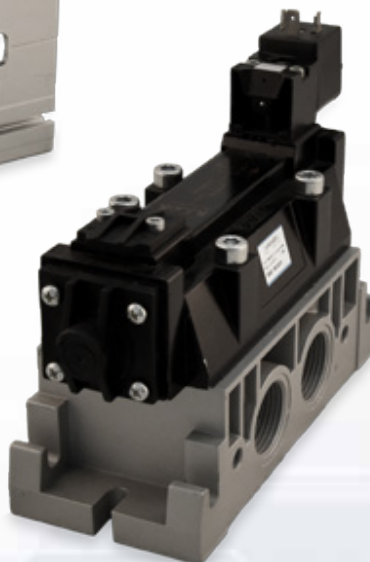


**PNEUMATIC
AUTOMATION**

**CYLINDERS
HIGH-TECH
VALVES
FRL
ACCESSORIES**



www.univer-group.com



Valves

ISO 15218 - 10 MM NANOVALVES - B11/B10/B12

Manual override
(standard)



No manual
override
(on request)



LED



interface
ISO 15218
(on request)



90° connector



In-line connector



In-line PIN



90° cables



In-line cables



STANDARD B11	Low consumption B10	High flow rate (B12)	Magnetic memory (LATCHING)
			
1 W 10 NI/min	0,3 W 10 NI/min	0,6 W 28 NI/min Special version 40 NI/min	Energizing through short impulse, de-energizing through the same impulse with inverted polarity.

ISO 15218 - 10 MM NANOVALVES - 1 W STANDARD



Pressure
Max 7 bar (0.7 MPa)



Temperature
- 5 °C
+ 50 °C

CHARACTERISTICS

Fluid	10 µm filtered air, with or without lubrication
Oforating frequency	5 Hz
Fixing	n. 2 screws M1,7
Connections	interface ISO 15218
Nominal bore (mm)	0,7
Nominal flow rate (NI/min)	10
Valve body	self-extinguishing technopolymer
Seals	VITON/NBR
Voltage	24 V DC (12 V DC on request)
Power consumption	1 W
Power consumption	D-535U40 (IP65), solder pin (IP00), Molex
Led	yellow (standard)
Manual override	monostable button



Series	Model	Type	Function	Variant	Voltage
B 1 1	4	0	1	L	2 4 D
B11 Nanovalves standard 10 mm ISO 15218	4 Monostable	0 = 3/2 NC 1 = 3/2 NO	1 Whit manual override, Variant L 2 Without manual override L 3 Whit manual override, Variant P 4 Without manual override, Variant P 5 Whit manual override, Variant M 6 Without manual override, Variant M	L 90° connector (protected pins) M In-line connector protected pins (on request) P In-line connector (for assembly on electronic board)	24D 24 V DC on request 12D 12 V DC

Fixing screws standard supplied. Max tightening torque 0,15 Nm
Other versions on request: in-line cables and 90° cables

Connector 90° (Protected PIN)	In-line PIN	D-535U40300/500	D-530-30/50/200
B11-401L24D 	B11-403P24D 		
B11-411L24D 	B11-413P24D 	Single connector with wire D-535U40300 = wire length 300 mm D-535U40500 = wire length 500 mm	Miniature connector with loose cables D-530-30 = wire length 300 mm D-530-50 = wire length 500 mm D-530-200 = wire length 2000 mm

SERIES B10 - 10 MM NANOVALVES - LOW POWER CONSUMPTION - ISO 15218



Pressure
Max 7 bar (0.7 MPa)



Temperature
- 5 °C
+ 50 °C

CHARACTERISTICS

Fluid	10 µm filtered air, with or without lubrication
Oforating frequency	5 Hz
Fixing	n. 2 screws M1,7
Connections	ISO 15218 interface
Nominal bore (mm)	0,7
Nominal flow rate (NI/min)	10
Valve body	self-extinguishing technopolymer
Seals	VITON/NBR
Voltage	24 V DC (12 V DC on request)
Power consumption	0,3 W (inrush 1,3 W)
Power consumption	D-535U40 (IP65), solder pin (IP00), Molex
Led	yellow (standard)
Manual override	monostable button



Series	Model	Type	Function	Variant	Voltage
B 1 0	4	0	1	L	2 4 D
B10 10 mm low consumption nanovalves ISO 15218	4 Monostable	0 = 3/2 NC	1 With manual override, Variant L 2 Without manual override, Variant L 3 With manual override, Variant P 4 Without manual override, Variant P 5 With manual override, Variant M 6 Without manual override, Variant M	L Connector 90° (Protected PIN) M Connector In-line (protected PIN, Molex connection) P In-line PIN (suitable for mounting on circuit boards)	24D 24 V DC on request 12D 12 V DC

Fixing screws supplied with series. Maximum tightening torque 0.15 N·m
Other versions available on request: wires exiting in line and at 90°

Connector 90° (Protected PIN)	In-line PIN	In-line PIN bistable (with magnetic memory)
B10-401L24D 	B10-403P24D 	This version is energized by an electrical impulse and de-energized by a similar impulse with inverted polarity

D-535U40300/500	D-530-30/50/200
Single connector with wire D-535U40300 = wire length 300 mm D-535U40500 = wire length 500 mm	Miniature connector with loose cables D-530-30 = wire length 300 mm D-530-50 = wire length 500 mm D-530-200 = wire length 2000 mm

SERIES B12 - NANOVALVES 10MM - HIGH FLOW RATE - ISO 15218



Pressure
Max 7 bar (0.7 MPa)



Temperature
- 5 °C
+ 50 °C

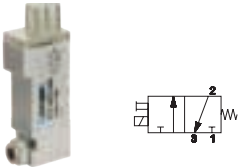
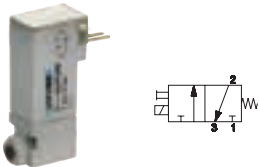
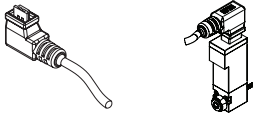
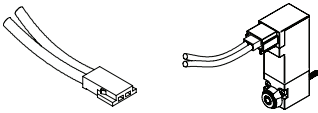
CHARACTERISTICS

Fluid	10 µm filtered air, with or without lubrication
Oforating frequency	5 Hz
Fixing	n. 2 screws M1,7
Connections	interface ISO 15218
Nominal bore (mm)	1,3
Nominal flow rate (NI/min)	28
Valve body	self-extinguishing technopolymer
Seals	VITON/NBR
Voltage	24 V DC (12 V DC on request)
Power consumption	0,6 W (speed-up 5,5 W)
Power consumption	D-535U40 (IP65), pin solder (IP00), Molex
Led	yellow (standard)
Manual override	monostable button

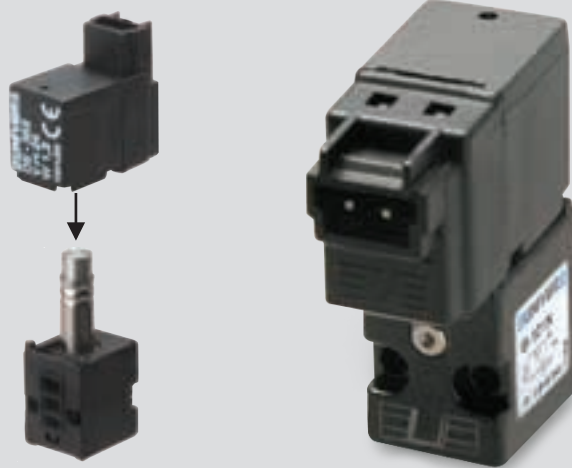


Series	Model	Type	Function	Variant	Voltage
B 1 2	4	0	1	L	2 4 D
B12 Nanovalves 10 mm 0,6 W high flow rate ISO 15218	4 Monostable	0 = 3/2 NC	1 With manual override, Variant L 2 Without manual override, Variant L 3 With manual override, Variant P 4 Without manual override, Variant P 5 With manual override, Variant M 6 Without manual override, Variant M	L Connector 90° (protected PIN) M In-line connector (protected PIN, Molex connection) P In-line PIN (suitable for mounting on circuit boards)	24D 24 V DC on request 12D 12 V DC

Fixing screws standard supplied. Max tightening torque 0,15 Nm
Other versions (on request): In-line cables and 90° cables, nominal flow rate 40 NI/min

Connector 90° (Protected PIN)	In-line PIN	D-535U40300/500	D-530-30/50/200
B12-401L24D	B12-403P24D		
			
		Single connector with wire D-535U40300 = wire length 300 mm D-535U40500 = wire length 500 mm	Miniature connector with loose cables D-530-30 = wire length 300 mm D-530-50 = wire length 500 mm D-530-200 = wire length 2000 mm

B 10 mm
1,2 W
12 NL/min



DETENT SYSTEM UNIVER Original since 1988

B 10 mm 3/2 NC-NO



Revolving coil
180° x 180°



Manual
override



Conveyed
exhaust



Athmosphere
exhaust



Connector 90°



Connector In-line



Loose cables



Reference standard

ATEX
2014/34/UE



Pressure

Max 8 bar (0.8 MPa)



Temperature

- 5 °C
+ 50 °C

CHARACTERISTICS

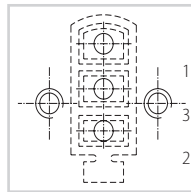
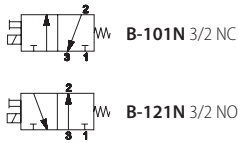
Fluid	10 µm filtered air, with or without lubrication
Commuation system	poppet
Fixing	n. 2 screws M 1,6
Connections	on sub-base
Nominal bore (mm)	0,5 - 0,6
Nominal flow rate (NI/min)	9 - 12
Frequency Max	2300 ÷ 3000 cycles/min
Valve body	technopolymer (aluminium external cover)
Seals	NBR
Power consumption	1,2 W (1,35 W with LED) - 0,5 W (speed-up 1,2 W)
Electrical connection	Molex bipolar connector or loose cables
Voltage	12 V DC - 24 V DC
Manual override	recessed button - 1 position

CE II 3GD c nA II T5-10°C ≤ Ta ≤ 45°C

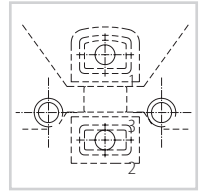
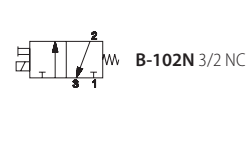


Revolving coil 180°x180°

Valves with conveyed exhaust



Valves with atmosphere exhaust



COILS

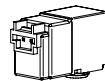
Coil with 90° upward connector
12 V DC on request



DE-352
DE-452

24 V DC 1,2 W
24 V DC 1,35 W

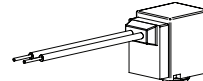
Coil with integrated in-line connector
12 V DC on request



DE-552
DE-652

24 V DC 1,2 W
24 V DC 1,35 W

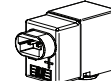
Coil with loose cables
12 V DC on request



DE-052L030

24 V DC 1,2 W

Coil with in-line connector with protection for a complete tightness



DE-642I
DE-652I

12 V DC 1,35 W
24 V DC 1,35 W

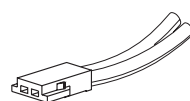
CONNECTOR

Miniature connector
without wires



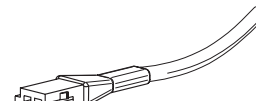
D-500

D-530-30/50/200



Miniature connector with loose cables
D-530-30 = wire length 300 mm
D-530-50 = wire length 500 mm
D-530-200 = wire length 2000 mm

D-535-30/50/200



Miniature connector with cables
D-535-30 = wire length 300 mm
D-535-50 = wire length 500 mm
D-535-200 = wire length 2000 mm

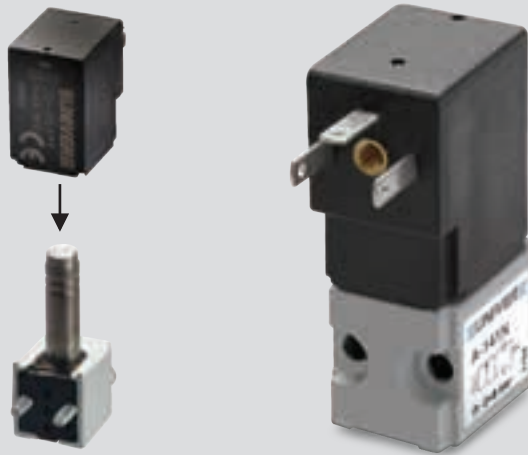
On request
0,5 W

Low power consumption



Solenoid valves are supplied without coil and connector

A 15 mm
2 W
38 NL/min



A 15 mm 2/2 NC - NO, 3/2 NC - NO



Revolving coil
90° x 90°



Manual
override



ISO 15218
interface



Faston



Connector 90°



Connector In-line



Loose cables



Reference standard

ATEX
2014/34/UE



Pressure

Max 9 bar (0.9 MPa)



