

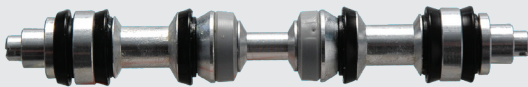
SPOOL

for all applications



MIXED

for heavy applications

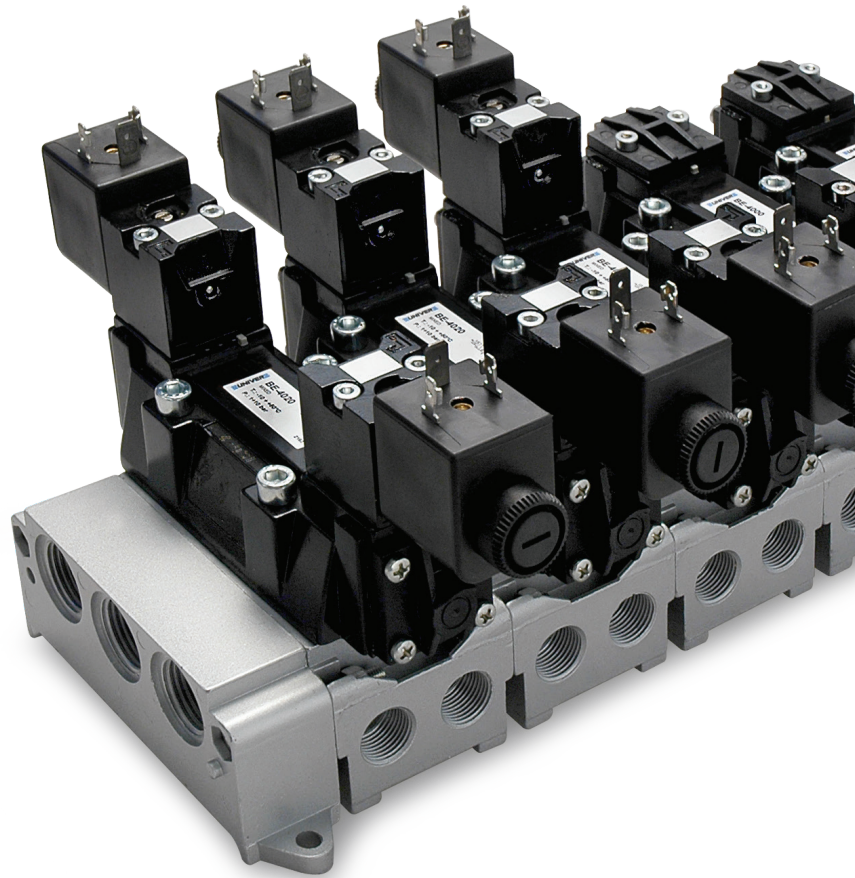


MIXED and SPOOL SYSTEM

Versions with either mixed or spool system available for all series

ORIGINAL

Valves and sub-bases UNIVER Original since 1980



BE 3 - ISO 1

1480 NI/min



M12

BE 4 - ISO 2

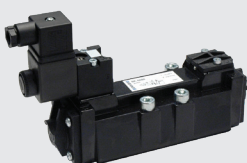
2300 NI/min



M12

BE 5 - ISO 3

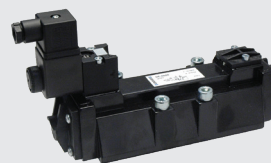
4200 NI/min



M12

BE 6 - ISO 4

6600 NI/min





ISO 5599/1 Valves

- Compliant with international ISO 5599/1 standards
- Complete range: sizes 1 - 2 - 3 - 4
- Two switching systems available: mixed and spool type
- High flow rate
- Short internal stroke
- No lubrication required
- Version with M12 electrical connection for the Automotive industry (sizes 1 - 2 - 3)
- Modular and individual manifolds available
- Possibility of combining different sub-base sizes through dedicated interfaces



Fluid	50 µm filtered air (mixed system) 50 µm filtered air, with or without lubrication (spool system)			
Ambient temperature	-10 ÷ +50 °C			
Fluid temperature	Max +50 °C			
Commutation system	mixed system, spool system			
Ways/Positions	5/2, 5/3			
Pressure	10 bar Max			
Control	indirect electro-pneumatic, pneumatic			
Return	mechanical spring, pneumomechanical spring, pneumatic, electric			
Connections	ISO 5599/1 interface			
	size 1	size 2	size 3	size 4
Nominal Ø (mm)	8	10	15	19
Nominal flow rate (NI/min)	1480	2300	4200	6600
Valve body	acetalic resin			
Cover	aluminium			
Seals	mixed system: nitrile rubber and polyurethane spool system: nitrile rubber			
Sub-base	zamak - aluminium			
Actuators	technopolymer			
Spool	aluminium			
Electropilot	AA series			
Coil	series U3			
Power consumption	2,5 W (DC) - 5 VA (AC)			
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC			
Connector	AM 5111			
Manual override	impulse screw - 2 positions, button with tool (BE) recessed button - 1 position (BE12)			



Reference Standard

II 2G Ex h IIC T5 Gb



II 2D Ex h IIIC T100°C Db



MIXED
for heavy applications



SPOOL
for all applications



Key

Screwdriver adjustment

Pressure applied with a tool

Manual adjustment

MANUAL CONTROL STANDARD

TWO-POSITION SCREWDRIVER

Standard **BE**

PRESSURE-OPERATED, 1 POSITION

Standard **BE12**

MANUAL CONTROLS ON REQUEST

TWO-POSITION SCREWDRIVER

LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE

A
EXAMPLE:
BE-5150A

PRESSURE-OPERATED WITH TOOL

LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE

U
EXAMPLE:
BE-5150U

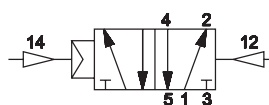
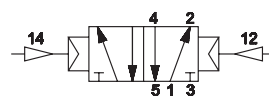
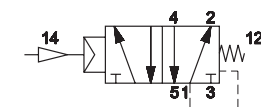
A LEVER

R
EXAMPLE:
BE-5150R

PNEUMATIC IMPULSE

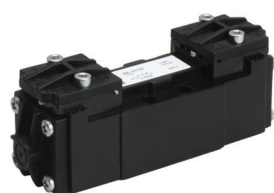
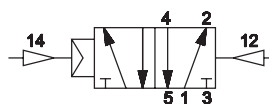
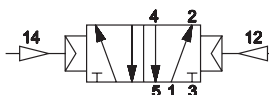
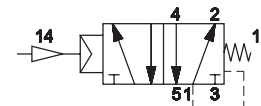
MIXED SYSTEM

BE-3100	5/2	ISO 1
BE-4100	5/2	ISO 2
BE-5100	5/2	ISO 3
BE-6100	5/2	ISO 4
BE-3150	5/2	ISO 1
BE-4150	5/2	ISO 2
BE-5150	5/2	ISO 3
BE-6150	5/2	ISO 4
BE-3170	5/2	ISO 1
BE-4170	5/2	ISO 2
BE-5170	5/2	ISO 3
BE-6170	5/2	ISO 4



