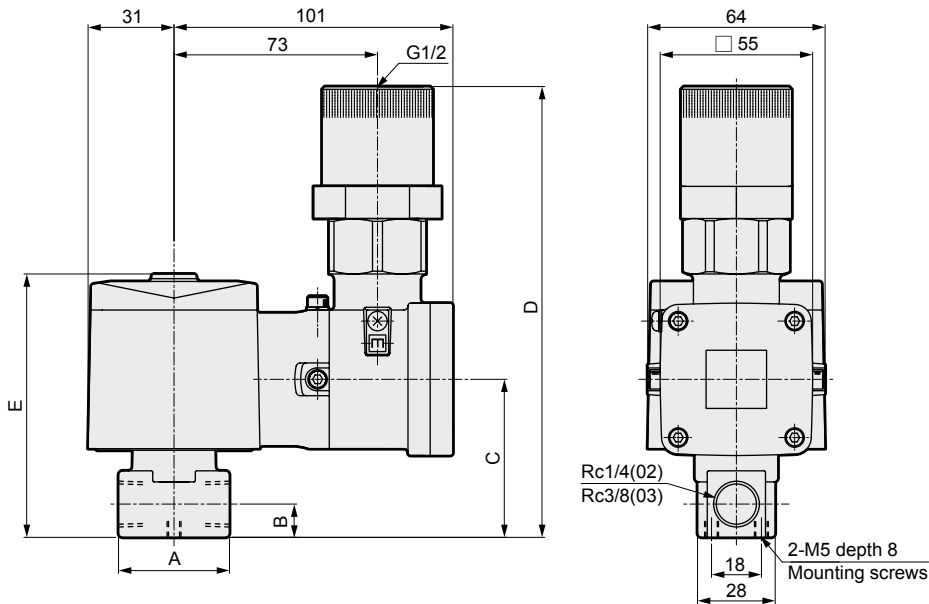


No.	Part name	Material
1	Core assembly	SUS405 or equiv., 316L/403 Stainless steel
2	Coil	-
3	Shading coil	Cu (Ag for stainless steel body) Copper (silver for stainless steel body)
4	Plunger	SUS405 or equiv. Stainless steel
5	Plunger spring	SUS304 Stainless steel
6	O-ring	PTFE Tetrafluoroethylene resin
7	Valve seal	PTFE Tetrafluoroethylene resin
8	Body	C3771(SUS303) Copper alloy (stainless steel)
9	Coil case	ADC12 Aluminum die-casting

() shows options.

Dimensions

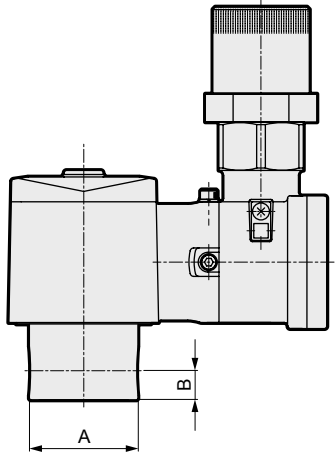
- Standard
AB41EX2-02/03-1 to 7



Model No.	A	B	C	D	E
AB41EX2-02-1 to 6	36	11	54	160	92
AB41EX2-02-7	40	12	57	163	95
AB41EX2-03-1 to 7					

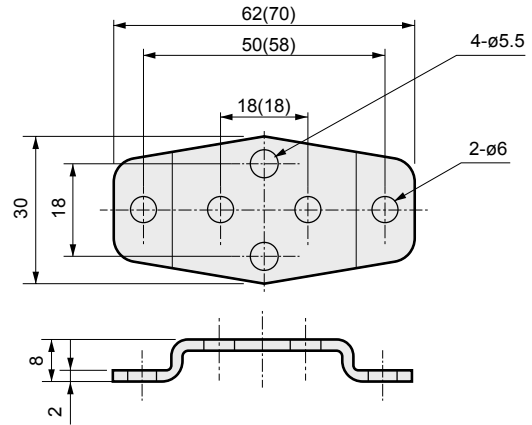
Optional dimensions

- Stainless steel body
AB41EX2-02/03-1 to 7-F,N



Model No.	A	B
AB41EX2-02-1 to 6 □	ø37.5	11
AB41EX2-02-7 □	ø45	12
AB41EX2-03-1 to 7 □		

- Mounting plate
AB41EX2-02/03-1 to 7-***B
AB



Dimensions shown in () are for mounting plate No. 2.

