

Explosion proof type direct acting 2 port solenoid valve for dry air (general purpose valve)

B41E4-Z Series

- Pressure and explosion proof structure d2G4 (flame-proof grade 2, ignitability G4)
- NC (normally closed) type
- Port size: Rc1/4, Rc3/8





JIS symbol

NC (normally closed) type



Common specifications

Item		Standard specifications
Working fluid		Dry air (atmospheric dew point -60°C or more), inert gas, low vacuum (1.33 x 10² Pa (abs))
Working pressure differential range	MPa	0 to 4 (refer to max. working pressure differential in individual specifications.)
Max. working pressure	MPa	5
Withstanding pressure (water)	MPa	25
Fluid temperature	°C	-10 to 45 (no freezing)
Ambient temperature	°C	-10 to 45
Heat proof class		В
Atmosphere		Outdoors/flammable (flame-proof grade 1 to 2, ignitability G1 to G4)
Valve structure		Direct acting poppet structure
Valve seat leakage cm³/min.	(ANR)	0.2 or less
Mounting attitude		Free

Individual specifications

Item Model no.	Port size	Orifice (mm)	Max. working pressure diff. (MPa)	Rated voltage	Power consumption (W)
AB41E4-02-1-***Z		1.5	4.0	100 VAC 50/60 Hz	
-2-***Z		2.0	2.5	200 VAC 50/60 Hz	
-3-***Z	Rc1/4 Rc3/8	3.0	0.9	(12 VDC)	
-4-***Z		3.5	0.6	(24 VDC)	17
-5-***Z	1100/0	4.0	0.4	(48 VDC)	
-6-***Z		5.0	0.2	(100 VDC)	
-7-***Z		7.0	0.1		

^{*1:} The port size symbol is 02 for Rc1/4 (8A) and 03 for Rc3/8 (10A).

^{*5:} When using with a low vacuum, vacuum the OUT port side.

	Voltage Model no.	100 VAC	200 VAC	12 VDC	24 VDC	48 VDC	100 VDC
Leaka		10 mA or less	5 mA or less	40 mA or less	20 mA or less	10 mA or less	5 mA or less

Flow characteristics

Model no.	Dantaina	Orifice	Flow characteristics			
Model no.	Port size	size (mm) C [dm³/(s-		b		
AB41E4-02 -1-***Z		1.5	0.29	0.53		
-2-***Z	Rc1/4	2.0	0.53	0.52		
-3-***Z		3.0	1.1	0.52		
-4-***Z	Rc3/8	3.5	1.7 (1.5)	0.49 (0.47)		
-5-***Z	nco/o	4.0	2.1 (1.9)	0.48 (0.47)		
-6-***Z		5.0	3.0 (2.6)	0.42 (0.38)		
-7-***Z		7.0	4.8 (4.6)	0.29 (0.37)		

^{*1:} Effective sectional area S and sonic conductance C are converted as S ≈ 5.0 × C.

^{*2:} Voltage fluctuation should be within -10 to +5% of the rated voltage.

^{*3:} Keep the leakage current at the following value or less.

^{*4: ()} shows options.

^{*2:} Values shown in () are for stainless steel body.

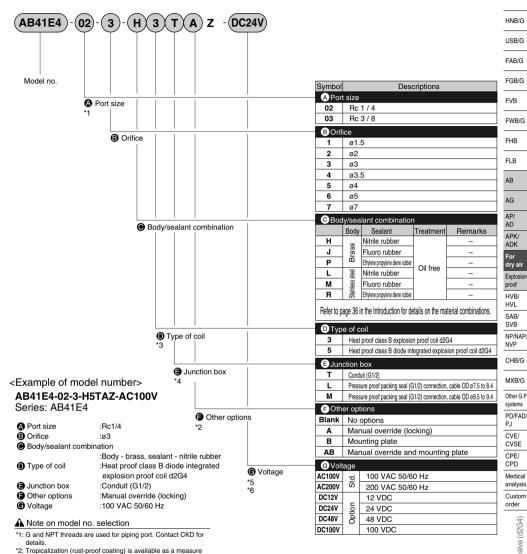
How to order

against rust. Contact CKD for more information. Note that the tropicalization is not available when the manual