Temperature

- 5 °C
+ 50 °C

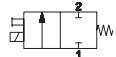
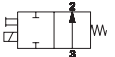
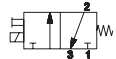
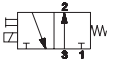
CHARACTERISTICS

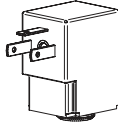
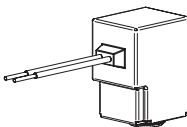
Fluid	10 µm filtered air, with or without lubrication	
Commutation system	poppet	
Fixing	n. 2 screws M3	
Connections	interface ISO 15218	
Nominal bore (mm)	1,2	1,5
Nominal flow rate (NI/min)	26	38
Frequency Max	2700 cycles/min	
Valve body	technopolymer (aluminium external cover)	
Seals	NBR	
Power consumption	2 W DC/2,3 VA AC (Ø 1,2) - 2,5 W DC/3,5 VA AC	
Electrical connection	Connector 15 mm - Molex bipolar connector or loose cables	
Voltage	24 V DC - 12 V DC - 24 V AC - 110 V AC - 230 V AC	
Manual override	recessed button - 1 position (other manual overrides on request)	
Protection degree with connector	IP65	

CE II 3GD c T5 -10°C ≤ Ta ≤ 45°C



Revolving coil 90°x90°

Microvalve 15 mm NC					NO				
		2/2 NC	Ø	Voltage			2/2 NO	Ø	Voltage
		A-141N	1,2	DC 2 W			A-161N	1,2	DC 2 W
		A-151N	1,2	DC/AC 2 W / 2 VA			A-171N	1,2	DC/AC 2 W / 2 VA
		A-142N	1,5	DC 2,5 W					
		A-152N	1,5	DC/AC 2,5 W / 3,5 VA					
		3/2 NC				3/2 NO			
		A-101N	1,2	DC 2 W		A-121N	1,2	DC 2 W	
		A-111N	1,2	DC/AC 2 W / 2 VA		A-131N	1,2	DC/AC 2 W / 2 VA	
		A-102N	1,5	DC 2,5 W					
		A-112N	1,5	DC/AC 2,5 W / 3,5 VA					

Coils					
	DD-013	230 V AC - 50/60 Hz - 3,5 VA		DD-051L030	24 V DC - 2 W
	DD-040	24 V AC - 50/60 Hz - 2,3 VA			DD-052L030
	DD-041	12 V DC - 2 W (On request)			
	DD-042	12 V DC - 2,5 W (On request)			
	DD-050	48 V AC - 50/60 Hz - 2,3 VA			
	DD-051	24 V DC - 2 W			
	DD-052	24 V DC - 2,5 W			
	DD-060	110 V AC - 50/60 Hz - 3,5 VA			
DD-070	230 V AC - 50/60 Hz - 2,3 VA				
Coil 24 V DC 2 W Faston connector On request 12 V DC			On request 12 V DC		

Sub-base for external electrical connection	Sub-base for integrated electrical connection	1	2	3	4
A-326A-__ G1/8 (standard) A-326B-__ M5 (on request) A-326D-__ tube 4 (on request) __ = Number of positions	For further information please contact our Sales Office	manual intervention 1 = Recessed button - 1 position (standard supplied) 2 = Impulse screw - 1-2 positions (on request) 3 = Front button - 1 position (on request) 4 = Key button - 1 position (on request)			→ ⊖ → →

A-299-11	A-301	A-305	A-350	A-345
Sealing plate	Blank end-plate	Single base	Inverter plate	46277/3 (EN50022) DIN rail adaptor

Solenoid valves are supplied without coil and connector



Reference standard

ATEX
2014/34/UE



Temperature

- 10 °C
+ 50 °C

CHARACTERISTICS

Fluid	50 µm filtered air, with or without lubrication; neutral gases (versions for different fluids available on request)
Commutation system	direct intervention poppet with cushioned seals
Pressure	0 ÷ 10 bar (2/2, 3/2 NC), 3 ÷ 10 bar (3/2 NO)
Connections	on sub-base / threaded on the body
Sleeve	AA
Coil	series U1-U3 DA - DC
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Protection degree	IP65

CE II 2Gc IIT5 II2Dc T100°C



	Sottobase	G 1/8	M5	CNOMO
Nominal bore (mm)	1,2 ÷ 1,5	1 ÷ 1,5	1 ÷ 1,5	1,2 ÷ 1,5
Nominal flow rate (l/min)	30 ÷ 60	28 ÷ 60	30 ÷ 60	33 ÷ 45
Power consumption	3,5 W (DC) - 5 VA (AC)		2,5 W (DC) - 3,3 VA (AC)	
Connector	AM-5110			AM-5111

AA Sleeves - with moving core



AA-0150 3/2 NO
AA-0157 3/2 NC
AA-0170 2/2 NC

Coil-sleeve locking nuts



AM-5213A 3/2 NO
AM-5211A 3/2 NC
AM-5211B 2/2 NC

Electropilot AA 2/2 - 3/2 for mounting on SPEED G1/8 sub-base	Electropilot AA 2/2 - 3/2 G1/8	Electropilot AA 2/2 - 3/2 M5	2/2 - 3/2 AA sub-base CNOMO Electropilot
AA-0184 	AA-0211 	AA-0231 	AA-0400 AA-0400U
AA-0186 	AA-0219 	AA-0239 	AA-0402
AA-0188 	AA-0213 	AA-0233 	AA-0404

Speed series modular sub-base SPEED/CNOMO

Sub-base SPEED - G1/8



AA-0450



Example
Electropilot U1
2/2 - 3/2



AB-0900



Example
Electropilot U1
2/2 - 3/2 CNOMO

Manual override:

Impulse screw – 2 positions (standard supplied). Recessed button - 1 position, Impulse screw - 1-2 positions, Locking nut with button – 1 position (on request)

Solenoid valves are supplied without coil, connector

SERIES AA - ELECTROPILOTS 10 MM

U1 coil - 22 mm side, can be combined with AA electric pilot	Code	Tension
	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

U3 coil - 30 mm side, can be combined with AA electric pilot	Code	Tension
	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 for U1 coils	Code	
	AM-5110	IP 65 protection rating. PG9 cable connection. 180° adjustable on the reel.
		With indicator light on request

Connettore DIN 43650 per bobine serie U3	Code	
	AM-5111	IP65 protection rating. PG9 cable connection. 360° adjustable on the reel.
		With indicator light on request



Reference standard

ATEX
2014/34/UE



Temperature

- 10 °C
+ 50 °C

CHARACTERISTICS

Fluid	10 µm filtered air, with or without lubrication; neutral gases (versions for different fluids available on request)
Commutation system	direct intervention poppet with cushioned seals
Pressione	0 ÷ 10 bar (2/2, 3/2 NC), 3 ÷ 10 bar (3/2 NO)
Connections	on sub-base / threaded on the body
Power consumption	11W (DC) - 10 VA (AC)
Connector	AM-5111
Canotto	AB
Coil	series U2 - DB
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Grado di protection	IP65

CE II 3GD c nA II T5-10°C ≤ Ta ≤ 45°C



	sub-base	G 1/8	G1/4	CNOMO
Nominal bore (mm)	2,1 ÷ 2,4	2,1 ÷ 2,4	1,6 ÷ 6	2,1 ÷ 2,4
Nominal flow rate (Nl/min)	92 ÷ 150	100 ÷ 155	95 ÷ 650	92 ÷ 110

AB Sleeves - with moving core		Coil-sleeve locking nuts		SPEED series modular sub-base G1/8			
	AB-0600 3/2 NO AB-0613 3/2 NC AB-0640 2/2 NC AB-0643 2/2 NC (A)		AM-5214A 3/2 NO AM-5212A 3/2 NC AM-5212B 2/2 NC		AB-0900		Elettropilotti U2 2/2 - 3/2 CNOMO

2/2 - 3/2 AB Electropilot For mounting on SPEED CNOMO sub-base G1/8	AB Electropilot G1/8	2/2 - 3/2 AB Electropilot G1/4	2/2 - 3/2 AB CNOMO Electropilot For mounting on G1/8 SPEED CNOMO sub-base																																	
 AB-0681  AB-0687  AB-0685  AB-0722  AB-0728	 AB-0751  AB-0757  AB-0755  AB-0765  AB-0771	 AB-0822  AB-0819 <table><tr><th>Cod.</th><th>Ø</th><th>Pressure</th></tr><tr><td>AB-0824</td><td>1,6</td><td>30</td></tr><tr><td>AB-0825</td><td>2</td><td>20</td></tr><tr><td>AB-0826</td><td>2,4</td><td>15</td></tr><tr><td>AB-0827</td><td>3</td><td>10</td></tr><tr><td>AB-0828</td><td>3,5</td><td>9</td></tr><tr><td>AB-0829</td><td>4</td><td>8</td></tr><tr><td>AB-0830</td><td>4,5</td><td>7</td></tr><tr><td>AB-0831</td><td>5</td><td>6,5</td></tr><tr><td>AB-0832</td><td>5,5</td><td>6</td></tr><tr><td>AB-0833</td><td>6</td><td>5</td></tr></table> 	Cod.	Ø	Pressure	AB-0824	1,6	30	AB-0825	2	20	AB-0826	2,4	15	AB-0827	3	10	AB-0828	3,5	9	AB-0829	4	8	AB-0830	4,5	7	AB-0831	5	6,5	AB-0832	5,5	6	AB-0833	6	5	 AB-0885  AB-0886  AB-0888
Cod.	Ø	Pressure																																		
AB-0824	1,6	30																																		
AB-0825	2	20																																		
AB-0826	2,4	15																																		
AB-0827	3	10																																		
AB-0828	3,5	9																																		
AB-0829	4	8																																		
AB-0830	4,5	7																																		
AB-0831	5	6,5																																		
AB-0832	5,5	6																																		
AB-0833	6	5																																		

Manual override:

Impulse screw – 2 positions (standard supplied). Recessed button - 1 position, Impulse screw - 1-2 positions, Locking nut with button – 1 position (on request)

Solenoid valves are supplied without coil, connector

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

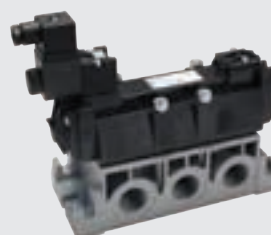
4200 NI/min



M12

BE 6 - ISO 4

6600 NI/min





Reference standard

ATEX
2014/34/UE



Pressure

Max 10 bar (1 MPa)

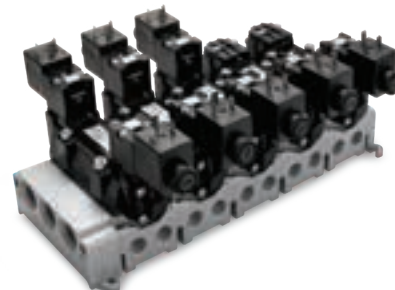


Temperature

- 10 °C
+ 50 °C

CHARACTERISTICS

Fluid	50 µm filtered air (mixed system) 50 µm filtered air, with or without lubrication (spool system)
Commutation system	mixed and spool
Connections	interface ISO 5599/1
Valve body	acetalic resin with zamak cover
Seals	NBR and polyurethane (mixed system), NBR (spool system)
Electropilot/Coil	series AA/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
Manual override	impulse screw - 2 positions (BE), recessed button - 1 position (BE12) IP65



	size 1	size 2	size 3	size 4
Nominal bore (mm)	8	10	15	19
Nominal flow rate (l/min)	1480	2300	4200	6600

BE Single/double pneumatic impulse function 5/2

mixed system

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



Spool system

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

BE Single electrical impulse function 5/2

mixed system

function 5/2 Ret. Mechanical	ISO	function 5/2 Ret. Pneumatic	ISO
	BE-3000 1		BE-3060 1
	BE-4000 2		BE-4060 2
	BE-5000 3		BE-5060 3
	BE-6000 4		BE-6060 4

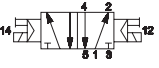
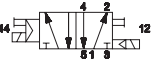
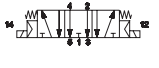
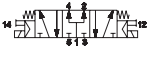
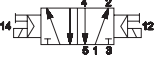
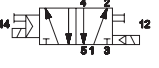
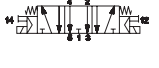
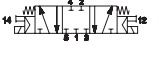


Spool system

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

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

BE12 Single electrical impulse

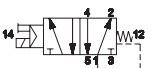
mixed system			
function 5/2 bistable	ISO	function 5/2 bistable differential	ISO
	BE-3020 1		BE-3030 1
	BE-4020 2		BE-4030 2
	BE-5020 3		BE-5030 3
	BE-6020 4		BE-6030 4
function 5/3	ISO	function 5/3	ISO
	BE-3200* o.c. 1		BE-3205 p.c. 1
	BE-4200* o.c. 2		BE-4205 p.c. 2
	BE-5200* o.c. 3		BE-5205 p.c. 3
	BE-6200* o.c. 4		BE-6205 p.c. 4
Spool system			
function 5/2 bistable	ISO	function 5/2 bistable differential	ISO
	BE-3720 1		BE-3730 1
	BE-4720 2		BE-4730 2
	BE-5720 3		BE-5730 3
	BE-6720 4		BE-6730 4
function 5/3	ISO	function 5/3	ISO
	BE-3900 o.c. 1		BE-3940 c.c. 1
	BE-4900 o.c. 2		BE-4940 c.c. 2
	BE-5900 o.c. 3		BE-5940 c.c. 3
	BE-6900 o.c. 4		BE-6940 c.c. 4

* = For Version with manual override contact our sales department.