Mounting plate model	Compatible model	
AB4-GE-100106-MOUNT-PLATE-KIT (Mounting plate No.1)	● AB41EX2-02/03-1 to 7 ● AB41EX2-02-1 to 6	Copper alloy body Stainless steel body
AB4-GE-100159-MOUNT-PLATE-KIT (Mounting plate No.2)	● AB41EX2-02-7 ● AB41EX2-03-1 to 7	Stainless steel body Stainless steel body

*Material: Steel/Zinc plated

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



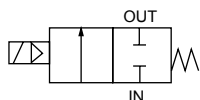
Explosion-proof pilot operated 2-port solenoid valve General purpose

AP11EX2 Series

- Pressure and explosion proof construction Ex d IIB T2 (group IIB/temperature class T2)
- Organizations for explosive-proof certification: Japan certification (TIS), Korea certification (KOSHA)
- NC (open when energized)
- Port size: Rc1/2 to Rc1 ● Piston drive



JIS symbol



Common specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	AP11EX2
Working fluid	Air/water/kerosene/oil (50 mm ² /s or less)/steam
Working pressure differential MPa	0.05 to 0.6 (refer to max. working pressure differential in individual specifications.)
Max. working pressure MPa	2 (≈290 psi, 20 bar) (0.7 (≈100 psi, 7 bar) when fluid is steam)
Proof pressure (water pressure) MPa	10 (≈1500 psi, 100 bar)
Fluid temperature °C	+5 (41°F) to +170 (338°F)
Ambient temperature °C	-10 (14°F) to +40 (104°F)
Thermal class	Class 180 (H)
Atmosphere	Outdoors/explosive gas (group IIB/temperature class T2)
Valve structure	Pilot operated poppet, piston drive
Valve seat leakage (*) cm ³ /min(ANR)	300 or less (air)
Mounting orientation	Free (within working pressure differential range)
Degree of protection	IP65 or equivalent

*: Value at pneumatic pressure of 0.05 to 0.7 MPa.

Individual specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item Model No.	Port size	Orifice size (mm)	Min. working pressure differential (MPa)	Max. working pressure differential (MPa)				Rated voltage	Apparent power (VA)				Power consump (W)		Weight (kg)
				Air	Water/kerosene	Oil (50 mm ² /s)	Steam		When holding		When starting		AC		
				AC	AC	AC	AC		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
NC (open when energized)															
AP11EX2-15A	Rc1/2	15	0.05 (≈7.3 psi, 0.5 bar)	0.7	0.6	0.3	0.6	100 VAC 50/60 Hz 200 VAC 50/60 Hz	11	9.5	30	26	5.5	5	2.1
-20A	Rc3/4	20													2.5
-25A	Rc1	25													3.2

*: The voltage fluctuation range must be within -10 to +10% of the rated voltage.

Flow characteristics

Model No.	Port size	Orifice size (mm)	Flow characteristics			
			C[dm³/(s·bar)]	b	Cv	S(mm²)
NC (open when energized)						
AP11EX2-15A	Rc1/2	15	21	0.22	4.5	-
-20A	Rc3/4	20	-	-	9.3	162
-25A	Rc1	25	-	-	12.0	231

*: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.

How to order

Model No. **AP1①EX2 - 15A - C 4 G 10 KR - AC100V**

⑥ Voltage
*2

⑦ Organizations for explosive-proof certification

① Actuation

② Port size
*1

③ Body/sealant combination

④ Coil

⑤ Applicable cable O.D.