*3: For the heat proof class B diode integrated coil, the AC power voltage is converted into a DC coil voltage by the diode. *4: A pressure proof packing seal (G3/4) connection is also available. Contact CKD for more information. Note that the conduit connection (G3/4) is not available. *5: The heat proof class B explosion proof coil (10 3) can be used only with 12 VDC, 24 VDC, 48 VDC or 100 VDC. The heat proof class B diode integrated explosion proof coil (1) 5) can be used with 100 VAC 50/60 Hz or 200 VAC 50/60 Hz. *6: Other voltages available are as follows. Contact CKD for more

override option A is selected.

information -110, 220 VAC (with diode)

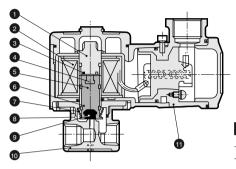


General purpose valve for dry air Explosion proof direct acting 2 port solenoid valve (d2G4)

AB41E4-Z Series

Internal structure and parts list

AB41E4-Z Series



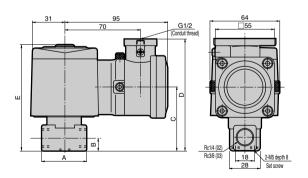
No.	Parts name	Material	
1	Core assembly	SUS405 or equivalent, 316, 403	Stainless steel
2	Coil assembly	-	-
3	Shading coil	Cu (Ag for stainless steel body)	Copper (silver for stainless steel body)
4	Plunger cushion	PFA	Tetrafluoroethylene resin
5	Plunger	SUS405 or equivalent	Stainless steel
6	Wear ring	POM	Acetal resin
7	Plunger spring	SUS304	Stainless steel
8	O ring	NBR (FKM, EPDM)	NBR: Nitrile rubber (FKM: Fluoro rubber)
9	Valve sealant	NBR (FKM, EPDM)	(EPDM: Ethylene propylene diene rubber)
10	Body	C3771 (SUS303)	Brass (stainless steel)
11	Coil case	ADC12	Aluminum die casting

() shows options.

Dimensions



● Conduit (G1/2) type AB41E4-*-*-|H|*T*Z P

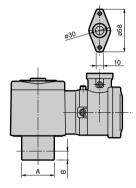


Model no.	Α	В	С	D	Е
AB41E4-02-1 to 6- ****Z	36	11	54	97	92
AB41E4-02-7 to 7 ****Z	40	12	57	100	95

Optional dimensions

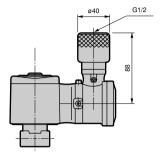
CAD

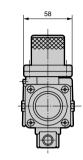
 Stainless steel body AB41E4-*-*- L -***Z M



* Refer to the conduit (G1/2) type dimensions on the left page for common dimensions.

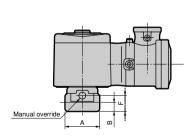
• Pressure proof packing seal (G1/2) connection type AB41E4-*-** L/M \\ N/P





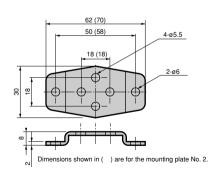
Model no.	Α	В
AB41E4-02-1 to 6- ****Z	ø37.5	11
AB41E4 -02-7 ****Z	ø45	12

 Manual override (locking) AB41E4-*-*-***AZ



Model no.	А	В	F
AB41E4-02-1 to 7-***AZ	36	11	19.5
AB41E4-03-1 to 7-***AZ	40	12	22.5

 Mounting plate AB41E4-*-*-**BZ



Model no.	Applicable model
Mounting plate No. 1	Brass body
GE-100106	AB41E4- 02 -1 to 7- H/J/P
	Stainless steel body
	AB41E4-02-1 to 6- L/M/R
Mounting plate No. 2	Stainless steel body
GE-100159	AB41E4-02-7- L/M/R
	AB41E4-03-1 to 7- L/M/R

HNB/G USB/G

FAB/G

FGB/G FVB

FWB/G FHB

> FLB AB

AG

AP/ AD APK/

ADK For dry air

Explosion proof HVB/

HVL SAB/ SVB

NP/NAP/ NVP

CHB/G

MXB/G

Other G.P. systems PD/FAD/

PJ CVE/ CVSE CPE/

CPD Medical analysis

Custom order

General purpose valve for dry air Explosion proof direct acting 2 port solenoid valve (d2G4)

AP/APK/AD/ADK

(General purpose valve)

General purpose pilot operated 2 port solenoid valve

For air, vacuum, water, oil

Overview

The general purpose valve series enables control of various types of fluids including water, air, oil and vacuums. In addition to the high reliability and high quality of the valve, the variety of options and variations are available.

