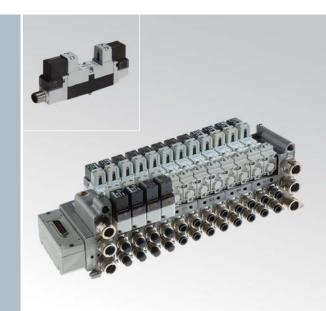


BD

ISO 15407-1/2 (VDMA 24563) ISO 02 (18 mm) - ISO 01 (26 mm) Valves

- BDE = solenoid valves ISO 15407/2 with integrated electric connection including 24 V DC coils and connector
- **BDB** = solenoid valves ISO 15407/1 with external electric connection with M12 connector including 24 V DC coils and connector
- BDA = valves and solenoid valves ISO 15407/1 (without coils and connectors to be ordered separately)
- -TC -TX Serial communication system available for BDE series
- Modular sub-base ISO-VDMA
- Sub-base with increased capacity



TECHNICAL CHARACTERISTICS

Ambient temperature	-20 ÷ +50 ℃
Fluid temperature	max +50 °C
Fluid	50 µm filtered and not dehumidified air, lubricated or not
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)	18 mm = 6, 26 mm = 8

Nominal flow rate (NI/min) for valves and solenoid valves side18 mm

Sub-base in die-cast aluminium according to standar	rd
	V

	VDMA-ISO Oversiz			re e		
Fittings:	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 (b)

Sub-base in die-cast aluminium according to standard

	VDMA-ISO				Oversize			
Fittings:	Ø6	Ø8	Ø10	Ø12 ^(c)	Ø6	Ø8	Ø10	Ø12 ^(c)
5/2	500	950	1200	1250	500	1050	1500	1700
5/3	500	900	1100	1150	500	1050	1300	1400
3/2+3/2	500	950	1150	1250	500	1050	1450	1650

- (a) = manifold sub-base 2 valve places and end plates with side connections in aluminium and fixing plate for fittings standard supplied with sub-base.
- (b) = manifold sub-base 1 valve place and end plates with side connections in aluminium and fixing plate for fittings standard supplied with sub-base.
- (c) = the external \emptyset of the G 3/8 fitting for tube \emptyset 12 mm must not exceed 20 mm

CONSTRUCTIVE CHARACTERISTICS

Body valve	acetalic resin
Cover	zamak
Seals	nitrile rubber
Sub-base	die-cast alluminium
Actuators	technopolymer
Spool	aluminium

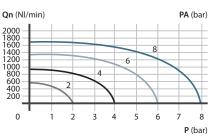
ELECTRIC CHARACTERISTICS

Electropilot	DD series (U05)
Voltage	24 V DC (± 10%), 12 V DC upon request
Power consumption	2 W
Protection degree	IP65
Manual override	with button with tool 1 position

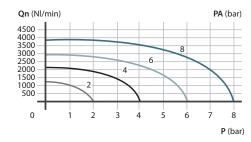
Flow rate characteristics

>> Valves and solenoid valves side 18 mm

5/2 Oversize sub-base for Ø8 mm tube



>> Valves and solenoid valves side 26 mm 5/2 Increased sub-base for Ø12 mm tube



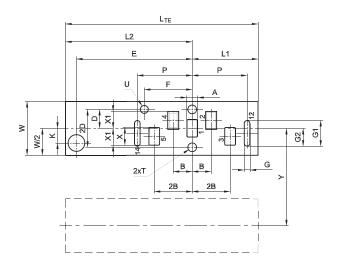
P = Working pressure PA = Supply pressure Qn = Nominal flow rate



ISO 15407 specifications

They establish the dimensions of the bearing surface and the minimum distance between two valve places, guaranteeing the interchangeability and possibility to include any valve providing it complies with above specifications.

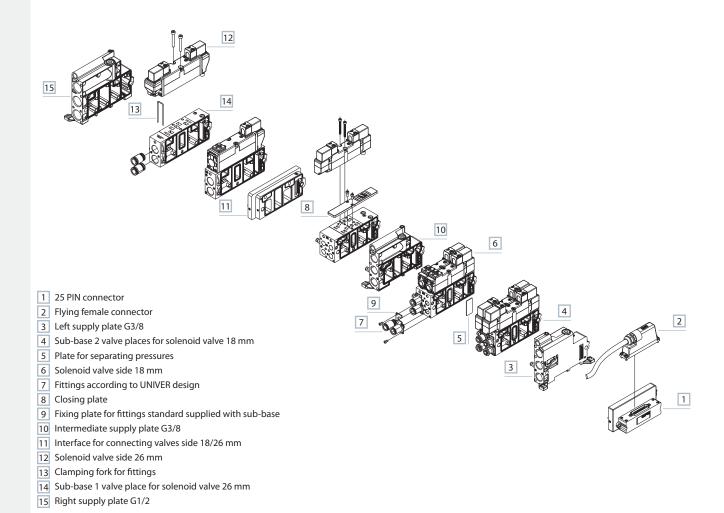
>> Dimensioning of the bearing surface according to ISO 15407-1/2 specification with integrated electric connector