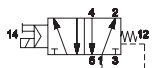
Coils U3	Code	Voltage
	DC-0301	12 V DC
	DC-0302	24 V DC
	DC-0307	24V AC - 50/60 Hz
	DC-0309	110V AC - 50/60 Hz
	DC-0310	230V AC - 50/60 Hz

DIN 43650 connector for U3 series coils	Code	
	AM-5111	IP65 protection rating, PG9 cable connection. 360° rotatable on the coil.
		On request with indicator light.

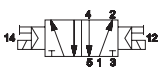
BE12 Single electrical impulse 24 DC function 5/2

mixed system	Ret. Mechanical	ISO
	BE12-3000 1	
	BE12-4000 2	
	BE12-5000 3	

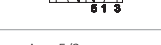
BE12 Single electrical impulse 24 DC function 5/2

Spool system	Ret. Mechanical	ISO
	BE12-3700 1	
	BE12-4700 2	
	BE12-5700 3	

BE12 Double electrical impulse 24 DC

mixed system	
function 5/2	ISO
	BE12-3020 1
	BE12-4020 2
	BE12-5020 3
function 5/3	ISO
	BE12-3205 p.c. 1
	BE12-4205 p.c. 2
	BE12-5205 p.c. 3

BE12 Double electrical impulse 24 DC

Spool system					
function 5/2		ISO	function 5/3		ISO
		BE12-3720 1		BE12-3940 c.c. 1	
		BE12-4720 2		BE12-4940 c.c. 2	
		BE12-5720 3		BE12-5940 c.c. 3	
function 5/3		ISO			
		BE12-3900 o.c. 1			
		BE12-4900 o.c. 2			
		BE12-5900 o.c. 3			

o.c. = open centers **c.c.** = closed centres **p.c.** = centers under pressure

The codes include the 24 V DC coil as standard

U05 15mm Faston coil for BE12 replacement	Code	Connector	Rated voltage		
	DD-052	AM-5109	DC	AC	
			24 V	-	On request with indicator light

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

BE12 Single sub-base, side connections

ISO 1 	BF-1060 G1/8	ISO 2 	BF-1150 G1/4	ISO 3 	BF-3060 G1/2	ISO 4 	BF-4060 G3/4
	BF-1061 G1/4		BF-1151 G3/8		BF-3061 G3/4		BF-4061 G1

Single sub-base, bottom connections

ISO 1 	BF-1062 G1/8	ISO 2 	BF-1152 G1/4
	BF-1063 G1/4		BF-1153 G3/8

Single or Manifold with separated exhausts

ISO 4 	BF-4062 G3/4
	BF-4063 G1

Manifold universal system inlet plate

ISO 1 	BF-1071 G1/8	ISO 2 	BF-1160 G1/4	ISO 3 	BF-3071 G1/2
	BF-1072 G1/4		BF-1161 G3/8		BF-3072 G3/4
	BF-1071S G1/8				
	BF-1072S G1/4				

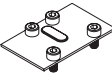
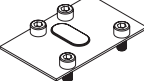
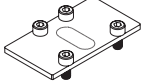
Manifold universal system inlet plate

ISO 1 	BF-1065 G3/8 Upfor connection	ISO 2 	BF-1154 G1/2 Side connections	ISO 3 	BF-3064 G1 Connections In-line
	BF-1066 G3/8 Back connections		BF-1155 G1/2 Back connections		
	BF-1068 G3/8 Connections In-line				

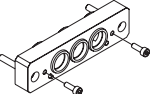
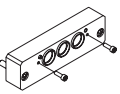
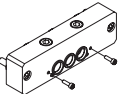
Manifold universal system diaphragm

ISO 1 	BF-1070	ISO 2 	BF-1162
---	----------------	--	----------------

Accessories

	BF-1085 closing plate for ISO 1 sub-base		BF-1175 closing plate for ISO 2 sub-base 2		BF-3175 closing plate for ISO 3 sub-base 3		BF-3082 universal system plug for ISO 3 sub-base
---	---	---	---	---	---	---	---

BE12 union interfaces

	BF-1190 connecting interface for universal sub-bases size 1 - 2		BF-3190 connecting interface for universal sub-bases size 2 - 3		BF-3191 connecting interface for universal sub-bases size 1 - 3
--	---	---	---	---	---

Solenoid valves are supplied without coil, connector and locking nuts

SERIES AE - VALVES FOR ISO 5599/1 SUB-BASE MOUNTING SIZE 1 - 2



Reference standard

ATEX
2014/34/UE



Pressure

Max 10 bar (1 MPa)



Temperature

- 10 °C
+ 50 °C

CHARACTERISTICS

Fluid	50 µm filtered air, with or without lubrication
Commutation system	mixed
Connections	sub-bases series BF
Valve body	acetalic resin
Seals	NBR, polyurethane
Electropilot/Coil	series AA/U1
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 positions



	size 1	size 2
Nominal bore (mm)	8	10
Nominal flow rate (NI/min)	1480	2300

Single/double pneumatic impulse

	size		size
	AE-1009 1		AE-1010 1
	AE-1120 2		AE-1121 2

Single electrical impulse

	size		size
	AE-1000 1		AE-1003 1
	AE-1100 2		AE-1103 2

ISO 1 Sub-base and plate

	BF-1060 G1/8		BF-1062 G1/8		BF-1071 G1/8		G3/8		BF-1070
	BF-1061 G1/4		BF-1063 G1/4		BF-1072 G1/4		BF-1065 Sufiori		
					BF-1071S G1/8		BF-1066 Dorsali		
					BF-1072S G1/4		BF-1068 In linea		

ISO 2 Sub-base and plate

	BF-1150 G1/4		BF-1152 G1/4		BF-1160 G1/4		G1/2		BF-1162
	BF-1151 G3/8		BF-1153 G3/8		BF-1161 G3/8		BF-1154 In linea		
							BF-1155 Dorsali		

Solenoid valves are supplied without coil, connector and locking nuts

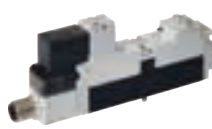
BDE

Integrated electrical connection
(ISO 15407/2)

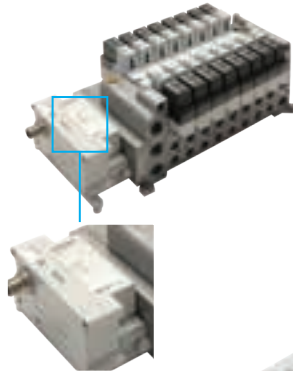


BDB

M12 connector (Automotive)



Available with **IO-Link** connection



BDA

Single electrical
connection (ISO 15407/1)



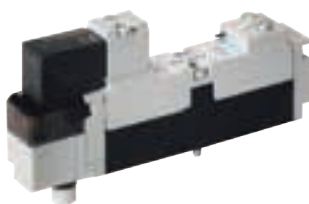
BDA

Pneumatic connection
(ISO 15407/1)



ISO 02

18 mm



Interface ISO



OVERSIZED interface (UNIVER original)



620 NI/min

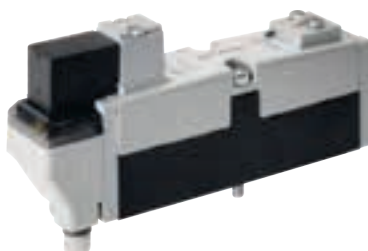


800 NI/min



ISO 01

26 mm



Interface ISO



OVERSIZED interface (UNIVER original)



1250 NI/min



1700 NI/min





Reference standard

ATEX
2014/34/UE



Pressure

9 bar (0.9 MPa) electrical
10 bar (1 MPa) pneumatic



Temperature

-20 °C
+ 50 °C

CHARACTERISTICS

Fluid	50 µm filtered air, with or without lubrication	
Commutation system	spool	
Connections	interface ISO 15407-1/2	
Nominal bore (mm)	6 (18 mm)	8 (26 mm)
Nominal flow rate (l/min)	see table below	
Valve body	acetalic resin with aluminium cover	
Seals	NBR	
Spool	aluminium	
Electropilot/Coil	Series A/U05	
Voltage	12 V DC - 24 V AC/DC - 48 V AC - 110 V AC - 230 V AC	
Power consumption	2 W	
Manual override	recessed button - 1 position	
Protection degree	IP65	



Series	Size	Type	Control 14	Return 12	Voltage coil	Variant
B D E	3	3	4	4	2 4	
BDE Solenoid valves with integrated electrical connection 24 V DC	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+3/2 NC-NC 7 = 3/2+3/2 NC-NO 8 = 3/2+3/2 NO-NO	4 Electrical amplified	0 Pneumomechanical spring 1 Mechanical spring 4 Electrical amplified 7 Electrical unamplified (differential)	24 = 4 V DC (standard) 12 = 12 V DC (on request)	D = External pilot supply
BDB Electrovalves conPower consumption 24 V DC with Connector M12						

Series	Size	Type	Control 14	Return 12	Variant
B D A	3	3	4	4	
BDA Valves and solenoid valves	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+3/2 NC-NC 7 = 3/2+3/2 NC-NO 8 = 3/2+3/2 NO-NO	3 Pneumatic amplified 4 Electrical amplified only DC 5 Electrical amplified DC/AC	0 Pneumomechanical spring 1 Mechanical spring 2 Pneumatic unamplified (differential) 3 Pneumatic amplified 4 Electrical amplified only DC 5 DC/AC amplified electric 7 Unamplified DC electric (differential) 8 Unamplified electric DC/AC (differential)	D = External pilot supply
Coils and connectors not included, to be purchased separately					

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

U05 Coils side 15 mm

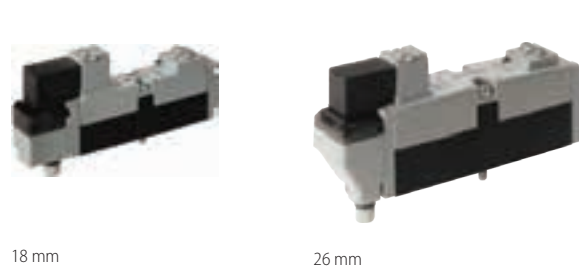
Code	Voltage nominal		Frequency	Power consumption			
				DC W		AC VA	
	V DC	V AC		HZ	hold	speed-up	hold
DD-040	-	24	50/60	-	-	2,3	3,2
DD-041	12	-	-	2	2	-	-
DD-050	-	48	50/60	-	-	2,3	3,2
DD-051	24	-	-	2	2	-	-
DD-060	-	110	50/60	-	-	2,3	3,2
DD-070	-	230	50/60	-	-	2,3	3,2

Nominal flow rate (l/min)

BD 18 mm	VDMA-ISO			Oversized		
	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