SPOOL SYSTEM

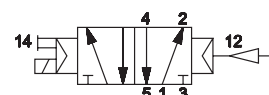
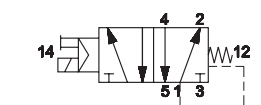
BE-3800	5/2	ISO 1
BE-4800	5/2	ISO 2
BE-5800	5/2	ISO 3
BE-6800	5/2	ISO 4
BE-3850	5/2	ISO 1
BE-4850	5/2	ISO 2
BE-5850	5/2	ISO 3
BE-6850	5/2	ISO 4
BE-3870	5/2	ISO 1
BE-4870	5/2	ISO 2
BE-5870	5/2	ISO 3
BE-6870	5/2	ISO 4



ELECTRICAL IMPULSE

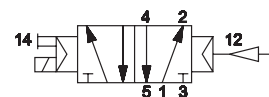
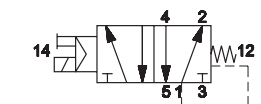
MIXED SYSTEM

BE-3000	5/2	ISO 1
BE-4000	5/2	ISO 2
BE-5000	5/2	ISO 3
BE-6000	5/2	ISO 4
BE-3060	5/2	ISO 1
BE-4060	5/2	ISO 2
BE-5060	5/2	ISO 3
BE-6060	5/2	ISO 4



SPOOL SYSTEM

BE-3700	5/2	ISO 1
BE-4700	5/2	ISO 2
BE-5700	5/2	ISO 3
BE-6700	5/2	ISO 4
BE-3760	5/2	ISO 1
BE-4760	5/2	ISO 2
BE-5760	5/2	ISO 3
BE-6760	5/2	ISO 4



For versions with recessed button 1 position, add suffix U to part number
Solenoid valves are supplied without coil, connector.

DOUBLE ELECTRICAL IMPULSE

MIXED SYSTEM

BE-3020	5/2	ISO 1	
BE-4020	5/2	ISO 2	
BE-5020	5/2	ISO 3	
BE-6020	5/2	ISO 4	
BE-3030	5/2	ISO 1	
BE-4030	5/2	ISO 2	
BE-5030	5/2	ISO 3	
BE-6030	5/2	ISO 4	
BE-3200	5/3 O.C.	ISO 1	
BE-4200	5/3 O.C.	ISO 2	
BE-5200	5/3 O.C.	ISO 3	
BE-6200	5/3 O.C.	ISO 4	
BE-3205	5/3 P.C.	ISO 1	
BE-4205	5/3 P.C.	ISO 2	
BE-5205	5/3 P.C.	ISO 3	
BE-6205	5/3 P.C.	ISO 4	

SPOOL SYSTEM

BE-3720	5/2	ISO 1	
BE-4720	5/2	ISO 2	
BE-5720	5/2	ISO 3	
BE-6720	5/2	ISO 4	
BE-3730	5/2	ISO 1	
BE-4730	5/2	ISO 2	
BE-5730	5/2	ISO 3	
BE-6730	5/2	ISO 4	
BE-3900	5/3 O.C.	ISO 1	
BE-4900	5/3 O.C.	ISO 2	
BE-5900	5/3 O.C.	ISO 3	
BE-6900	5/3 O.C.	ISO 4	
BE-3940	5/3 C.C.	ISO 1	
BE-4940	5/3 C.C.	ISO 2	
BE-5940	5/3 C.C.	ISO 3	
BE-6940	5/3 C.C.	ISO 4	

O.C. = open centres C.C. = closed centres P.C. = pressurized centres

For manual version with button, add "U" to the end of the part number

For version with manual override contact our Sales Department

U3 30 MM COIL TO BE USED WITH BE ELECTROPILOT



DC-0301	12 V DC
DC-0302	24 V DC
DC-0307	24V AC - 50/60 Hz
DC-0309	110V AC - 50/60 Hz
DC-0310	230V AC - 50/60 Hz

CONNECTOR DIN 43650 FOR COIL SERIES U3



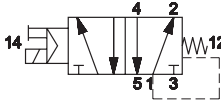
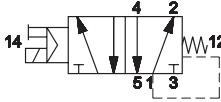
AM-5111

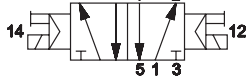
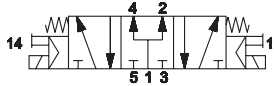
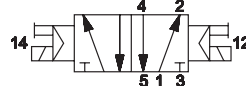
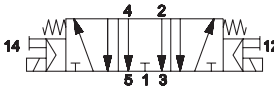
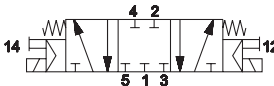
IP65 protection rating, PG9 cable connection.
360° orientation on the coil.

Available on request with LED indicator light.

The use of pneumatic components in the automotive sector, combined with electrical components, has made it possible to create a traditional ISO valve paired with a centrally positioned M12 electrical connector, for both single and double electrical control valves.
The models come with a 24 V DC coil as standard. Other supply voltages (up to 48 V DC) are available on request.

ELECTRIC IMPULSE

	MIXED SYSTEM			
	BE12-3000	5/2	ISO 1	
	BE12-4000	5/2	ISO 2	
	BE12-5000	5/2	ISO 3	
	SPOOL SYSTEM			
	BE12-3700	5/2	ISO 1	
	BE12-4700	5/2	ISO 2	
	BE12-5700	5/2	ISO 3	

	MIXED SYSTEM				
	BE12-3020	5/2	ISO 1		
	BE12-4020	5/2	ISO 2		
	BE12-5020	5/2	ISO 3		
	BE12-3205	5/3 P.C.	ISO 1		
	BE12-4205	5/3 P.C.	ISO 2		
	BE12-5205	5/3 P.C.	ISO 3		
		SPOOL SYSTEM			
		BE12-3720	5/2	ISO 1	
		BE12-4720	5/2	ISO 2	
	BE12-5720	5/2	ISO 3		
	BE12-3900	5/3 O.C.	ISO 1		
	BE12-4900	5/3 O.C.	ISO 2		
	BE12-5900	5/3 O.C.	ISO 3		
	BE12-3940	5/3 C.C.	ISO 1		
	BE12-4940	5/3 C.C.	ISO 2		
	BE12-5940	5/3 C.C.	ISO 3		

O.C. = open centres C.C. = closed centres P.C. = pressurized centres
Valves are supplied with 24 V DC coil

U05 COIL – 15 MM FASTON TERMINAL, COMPATIBLE WITH BE12 PILOT SOLENOID



DD-052

24 V

Illuminated connectors available on request.

15 MM CONNECTOR FOR U05 SERIES COILS



AM-5109

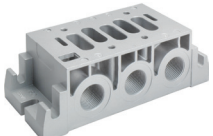
IP65 protection rating. PG9 cable connection.
180° orientation on the coil.

Illuminated connectors available on request.

For versions with recessed button 1 position, add suffix U to part number
Solenoid valves are supplied without coil, connector.