Y = Min. distance between two interface axes of the same dimension mounting on the same manifolds

U = Position bore, depth **V**

	Α	В	D	Е	F	G	G1	G2	K	L1	L2	LTE	Р	Т	U	٧	W	Χ	X1	Υ
										min.	min.	min.					min.			
18 mm	3,5	7	6,25	50	17	2	8	6	3,35	25	55,5	80,5	20	M3	3,2	4	18	6,5	5,25	19
26 mm	5,5	9,5	9,5	58	24	3	13	9	7,35	33	63,5	96,5	27,5	M4	3,2	4	26	9	8,5	27



1 Series

BDE = solenoid valves with integrated electric connection 24 V DC

(including coil and connector) **BDB** = solenoid valves with integrated electric connection 24 V DC, with M12 connector (including coil and connector)

3 = side 18 mm

4 = side 26 mm

2 = 5/2 **3** = 5/3 c.c.

3 Type

4 = 5/3 o.c.

5 = 5/3 p.c. **6** = 3/2+3/2 NC-NC

7 = 3/2+3/2 NC-NO

8 = 3/2+3/2 NO-NO

4 Control 14

 $\mathbf{4}$ = electric amplified

 $\mathbf{0} = \text{pneumomechanical spring}$

1 = mechanical spring

5 Return 12

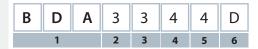
2 Size

4 = electric amplified 7 = electric not amplified 6 Coil voltage

24 = 24 V DC (standard) **12** = 12 V DC (upon request)

7 Options

D = externally servoassisted electropilot



1 Series

BDA = valves and solenoid valves (without coil and connectors to be ordered separately)

2 Size

3 = side 18 mm 4 = side 26 mm

2 = 5/2 **3** = 5/3 c.c. **4** = 5/3 o.c.

3 Type

5 = 5/3 p.c. **6** = 3/2+3/2 NC-NC

6 Options

7 = 3/2+3/2 NC-NO

8 = 3/2+3/2 NO-NO

4 Control 14

- 3 = pneumatic amplified
- **4** = electric amplified only DC
- **5** = electric amplified DC and AC

5 Return 12

- 0 = pneumomechanical spring
- 1 = mechanical spring
- 2 = pneumatic not amplified
- $\mathbf{3} = \text{pneumatic amplified}$
- 4 = electric amplifiedonly direct current **5** = electric amplified
- direct and alternating current
- **7** = electric non amplified only direct current
- 8 = electric non amplified direct and alternating current

D = externally servoassisted electropilot

>> Coils U05 side15 mm

Part no.	o. Nominal voltage		Frequency	Power consumption					
				CC	W	CA	VA		
	DC v	AC v	HZ	rating	start	rating	start		
DD-040	-	24	50/60	-	-	2,3	3,2		
DD-042	12	-	-	2,5	2,5	-	-		
DD-050	-	48	50/60	-	-	2,3	3,2		
DD-051	24	-	-	2	2	-	-		
DD-052	24	-	-	2,5	2,5	-	-		
DD-060	-	110	50/60	-	-	3,5	3,2		
DD-070	-	230	50/60	-	-	2,3	3,2		

LED connector AM-5109/AM5105 24V DC 50/60 Hz

It can rotate by 180° on the coil - IP65 - cable connection PG9

o.c. = open centres c.c. = closed centres p.c. = pressurized centre

5/2

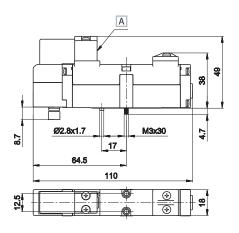
Solenoid valves with integrated electric connection



Single electric impulse 18 mm



Weight (Kg):	0,112					
Symbol	Control	Return	Pressure	Time	(ms)	Part no.
			bar	En.	De-en.	
14 7 W 12	electric amplified	pneumo mechanical spring	1,8÷9	15	25	BDE-324024
14 2 W 12	electric amplified	mechanical spring	2,5÷9	14	37	BDE-324124