BD 26 mm	VDMA-ISO				Oversized			
	Ø6	Ø8	Ø10	Ø12	Ø6	Ø8	Ø10	Ø12
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

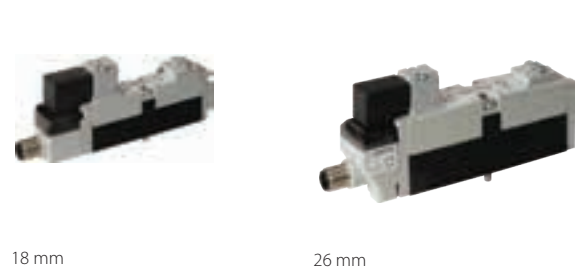
BDE Impulse electrical - Solenoid valve with integrated electrical connection



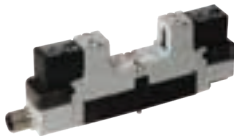
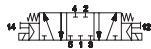
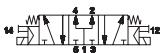
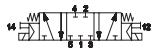
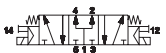
Single impulse			
	BDE-324024 18 mm		BDE-324124 18 mm
	BDE-424024 26 mm		BDE-424124 26 mm

				Double impulse	
	BDE-324424 18 mm			BDE-424424 26 mm	
	BDE-334424 18 mm			BDE-434424 26 mm	
	BDE-344424 18 mm			BDE-444424 26 mm	
	BDE-354424 18 mm			BDE-454424 26 mm	
	BDE-364424 18 mm			BDE-464424 26 mm	
	BDE-374424 18 mm			BDE-474424 26 mm	
	BDE-384424 18 mm			BDE-484424 26 mm	
	BDE-424424 26 mm			BDE-434424 26 mm	
BDE-454424 26 mm		BDE-464424 26 mm		BDE-474424 26 mm	
BDE-484424 26 mm		BDE-494424 26 mm		BDE-504424 26 mm	

BDB Impulse electrical - Solenoid valve with connector M12



Single impulse			
	BDB-324024 18 mm		BDB-324124 18 mm
	BDB-424024 26 mm		BDB-424124 26 mm

				Double impulse		
18 mm			BDB-324424		18 mm	
			BDB-334424		18 mm	
			BDB-344424		18 mm	
			BDB-354424		18 mm	
			BDB-364424		18 mm	
			BDB-374424		18 mm	
			BDB-384424		18 mm	
	26 mm			BDB-424424		26 mm
		BDB-434424		26 mm		
		BDB-444424		26 mm		
		BDB-454424		26 mm		
				BDB-464424		26 mm
				BDB-474424		26 mm
				BDB-484424		26 mm

BDA Impulse pneumatic

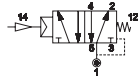


18 mm

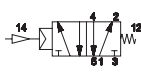


26 mm

Single impulse



BDA-3230 18 mm
BDA-4230 26 mm



BDA-3231 18 mm
BDA-4231 26 mm

Double impulse



BDA-3233 18 mm
BDA-4233 26 mm



BDA-3333 18 mm
BDA-4333 26 mm



BDA-3433 18 mm
BDA-4433 26 mm



BDA-3533 18 mm
BDA-4533 26 mm



BDA-3633 18 mm
BDA-4633 26 mm



BDA-3733 18 mm
BDA-4733 26 mm



BDA-3833 18 mm
BDA-4833 26 mm

BDA Impulse electrical - External electrical connection

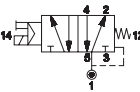


18 mm

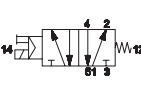


26 mm

Single impulse

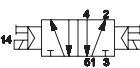


BDA-3240 18 mm
BDA-4240 26 mm



BDA-3241 18 mm
BDA-4241 26 mm

Double impulse



BDA-3244 18 mm
BDA-4244 26 mm



BDA-3344 18 mm
BDA-4344 26 mm



BDA-3444 18 mm
BDA-4444 26 mm



BDA-3544 18 mm
BDA-4544 26 mm



BDA-3644 18 mm
BDA-4644 26 mm



BDA-3744 18 mm
BDA-4744 26 mm



BDA-3844 18 mm
BDA-4844 26 mm



18 mm



26 mm

18 mm						
BDF-3100	BDF-3115	BDF-3120	BDF-3140TIM	BDF-3180	BDF-3185	BDF-3190
left supply plate G3/8	right supply plate G3/8	intermediate supply plate G3/8	multipolar male connection module: 25 poles, type D	pressure separator	closing plate for unused valve place	connecting interface for valves side 18-26 mm

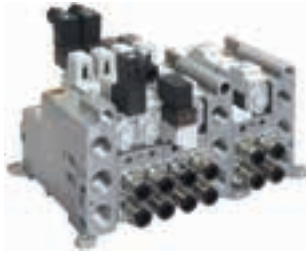
18 mm						
BDF-3210	BDF-3230(a)	BDF-3310	BDF-3330 (a)	BDF-3400	GZR-100	GZR-V10004/06/08
two-place sub-base in compliance with VDMA-ISO flow rate 620 NI/min G1/8 connections	two-place sub-base in compliance with VDMA-ISO flow rate 620 NI/min fittings Ø 4-6-8 mm	two-place sub-base with increased flow rate 800 NI/min G1/8 connections	two-place sub-base with increased flow rate 800 NI/min fittings Ø 4-6-8 mm	single one-place sub-base with increased flow rate	blanking plug	UNIVER designed fittings GZR-V10004 Ø4 mm GZR-V10006 Ø6 mm GZR-V10008 Ø8 mm

26 mm						
BDF-4100	BDF-4115	BDF-4120	BDF-4140TIM	BDF-4180	BDF-4185	
left supply plate G1/2	right supply plate G1/2	intermediate supply plate G1/2	multipolar male connection module: 25 poles, type D	plate for separating supply pressures	closing plate for unused valve place	

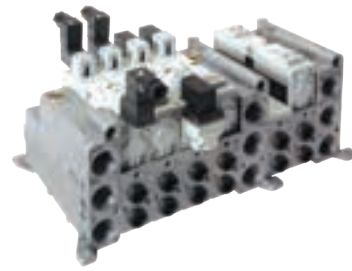
26 mm					
BDF-4210/20	BDF-4230 (a)	BDF-4310/20	BDF-4330 (a)	BDF-4400	GZR-VV1006/08/10
one-place sub-base in compliance with VDMA-ISO flow rate 1250 NI/min BDF-4210 G1/4 connections BDF-4220 G3/8 connections	one-place sub-base in compliance with VDMA-ISO flow rate 1250 NI/min fittings Ø 6-8-10 mm	one-place sub-base with increased flow rate 1700 NI/min BDF-4310 G1/4 connections BDF-4320 G3/8 connections	one-place sub-base with increased flow rate 1700 NI/min fittings Ø 6-8-10 mm	single one-place sub-base with increased flow rate	UNIVER designed fittings GZR-VV1006 Ø6 mm GZR-VV1008 Ø8 mm GZR-VV1010 Ø10 mm

Electrical connection			Connection IO-LINK
TSCFN24S000	TSCFN24S0300	TSCFN16D0300	TCXLKA
	TSCFN24S0500	TSCFN16D0500	TCXLKB
	TSCFN24S1000	TSCFN16D1000	
female connector 25 poles sub-D type no cable - M3x8 fixing screws	female connector: 25 poles, sub-D type, prewired for 26 coils (3-5-10m length) M3x8 fixing screws	sub-D type male/female flying connector (on request) prewired for 16 coils with cable Ø 8 mm (3-5-10 m length) suitable for dynamic laying - M3 x 8 fixing screws	connection module IO-LINK (port class A/B)

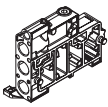
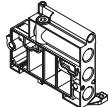
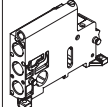
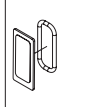
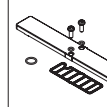
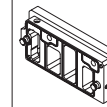
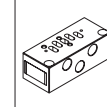
(a) = Sub-base including fixing plate for fittings (fittings excluded)

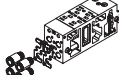
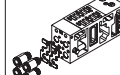


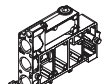
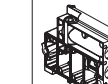
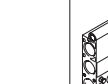
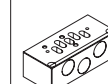
18 mm

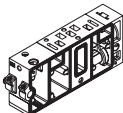
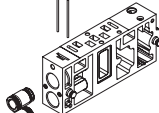
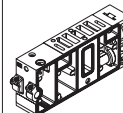
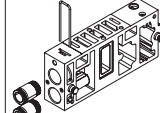
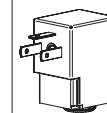
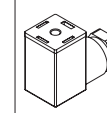


26 mm

18 mm						
BDF-3110	BDF-3115	BDF-3125	BDF-3180	BDF-3185	BDF-3191	BDF-3400
						
left supply plate G3/8	right supply plate G3/8m v	intermediate supply	pressure separator plate G3/8	closing plate for unused valve place	interface for connecting valves side 18-26 mm	single one-place sub-base with increased flow rate G1/8

18 mm						
BDF-3211/2(b)	BDF-3231/2(a) (b)	BDF-3311/2(b)	BDF-3331/2 (a) (b)	GZR-100	GZR-V10004/6/8	DD-...
						
two-place sub-base in compliance with VDMA-ISO flow rate 620 NI/min G1/8 connections	two-place sub-base in compliance with VDMA-ISO flow rate 620 NI/min fittings Ø 4-6-8 mm	two-place sub-base with increased flow rate 800 NI/min G1/8 connections	two-place sub-base with increased flow rate 800 NI/min fittings Ø 4-6-8 mm	blanking plug	UNIVER designed fittings GZR-V10004 Ø4 mm GZR-V10006 Ø6 mm GZR-V10008 Ø8 mm	U05 coil side 15 mm

26 mm						
BDF-4110	BDF-4115	BDF-4125	BDF-4180	BDF-4185	BDF-4400	
						
left supply plate G1/2	right supply plate G1/2	intermediate supply plate G1/2	pressure separator	closing plate for unused valve place	single one-place sub-base with increased flow rate G3/8	

26 mm						
BDF-4211/..(b)	BDF-4231/2 (a)(b)	BDF-4311/.. (b)	BDF-4331/2 (a)(b)	GZR-VV1006/8/10	DD-...	AM-5109
						
one-place sub-base in compliance with VDMA-ISO flow rate 1250 NI/min G1/4 connect. G3/8 connect. G1/4 BDF-4211 BDF-4212 connect. G3/8 BDF-4221 BDF-4222	one-place sub-base in compliance with VDMA-ISO flow rate 1250 NI/min fittings Ø 6-8-10 mm BDF-4231 BDF-4232	one-place sub-base with increased flow rate 1700 NI/min connect. G1/4 BDF-4311 BDF-4312 connect. G3/8 BDF-4321 BDF-4322	one-place sub-base with increased flow rate 1700 NI/min fittings Ø 6-8-10 mm	UNIVER designed fittings GZR-VV1006 Ø6 mm GZR-VV1008 Ø8 mm GZR-VV1010 Ø10 mm	U05 coil side 15 mm	Electrical connection Connector 15 mm

(a) = Sub-base including fixing plate for fittings (fittings excluded)
(b) = Part No. ending: 1 = electrical non integrated 2 = only pneumatic



Reference standard

ATEX
2014/34/UE



Pressure

10 bar (1 MPa)



Temperature

-10 °C
+ 45 °C

CHARACTERISTICS

Fluid	50 µm filtered air, with or without lubrication
Commutation system	mixed poppet
Connections	G1/4 (1-3-5), interface NAMUR (2-4)
Nominal bore (mm)	8
Nominal flow rate (l/min)	1200
Valve body	zamak
Seals	NBR, polyurethane
Spool	aluminium
Electropilot/Coil	series AA/U1-U3
Power consumption	3,5 W (DC), 5 VA (AC)
Connector	AM 5110
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

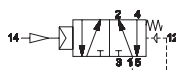


MIXED
for heavy applications



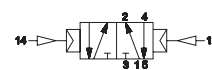
Impulse pneumatic

Single impulse



AC-N8100

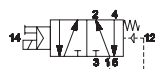
Double impulse



AC-N8120

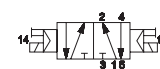
Impulse electrical

Single impulse



AC-N8500

Double impulse



AC-N8520

Version 3/2: valves are supplied with profor flat plug for closing unused way
Solenoid valves are supplied without coil / connector / locking nut