Code		Description				
A Actuation						
1		NC (open when energized)				
B Port size						
15A		Rc1/2				
20A		Rc3/4				
25A		Rc1				
C Body/sealant combination						
		Body	Valve seal	O-ring	Treatment	Remarks
C	Standard	Bronze	PTFE	Fluoro rubber	-	Air/water/kerosene/oil/ steam (up to 170°C)
F	Option	Stainless steel	PTFE	Fluoro rubber		
K		Bronze	PTFE	Fluoro rubber		
N		Stainless steel	PTFE	Fluoro rubber	Oil- prohibited	
D Coil						
4		Thermal class 180 (H) explosion-proof coil (for AC)				
E Applicable cable O.D.						
9		ø7.5 to ø9.5 *For Item F KR,ø8.0 to ø9.5				
10		ø9.5 to ø10.5				
11		ø10.5 to ø11.5				
13		ø11.5 to ø13.5				
F Organizations for explosive-proof certification						
Blank	Japan certification (TIIS) *3					
KR	Korea certification (KOSHA) *4					
G Voltage						
AC100V		100 VAC 50/60 Hz				
AC200V		200 VAC 50/60 Hz				

[Example of model No.]

AP11EX2-15A-C4G10KR-AC100V

Model: AP11EX2

- ① Actuation : NC (open when energized)
- ② Port size : Rc1/2
- ③ Body/sealant combination : Body - bronze, valve seal - PTFE, O-ring - fluoro rubber
- ④ Coil : Thermal class 180 (H) explosion-proof coil (for AC)
- ⑤ Applicable cable O.D. : ø9.5 to ø10.5
- ⑦ Organizations for explosive-proof certification : Korea certification (KOSHA)
- ⑥ Voltage : 100 VAC 50/60 Hz

⚠ Precautions for model No. selection

*1 : As G and NPT threads can also be used for piping port threads, contact CKD for details.

*2 : Other voltages as below are also available. Contact CKD for details.
12, 24, 48, 110, 115, 120, 220, 240, 380, 400, 415, 440, 480, 500 VAC

*3 : Japan certification (TIIS) is included.

*4 : Korea certification (KOSHA) is included.

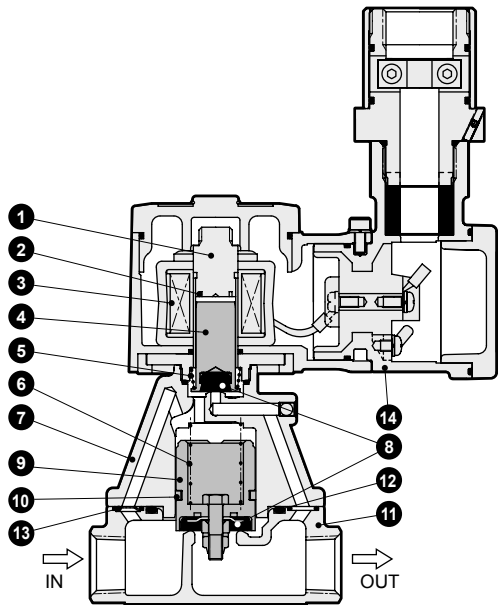
EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/AD
APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
S◇B/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
Gas-Combus
Auto-Water
Outdoor
SpecFld
Custom
Ending