SERIES BE/BE12 - VALVES ISO 5599/1

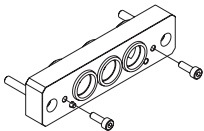
SINGLE SUB-BASE, SIDE CONNECTIONS

	BF-1060	ISO 1
	BF-1061	ISO 1
	BF-1150	ISO 2
	BF-1151	ISO 2
	BF-3060	ISO 3
	BF-3061	ISO 3
	BF-4060	ISO 4
	BF-4061	ISO 4

SINGLE SUB-BASE, DORSAL CONNECTIONS

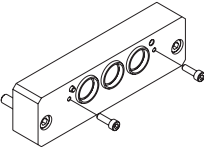
 	BF-1062	ISO 1
	BF-1063	ISO 1
 	BF-1152	ISO 2
	BF-1153	ISO 2
 	BF-3061	ISO 3
	BF-3061	ISO 3
 	BF-4060	ISO 4
	BF-4061	ISO 4

CONNECTING INTERFACE FOR UNIVERSAL SUB-BASES SIZE 1 AND 2



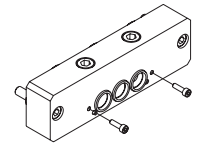
BF-1190

CONNECTING INTERFACE FOR UNIVERSAL SUB-BASES SIZE 2 AND 3



BF-3190

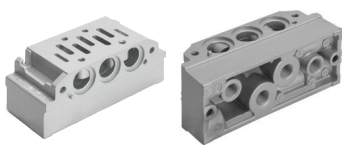
CONNECTING INTERFACE FOR UNIVERSAL SUB-BASES SIZE 1 AND 3



BF-3191

ISO 1 - MANIFOLD UNIVERSAL SYSTEM SUB-BASE

MANIFOLD UNIVERSAL SYSTEM SUB-BASE, DORSAL AND SIDE CONNECTIONS, CONVEYED EXHAUSTS

	BF-1071	G1/8
	BF-1072	G1/4
	BF-1071S	G1/8
	BF-1072S	G1/4

MANIFOLD UNIVERSAL SYSTEM INLET PLATE

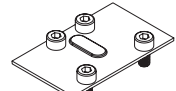
	BF-1065	G3/8
	BF-1066	G3/8

	BF-1068	G3/8
---	---------	------

MANIFOLD UNIVERSAL SYSTEM DIAPHRAGM

	BF-1070	
--	---------	--

CLOSING PLATE FOR SUB-BASE 1

	BF-1085-	
---	----------	--

ISO 3 - MANIFOLD UNIVERSAL SYSTEM SUB-BASE

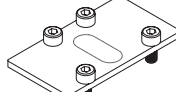
MANIFOLD UNIVERSAL SYSTEM SUB-BASE, DORSAL AND SIDE CONNECTIONS, CONVEYED EXHAUSTS

	BF-3071	G1/2
	BF-3072	G3/4

MANIFOLD UNIVERSAL SYSTEM INLET PLATE

	BF-3064	G1
---	---------	----

CLOSING PLATE FOR SUB-BASE

	BF-3175	
---	---------	--

UNIVERSAL SYSTEM CAP

	BF-3082	
---	---------	--

ISO 2 - MANIFOLD UNIVERSAL SYSTEM SUB-BASE

UNIVERSAL MANIFOLD BASE WITH REAR AND SIDE OUTLETS FOR CHANNELLED EXHAUSTS

	BF-1160	G1/4
	BF-1161	G3/8

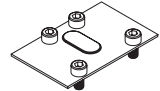
MANIFOLD UNIVERSAL SYSTEM INLET PLATE

	BF-1154	G1/2
	BF-1155	G1/2

UNIVERSAL MANIFOLD DIAPHRAGM

	BF-1162	
--	---------	--

CLOSING PLATE FOR SUB-BASE

	BF-1175	
---	---------	--



Light series valves for ISO 5599/1 sub-base mounting

- Light series: technopolymer valve body with metall cover
- Interchangeability: ISO 5599/1 sub-base mounting (size 1 and 2)
- Reliability: the mixed internal system (poppet-spool) guarantees long life
- Performance: high flow rate (size 1 = 1480 NI/min - size 2 = 2300 NI/min), fast commutation, functioning without lubrication
- Multifunction: possibility to get different functions just changing the position of the selective seal



Fluid	50 µm filtered air, with or without lubrication	
Ambient temperature	10 ÷ +50 °C	
Fluid temperature	+50 °C Max	
Commutation system	mixed system	
Ways/Positions	5/2	
Pressure	max 10 bar	
Control	indirect electro - pneumatic	
Return	pneumomechanical spring	
Connections	ISO 5599/1 interface	
	taglia 1	taglia 2
Nominal Ø (mm)	8	10
Nominal flow rate (NI/min)	1480	2300
Valve body	acetalic resin	
Seals	NBR	
Spool	Aluminum	
Cover	zamak	
Electropilot	AA series	
Coil	U1 - DA series	
Power consumption	3,5 W (DC) - 5 VA (AC)	
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC	
Connector	AM-5110	
Manual override	impulse screw - 2 position	



Reference standard

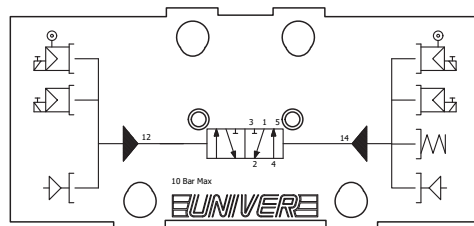
II 2G Ex h IIC T5 Gb



II 2D Ex h IIC T100°C Db



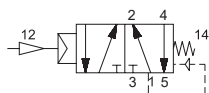
MULTIFUNCTIONAL SYSTEM



PNEUMATIC IMPULSE

ELECTRIC IMPULSE

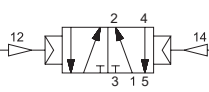
AE-1009 5/2 pneumatic + spring 1



AE-1120 5/2 pneumatic + spring 2

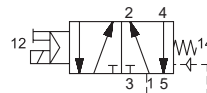


AE-1010 5/2 pneumatic amplified 1



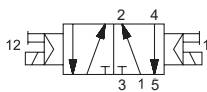
AE-1121 5/2 pneumatic amplified 2

AE-1000 5/2 pneumatic + spring 1



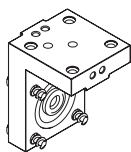
AE-1100 5/2 pneumatic + spring 2

AE-1003 5/2 pneumatic amplified 1



AE-1103 5/2 pneumatic amplified 2

AM-5151



Angle plate for "H" solenoid option **G1/8 - G1/4**

SUB-BASE - ISO 1

single sub-base,
side connections

single modular or Manifold
subbase, dorsal connections with
separate exhausts

Manifold universal system
sub-base, dorsal and side
connections conveyed exhausts