Reference standard

ATEX
2014/34/UE



Pressure

10 bar (1 MPa)



Temperature

-10 °C
+ 45 °C

CHARACTERISTICS

Fluid	50 µm filtered air, with or without lubrication
Commutation system	spool
Valve body - Connections	die-cast zamak (G1/8), aluminium (G1/4)
Seals	NBR
Spool	aluminium
Electropilot/Coil	series AA/U1-U3
Power consumption	3,5 W (DC) - 5 VA (AC)
Connector	AM 5110
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

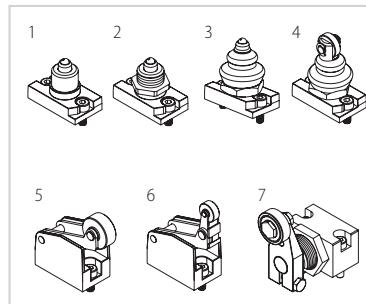
Valve body	G1/8	G1/4
Nominal bore (mm)	6,5	8,5
Nominal flow rate (l/min)	890	1480

NOTE: some versions with high temperature seals are available on request (for further information please contact our Sales Office)

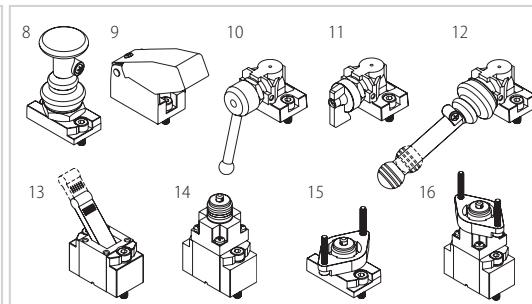


Modular System UNIVERSAL

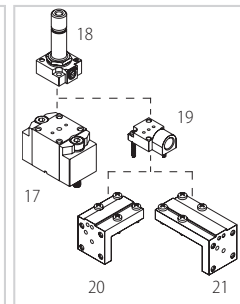
MECHANICAL



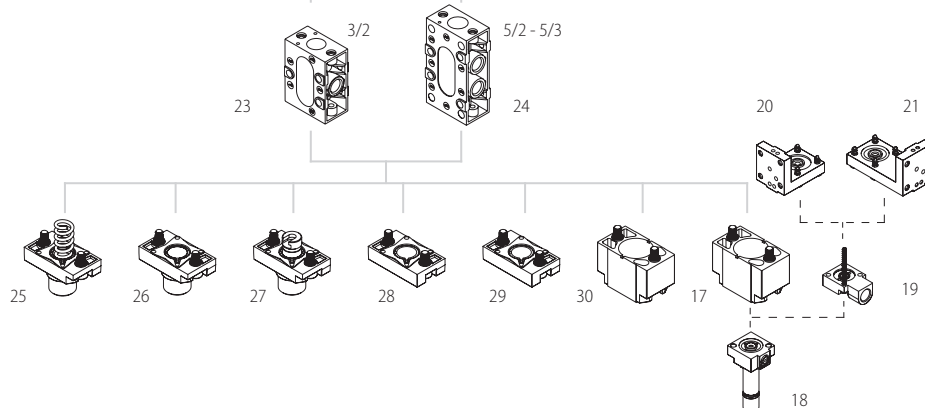
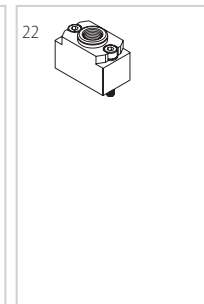
Manual



Electrical



Pneumatic



MECHANICAL CONTROL

1. Ball push
2. Ball push for screw panel mounting
3. Ball push with dust protection
4. Roller with dust protection
5. Roller lever
6. One-way roller lever
7. Two-way side roller lever

MANUAL OVERRIDE

8. Push-pull
9. Push button
10. Rotating lever
11. Selector
12. 90° short/Long lever
13. Short/Long lever
14. Threaded indirect oration
15. Panel direct oration
16. Panel indirect oration

ELECTRICAL CONTROL

17. Electrical amplified
18. U1 electropilot
19. Plate for external pilot supply
20. Angle plate for "H" solenoid option
21. Angle plate for "P" solenoid option"

CONTROL PNEUMATIC

22. Pneumatic amplified

BODY

23. Body 3/2
24. Body 5/2

RETURN

25. Mechanical spring
26. Pneumatic unamplified (differential)
27. Bottom plate - 2/3 positions
28. Bottom plate
29. Pneumatic spring
30. Pneumatic amplified

With direct mechanical oration

Roller lever

Roller lever one-way



CL-100A



CL-100P



CM-400A



CM-400P



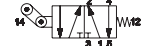
CL-101A



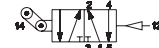
CL-101P



CM-401A



CM-401P



Two-way side roller lever

Two-way side roller lever Adjustable



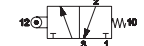
CL-106A



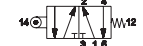
CM-406A



CL-106AL



CM-406AL

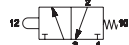


Ball-push

Roller with dust protection



CL-102A



CL-102P



CM-402A



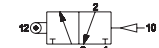
CM-402P



CL-105A



CL-105P



CM-405A



CM-405P



Ball-push with dust protection

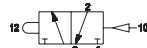
Ball-push for screw panel mounting



CL-104A



CL-104P



CM-404A



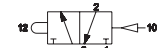
CM-404P



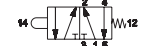
CL-103A



CL-103P



CM-403A



CM-403P



Valves G1/4 with direct mechanical oration

Ball-push

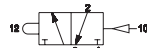
Ball-push for screw panel mounting



CL-9102A



CL-9102P



CM-9402A



CM-9402P



CL-9103A



CL-9103P



CM-9403A



CM-9403P



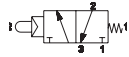
Valves G1/8 - G1/4 with indirect mechanical orforation for pneumatic and mechanical orforators

Ball-push

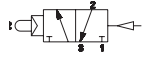
Ball-push sensible



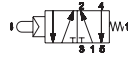
CL-110A G 1/8
CL-9110A G 1/4



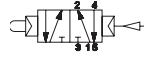
CL-110P G 1/8
CL-9110P G 1/4



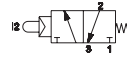
CM-410A G 1/8
CM-9410A G 1/4



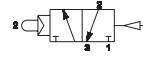
CM-410P G 1/8
CM-9410P G 1/4



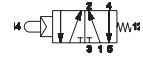
CL-111A G 1/8
CL-9111A G 1/4



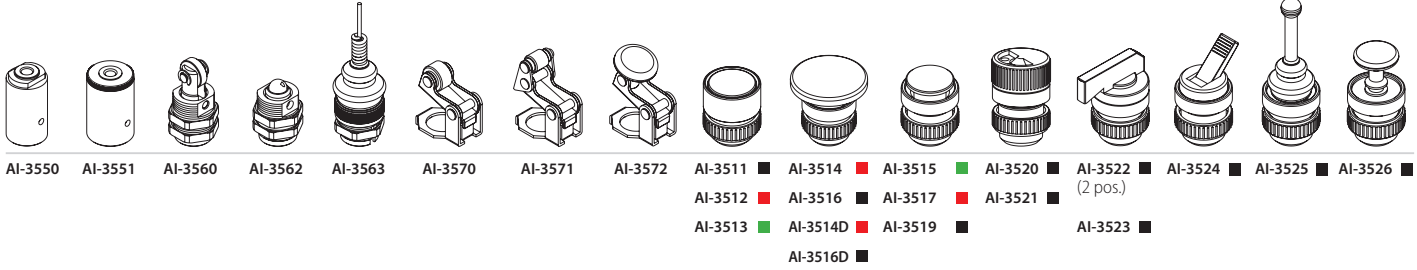
CL-111P G 1/8
CL-9111P G 1/4



CM-411A G 1/8
CM-9411A G 1/4



CL-411P G 1/8
CL-9411P G 1/4



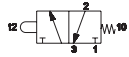
Valves G1/8 - G1/4 with direct and indirect orforation for panel orforators

Ball-push (direct orforation)

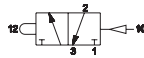
Ball-push (indirect orforation)



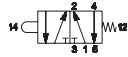
CL-112A



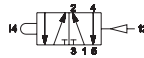
CL-112P



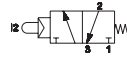
CM-412A



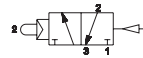
CM-412P



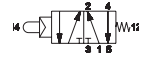
CL-113A G 1/8
CL-9113A G 1/4



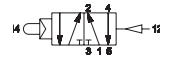
CL-113P G 1/8
CL-9113P G 1/4



CM-413A G 1/8
CM-9413A G 1/4

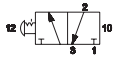
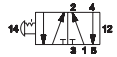
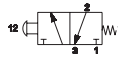
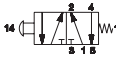


CM-413P G 1/8
CM-9413P G 1/4

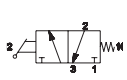
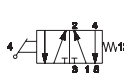
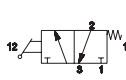
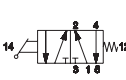
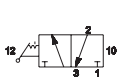
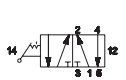
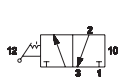
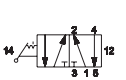


Valves G1/8 with manual oforation

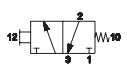
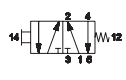
Push-pull

 CL-120 	 CM-420 	 CL-120A 	 CM-420A 	 Yellow CP-911G Red CP-911R Black CP-911N Green CP-911V
--	--	---	--	--

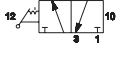
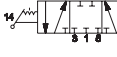
Valves are supplied without knob

Long lever		Short lever		
 CL-118R 	 CM-418R 	 CL-119R 	 CM-419R 	Long lever Standard Red On request Yellow Black
 CL-121R 	 CM-421R 	 CL-122R 	 CM-422R 	Short lever Standard Red On request Yellow Black Green

Button

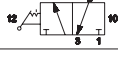
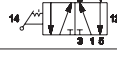
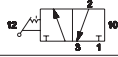
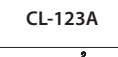
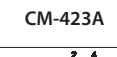
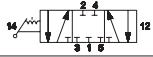
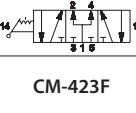
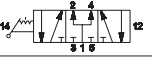
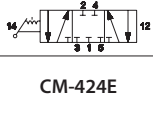
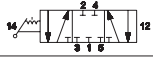
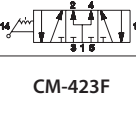
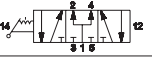
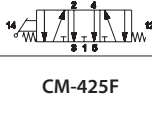
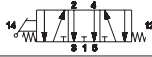
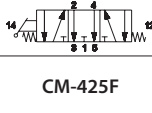
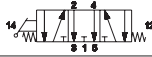
 CL-126A 	 CM-426A 		Standard Red
--	--	--	-----------------------------------

Rotating lever

 CL-130 	 CM-430 	 CM-430E 	 CM-440E 	 Red CP-915R
		 CM-435E 		 Red CP-916R

Valves are supplied without oforator

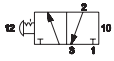
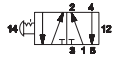
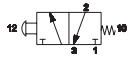
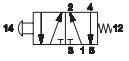
90° Lever

 CL-123 	 CM-423 	Long lever  Red CP-913R Short lever  Yellow CP-912G Red CP-912R Black CP-912N
 CL-123D 	 CM-423D 	
 CL-123A 	 CM-423A 	
 CM-423E 	 CM-425E 	
 CM-424E 	 CM-423F 	
 CM-424F 	 CM-425F 	

Valves are supplied without lever

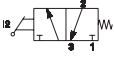
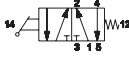
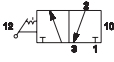
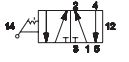
Valves G1/4 with manual orofation

Push-pull

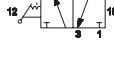
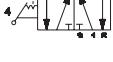
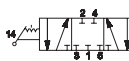
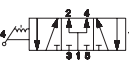
 CL-9120 	 CM-9420 	 CL-9120A 	 CM-9420A 	 ■ Yellow ■ Red ■ Black ■ Green
---	---	--	---	---