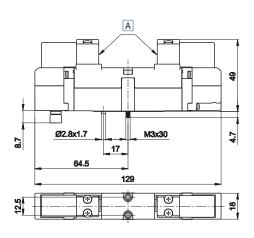
A Manual override

Double electric impulse 18 mm



	Weight (Kg):	0,131					
	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
	•			bar	En.	De-en.	
5/2	14 4 2 t2	electric amplified	electric amplified	0,8÷9	16	16	BDE-324424
5/3 c.c.	14 12 14 12 12 12 14 12 12 12 12 12 12 12 12 12 12 12 12 12	electric amplified	electric amplified	2,1÷9	14	31	BDE-334424
5/3 o.c.	14	electric amplified	electric amplified	2,1÷9	14	31	BDE-344424
5/3 p.c.	14 2 12 12	electric amplified	electric amplified	2,1÷9	31	14	BDE-354424
3/2 NC + 3/2 NC	14 12	electric amplified	electric amplified	1,8÷9	17	22	BDE-364424
3/2 NC + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	17	22	BDE-374424
3/2 NO + 3/2 NO	14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	electric amplified	electric amplified	1,8÷9	17	22	BDE-384424

o.c. = open centres c.c. = closed centres p.c. = pressurized centres



A Manual override

5/2



Single electric impulse 26 mm



Weight (Kg):	0,205					
Symbol	Control	Return	Pressure	Time	(ms)	Part no.
			bar	En	De-en.	
14 7	electric amplified	pneumo mechanical spring	1,8÷9	21	40	BDE-424024

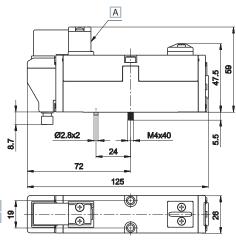
mechanical

2,5÷9

20

50

BDE-424124



A Manual override

Double electric impulse 26 mm



electric amplified

Weight (Kg):	0,232

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<u> </u>		69
8.7	Ø2.8x2 M4x40	5.5
	72	
	143	

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Δ	Manual	override
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	Symbol	Control	Return	Pressure	Time ((ms)	Part no.
				bar	En.	De-en.	
5/2	14 7 12	electric amplified	electric amplified	0,8÷9	17	17	BDE-424424
5/3 c.c.	14 7 7 7 12	electric amplified	electric amplified	2,1÷9	16	54	BDE-434424
5/3 o.c.	14 7 7 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	16	54	BDE-444424
5/3 p.c.	14 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	63	16	BDE-454424
3/2 NC + 3/2 NC	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDE-464424
3/2 NC + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDE-474424
3/2 NO + 3/2 NO	14 12 14 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	electric amplified	electric amplified	1,8÷9	20	27	BDE-484424

o.c. = open centres **c.c.** = closed centres **p.c.** = pressurized centres

5/2

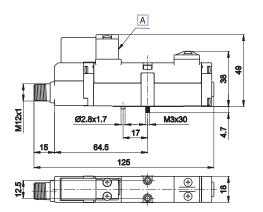


Single electric impulse 18 mm



Weight (Kg):	0,117
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Symbol	Control	Return	Pressure	Time	(ms)	Part no.
			bar	En.	De-en.	
14 7 12	electric amplified	pneumo mechanical spring	1,8÷9	15	25	BDB-324024
14 W 12	electric amplified	mechanical spring	2,5÷9	14	37	BDB-324124



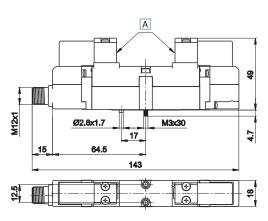
A Manual override

Double electric impulse 18 mm



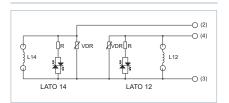
	Weight (Kg):	0,136					
	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
				bar	En.	De-en.	
5/2	14 7 12	electric amplified	electric amplified	0,8÷9	16	16	BDB-324424
5/3 c.c.	14 12 12 14 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	electric amplified	electric amplified	2,1÷9	14	31	BDB-334424
5/3 o.c.	14 7 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	14	31	BDB-344424
5/3 p.c.	14 7 7 12	electric amplified	electric amplified	2,1÷9	31	14	BDB-354424
3/2 NC + 3/2 NC	14 12 14 12 14 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	electric amplified	electric amplified	1,8÷9	17	22	BDB-364424
3/2 NC + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	17	22	BDB-374424
3/2 NO + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	17	22	BDB-384424

o.c. = open centres c.c. = closed centres p.c. = pressurize centres



A Manual override

ELECTRIC FEATURES	
Central electric connector M12x1	
IP 65 protection degree	
24 V DC voltage	
2,5 W nominal power	
DD-052** series coil (without faston)	
ED 100%	
LED indicator	
Available upon request other voltages	
max 48V DC	