AP11EX2 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

Internal structure and parts list

● AP11EX2 Series

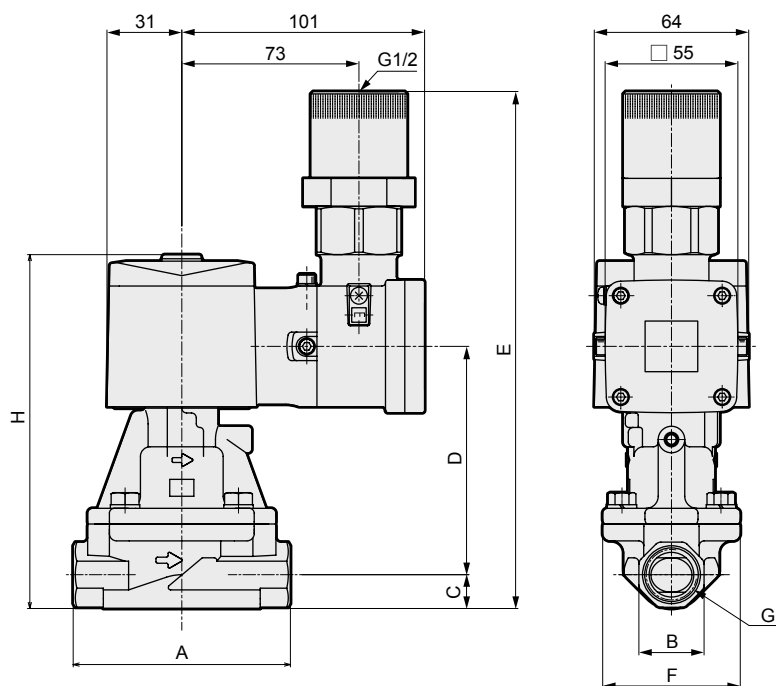


No.	Part name	Material	
1	Core assembly	SUS405 or equiv./SUS316L/ SUS403	Stainless steel
2	Shading coil	Cu (Ag for stainless steel body)	Copper (silver for stainless steel body)
3	Coil	—	—
4	Plunger	SUS405 or equiv.	Stainless steel
5	Plunger spring	SUS304	Stainless steel
6	Valve spring	SUS304	Stainless steel
7	Body	CAC408(SCS13)	Bronze casting (S.S. casting)
8	Valve seal	PTFE	Tetrafluoroethylene resin
9	Main valve assembly	C3604/SUS303/SUS304 (SUS303/SUS304)	Stainless steel/copper alloy (Stainless steel)
10	Piston ring	SUS304/PTFE	Stainless steel/ Tetrafluoroethylene resin
11	Body	CAC408(SCS13)	Bronze casting (S.S. casting)
12	O-ring	FKM	Fluoro rubber
13	Orifice plate	SUS304(SUS303)	Stainless steel
14	Coil case	ADC12	Aluminum die-casting

() shows options.

Dimensions

- Standard
AP11EX2-15A/20A/25A



Model No.	A	B	C	D	E	F	G	H
AP11EX2-15A	90	27	14	94.5	214.5	57	Rc1/2	146.5
AP11EX2-20A	100	32	17	103.5	226.5	65	Rc3/4	158.5
AP11EX2-25A	110	41	20.5	118	244.5	76	Rc1	176.5

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 $\diamond$ 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

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



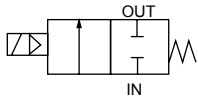
Explosion-proof pilot operated 2-port solenoid valve General purpose

AP21EX2 Series

- Pressure and explosion proof construction Ex d IIB T2 (group IIB/temperature class T2)
- Organizations for explosive-proof certification: Japan certification (TIIS), Korea certification (KOSHA)
- NC (open when energized)
- Port size: Rc1¹/₄ to Rc2, 32 to 50 flange ● Piston drive

RoHS

JIS symbol



Common specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	AP21EX2
Working fluid	Air/water/kerosene/oil (50 mm ² /s or less)/steam
Working pressure differential MPa	0.05 to 0.6 (refer to max. working pressure differential in individual specifications.)
Max. working pressure MPa	1.6 (≈230 psi, 16 bar) (0.7 (≈101 psi, 7 bar) when fluid is steam)
Proof pressure (water pressure) MPa	3.2 (≈460 psi, 32 bar)
Fluid temperature °C	+5 (41°F) to +170 (338°F)
Ambient temperature °C	-10 (14°F) to +40 (104°F)
Thermal class	Class 180 (H)
Atmosphere	Outdoors/explosive gas (group IIB/temperature class T2)
Valve structure	Pilot operated poppet, piston drive
Valve seat leakage (*) cm ³ /min(ANR)	400 or less (air)
Mounting orientation	Free (within working pressure differential range)
Degree of protection	IP65 or equivalent

*: Value at pneumatic pressure of 0.05 to 0.7 MPa.