Valves are supplied without knob

Long lever

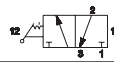
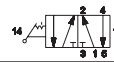
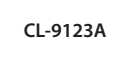
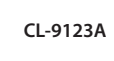
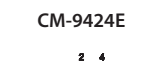
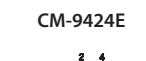
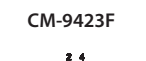
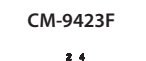
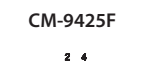
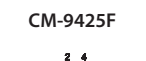
 CL-9118R 	 CM-9418R 	 CL-9121R 	 CM-9421R 	Standard ■ Red On request ■ Yellow ■ Black
--	--	--	--	---

Rotating lever

 CL-9130 	 CM-9430 	 CM-9430E 	 CM-9440E 	 ■ Red CP-915R ■ Red CP-916R
--	--	--	--	--

Valves are supplied without lever

90° Lever

 CL-9123 	 CM-9423 	 CL-9123D 	 CM-9423D 	Long lever  ■ Red CP-913R
 CL-9123A 	 CM-9423A 	 CM-9423E 	 CM-9425E 	 CM-9424F 
 CM-9424E 	 CM-9423F 	 CM-9425F 		

Valves are supplied without lever

Valves G1/8 - G1/4 with pneumatic oforation

Single impulse

	CL-200 G1/8 CL-9200 G1/4 	CL-203 G1/8 (NO) CL-9203 G1/4 (NO) 		CL-200A G1/8 CL-9200A G1/4
	CM-500 G1/8 CM-9500 G1/4 			CM-500A G1/8 CM-9500A G1/4

Double impulse

	CL-220 G1/8 CL-9220 G1/4 		CL-221 G1/8 CL-9221 G1/4 		CL-224 G1/8 CL-9224 G1/4
	CM-521 G1/8 CM-9521 G1/4 		CM-524 G1/8 CM-9524 G1/4 		
	CM-520 G1/8 CM-9520 G1/4 	CM-580 G1/8 CM-9580 G1/4 	CM-585 G1/8 CM-9585 G1/4 	CM-590 G1/8 CM-9590 G1/4 	

Electrically operated valves G1/8 - G1/4

Single impulse

	CL-300 G1/8 CL-9300 G1/4 	CL-302A G1/8 CL-9302A G1/4 		CL-301 G1/8 CL-9301 G1/4
--	---	---	--	---

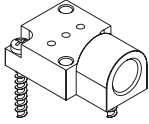
	CL-303A G1/8 CL-9303A G1/4 	CM-600 G1/8 CM-9600 G1/4 	CM-602A G1/8 CM-9602A G1/4
--	---	---	---

Double impulse

	CL-320 G1/8 CL-9320 G1/4 	CL-321 G1/8 CL-9321 G1/4 	CL-322 G1/8 CL-9322 G1/4
--	---	---	---

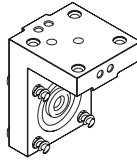
	CM-620 G1/8 CM-9620 G1/4 	CM-621 G1/8 CM-9621 G1/4 			CM-622 G1/8 CM-9622 G1/4
	CM-680 G1/8 CM-9680 G1/4 	CM-685 G1/8 CM-9685 G1/4 	CM-690 G1/8 CM-9690 G1/4 		

Solenoid valves are supplied without coil, connector.



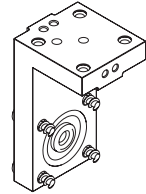
AM-5148

Plate for external pilot supply



AM-5151

Angle plate for "H" solenoid option



AM-5152

Angle plate for "P" solenoid option

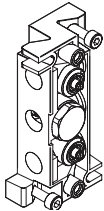
CLIPS Modular sub-base G1/8 - G1/4 for 3/2 - 5/2 - 5/3 valves



G1/8

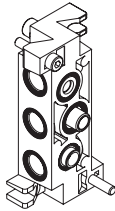


G1/4



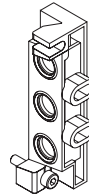
CP-100/CP-9100

modular sub-base with adjustable and conveyed exhausts CP-100 for G1/8, CP-9100 for G1/4
material: zamak
standard supplied: screws, seals, exhaust regulator and coupling for valve fixing



CP-101/CP-9101

modular sub-base without adjustable exhausts CP-101 for G1/8, CP-9101 for G1/4
material: zamak
standard supplied: screws, seals and coupling for valve fixing



CP-105/CP-9105

side connection inlet plate CP-105 G1/4, CP-9105 G3/8
material: zamak
standard supplied: screws and seals



CP-106

closing plate for unused place bases G1/8 material: aluminium



CP-110/CP-9110

coupling connections: CP-110 G1/8, CP-9110 G1/4 material: brass



CP-111/CP-9111

pressure separator CP-111 for G1/8, CP-9111 for G1/4 material: aluminium



CP-112/CP-9112

plug for 3/2 valve mounting CP-112 for G1/8, CP-9112 for G1/4 material: aluminium



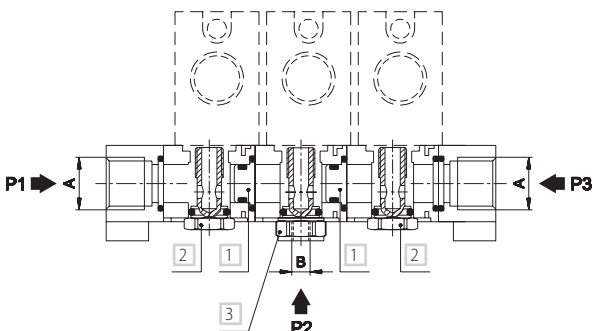
CP-113/CP-9113

adjustment needle CP-113 for G1/8, CP-9113 for G1/4 material: brass

For each additional pressure, one coupling and two separators are required

Plug for mounting 3/2 NC-NO valves on "CLIPS" sub-base to close unused way.
Sub-base with adjustment screw (screwdriver slot) standard supplied.
On request: adjustment needle with milled handle

Assembly Example Manifold supplied by three different pressures



	A	B
G1/8	G1/4	G1/8
G1/4	G3/8	G1/4

- 1 Pressure separator CP-111/CP-9111
- 2 Fixing coupling for valve embodied in the sub-base
- 3 Coupling CP-110/CP-9110



Reference standard

ATEX
2014/34/UE



Pressure

Max 10 bar (1 MPa)



Temperature

- 10 °C
+ 45 °C

CHARACTERISTICS

Fluid	filtered air 10 µm
Commutation system	spool
Connections	M5, for sub-base
Nominal bore (mm)	2
Nominal flow rate (l/min)	150
Valve body	zamak
Seals	NBR
Electropilot/Coil	Series A/U05
Voltage	24 V DC - 12 V DC - 24 V AC - 110 V AC - 230 V AC



Series	Type	Control 14	Return 12
E	0 2	2	2
E COMPACT 2 Miniature Valves	02 5/2 Sub-base mounting 04 5/2 Threaded body M5 05 5/3 c.c. Sub-base mounting 06 5/3 o.c. Sub-base mounting 07 5/3 p.c. Sub-base mounting 08 5/3 c.c. Threaded body M5 09 5/3 o.c. Threaded body M5 10 5/3 p.c. Threaded body M5	2 Electrical DC 4 Pneumatic 7 Electrical DC/AC	0 Pneumomechanical spring 2 Electrical DC 4 Pneumatic impulse 7 Electrical DC/AC

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

Impulse pneumatic

Single impulse



E-0240



Double impulse



E-0244



Impulse electrical

Single impulse



E-0220
E-0270



Double impulse



E-0222
E-0277



E-0522



E-0622



E-0722



Solenoid valves are supplied without coil and connector

Inlet plate G1/8

E-4500



Manifold sub-base, side connections M5

E-4505



Valve seat closure plate

E-4600



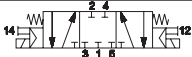
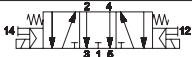
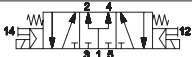
Impulse pneumatic - Valves 5/2 M5

Single impulse		Double impulse	
	E-0440		E-0444
			

Impulse electrical - Valves 5/2 M5

Single impulse		Double impulse	
	E-0420 E-0470		E-0422 E-0477
			

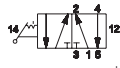
Impulse electrical - Valves 5/3 M5

Double impulse	
	E-0822
	
	E-0922
	
	E-1022
	

Solenoid valves are supplied without coil and connector

Valves M5 - Mechanical and manual oforation

Lever valve



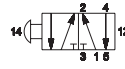
Lever

E-15422G ■ Yellow
E-15422N ■ Black
E-15422R ■ Red

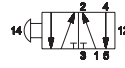
Valve Push-pull



E-15420



E-15420A



Valve Ball-push



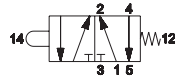
E-15402A



Ball push valve for mechanical screw oforation



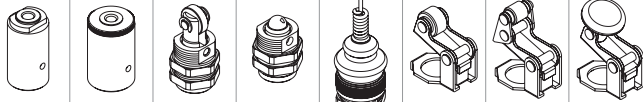
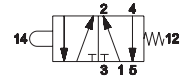
E-15403A



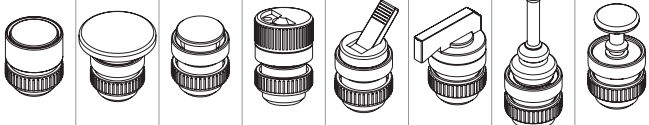
Ball push valve for mechanical panel oforation



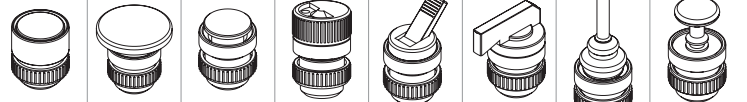
E-15412A



AI-3550 AI-3551 AI-3560 AI-3562 AI-3563 AI-3570 AI-3571 AI-3572



AI-3511 ■ AI-3514 ■ AI-3515 ■ AI-3520 ■ AI-3524 ■ AI-3522 (2 pos) ■ AI-3525 ■ AI-3526 ■
AI-3512 ■ AI-3516 ■ AI-3517 ■ AI-3521 ■ AI-3523 ■
AI-3513 ■ AI-3514D ■ AI-3519 ■
AI-3516D ■



AI-3511Q ■ AI-3514Q ■ AI-3515Q ■ AI-3520Q ■ AI-3524Q ■ AI-3522Q (2 pos) ■ AI-3525Q ■ AI-3526Q ■
AI-3512Q ■ AI-3516Q ■ AI-3517Q ■ AI-3521Q ■ AI-3523Q ■
AI-3513Q ■ AI-3514QD ■ AI-3519Q ■
AI-3516QD ■



Reference standard

ATEX
2014/34/UE



Pressure

Max 10 bar (1 MPa)



Temperature

- 10 °C
+ 45 °C

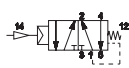
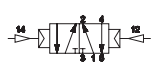
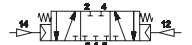
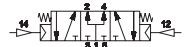
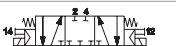
CHARACTERISTICS

Fluid	filtered air 10 µm
Commutation system	spool system
Connections	for sub-base
Nominal bore (mm)	4
Nominal flow rate (l/min)	390
Valve body	acetalic resin
Seals	NBR
Electropilot/Coil	Series A/U05
Voltage	24 V DC - 12 V DC - 24 V AC - 110 V AC - 230 V AC



Series	Type	Control 14	Return 12
F	0 2	2	2
F Compa 4 Miniature Valves	02 5/2 Sub-base mounting 05 5/3 c.c. Sub-base mounting 06 5/3 o.c. Sub-base mounting 07 5/3 p.c. Sub-base mounting	2 Electrical DC 4 Pneumatic 7 Electrical DC/AC	0 Pneumomechanical spring 2 Electrical DC 4 Impulse pneumatic 7 Electrical DC/AC

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

Impulse pneumatic		Double impulse	
Single impulse			
			
			
			
			
Impulse electrical		Double impulse	
Single impulse			
			
			
			
			
Inlet plate G1/8		Manifold sub-base, threaded connections G1/8	
			

Solenoid valves are supplied without coil and connector

SERIES G6 - VALVES AND SOLENOID VALVES - THREADED BODY G1/8



Reference standard

ATEX
2014/34/UE



Pressure

1,5 bar (0,15 MPa)
9 bar (0,9 MPa)