5/2

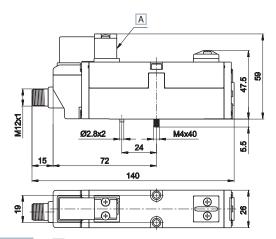


Single electric impulse 26 mm



Weight (Kg):	0,205

Symbol	Control	Return	Pressure	Time	(ms)	Part no.
			bar	En.	De-en.	
14 7 W 12	electric amplified	molla pneumo mechanical	1,8÷9	21	40	BDB-424024
14 7 W 12	electric amplified	molla mechanical	2,5÷9	20	50	BDB-424124



A Manual override

Double electric impulse 26 mm



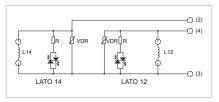
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Ø2.8x2 M4x40 158	
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Central electric connector M12x1	
P 65 protection degree	
24 V DC voltage	
2,5 W nominal power	
DD-052** series coil (without faston)	
ED 100%	
.ED indicator	

Available upon request other voltages max 48V DC





	Weight (Kg):	0,236					
	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
				bar	En.	De-en.	
5/2	14 7 12	electric amplified	electric amplified	2,5÷9	17	17	BDB-424424
5/3 c.c.	14 12 12 14 12 12 14 15 15 1 3 15 15 15 15 15 15 15 15 15 15 15 15 15	electric amplified	electric amplified	2,1÷9	16	54	BDB-434424
5/3 o.c.	14 7 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	16	54	BDB-444424
5/3 p.c.	14 A A A A A A A A A A A A A A A A A A A	electric amplified	electric amplified	2,1÷9	63	16	BDB-454424
3/2 NC + 3/2 NC	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDB-464424
3/2 NC + 3/2 NO	14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	electric amplified	electric amplified	1,8÷9	20	27	BDB-474424
3/2 NO + 3/2 NO	14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	electric amplified	electric amplified	1,8÷9	20	27	BDB-484424

o.c. = open centres c.c. = closed centres p.c. = pressurize centres

5/2



Single electric impulse 18 mm



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Symbol	Control	Return	Pressure	Time	(ms)	Part no.
			bar	En.	De-en.	
14 7 W 12	electric amplified	pneumo mechanical spring	1,8÷9	15	25	BDA-3240
14 2 W 12	electric amplified	mechanical spring	2,5÷9	14	37	BDA-3241

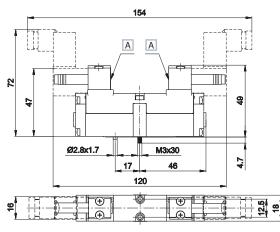
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A Manual override

A Manual override

Double electric impulse18 mm





	Weight (Kg):	0,123					1
	Symbol	Control	Return	Pressure	Time ((ms)	Part no.
				bar	En.	De-en.	
5/2	14 7 7 12	electric amplified	electric amplified	0,8÷9	16	16	BDA-3244
5/3 c.c.	14 2 11 11 11 11 11 11 11 11 11 11 11 11 1	electric amplified	electric amplified	2,1÷9	14	31	BDA-3344
5/3 o.c.	14 7 7 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	14	31	BDA-3444
5/3 p.c.	14 7 7 12	electric amplified	electric amplified	2,1÷9	31	14	BDA-3544
3/2 NC + 3/2 NC	116 12	electric amplified	electric amplified	1,8÷9	17	22	BDA-3644
3/2 NC + 3/2 NO	14 12 14 14 15 31 17 2	electric amplified	electric amplified	1,8÷9	17	22	BDA-3744
3/2 NO + 3/2 NO	14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	electric amplified	electric amplified	1,8÷9	17	22	BDA-3844

o.c. = open centres c.c. = closed centres p.c. = pressurized centres

5/2



47.5

Single electric impulse 26 mm



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	Ø2.8x2		M4x40		-	
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A Manual override

A Manual override

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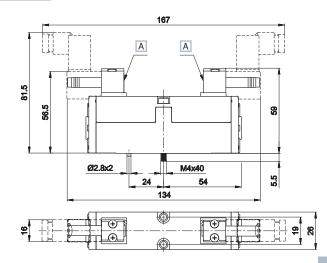
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Weight (Kg): 0,197