Manifold universal system inlet
plate

Manifold universal system
diaphragm



BF-1060 G1/8 in-line connections
BF-1061 G1/4 in-line connections



BF-1062 G1/8 dorsal connections
BF-1063 G1/4 dorsal connections



BF-1071 G1/8 dorsal and side
connections
BF-1071S G1/8 side pneumatic
impulse
BF-1072 G1/4 dorsal and side
connections
BF-1072S G1/4 side pneumatic
impulse



BF-1064 G3/8 in-line connections
BF-1065 G3/8 on top connections
BF-1066 G3/8 dorsal connections
BF-1068 G3/8 only in-line
connections



BF-1070

SUB-BASE - ISO 2

single sub-base, side connections

single sub-base, dorsal
connections

Manifold universal system
sub-base, dorsal and side
connections conveyed exhausts

Manifold universal system inlet
plate

Manifold universal system
diaphragm



BF-1150 G1/4 in-line connections
BF-1151 G3/8 in-line connections



BF-1152 G1/4 dorsal connections
BF-1153 G3/8 dorsal connections



BF-1160 G1/4 dorsal and side
connections
BF-1161 G3/8 dorsal and side
connections



BF-1154 G1/2 in-line connections
BF-1155 G1/2 dorsal connections



BF-1162

U1 COIL - 22 MM SIDE



DA-0050

12 V DC

DA-0051

24 V DC

DA-0106

24V AC - 50/60 Hz

DA-0108

110V AC - 50/60 Hz

DA-0124

230V AC - 50/60 Hz

CONNECTOR FOR U1 COILS



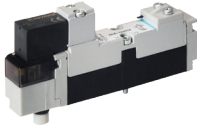
AM-5110

IP 65 protection rating. PG9 cable entry.
Can be rotated 180° on the reel.

Available on request with indicator light

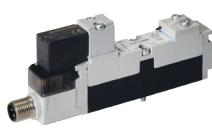
BDE

Integrated electrical connection



BDB

M12 connector (Automotive)



BDA

Single electrical connection



BDA

Pneumatic connection

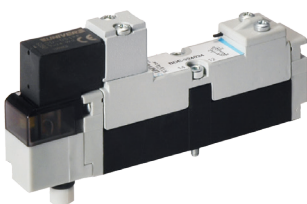


COMMUNICATION SYSTEMS

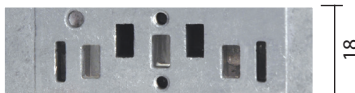


ISO 02

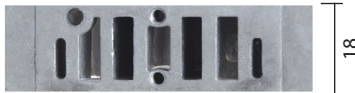
18 mm



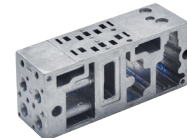
Interface ISO



OVERSIZED interface
(UNIVER original)



620 NI/min

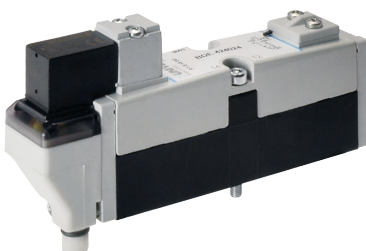


800 NI/min

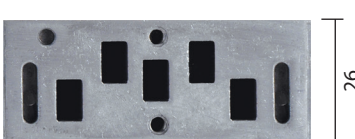


ISO 01

26 mm



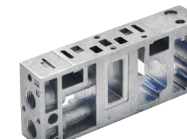
Interface ISO



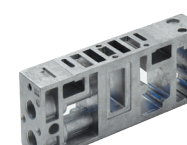
OVERSIZED interface
(UNIVER original)



1250 NI/min



1700 NI/min





ISO 15407-1/2 (VDMA 24563) valves

- BDE = electric spool valves with integrated electrical connection.
TC serial connections available for the BDE series
- BDB = electric spool valves with M12 electrical connection
- BDA = spool valves and electric spool valves with standard electrical connection
- ISO-VDMA modular sub-base
- Sub-base with increased flow capacity



Fluid	50 µm filtered air, with or without lubrication
Ambient temperature	-20 ÷ +50 °C
Fluid temperature	Max +50 °C
Commutation system	spool
Ways/Positions	3/2+3/2, 5/2, 5/3
Pressure	electric control = 9 bar max pneumatic control = 10 bar max
Control	indirect electro - pneumatic, pneumatic
Return	mechanical spring, pneumomechanical spring
Nominal Ø (mm)	ISO 02 18 mm = 6 ISO 01 26 mm = 8
Body valve	acetalic resin with aluminium cover
Seals	NBR
Sub-base	die-cast alluminium
Actuators	technopolymer
Spool	aluminium
Electropilot	series A
Coil	U05
Voltage	24 V DC (± 10%), 12 V DC upon request
Power consumption	2 W
Protection degree	IP65
Manual override	recessed button - 1 position

Nominal flow rate (NI/min) for valves and solenoid valves side 18 mm

manifold sub-base 2 valve places and end plates with side connections in aluminium and fixing plate for fittings standard supplied with sub-base.

VDMA-ISO				Oversize Univer		
Raccordi	Ø4	Ø6	Ø8	Ø4	Ø6	Ø8
5/2	200	440	620	200	480	800
5/3	200	440	580	200	460	720
3/2+3/2	200	440	600	200	460	720

Nominal flow rate (NI/min) for valves and solenoid valves side 26 mm

manifold sub-base 1 valve place and end plates with side connections in aluminium and fixing plate for fittings standard supplied with sub-base.

VDMA-ISO					Oversize Univer			
Raccordi	Ø6	Ø8	Ø10	Ø12	Ø6	Ø8	Ø10	Ø12
5/2	500	950	1200	1200	500	1050	1500	1700
5/3	500	900	1100	1100	500	1050	1300	1400
3/2+3/2	500	950	1150	1150	500	1050	1450	1650