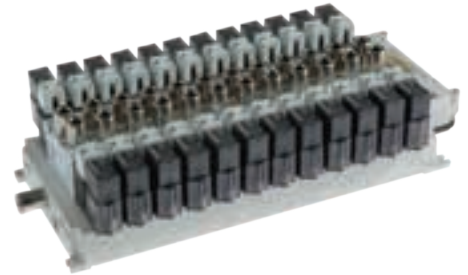


Temperature

- 5 °C
+ 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication		
Commutation system	spool		
Nominal bore (mm)	5		
Nominal flow rate (l/min)	770 (5/2)	700 (5/3)	670 (3/2+3/2)
Connections	G1/8		
Valve body	zamak		
Seals	NBR		
Spool	aluminium		
Electropilot/Coil	Series A/U05 - Series B/U04		
Voltage	24 V DC - 12 V DC - 24 V AC - 110 V AC - 230 V AC (only for version with integrated electrical connection)		
Power consumption	U05 = 2 W (DC) 2,3 VA (AC) U04 = 1,2 W (DC)		
Manual override	recessed button = 1 position		



Series	Type	Control 14	Return 12
G 6	6	4	4
G-6 20 mm - Valves and solenoid valves threaded body G1/8	2 5/2 3 5/3 c.c. 4 5/3 o.c. 5 5/3 p.c.	3 Pneumatic amplified 4 Electrical amplified DC 5 Electrical amplified DC/AC 6 Electrical amplified DC - electropilot 10 mm series B	0 Pneumomechanical spring 1 Mechanical spring 3 Pneumatic amplified Electrical amplified DC 5 Electrical amplified DC/AC 6 Electrical amplified DC (B series 10 mm electropilot)

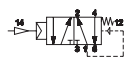
c.c. = closed centres **o.c.** = open centres **p.c.** = pressurized centres

Impulse pneumatic

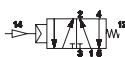
Single impulse



G-6230



G-6231



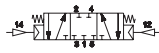
Double impulse



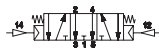
G-6233



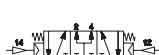
G-6333



G-6433



G-6533



G-6633



G-6733



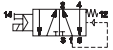
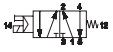
G-6833



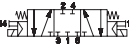
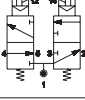
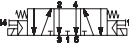
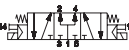
Solenoid valves are supplied without coil and connector

Impulse electrical - Electropilot series A (15 mm)

Single impulse

	G-6240 DC G-6250 AC/DC 		Coil with intergrated connector for multipolar version DD-051-2C 24 V DC DD-040-2C 24 V AC Single/double impulse
	G-6241 DC G-6251 AC/DC 		

Double impulse

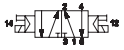
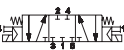
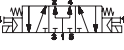
	G-6244 DC G-6255 AC/DC 	G-6644 DC G-6655 AC/DC 
	G-6344 DC G-6355 AC/DC 	G-6744 DC G-6755 AC/DC 
	G-6444 DC G-6455 AC/DC 	
	G-6544 DC G-6555 AC/DC 	G-6844 DC G-6855 AC/DC 

Impulse electrical - Electropilot series B (10 mm)

Single impulse

	G-6260 G-6261 

Double impulse

	G-6266 	G-6666 
	G-6366 	G-6766 
	G-6466 	
	G-6566 	G-6866 

Solenoid valves are supplied without coil and connector

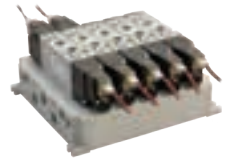
Electrical sub-bases



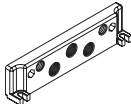
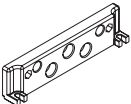
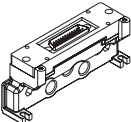
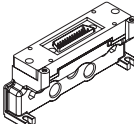
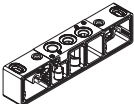
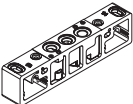
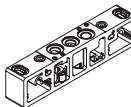
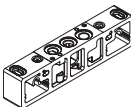
Multipolar connection



External connection



Connector with loose cables

GP-6100	GP-6110	GP-611212	GP-611806	GP-6310/1/2	GP-6320/1/2	
						
threaded end plate	blank end plate	threaded end plate with male connector 25 poles 12+12 coils control 12-14	threaded end plate with male connector 25 poles 18 coils control 14 6 coils control 12	sub-base with open diaphragms GP-6310 without electrical connection GP-6311 monostable GP-6312 bistable	sub-base with closed diaphragms GP-6320 without electrical connection GP-6321 monostable GP-6322 bistable	
1 sub-base with closed air supply and open exhausts		3 - 5 sub-base with open air supply and closed exhausts				
GP-6330/1/2	GP-6340/1/2	GP-6380	GP-6385	GP-6400-1	GP-6400-2	GP-6400-5
						
GP-6330 without electrical connection GP-6331 monostable GP-6332 bistable	GP-6340 without electrical connection GP-6341 monostable GP-6342 bistable	intermediate supply plate (to be used only with GP-63... sub-base)	closing plate for unused valve place	modular tie-rod 1 valve place	modular tie-rod 2 valve places	<u>modular tie-rod 5 valve places</u> AZ4-SN004A <u>No. 100 hexagonal nuts M4</u> AZ4-VN0416 No. 100 allen screws M4x16 for tie rods

on request customised solutions Up to 12 places

GP-6512-01/..MF	GP-6514-01/..MF	GP-651418	DD-...	DD-051-2C/DD-040-2C	DE-652I
BUS connection card control side 12 with 12 pins GP-6512-01MF 1 place GP-6512-02MF 2 places GP-6512-03MF 3 places GP-6512-05MF 5 places GP-6512-06MF 6 places	US connection card control side 14 with 12 pins GP-6514-01MF 1 place GP-6514-02MF 2 places GP-6514-03MF 3 places GP-6514-05MF 5 places GP-6514-06MF 6 places	BUS connection card control side 14 with 18 pins (only 12 places) for manifolds with control 14 and more than 12 coils (up to 18) use GP-651418 card 12 places and then GP-6514-...	24 V DC 2 W coil for single connection. For electric pilot A.	24 V DC 2 W coil with integrated connector for multipolar version.	24 V DC 1,35 W coil with in-line connector with protection for a complete tightness. For electric pilot B.

Electrical connection

AM-5109	TSCF24S0300	Miniature connector with loose cables
	TSCF24S0500	D-530-30/50/200
	TSCF24S1000	
Connector 15 mm	sub-D flying female connector in compliance with CEI 20-22 O.R. II prewired for 24 coils (3-5-10 length) M3x12 fixing screws	D-530-30 = wire length 300 mm D-530-50 = wire length 500 mm D-530-200 = wire length 2000 mm

SERIES GL6 - VALVES ED ELETTROVALVES FOR BASE 20 MM



Reference standard

ATEX
2014/34/UE



Pressure

1,5 bar (0,15 MPa)
9 bar (0,9 MPa)



Temperature

- 5 °C
+ 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	spool
Connections	interface for base
Nominal bore (mm)	5
Nominal flow rate (l/min)	140 ÷ 740 (depending on the type of fittings)
Valve body	zamak
Seals	NBR
Spool	aluminium
Electropilot/Coil	Series A/U05 - Series B/U04
Voltage	24 V DC - 12 V DC - 24 V AC - 110 V AC - 230 V AC (only version with external connection)
Power consumption	U05 = 2 W (DC) 2,3 VA (AC) U04 = 1,2 W (DC)
Manual override	recessed button = 1 position



Series	Type	Control 14	Return 12	Variant
G L - 6	4	6	4	D
GL-6 Valves ed elettro distributori 20 mm body filettato G1/8	2 5/2 3 5/3 c.c. 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	3 Pneumatic amplified 4 Electrical amplified DC 5 Electrical amplified DC/AC 6 Electrical amplified DC - pilota 10 mm series B	0 Pneumomechanical spring 1 Mechanical spring 3 Pneumatic amplified 4 Electrical amplified DC 5 Electrical amplified DC/AC 6 Electrical amplified DC B series 0 mm electropilot

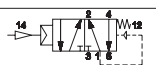
c.c. = closed centres o.c. = open centres p.c. = pressurized centres

Impulse pneumatic

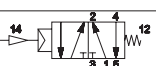
Single impulse



GL-6230



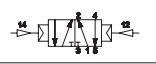
GL-6231



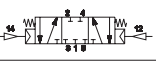
Double impulse



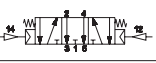
GL-6233



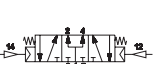
GL-6333



GL-6433



GL-6533



GL-6633



GL-6733



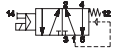
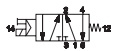
GL-6833



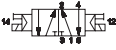
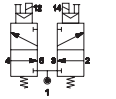
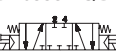
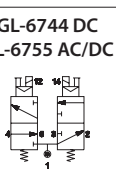
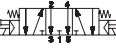
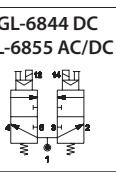
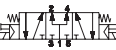
Solenoid valves are supplied without coil and connector

Impulse electrical - Electropilot series A (15 mm)

Single impulse

	GL-6240 DC GL-6250 AC/DC 		Coil with intergrated connector for multipolar version DD-051-2C 24 V DC DD-040-2C 24 V AC Single/double impulse
	GL-6241 DC GL-6251 AC/DC 		

Double impulse

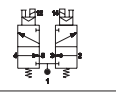
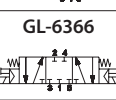
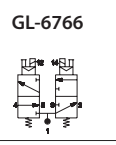
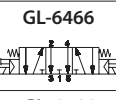
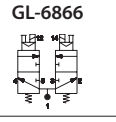
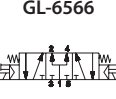
	GL-6244 DC GL-6255 AC/DC 	GL-6644 DC GL-6655 AC/DC 
	GL-6344 DC GL-6355 AC/DC 	GL-6744 DC GL-6755 AC/DC 
	GL-6444 DC GL-6455 AC/DC 	GL-6844 DC GL-6855 AC/DC 
	GL-6544 DC GL-6555 AC/DC 	

Impulse electrical - Electropilot series B (10 mm)

Single impulse

	GL-6260 GL-6261 

Double impulse

	GL-6266 	GL-6666 
	GL-6366 	GL-6766 
	GL-6466 	GL-6866 
	GL-6566 	

Solenoid valves are supplied without coil and connector



Multipolar connection



Connector external



Connector with loose cables

GP-6100	GP-6110	GP-611212	GP-611806	GP-6210/1/2	GP-6220/1/2
threaded end plate	blank end plate	threaded end plate with male connector 25 poles 12+12 coils control 12-14	threaded end plate with male connector 25 poles 18 coils control 14 6 coils control 12	open diaphragms GP-6210 without electrical connection GP-6211 monostable GP-6212 bistable	sub-base with closed diaphragms GP-6220 without electrical connection GP-6221 monostable GP-6222 bistable

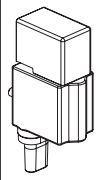
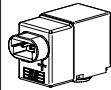
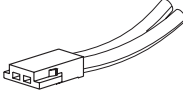
1	3 - 5			
sub-base with lifting bracket closed air supply and open exhausts	sud-base with open air supply and closed exhausts			
GP-6230/1/2	GP-6240/1/2	GP-6380	GP-6285	GP-6411
				
GP-6230 without electrical connection GP-6231 mostable GP-6232 bistable	GP-6240 without electrical connection GP-6241 mostable GP-6242 bistable	intermediate supply plate (to be used only with GP-63... sub-bases)	closing plate for unused valve place	lifting bracket

Customised solutions available on request Up to 12 seats

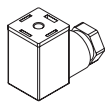
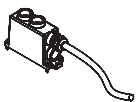
GP-6400-1	GP-6400-2	GP-6400-5	GP-6512-01/..MF	GP-6514-01/..MF	GP-651418
modular tie-rod 1 valve place AZ4-SN004A No. 100 nuts M4 for tie-rods AZ4-VN0416 No. 100 screws M4x16 for tie-rods	modular tie-rod 2 valve places	modular tie-rod 5 valve places	BUS connection card control side 12 with 12 pins GP-6512-01MF 1 place GP-6512-02MF 2 places GP-6512-03MF 3 places GP-6512-05MF 5 places GP-6512-06MF 6 places	BUS connection card control side 14 with 12 pins GP-6514-01MF 1 place GP-6514-02MF 2 places GP-6514-03MF 3 places GP-6514-05MF 5 places GP-6514-06MF 6 places	BUS connection card control side 14 with 18 pins (only 12 places) for manifolds with control 14 with more than 12 coils (up to 18) use GP-651418 card 12 places and then GP-6514-...