Зуппоот	Control	netuiii	riessuie	Time	(1115)	Part IIO.
			bar	En.	De-en.	
14 7 W 12	electric amplified	pneumo mechanical spring	1,8÷9	21	40	BDA-4240
14 7 W 12	electric amplified	mechanical spring	2,5÷9	20	50	BDA-4241

Double electric impulse 26 mm





Weight (Kg):	0,218

	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
				bar	En.	De-en.	
5/2	14 7 12	electric amplified	electric amplified	1,2÷9	17	17	BDA-4244
5/3 c.c.	14 12 14 12 12 12 12 12 12 12 12 12 12 12 12 12	electric amplified	electric amplified	2,1÷9	16	54	BDA-4344
5/3 o.c.	14 T T T T T T T T T T T T T T T T T T T	electric amplified	electric amplified	2,1÷9	16	54	BDA-4444
5/3 p.c.	14 7 7 7 7 7 12	electric amplified	electric amplified	2,1÷9	63	16	BDA-4544
3/2 NC + 3/2 NC	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDA-4644
3/2 NC + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDA-4744
3/2 NO + 3/2 NO	14 12	electric amplified	electric amplified	1,8÷9	20	27	BDA-4844

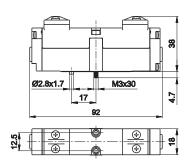
o.c. = open centres c.c. = closed centres p.c. = pressurized centres

BDA solenoid valves are supplied without coils and connectors



Single/double **pneumatic** impulse **18 mm**





	Weight (Kg): 0,092/0,	098					
	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
				bar	En.	De-en.	
5/2	14 2 12 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	pneumatic amplified	pneumo mechanical spring	1,8÷10	13	30	BDA-3230
5/2	14 2 12 WW	pneumatic amplified	mechanical spring	2,5÷10	11	35	BDA-3231
5/2	4 2	pneumatic amplified	pneumatic amplified	0,8÷10	8	8	BDA-3233
5/3 c.c.	14 W 12 T 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	pneumatic amplified	pneumatic amplified	2,1÷10	9	15	BDA-3333
5/3 o.c.	14 W 12 T 1 3 1 3	pneumatic amplified	pneumatic amplified	2,1÷10	9	15	BDA-3433
5/3 p.c.	14 W 12 5 1 3	pneumatic amplified	pneumatic amplified	2,1÷10	9	15	BDA-3533
3/2 NC + 3/2 NC	14 12	pneumatic amplified	pneumatic amplified	1,8÷10	5	14	BDA-3633
3/2 NC + 3/2 NO	14 12 1	pneumatic amplified	pneumatic amplified	1,8÷10	5	14	BDA-3733
3/2 NO + 3/2 NO	14 12 1	pneumatic amplified	pneumatic amplified	1,8÷10	5	14	BDA-3833

o.c. = open centres **c.c.** = closed centres **p.c.** = pressurized centres

Single/double pneumatic impulse 26 mm



Weight (Kg):

13/11	B
618	d

0,185/0,204

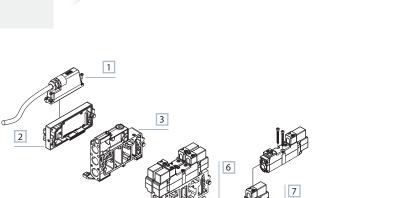
	Symbol	Control	Return	Pressure	Time	(ms)	Part no.
	5,	20		bar	En.	De-en.	
5/2	14 2 12	pneumatic amplified	pneumo mechanical spring	1,8÷10	15	33	BDA-4230
5/2	14 2 12 WW	pneumatic amplified	mechanical spring	2,5÷10	13	38	BDA-4231
5/2	14 7 12	pneumatic amplified	pneumatic amplified	1,2÷10	10	10	BDA-4233
5/3 c.c.	14 W 12 	pneumatic amplified	pneumatic amplified	1,2÷10	14	18	BDA-4333
5/3 o.c.	14 W 12 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pneumatic amplified	pneumatic amplified	1,2÷10	14	18	BDA-4433
5/3 p.c.	14 W 12 5 1 3	pneumatic amplified	pneumatic amplified	1,2÷10	14	18	BDA-4533
3/2 NC + 3/2 NC	14 12 12 12 13 14 12 13 14 12 13 14 12 13 14 12 13 14 12 13 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	pneumatic amplified	pneumatic amplified	1,8÷10	8	14	BDA-4633
3/2 NC + 3/2 NO	14 12	pneumatic amplified	pneumatic amplified	1,8÷10	8	14	BDA-4733
3/2 NO + 3/2 NO	14 12 V	pneumatic amplified	pneumatic amplified	1,8÷10	8	14	BDA-4833