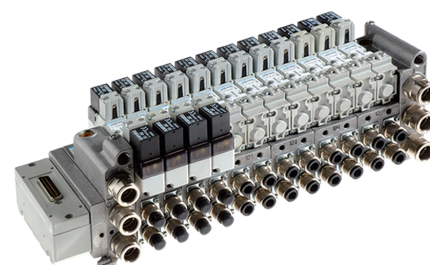


Reference Standard

II 2G Ex h IIC T5 Gb



II 2D Ex h IIC T100°C Db





Ordering codes

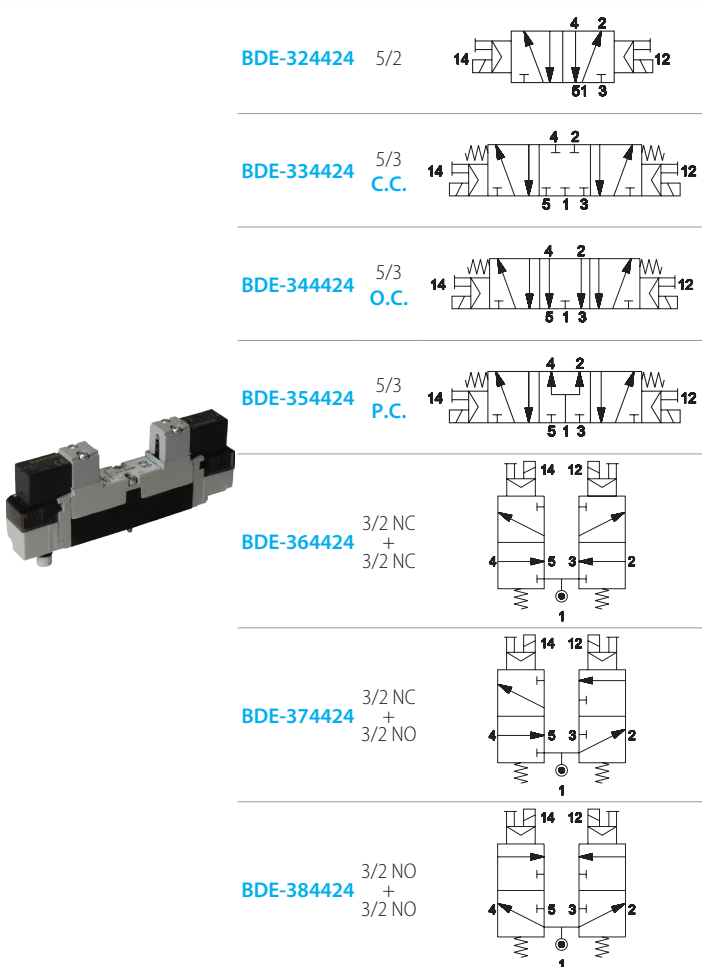
C.C. = closed centres
O.C. = open centres
P.C. = pressurized centres

Series	Size	Type	Command 14	Return 12	Coil voltage	Variant
B D E	3	3	4	4	2 4	☐
BDE Electric solenoid valves with integrated 24 V DC power supply	3 18 mm 4 26 mm	2 5/2 3 5/3 C.C. 4 5/3 O.C. 5 5/3 P.C. 6 3/2 NC+3/2 NC 7 3/2 NC +3/2 NO 8 3/2 NO+3/2 NO	4 Amplified electric	0 Pneumatic-mechanical spring 1 Mechanical spring 4 Amplified electric 7 Unamplified electrical (differential)	24 4 V DC (on request) 12 12 V DC	D External pilot supply

BDE – ELECTRICAL DISTRIBUTION UNITS, INTEGRATED CONNECTION 18MM SINGLE ELECTRICAL IMPULSE



BISTABLE ELECTRIC IMPULSE

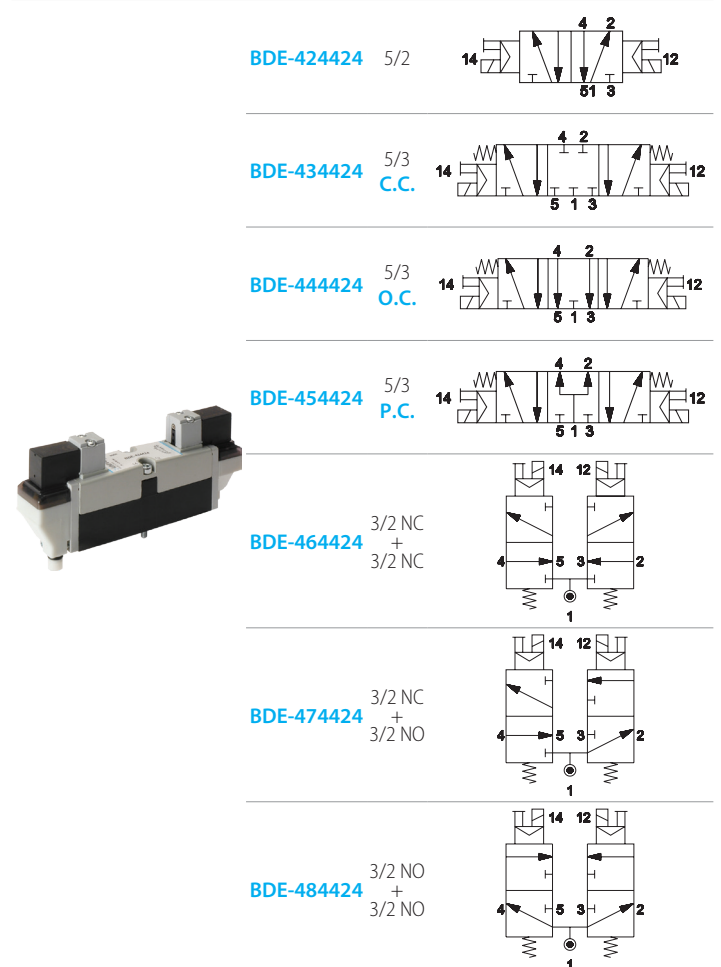


C.C. = closed centres O.C. = open centres P.C. = pressurized centres

BDE – ELECTRICAL DISTRIBUTION UNITS, INTEGRATED CONNECTION 26MM SINGLE ELECTRICAL IMPULSE



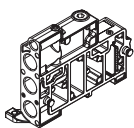
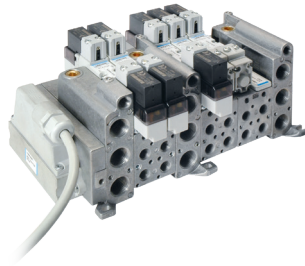
BISTABLE ELECTRIC IMPULSE



C.C. = closed centres O.C. = open centres P.C. = pressurized centres

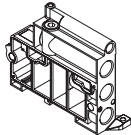
The valves are supplied with a coil, DD-051BD 24V DC

BDE - INTEGRATED ELECTRIC CONNECTION SIDE 18 MM



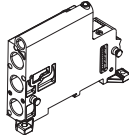
BDF-3100

supply plate
G3/8 left



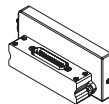
BDF-3115

supply plate
G3/8 right



BDF-3120

intermediate supply plate
G3/8



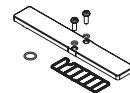
BDF-3140TIM

connection module
25-pin male multipole



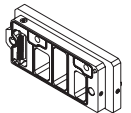
BDF-3180

separator plate
supply pressure



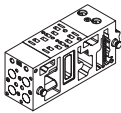
BDF-3185

end plate
for unused valve station



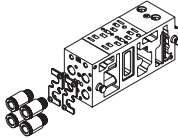
BDF-3190

interface between valve
manifolds



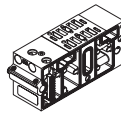
BDF-3210

sub-base 2-position
VDMA-ISO standard G1/8
ports



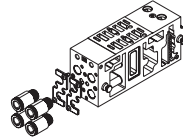
BDF-3230

sub-base 2-position
VDMA-ISO standard
fittings Ø 4-6-8 mm



BDF-3310

sub-base 2-position with
increased flow capacity
G1/8 ports



BDF-3330

sub-base 2-position with
increased flow capacity
fittings Ø 4-6-8 mm



BDF-3400

single sub-base
1 position with increased
flow capacity G1/8



GZR-100

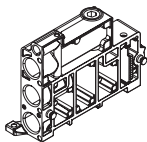
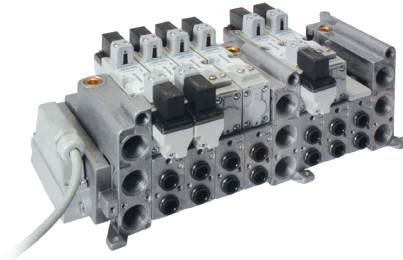
closing plug