Features

Various working fluids control

Various types of fluids can be handled by selecting the proper body material and sealant.

Wide option range

Including open frame, coil with diode, and terminal boxes.

A great variety of series and variation

A wide selection is available from the Rc1/4 to large 50 flanges with series such as pilot operated diaphragm and piston valves, and pilot kick type diaphragm and piston valves.



CON

Series variation	on	220
Coil selection	guide	222
▲ Safety pre	cautions	226
Pilot operat	ed 2 port solenoid valve	
Piston struc	cture	
● AP11/12	NC (normally closed) type / NO (normally open) type	228
● AP21/22	NC (normally closed) type / NO (normally open) type	238
Diaphragm	structure	
● AD11/12	NC (normally closed) type / NO (normally open) type	248
● AD21/22	NC (normally closed) type / NO (normally open) type	258
Pilot kick ty	pe 2 port solenoid valve	
Piston struc	cture	
● APK11	NC (normally closed) type	268
● APK21	NC (normally closed) type	276
Diaphragm	structure	
● ADK11/12	NC (normally closed) type / NO (normally open) type	282
APK21	NC (normally closed) type	294

Always read the precautions in the Introduction and page 226 before starting use.

Electronic Catalog file list

HNB/G

HSR/G

FAB/G FGB/G

FVB

FWB/G

FHB

FLB AB

AG

AD APK/ ΔDK

For dry air Explosion proof

HVB/ HVL CAR/ SVB

NP/NAP/ NVP CHR/G

MXB/G

Other G.P. systems

PD/FAD/ P.J

CVE/ CVSE CPE/

CPD Medical analysis

Custom order

General purpose valve Pilot operated/Pilot kick type 2 port solenoid valve

300

Series variation

No. of port	Model			Actuation			Wo	orking f	luid			
No. o	IVIOC	iei	Structure	Actuation	Air	Low vacuum (1.33 x 103 Pa [abs])	Water	Kerosene	Oil (50 mm²/s or less)	Hot water	Steam	
		AP11 +1	Pilot operated	NC (normally closed) type	•		•	•	•		•	
2 port		AP12 *1	(Piston structure)	NO (normally open) type	•		•	•	•		•	
		AP21		NC (normally closed) type	•		•	•	•		•	
		AP22		NO (normally open) type	•		•	•	•		•	
		AD11 1	Pilot operated	NC (normally closed) type	•		•	•	•			
		AD12 *1		NO (normally open) type	•		•	•	•			
	1	AD21		NC (normally closed) type	•		•	•	•			
		AD22		NO (normally open) type	•		•	•	•			
		APK11	Pilot kick type	NC (normally closed) type	•	•	•	•	● *2		•	
	0	APK21	(Piston kick drive)	NC (normally closed) type	•	•	•	•	● *2		•	
		ADK11	Pilot kick type	NC (normally closed) type	•	•	•	•	•	•		
		ADK12	(Diaphragm structure)	NO (normally open) type	•	•	•	•	•	•		
	1	ADK21		NC (normally closed) type		•			•			

^{*2: 20} mm²/s or less for APK11/12 Series.

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

Refer to page 222 for details on the coil system.