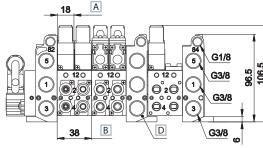
o.c. = open centres **c.c.** = closed centres **p.c.** = pressurized centres

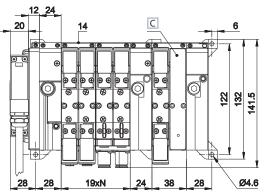


Integrated electric connection side 18 mm









- 1 Flying female connector
- 2 Male connector
- 3 Left supply plate G3/8
- 4 Fixing plate for fittings
- 5 Straight fittings
- 6 Plate for separating pressures
- 7 Integrated electric connection
- 8 Intermediate supply plate G3/8
- 9 Solenoid vale side 18 mm
- 10 Closing plate
- 11 Sub-base 2 valve places
- 12 Right supply plate G3/8

- A Valve thickness
- B Sub-base 2 places valve
- C Closing plate for unused valve place BDF-3185
- D Intermediate supply plate
 - 1 = Supply port
- 2 4 = Use
- 3 5 = Exhaust
 - 14 = Control
 - 12 = Return
 - N = Number of valve places

BDF-3100 **BDF-3115 BDF-3120** BDF-3140TIM BDF-3180 BDF-3185 BDF-3190

11



left supply plate G3/8 with integrated electric connection weight: 0,292 Kg



right supply plate G3/8 weight: 0,276 Kg



8

intermediate supply plate G3/8 with integrated electric connection weight: 0,29 Kg



multiway connection module, 25 poles male type D side 18 mm weight: 0,158 Kg



plate for separating supply pressures weight: 0,002 Kg



plate for closing unused valve place weight: 0,038 Kg



interface for connecting valves side 18-26 mm with integrated electric weight: 0,216 Kg

GZR-V10004/06/08

BDF-3210 (b)

BDF-3230(a) - (b)

BDF-3310(b)



BDF-3400

single sub-base



GZR-100



fittings according to UNIVER design (package 50 pcs.) GZR-V10004 Ø4 mm GZR-V10006 Ø6 mm GZR-V10008 Ø8 mm weight: 0,01 Kg each.





according to VDMA-ISO specifications with increased capacity 800 NI/min flow rate 620 NI/min for fittings Ø 4-6-8 mm G1/8 connections weight: 0,322 Kg weight: 0,334 Kg