GZR-V10004
GZR-V10006
GZR-V10008

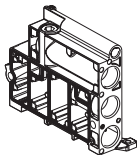
custom-designed fittings
UNIVER
Ø 4-6-8 mm

BDE - SOLENOID VALVES WITH INTEGRATED ELECTRICAL CONNECTION 26 MM



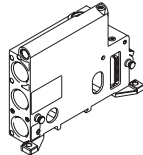
BDF-4100

supply plate
G1/2 left



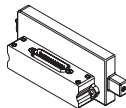
BDF-4115

supply plate
G1/2 right



BDF-4120

intermediate
G1/2 supply plate



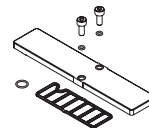
BDF-4140TIM

25-pin male multipole
connection module
type D for 26 mm side



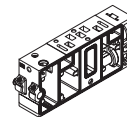
BDF-4180

separator plate
for supply
pressure



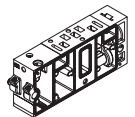
BDF-4185

blanking plate
for unused valve
position



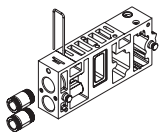
BDF-4210

1-position sub-base
according VDMA-ISO
G1/4 ports



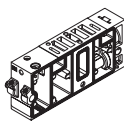
BDF-4220

1-position sub-base
according VDMA-ISO
G3/8 ports



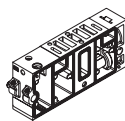
BDF-4230

1-position sub-base
according VDMA-ISO
fittings Ø 6-8-10 mm



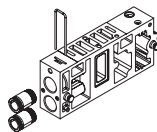
BDF-4310

1-position sub-base
with increased flow
rate G1/4 ports



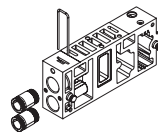
BDF-4320

1-position sub-base
with increased
flow rate G3/8 ports



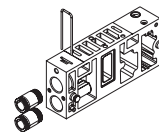
BDF-4330

1-position sub-base
with increased flow
rate for fittings Ø6mm



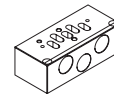
BDF-4331

1-position sub-base
with increased flow
rate for fittings Ø8mm



BDF-4332

1-position sub-base
with increased flow
rate for fittings Ø10 mm



BDF-4400

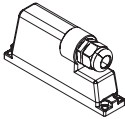
1-position sub-base
with increased
flow rate G3/8 ports



GZR-VV1006
GZR-VV1008
GZR-VV1010

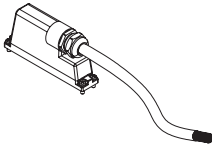
UNIVER-designed
fittings.
for Ø 6-8-10 mm

BD CONNECTION MODULES AND FLYING CONNECTORS - ELECTRICAL CONNECTIONS TABLE



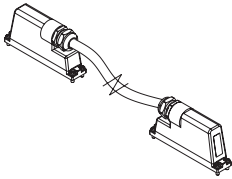
TSCFN24S000

famale connector 25 poles type D-sub no cable M3 x 8 fixing screws



TSCFN24S0300
TSCFN24S0500
TSCFN24S1000

famale connector 25 poles type D-sub cable **3-5-10 m** M3 x 8 fixing screws



TSCFN16D0300
TSCFN16D0500
TSCFN16D1000

male/famale flying connector sub D (upon request) prewired for 24 coils with cable Ø 8 mm (**3-5-10 m** lenght) suitable for mobile laying M3 x 8 fixing screws

U05 COIL WITHOUT GROUND FASTON TERMINAL



DD-051BD

24 V DC

DD-041BD

12 V DC

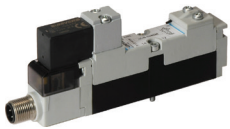
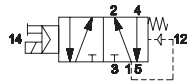
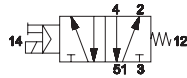
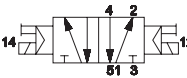
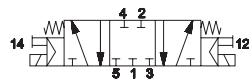
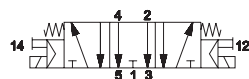
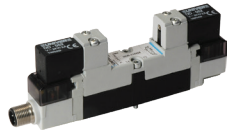
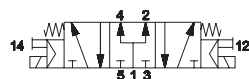
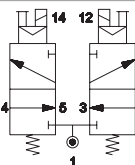
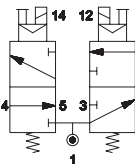
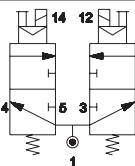


Ordering codes

C.C. = closed centres
O.C. = open centres
P.C. = pressurized centres

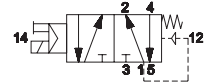
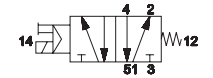
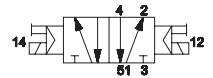
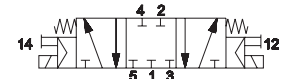
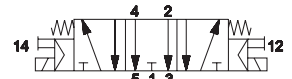
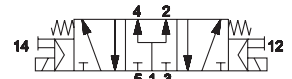
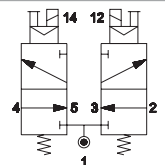
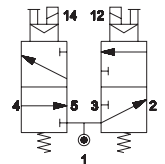
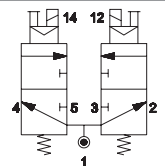
Series	Size	Type	Command 14	Return 12	Coil voltage	Variant
B D B	3	3	4	4	2 4	☐
BDB Electrical distributors with a 24 V DC power connection and an M12 connector	3 18 mm 4 26 mm	2 5/2 3 5/3 C.C. 4 5/3 O.C. 5 5/3 P.C. 6 3/2 NC+3/2 NC 7 3/2 NC +3/2 NO 8 3/2 NO+3/2 NO	4 Amplified electric	0 Pneumatic-mechanical spring 1 Mechanical spring 4 Amplified electric 7 Unamplified electrical (differential)	24 4 V DC (on request) 12 12 V DC	D External pilot supply

Series	Size	Type	Command 14	Return 12	Variant
B D A	4	3	4	4	☐
BDA Distributors and electrical distributors Coils and connectors are not included in the supply and must be ordered separately	4 =26 mm	2 5/2 3 5/3 C.C. 4 5/3 O.C. 5 5/3 P.C. 6 3/2 NC+3/2 NC 7 3/2 NC +3/2 NO 8 3/2 NO+3/2 NO	3 Pneumatic-assisted 4 DC electric-assisted 5 DC/AC electric-assisted	0 Pneumatic-mechanical spring 1 Mechanical spring 2 Non-amplified pneumatic (differential) 3 Amplified pneumatic 4 Amplified DC electric 5 Amplified DC/AC electric 7 Non-amplified DC electric (differential) 8 Non-amplified DC/AC electric (differential)	D External pilot supply

**BDB - ELECTRICAL DISTRIBUTION UNITS WITH M12 CONNECTOR 18 MM
SINGLE ELECTRICAL IMPULSE**

BDB-324024 5/2

BDB-324124 5/2

BISTABLE ELECTRIC IMPULSE
BDB-324424 5/2

BDB-334424 5/3
C.C.