Individual specifications

Item Model No.	Port size	Orifice size (mm)	Min. working pressure differential (MPa)	Max. working pressure differential (MPa)				Rated voltage	Apparent power (VA)				Power consump (W)		Weight (kg)
				Air	Water/kerosene	Oil (50 mm²/s)	Steam		When holding		When starting		AC		
				AC	AC	AC	AC		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
NC (open when energized)															
AP21EX2 -32A	Rc1¼	35	0.05 (≈7.3 psi, 0.5 bar)	0.7 (≈100 psi, 7 bar)	0.6 (≈87 psi, 6 bar)	0.3 (≈44 psi, 3 bar)	0.6 (≈87 psi, 6 bar)	100 VAC 50/60 Hz 200 VAC 50/60 Hz	11	9.5	30	26	5.5	5	4.2
-32F	32 flange														7.7
-40A	Rc1½	43													5.2
-40F	40 flange														8.7
-50A	Rc2	53													6.7
-50F	50 flange														10.7

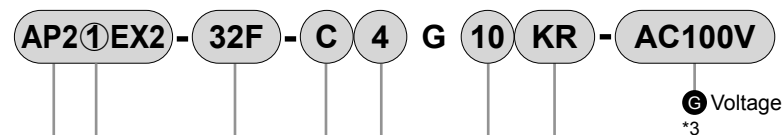
*1 : The model numbers above are for the standard products. Refer to How to order for other combinations.

*2 : The voltage fluctuation range must be within -10 to +10% of the rated voltage.

Flow characteristics

Model No.	Port size	Orifice size (mm)	Cv	Effective cross-sectional area (mm ²)
NC (open when energized)				
AP21EX2-32A	Rc1 ¹ / ₄	35	25	460
-32F	32 flange			
-40A	Rc1 ¹ / ₂	43	34	625
-40F	40 flange			
-50A	Rc2	53	53	975
-50F	50 flange			

How to order



Model No.

① Actuation

② Port size

*1

*2

④ Body/sealant combination

⑤ Coil

⑥ Applicable cable O.D.

⑦ Organizations for explosive-proof certification

Code		Description				
A Actuation						
1		NC (open when energized)				
B Port size						
32A		Rc1¼				
32F		32 flange				
40A		Rc1½				
40F		40 flange				
50A		Rc2				
50F		50 flange				
C Body/sealant combination						
		Body	Valve seal	O-ring	Treatment	Remarks
C	Standard	Bronze	PTFE	Fluoro rubber	-	Air/water/kerosene/oil/steam (up to 170°C)
F	Option	Stainless steel	PTFE	Fluoro rubber		
K		Bronze	PTFE	Fluoro rubber	Oil-	
N		Stainless steel	PTFE	Fluoro rubber	prohibited	
D Coil						
4		Thermal class 180 (H) explosion-proof coil (for AC)				
E Applicable cable O.D.						
9		ø7.5 to ø9.5 *For Item F KR,ø8.0 to ø9.5				
10		ø9.5 to ø10.5				
11		ø10.5 to ø11.5				
13		ø11.5 to ø13.5				
F Organizations for explosive-proof certification						
Blank	Japan certification (TIIS) *4					
KR	Korea certification (KOSHA) *5					
G Voltage						
AC100V		100 VAC 50/60 Hz				
AC200V		200 VAC 50/60 Hz				

[Example of model No.]