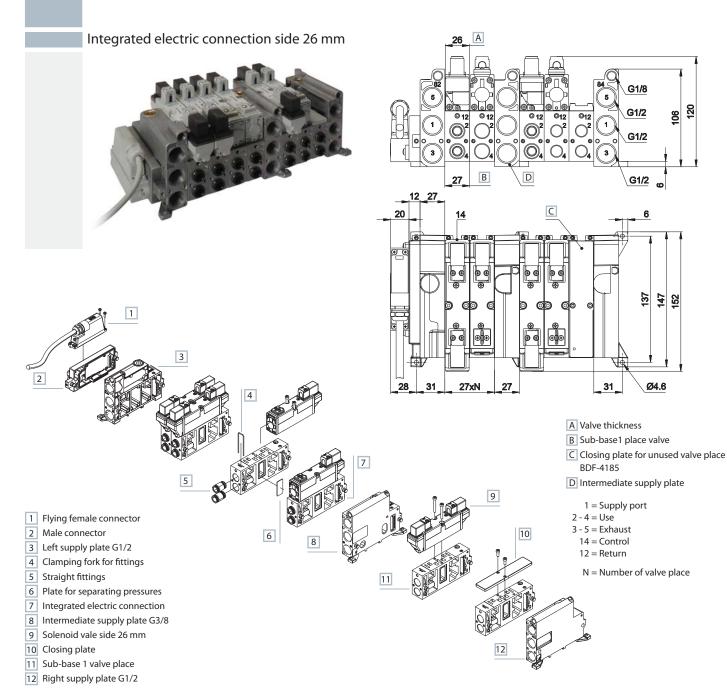


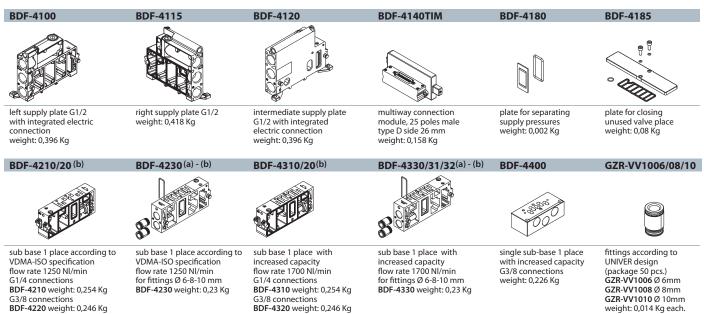
sub base 2 places with increased capacity 800 NI/min for fittings Ø 4-6-8 mm weight: 0,334 Kg



screw plug weight: 0,01 Kg



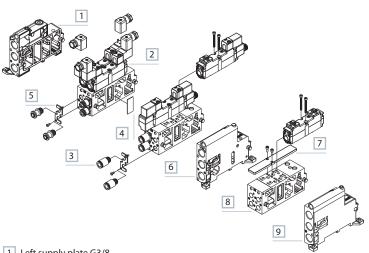




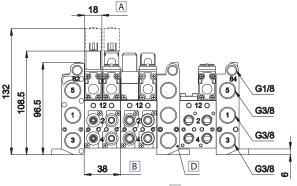


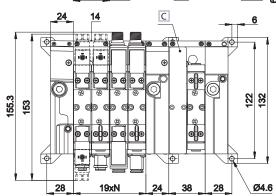
Electric connection with external connector side 18 mm





- 1 Left supply plate G3/8
- 2 Solenoid valve
- 3 Straight fittings
- 4 Plate for separating pressures
- 5 Fixing plate for fittings
- 6 Intermediate supply plate G3/8
- 7 Closing plate
- 8 Sub-base 2 valve places
- 9 Right supply plate G3/8





- A Valve thickness
- B Sub-base 2 places valve
- C Closing plate for unused valve place BDF-3185
- D Intermediate supply plate
 - 1 = Supply port
- 2 4 = Use
- 3 5 = Exhaust
- 14 = Control
- 12 = Return

N = Number of valve places

BDF-3180 BDF-3185 BDF-3400 BDF-3191 left supply plate G3/8 weight: 0,288 Kg right supply plate G3/8 weight: 0,276 Kg plate for closing unused valve place intermediate supply plate for separating interface for connecting single sub-base plate G3/8 without pressures weight: 0,002 Kg valves side 18-26 mm 1 place with with integrated electric connection integrated electric connection weight: 0,31 Kg increased capacity weight: 0.038 Kg G1/8 connections weight: 0,212 Kg weight: 0,12 Kg **GZR-100** BDF-3210/1/2 (b) GZR-V10004/6/8 DD-051/.. sub base 2 places sub base 2 places sub base 2 places sub base 2 places screw plug fittings according to U05 coil side15 mm according to VDMA-ISO specifications flow rate 620 NI/min according to VDMA-ISO specifications flow rate 620 NI/min with increased capacity 800 NI/min with increased capacity flow rate 800 NI/min weight: 0,01 Kg UNIVER design (package 50 pcs.) GZR-V10004 Ø4 mm (for technical features refer to section

(a) = sub-base including fixing plates for fittings (fittings excluded)

weight: 0,326 Kg

for fittings Ø 4-6-8 mm

BDF-3230

BDF-3232

attacchi G1/8 BDF-3310 BDF-3311

weight: 0,316 Kg

(b) = part no. codification: **0** = **electric integrated**

1 = electric non integrated

weight: 0,326 Kg

for fittings Ø 4-6-8 mm BDF-3330 BDF-3331

2 =only pneumatic

GZR-V10006 Ø6 mm GZR-V10008 Ø8 mm

weight: 0,01 Kg cad.

"Accessories>Coils")