BDB-344424 5/3
O.C.

BDB-354424 5/3
P.C.

BDB-364424 3/2 NC
+
3/2 NC

BDB-374424 3/2 NC
+
3/2 NO

BDB-384424 3/2 NO
+
3/2 NO


C.C. = closed centres O.C. = open centres P.C. = pressurized centres

**BDB - ELECTRICAL DISTRIBUTION UNITS WITH M12 CONNECTOR 26MM
SINGLE ELECTRICAL IMPULSE**

BDB-424024 5/2

BDB-424124 5/2

BISTABLE ELECTRIC IMPULSE
BDB-424424 5/2

BDB-434424 5/3
C.C.

BDB-444424 5/3
O.C.

BDB-454424 5/3
P.C.

BDB-464424 3/2 NC
+
3/2 NC

BDB-474424 3/2 NC
+
3/2 NO

BDB-484424 3/2 NO
+
3/2 NO


C.C. = closed centres O.C. = open centres P.C. = pressurized centres

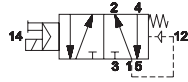
BDA - ELECTRICAL DISTRIBUTION UNITS, STANDARD CONNECTION 18MM

SINGLE ELECTRICAL IMPULSE



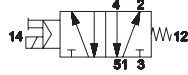
BDA-3240

5/2



BDA-3241

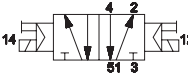
5/2



BISTABLE ELECTRIC IMPULSE

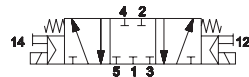
BDA-3244

5/2



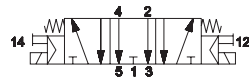
BDA-3344

5/3
C.C.



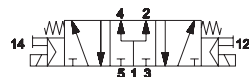
BDA-3444

5/3
O.C.



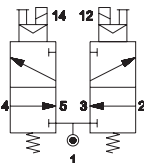
BDA-3544

5/3
P.C.



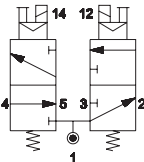
BDA-3644

3/2 NC
+
3/2 NC



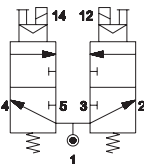
BDA-3744

3/2 NC
+
3/2 NO



BDA-3844

3/2 NO
+
3/2 NO



C.C. = closed centres O.C. = open centres P.C. = pressurized centres

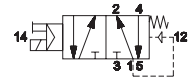
BDA - ELECTRICAL DISTRIBUTION UNITS, STANDARD CONNECTION 26MM

SINGLE ELECTRICAL IMPULSE



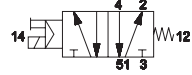
BDA-4240

5/2



BDA-4241

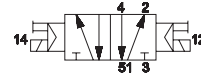
5/2



BISTABLE ELECTRIC IMPULSE

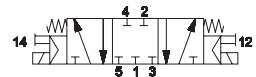
BDA-4244

5/2



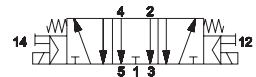
BDA-4344

5/3
C.C.



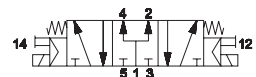
BDA-4444

5/3
O.C.



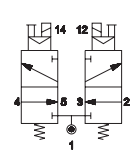
BDA-4544

5/3
P.C.



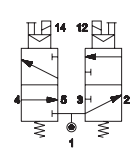
BDA-4644

3/2 NC
+
3/2 NC



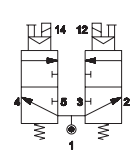
BDA-4744

3/2 NC
+
3/2 NO



BDA-4844

3/2 NO
+
3/2 NO

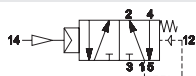


C.C. = closed centres O.C. = open centres P.C. = pressurized centres

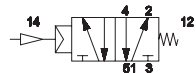
BDA - PNEUMATIC ELECTRICAL DISTRIBUTION UNITS 18MM

SINGLE/DOUBLE PNEUMATIC IMPULSE

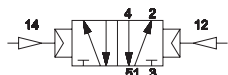
BDA-3230 5/2



BDA-3231 5/2

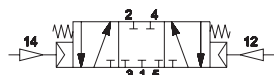


BDA-3233 5/2



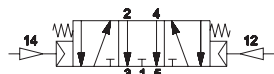
BDA-3333 5/3

C.C.



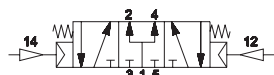
BDA-3433 5/3

O.C.



BDA-3533 5/3

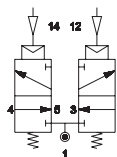
P.C.



BDA-3633 3/2 NC

+

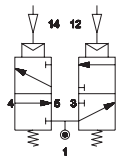
3/2 NC



BDA-3733 3/2 NC

+

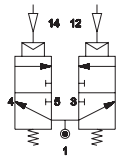
3/2 NO



BDA-3833 3/2 NO

+

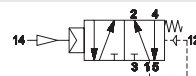
3/2 NO



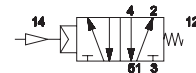
BDA - PNEUMATIC ELECTRICAL DISTRIBUTION UNITS 26MM

SINGLE/DOUBLE PNEUMATIC IMPULSE

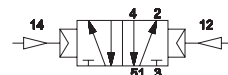
BDA-4230 5/2



BDA-4231 5/2

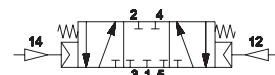


BDA-4233 5/2



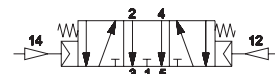
BDA-4333 5/3

C.C.



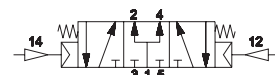
BDA-4433 5/3

O.C.



BDA-4533 5/3

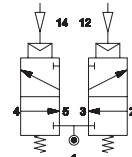
P.C.