HNB/G USB/G

FGB/G FVB

FWB/G

FLB

AB

AP/ AD

APK/ ADK For dry air Explosion proof

HVB/ HVL SAB/ SVB

> NP/NAP/ NVP

CHB/G

MXB/G

Other G.P. systems

PD/FAD/ PJ CVE/

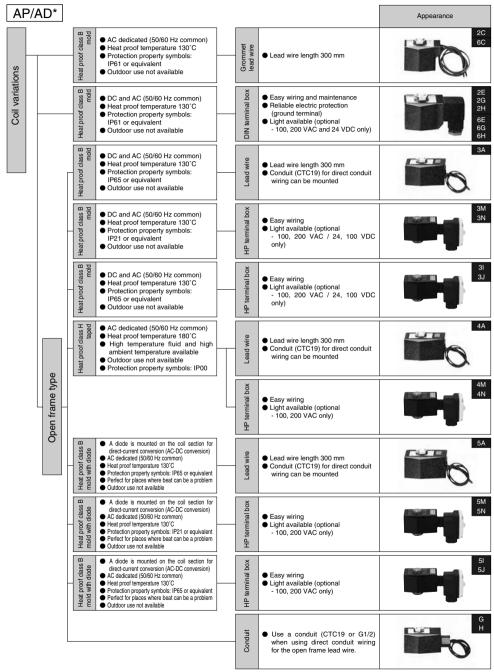
CVSE CPE/ CPD

Medical analysis Custom order

General purpose valve Pilot operated/Pilot kick type 2 port solenoid valve

Coil selection guide

Coil housing types and selection guide A wide variety is available to match applications. Refer to the structure and features to select the optimum model.



Repair parts table per coil option

Coil option symbol	Voltage		Repair parts					
	-	Plunger assembly	Core assembly	Coil assembly	Actuator assembly *1			
0 or 2C	AC	0	0	0	0			
6C *2	DC	_	_	-	0			
2E 2G 2H	AC	0	0	0	0			
2E 2G 2H	DC	0	0	0	0			
6E 6G 6H *2	DC	_	_	-	0			
ЗА	AC		0	0	0			
	DC		0	0	0			
3M 3N	AC	0	0	0	0			
	DC		0	0	0			
3I 3J	AC	0	0	0	0			
	DC		0	0	0			
4A	AC	0	0	0	0			
4M 4N	AC	0	0	0	0			
5A	AC	0	0	0	0			
5M 5N	AC	0	0	0	0			
5I 5J	AC	0	0	0	0			

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

HNB/G USB/G

FAB/G

FGB/G FVB

FWB/G FHB

FLB

AB

AG AP/ AD

APK/ ADK For dry air Explosion

proof

HVB/ HVL SAB/ SVB NP/NAP/

NVP CHB/G

MXB/G

Other G.P. systems PD/FAD/ PJ CVE/

CVSE CPE/ CPD

Medical analysis

Custom order

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

Coil selection guide Coil housing types and selection guide

Wide coil variation is available.