weight: 0,019 Kg

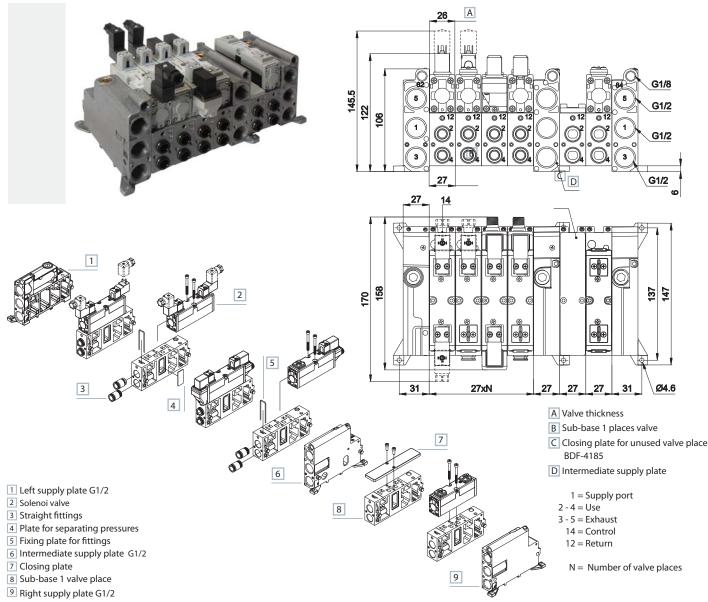
G1/8 connections

weight: 0,316 Kg

BDF-3210

BDF-3212

Electric connection with external connector side 26 mm







left supply plate G1/2 weight: 0,428 Kg



right supply plate G1/2 weight: 0,418 Kg



left supply plate G1/2 without integrated electric connection weight: 0,42 Kg



plate for separating supply pressures weight: 0,002 Kg



plate for closing unused valve place weight: 0,08 Kg



single sub-base 1 place with increased capacity G3/8 connections weight: 0,226 Kg

BDF-4210/..(b)

sub base 1 place according to VDMA-ISO specification flow rate 1250 NI/min

G1/4 connect. G3/8 connect. BDF-4210 BDF-4220 BDF-4211 BDF-4221 BDF-4222



sub base 1 place according to VDMA-ISO specification flow rate 1250 NI/min for fittings Ø 6-8-10 mm BDF-4230 BDF-4231



sub base 1 place with increased capacity 1700 NI/min G1/4 connect. G3/8 connect. BDF-4310 BDF-4320 BDF-4311 BDF-4321 BDF-4312 BDF-322 weight: 0,244 Kgweight: 0,236 Kg



sub base 1 place with increased capacity 1700 NI/min for fittings Ø 6-8-10 mm BDF-4330 BDF-4331 BDF-4332 weight: 0,22 Kg



GZR-VV1006/8/10

fittings according to UNIVER design (package 50 pcs.) GZR-VV1006 Ø 6mm GZR-VV1008 Ø 8mm GZR-VV1010 Ø 10mm weight: 0,014 Kg cad.



DD-051/..

U05 coil side 15 mm (for technical features refer to section "Accessories>Coils") weight: 0,019 Kg

weight: 0,22 Kg

⁽a) = sub-base including fixing plates for fittings (fittings excluded)

⁽b) = part no. codification: 0 = electric integrated



Electric connection

AM-5109

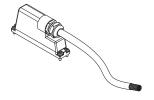
TSCFN24S000

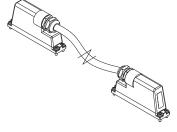
TSCFN24S0300 TSCFN24S0500 TSCFN24S1000

TSCFN16D0300 TSCFN16D0500 TSCFN16D1000







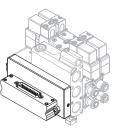


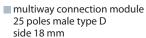
■ 15 mm connector

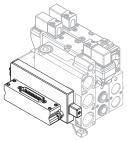
■ famale connector 25 poles type D-sub no cable ■ famale connector 25 poles type D-sub cable 3-5-10 m male/famale flying connector sub D (upon request) prewired for 24 coils with cable Ø 8 mm (3-5-10 m lenght) suitable for mobile laying

BDF-3140 TIM

BDF-4140 TIM







■ multiway connection module 25 poles male type D side 26 mm

>>Colour identification according to standard **DIN 47100**

Female connector **D-SUB 25 poles** for connection **12+12 coils**



PIN No.	Control side	Valve N°	Colour	Coil
1	14	1	white	1
2	12	1	brown	2
3	14	2	green	3
4	12	2	yellow	4
5	14	3	grey	5
6	12	3	pink	6
7	14	4	blue	7
8	12	4	red	8
9	14	5	black	9
10	12	5	violet	10
11	14	6	grey-pink	11
12	12	6	red-blue	12
13	14	7	white-green	13
14	12	7	green-brown	14
15	14	8	white-yellow	15
16	12	8	yellow-brown	16
17	14	9	white-grey	17
18	12	9	grey-brown	18
19	14	10	white-pink	19
20	12	10	pink-brown	20
21	14	11	white-blue	21
22	12	11	brown-blue	22
23	14	12	white-red	23
24	-	_	brown-red brown-black shield	common low
25	12	12	white-black	24