AP21EX2-32F-C4G10KR-AC100V

Model: AP21EX2

- ① Actuation : NC (open when energized)
- ② Port size : 32 flange
- ④ Body/sealant combination : Body - bronze, valve seal - PTFE, O-ring - fluoro rubber
- ⑤ Coil : Thermal class 180 (H) explosion-proof coil (for AC)
- ⑥ Applicable cable O.D. : ø9.5 to ø10.5
- ⑦ Organizations for explosive-proof certification : Korea certification (KOSHA)
- ⑧ Voltage : 100 VAC 50/60 Hz

⚠ Precautions for model No. selection

- *1 : The companion flange is JIS B2210 10K.
(Flange is not enclosed with the product and must be purchased separately.)
- *2 : As G and NPT threads can also be used for piping port threads, contact CKD for details.
- *3 : Other voltages as below are also available. Contact CKD for details.
12, 24, 48, 110, 115, 120, 220, 240, 380, 400, 415, 440, 480, 500 VAC
- *4 : Japan certification (TIIS) is included.
- *5 : Korea certification (KOSHA) is included.

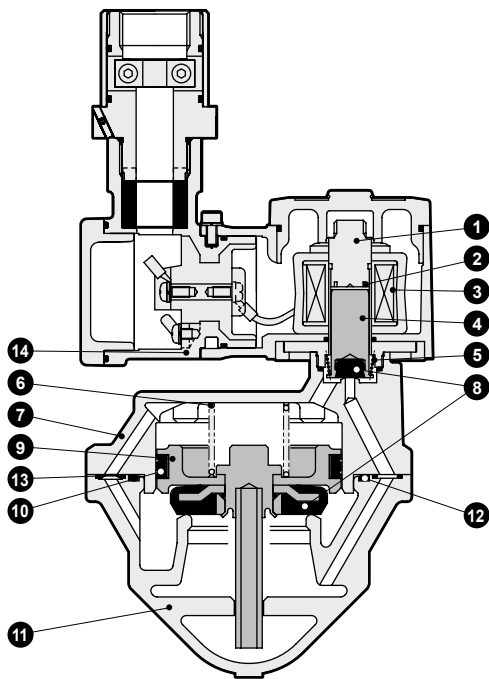
EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/AD
APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
S [◇] B/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
Gas-Combust
Auto-Water
Outdoor
SpecFld
Custom
Ending