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

		NDK1*	о ор.		· modol.	Appearance
suc		AC dedicated (50/60 Hz common) Heat proof temperature 130°C Protection property symbols: IP61 or equivalent Outdoor use not available		Grommet lead wire	● Lead wire length 300 mm	20
Coil variations		D D And AC (50/60 Hz common) Heat proof temperature 130°C Protection properly symbols: IP61 or equivalent Outdoor use not available		DIN terminal box	Easy wiring and maintenance Reliable electric protection (ground terminal) Light available (optional 100, 200 VAC and 24 VDC only)	2E 2G 2H
		Description Desc	_	Lead wire	Lead wire length 300 mm Conduit (CTC19) for direct conduit wiring can be mounted	34
		D D D D D D D D D D D D D D D D D		HP terminal box	Easy wiring Upht available (optional - 100, 200 VAC / 24, 100 VDC only)	3M 3N
		D D and AC (50/60 Hz common) Heat proof temperature 130°C Protection properly symbols: IP65 or equivalent Outdoor use not available	_	HP terminal box	Easy wiring Light available (optional 100, 200 VAC / 24, 100 VDC only)	31 3J 11
	0	AC dedicated (50/60 Hz common) Heat proof temperature 180°C High temperature fluid and high ambient temperature available Outdoor use not available Protection property symbols: IP00		Lead wire	Lead wire length 300 mm Conduit (CTC19) for direct conduit wiring can be mounted	44
	Open frame type			HP terminal box	Easy wiring Light available (optional - 100, 200 VAC only)	4M 4N
	0	A diode is mounted on the coil section for direct-current conversion (Ac-Dc conversion) A C dedicated (5060 Hz common) A C dedicated (5060 Hz common) Protection property symbols: IP65 or equivalent of the coil and the coil section for direct to protect the common of the coil section for direct to protect the common of the coil section for direct to protect the common of the coil section for direct to protect the common of the coil section for direct to protect the coil section for direct to protect the coil section for direct		Lead wire	Lead wire length 300 mm Conduit (CTC19) for direct conduit wiring can be mounted	5A
		A diode is mounted on the coil section for direct-current conversion (AC-DC conversion) A C dedicated (5060 Hz common) Heat proof temperature 130°C Protection properly symbols: IP21 or equivalent of the conversion (AC-DC conversion) Protection properly symbols: IP21 or equivalent of the conversion (AC-DC conversion) Protection properly symbols: IP21 or equivalent of the conversion (AC-DC conversion) Outdoor use not available		HP terminal box	Easy wiring Light available (optional - 100, 200 VAC only)	5M 5N
		A diode is mounted on the coil section for direct-current conversion (AC-DC conversion) A C dedicated (5060 Hz common) Heat proof temperature 130°C Protection properly symbols: IP85 or equivalent profession (AC-DC conversion) Protection properly symbols: IP85 or equivalent or experiment of the coil section for direct conversion (AC-DC conversion) Outdoor use not available		HP terminal box	Easy wiring Light available (optional - 100, 200 VAC only)	5l 5J *1
				Conduit	Use a conduit (CTC19 or G1/2) when using direct conduit wiring for the open frame lead wire.	O H



Safety precautions

Always read this section before starting use.

Pilot operated 2 port solenoid valve (AP/AD) and pilot kick type 2 port solenoid valve (APK/ADK)

Design & Selection

MARNING WARNING

■ Working fluid

- (1) When using this valve for dry air or inert gas, the life can be shortened considerably due to wear. Use a valve for dry air.
- (2) This valve cannot be used for maintaining the vacuum.

CAUTION

Fluid viscosity

The fluid viscosity must be 50 mm²/s or less. Malfunctions could occur if the viscosity is higher than 50 mm²/s. (This value is 20 mm²/s or less for the APK Series.)

2 Leakage current from other fluid control components

When operating the solenoid valve with a programmable controller, etc., check that the output leakage current from Tr the programmable controller is within the following specifications.

Voltage	AC		AC diode		DC	
Series no.	100 V	200 V	100 V	200 V	12 V	24 V
AP, AD	6 mA or less	3 mA or less	2 mA or less	1 mA or less	2 mA or less	1 mA or less
APK, ADK	6 mA	3 mA	2 mA	1 mA	2 mA	1 mA

Installation, Piping & Wiring

CAUTION

Installation

(1) As a general rule, the valve must be installed vertically with the coil facing upward.

2 Pipina

- (1) If the pipe vibrates when the solenoid valve is opened and closed, securely fix the piping.
- (2) When passing steam, steam generated from a boiler will contain a large amount of drainage. Always install a drain trap.
- (3) When passing steam, water replenished to the boiler will contain matters such as "calcium salt" and "magnesium salt". These matters will react with oxygen and carbon oxide causing scales and sludge, so always install a "water softener" and a filter for steam.
- (4) When the regulator and solenoid valve are directly coupled, the parts could mutually vibrate causing resonance and chattering.
- (5) If the piping cross-section area on the fluid inlet is reduced. the operation may become unstable due to a differential pressure fault during valve operation. The piping on the fluid inlet must have a size that matches the valve port size.

3 Wiring

(1) Refer to page 53 in the Introduction for details on connecting the terminal box.

When Using

A CAUTION

■ Instantaneous leakage

With the pilot operated type or pilot kick type 2 port valve, if sudden pressure is applied when the pump starts while the valve is closed, the valve may open for an instant causing fluid to leak. Caution is required during use.

2 Operation

Do not apply back pressure. The valve could malfunction.

3 Water hammer

If water hammering occurs causing a problem, consider using the CKD "WHL type" or "RSV type" solenoid valve or a motor valve.