BDA-4633 3/2 NC

+

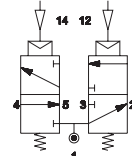
3/2 NC



BDA-4733 3/2 NC

+

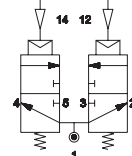
3/2 NO



BDA-4833 3/2 NO

+

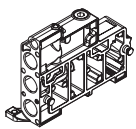
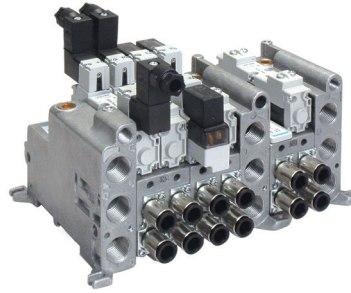
3/2 NO



C.C. = closed centres **O.C.** = open centres **P.C.** = pressurized centres

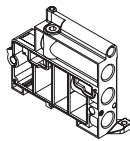
C.C. = closed centres **O.C.** = open centres **P.C.** = pressurized centres

BDA - BDB - SOTTOBASI MANIFOLD 18MM



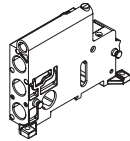
BDF-3110

supply plate
G3/8 right



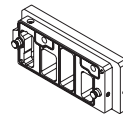
BDF-3115

supply plate
G3/8 right



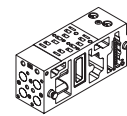
BDF-3125

intermediate
G3/8 supply plate
without integrated electrical
connection



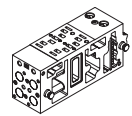
BDF-3191

connection interface
between valve units



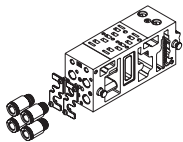
BDF-3211

2-position sub-base
according to VDMA-ISO
standards G1/8 ports



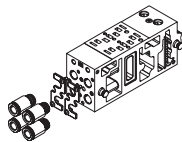
BDF-3212

2-position sub-base
according to VDMA-ISO
standards G1/8 ports



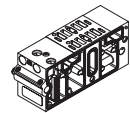
BDF-3231

2-position sub-base according
to VDMA-ISO standards
for fittings Ø 4-6-8 mm



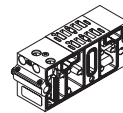
BDF-3232

2-position sub-base according
to VDMA-ISO standards
for fittings Ø 4-6-8 mm



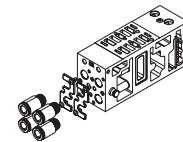
BDF-3311

2-position sub-base with
increased G1/8 ports



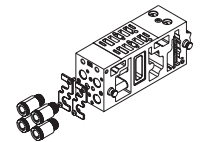
BDF-3312

2-position sub-base with
increased G1/8 ports



BDF-3331

2-position sub-base with
increased for fittings
Ø 4-6-8 mm



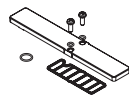
BDF-3332

2-position sub-base with
increased for fittings
Ø 4-6-8 mm



BDF-3180

separator plate
for supply pressure



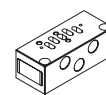
BDF-3185

blanking plate
for unused valve position



GZR-100

closing plug



BDF-3400

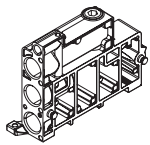
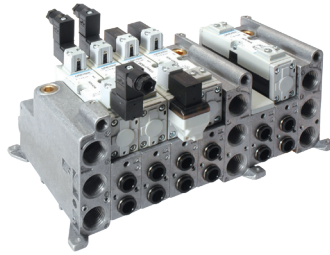
single sub-base
1 position with increased flow rate
G1/8 ports



**GZR-V10004
GZR-V10006
GZR-V10008**

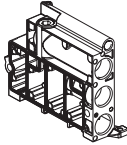
UNIVER-designed fittings for Ø 4-6-8
mm

BDA - BDB - 26 MM MANIFOLD SUB-BASES



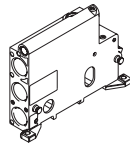
BDF-4110

supply plate
G1/2 left



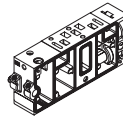
BDF-4115

supply plate
G1/2 right



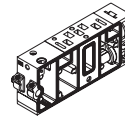
BDF-4125

intermediate
G1/2 supply plate



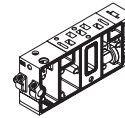
BDF-4211

1-position sub-base
according to VDMA-ISO
standards G1/4 ports



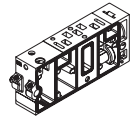
BDF-4212

1-position sub-base
according to VDMA-ISO
standards G1/4 ports



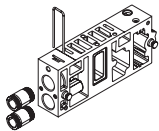
BDF-4221

1-position sub-base
according to
VDMA-ISO G3/8 ports



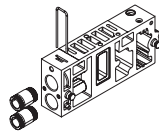
BDF-4222

1-position sub-base
according to VDMA-ISO
standards G3/8 ports



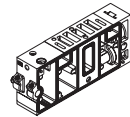
BDF-4231

1-position sub-base
according to VDMA-ISO
for fittings Ø 6-8-10 mm



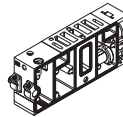
BDF-4232

1-position sub-base
according to VDMA-ISO
for fittings Ø 6-8-10 mm



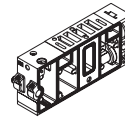
BDF-4311

1-position sub-base with
increased flow rate
G1/4 ports



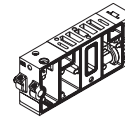
BDF-4312

1-position sub-base with
increased flow rate G1/4
ports



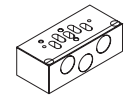
BDF-4321

1-position sub-base with
increased flow rate G3/8
ports



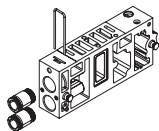
BDF-4322

1-position sub-base with
increased flow rate
G3/8 ports



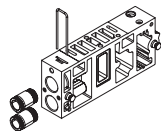
BDF-4400

single sub-base
1 position with increased
flow rate G3/8 ports



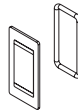
BDF-4331

1-position sub-base with
increased flow rate for
fittings Ø 6-8-10 mm



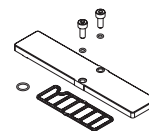
BDF-4332

1-position sub-base with
increased flow rate
for fittings Ø 6-8-10 mm



BDF-4180

separator plate
for supply pressure



BDF-4185

blanking plate
for unused valve position



**GZR-V10006
GZR-V10008
GZR-V10010**

UNIVER-designed fittings
for Ø 6-8-10 mm

COILS BDB

U05 COIL WITHOUT GROUND FASTON TERMINAL



DD-051BD	24V DC
DD-041BD	12V DC

COILS BDB

U05 15 MM COIL - FASTON



	DC	AC
DD-013	-	230
DD-040	-	24
DD-041	12	-
DD-050	-	48
DD-051	24	-
DD-060	-	110
DD-070	-	230

CONNECTORS 15 MM



AM-5109	-
---------	---

U05 COIL WITH INTEGRATED 90° UPWARD CONNECTOR



DD-351	24V DC
--------	--------

U05 COIL WITH INTEGRATED 90° DOWNWARD CONNECTOR



DD-151	24V DC
--------	--------

U05 COIL WITH IN-LINE CONNECTOR



DD-551	24V DC
--------	--------

Solenoid valves are supplied without coil and connector

MINIATURE CONNECTOR WITHOUT WIRES



D-500

MINIATURE CONNECTOR WITH LOOSE CABLES



D-530-30

D-530-50

D-530-200

MINIATURE CONNECTOR WITH CABLE



D-535-30

D-535-50

D-535-200

U05 COIL WITH LOOSE CABLES (LENGTH 300 MM)



DD-051L030

24 V DC

DD-052L030

24 V DC