AP21EX2 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

Internal structure and parts list

● AP21EX2 Series

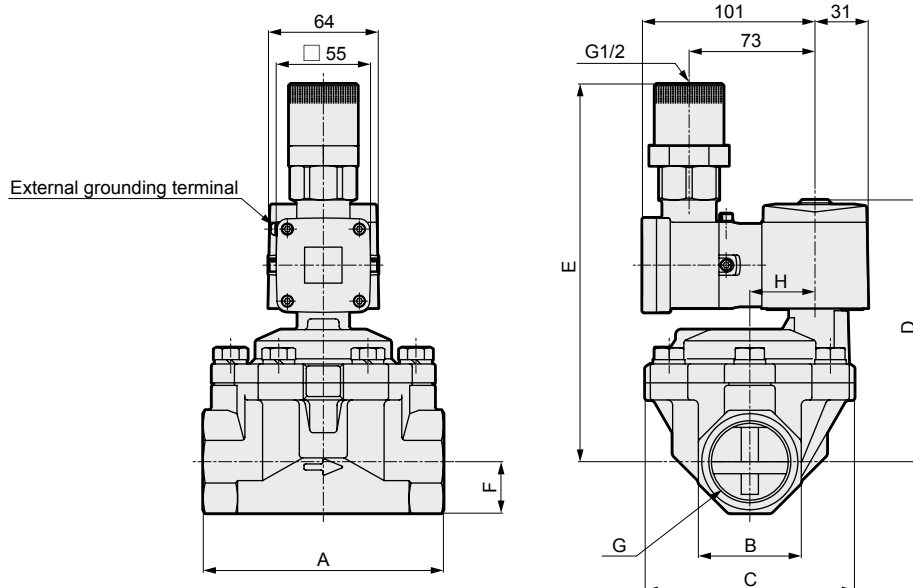


No.	Part name	Material	
1	Core assembly	SUS405 or equiv./SUS316L/ SUS403	Stainless steel
2	Shading coil	Cu (Ag for stainless steel body)	Copper (silver for stainless steel body)
3	Coil	—	—
4	Plunger	SUS405 or equiv.	Stainless steel
5	Plunger spring	SUS304	Stainless steel
6	Valve spring	SUS304	Stainless steel
7	Body	CAC408(SCS13)	Bronze casting (S.S. casting)
8	Valve seal	PTFE	Tetrafluoroethylene resin
9	Main valve assembly	C3604/SUS303/SUS304 (SUS303/SUS304)	Stainless steel/ Copper alloy (stainless steel)
10	Seal ring set	SUS304/PTFE	Stainless steel/ Tetrafluoroethylene resin
11	Body	CAC408(SCS13)	Bronze casting (S.S. casting)
12	O-ring	FKM	Fluoro rubber
13	Orifice plate	SUS304	Stainless steel
14	Coil case	ADC12	Aluminum die-casting

() shows options.

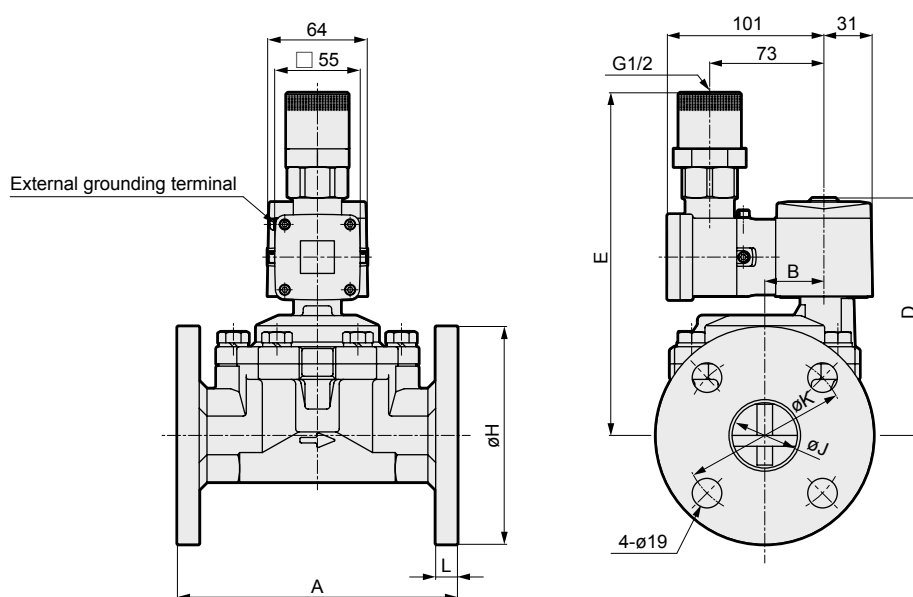
Dimensions

- Standard (Rc screw-in)
AP21EX2-32A/40A/50A



Model No.	A	B	C	D	E	F	G	H
AP21EX2-32A	125	54	112	147	215	27	Rc1 $\frac{1}{4}$	32
AP21EX2-40A	140	60	122	153	221	30	Rc1 $\frac{1}{2}$	38
AP21EX2-50A	160	74	132	161	229	37	Rc2	45

- Standard (flange)
AP21EX2-32F/40F/50F



Model No.	A	B	D	E	H	J	K	L
AP21EX2-32F	170	32	147	215	135	36 (35)	100	12
AP21EX2-40F	180	38	153	221	140	42	105	14
AP21EX2-50F	180	45	161	229	155	53 (52)	120	14

Dimensions shown in () are for stainless steel body.

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 $\diamond$ B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
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Other valves
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