4 Manual operation

Always observe the following points when using a manual override.

<For NO (normally open) type>

Opening: Insert a flat-tip screwdriver into the slit on the manual shaft, and turn it approx. 120° to the right or left. The plunger will rise

up, and the valve will open. The open state is held even when the screwdriver is removed. Always return the valve to the original position after use.

Closing: Turn the manual shaft from the open position to the vertical position. The plunger will lower and the valve will close. (Refer to the following drawings.)



Valve opened



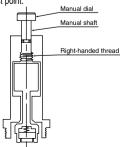
<For NO (normally open) type>

(1) Closing the valve with manual operations

The manual shaft is threaded, so hold the manual dial and rotate the shaft clockwise.

When the manual dial has been rotated downward 5 to 6 mm and no longer rotates, the solenoid valve will switch to closing operation.

(2) Resetting (when not using manual override) Always rotate the manual dial counterclockwise and return it to the highest point.



A CAUTION

1 Thermal insulation cover

When piping for steam or hot water, etc., use an insulating cover structure that can be disassembled for maintenance purposes.

Avoid placing an insulating cover on the entire solenoid valve or on the coil section. The coil could burn.

2 Tightening torque

When disassembling or assembling, tighten the body bolt, core assembly and nut with the following tightening torques.

		Body bolt tightening torque	Core assembly tightening torque	Nut tightening torque	
AP 11 AD 11 AD 12	8A 10A	3 to 4 N⋅m			
APK11 ADK111 ADK112 AP 212 AD 222 APK21 ADK21	15A 20A	5 to 7 N⋅m	30 to 45 N·m (45 to 60 N·m for APK11-15A to 25A)		
	25A	9 to 12 N⋅m		8 to 16 N⋅m	
	32 Å 40 Å 50 Å	10 to 00 N m	(AFK11-15A to 25A)		
	32 Å 40 Å 50 Å	18 to 28 N·m	80 to 120 N·m		

Working Environment



A CAUTION

IP65 (IEC60529 (IEC529:1989-11)) standards are applied to the test. Avoid use in conditions where water or cutting oil directly contacts the valve.

Explanation of protection property symbols and examination method of IP65

Protective structure

Note: IP-65 is a standard as followings.

■IEC (International Electrotechnical Commission) standards

(IEC60529 (IEC529:1989-11))



1st characteristic number (protection grade for foreign solid)

Grade	Degree of	protection
6	Dust proof type	Powder and dust do not enter inside.

2nd characteristic number (protection grade for entry of water)

Gra	ade	Degree of	protection	Overview of test method (fresh water is used)
5	5	Protection for jet	No harmful effects occur even when water is sprayed with nozzles from all directions.	Using the following test device, spray water for 1 minute per 1 m² of test sample (exterior) surface area from all directions, for a total of 3 minutes or more. Spray nozzle inner diameter: e6.3 mm

HNB/G HSR/G

FAB/G

FGB/G

FVB

FWB/G FHB

FLB

AB

AG

APK/ dry air

Explosion proof HVB/ HVL SAR/ SVB

NP/NAP/ NVP CHB/G

MXR/G

Other G.P. PD/FAD/

CVE/ CVSE

CPE/ CPD

Medical analysis

Custom order

General purpose valve Pilot operated/Pilot kick type 2 port solenoid valve

2, 3 port solenoid valve for dry air (general purpose valve)

Electronic Catalog file list

2, 3 port solenoid valve for dry air (general purpose valve)

Direct acting 2 port AB_Z (pages 316 to 317)

Electronic Catalog file list is applied to "CAD DATA 2006".

Model no.		DXF	MICRO CADAM	
Model 110.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)	
AB31-Z	AB_Z	ab31_z	CKD-AB31-Z	
AB31-Z-K/H		ab31_z_k_h	CKD-AB31-Z-K/H	
AB31-Z-A		ab31_z_a	CKD-AB31-Z-A	
AB31-Z-SUS		ab31_z_sus	CKD-AB31-Z-SUS	
AB41-02-Z		ab41_02_z	CKD-AB41-02-Z	
AB41-02-7-Z		ab41_02_7_z	CKD-AB41-02-7-Z	
AB41-03/04-Z		ab41_03_04_z	CKD-AB41-03/04-Z	
AB41-Z-K/H		ab41_z_k_h	CKD-AB41-Z-K/H	
AB41-02-Z-A		ab41_02_z_a	CKD-AB41-02-Z-A	
AB41-02-7-Z-A		ab41_02_7_z_a	CKD-AB41-02-7-Z-A	
AB41-02-Z-SUS		ab41_02_z_sus	CKD-AB41-02-Z-SUS	
AB41-02-7-Z-SUS		ab41_02_7_z_sus	CKD-AB41-02-7-Z-SUS	
AB41-03/04-Z-SUS		ab41_03_04_z_sus	CKD-AB41-03/04-Z-SUS	
GAB3-Z		gab3_z	CKD-GAB3-Z	
GAB3-Z-A		gab3_z_a	CKD-GAB3-Z-A	
Mounting plate, cable gland, conduit		ab_ag_z_op	CKD-AB/AG-Z-OP	

Direct acting 3 port AG_Z (pages 326 to 327)

Model no.		DXF	MICRO CADAM	
Model no.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)	
AG3-Z	AG_Z	ag3_z	CKD-AG3-Z	
AG3-Z-K/H		ag3_z_k_h	CKD-AG3-Z-K/H	
AG3-Z-A		ag3_z_a	CKD-AG3-Z-A	
AG3-Z-SUS		ag3_z_sus	CKD-AG3-Z-SUS	
AG4-02-Z		ag4_02_z	CKD-AG4-02-Z	
AG4-03-Z		ag4_03_z	CKD-AG4-03-Z	
AG4-Z-K/H		ag4_z_k_h	CKD-AG4-Z-K/H	
AG4-02-Z-A		ag4_02_z_a	CKD-AG4-02-Z-A	
AG4-03-Z-A		ag4_03_z_a	CKD-AG4-03-Z-A	
AG4-02-Z-SUS		ag4_02_z_sus	CKD-AG4-02-Z-SUS	
AG4-03-Z-SUS		ag4_03_z_sus	CKD-AG4-03-Z-SUS	
GAG3-Z		gag3_z	CKD-GAG3-Z	
GAG3-Z-A		gag3_z_a	CKD-GAG3-Z-A	
Mounting plate, cable gland, conduit		ab_ag_z_op	CKD-AB/AG-Z-OP	

Explosion proof direct acting 2 port AB*E-Z (pages 342 to 343)

Model no.	DXF		MICRO CADAM	
Model no.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)	
AB41E-02-Z	AB_E_Z	ab41e_02_z	CKD-AB41E-02-Z	
AB41E-02-7-Z		ab41e_02_7_z	CKD-AB41E-02-7-Z	
AB41E-02-Z-A		ab41e_02_z_a	CKD-AB41E-02-Z-A	
AB41E-03-Z-A		ab41e_03_z_a	CKD-AB41E-03-Z-A	
Accessory (mounting plate, manual mounting plate)		a_e_f	CKD-A*E-F	

Explosion proof direct acting 3 port AG4*E-Z (pages 346 to 347)

Model no.	DXF		MICRO CADAM
woder no.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
AG4E-02-Z	AG_E_Z	ag4e_02_z	CKD-AG4E-02-Z
AG4E-03-Z]	ag4e_03_z	CKD-AG4E-03-Z
AG4E-02-Z-A		ag4e_02_zva	CKD-AG4E-02-Z-A
AG4E-03-Z-A]	ag4e_03_z_a	CKD-AG4E-03-Z-A
Accessory (mounting plate, manual mounting plate)]	a_e_f	CKD-A*E-F

Pilot kick type 2 port ADK_Z (page 352)

Model no.	DXF		MICRO CADAM
Wodel no.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
ADK11-8/10-Z	ADK_Z	adk11_8_10_z	CKD-ADK11-8/10-Z
ADK11-15-Z		adk11_15_z	CKD-ADK11-15-Z
ADK11-20-Z		adk11_20_z	CKD-ADK11-20-Z
ADK11-25-Z		adk11_25_z	CKD-ADK11-25-Z