Customised solutions available on request Up to 12 seats

GZR-100	GZR-V10004/6/8	GZR-V20004/6/8	GZR-V20L004/6/8
blanking plug	straight fitting GZR-V10004 tube: 4 mm GZR-V10006 tube: 6 mm GZR-V10008 tube: 8 mm	low elbow fitting GZR-V20004 tube: 4 mm GZR-V20006 tube: 6 mm GZR-V20008 tube: 8 mm	high elbow fitting GZR-V20L004 tube: 4 mm GZR-V20L006 tube: 6 mm GZR-V20L008 tube: 8 mm

DD-...	DD-051-2C/DD-040-2C	DE-652I	D-530-30/50/200
			
24 V DC 2 W coil for single connection	24V DC coil - 2W with integrated connector for multipolar version	24 V DC 1,35 W coil with in-line connector with protection for a complete tightness	Miniature connector with loose cables D-530-30 = wire length 300 mm D-530-50 = wire length 500 mm D-530-200 = wire length 2000 mm

Electrical connection

AM-5109	TSCF24S0300
	TSCF24S0500
	TSCF24S1000
	
Connector 15 mm	sub-D flying female connector in compliance with CEI 20-22 O.R. II prewired for 24 coils (3-5-10 m length) M3x12 fixing screws

Example of panel mounting



SERIES G7 - VALVES AND SOLENOID VALVES 26 MM - G1/8



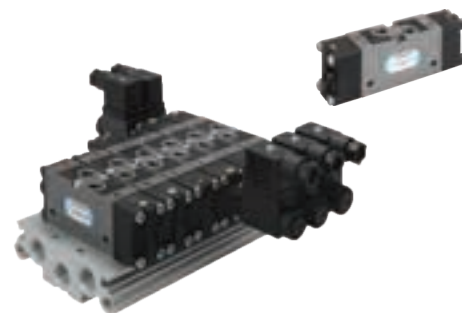
Pressure
Max 10 bar (1 MPa)



Temperature
- 10 °C
+ 45 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	spool
Nominal bore (mm)	6
Nominal flow rate (l/min)	860
Connections	G1/8
Valve body	zamak
Seals	NBR
Spool	aluminium
Electropilot/Coil	Series AA/U1-U3
Power consumption	3,5 W (DC), 5 VA (AC)
Connector	AM-5110
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

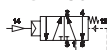


Impulse pneumatic

Single impulse



G-7230



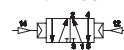
G-7231



Double impulse



G-7233



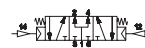
G-7333



G-7433



G-7533



Impulse electrical

Single impulse



G-7290



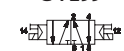
G-7291



Double impulse



G-7299



G-7399



G-7499



G-7599

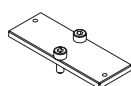


The valve is supplied with two plugs to be fixed with sealants on unused connections 2-4
Solenoid valves are supplied without coil/connector/locking nut

Multiple sub-base G1/8

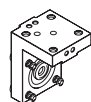


	Places
G-7900-02	2
G-7900-03	3
G-7900-04	4
G-7900-05	5
G-7900-06	6
G-7900-07	7



G-7885

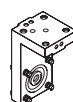
Closing plate for sub-base place



AM-5151

Angle plate for "H" solenoid option

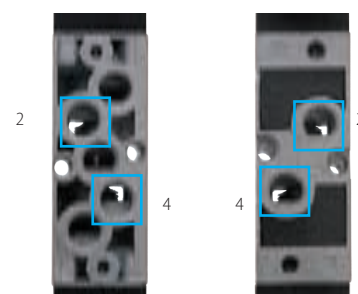
	Places
G-7900-08	8
G-7900-09	9
G-7900-10	10
G-7900-11	11
G-7900-12	12



AM-5152

Angle plate for "P" solenoid option

Threaded connections 2 - 4 on both sides of the valve



mixed system

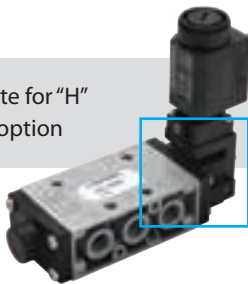
For heavy applications
Fast commutation
Large number of cycles
High flow rate



MIXED
for heavy applications



Angle plate for "H"
solenoid option



Angle plate for "P"
solenoid option

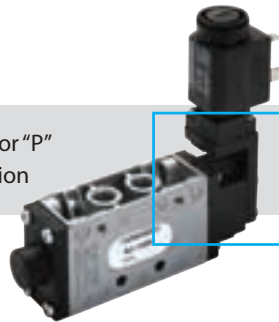
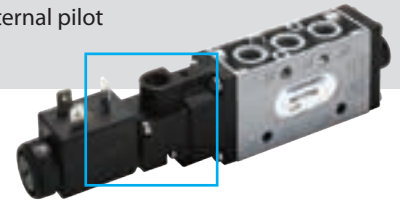


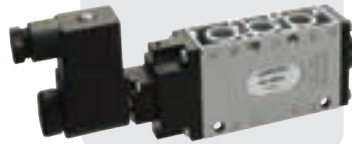
Plate for external pilot
supply



AC 7 - G1/8
1080 NI/min



AC 8 - G1/4
1600 NI/min



AC 9 - G1/2
4600 NI/min





Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

- 10 °C
+ 45 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commuation system	mixed with poppet
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

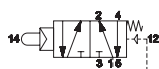


Connections	G1/8	G1/4	G1/2
Nominal bore (mm)	6	8	15
Nominal flow rate (NI/min)	1080	1600	4600
Valve body	zamak	zamak	die-cast aluminium
Seals	NBR, polyurethane		
Spool	aluminium		
Electropilot	U1 - AA	U1 - AA	U2 - AB
Coil	U1 - DA	U1 - DA	U2 - DB
Power consumption	3,5 W (DC) - 5 VA (AC)	3,5 W (DC) - 5 VA (AC)	11 W (DC) - 10 VA (AC)
Connector	AM 5110	AM 5110	AM 5111

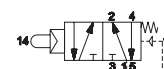
Indirect mechanical oforation

Preset for pneumatic, mechanical and manual oforators

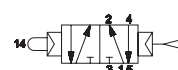
Preset for panel oforators Ø22



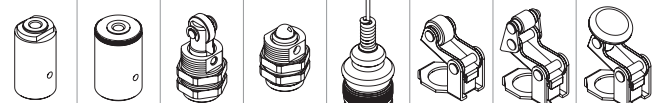
AC-7010 G1/8
AC-8010 G1/4
AC-9010 G1/2



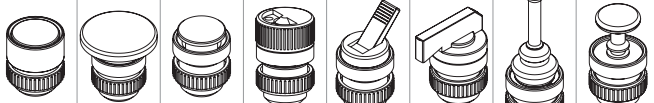
AC-7013 G1/8
AC-8013 G1/4
AC-9013 G1/2



AC-7013P G1/8
AC-8013P G1/4
AC-9013P G1/2



AI-3550 AI-3551 AI-3560 AI-3562 AI-3563 AI-3570 AI-3571 AI-3572

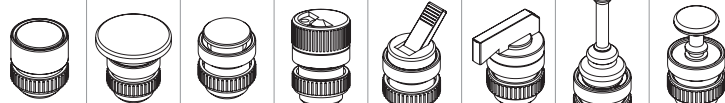


AI-3511 AI-3514 AI-3515 AI-3520 AI-3524 AI-3522 (2 pos) AI-3525 AI-3526

AI-3512 AI-3516 AI-3517 AI-3521

AI-3513 AI-3514D AI-3519

AI-3516D



AI-3511Q AI-3514Q AI-3515Q AI-3520Q AI-3524Q AI-3522Q (2 pos) AI-3525Q AI-3526Q

AI-3512Q AI-3516Q AI-3517Q AI-3521Q

AI-3513Q AI-3514QD AI-3519Q

AI-3516QD

Impulse pneumatic

Single impulse



AC-7100 G1/8
AC-8100 G1/4
AC-9100 G1/2

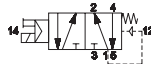
Double impulse



AC-7120 G1/8
AC-8120 G1/4
AC-9120 G1/2

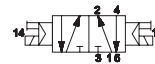
Impulse electrical

Single impulse



AC-7500 G1/8
AC-8500 G1/4
AC-9500 G1/2

Double impulse

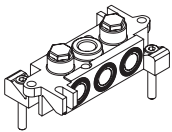


AC-7520 G1/8
AC-8520 G1/4
AC-9520 G1/2

Solenoid valves are supplied without coil/connector/locking nut

Modular sub-base

G1/8



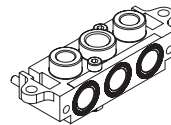
AC-7900

Sub-base with connections



AC-7905

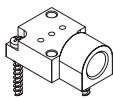
5/2 Mixed system inlet plate - G1/8



AC-8900

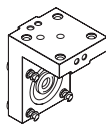
Sub-base with threaded connections G1/4

Sub-bases are supplied with fixing screws



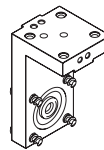
AM-5148

Plate for external pilot supply
G1/8 - G1/4



AM-5151

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



AM-5152

Angle plate for "P" solenoid option
G1/8 - G1/4

Solenoid valves are supplied without coil, connector and locking nut



Reference standard

ATEX
2014/34/UE



Pressure

Max 10 bar (1 MPa)



Temperature

- 10 °C
+ 45 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
Connections	G1/8
Nominal bore (mm)	5
Nominal flow rate (NI/min)	600 (NC), 550 (NO)
Valve body	zamak
Seals	NBR
Spool	nickel-plated brass



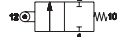
Lever Roller - spring



CH-250



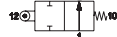
CH-252



CH-254



CH-256



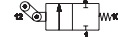
Lever Roller one-way - spring



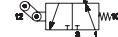
CH-260



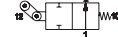
CH-262



CH-264



CH-266



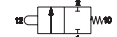
Ball-push - spring



CH-270



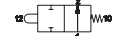
CH-272



CH-274



CH-276



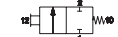
Lever a Button - spring



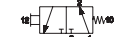
CH-280



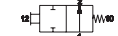
CH-282



CH-284



CH-286



WIDE RANGE

G1/8 ÷ G1 1/2 2/2 - 3/2 NC-NO

COMPRESSED AIR VERSION

VACUUM VERSION

Available also with external pilot vacuum supply

HIGH FLOW RATE

Up to 35000 NI/min (G1 1/2)



		AF NI/min Compressed air	AG m³/h Vacuum
	G1/8 (Ø 5,5)	580	1,5
	G1/4 (Ø 8) G3/8 (Ø 10)	1100 1500	4 10
	G1/2 (Ø 15) G3/4 (Ø 19)	5400 6500	20 35
	G1 (Ø 25)	13500	90
	G1 1/2 (Ø 39)	35000	180

Poppet system
UNIVER Original since 1973



SERIES AF - POPPET VALVES FOR COMPRESSED AIR G1/8 ÷ G1 1/2



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

MAX + 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions
Valve body	zamak (G1/8 ÷ G1), aluminium (G1 1/2)
Seals	polyurethane conical poppets and Vulkollan diaphragm
Spool	aluminium (G1/8 ÷ G3/8), steel + plastic (G1/2 ÷ G1 1/2)



Connections	G1/8	G1/4	G3/8	G1/2	G3/4	G1	G1 1/2
Nominal bore (mm)	5,5	8	10	15	19	25	39
Nominal flow rate (l/min)	580	1100	1500	5400	6500	13500	35000
G1/8				G1/4 ÷ G1 1/2			
Electropilot	AA			AB			
Coil	U1 - DA			U2 - DB			
Power consumption	3,5 W (DC) - 5 VA (AC)				11 W (DC) - 10 VA (AC)		
Connector	AM-5110				AM-5111		

Solenoid valves G1/8 ÷ G3/8



	3/2 NC	
	AF-2500	G1/8 U1
	3/2 NO	
	AF-2501	G1/8 U1



	3/2 NC	
	AF-2510	G1/4 U1
	AF-2517	G1/4 U2
	AF-2520	G3/8 U1
	3/2 NO	
	AF-2511	G1/4 U1
	AF-2518	G1/4 U2
	AF-2521	G3/8 U1
	3/2 NC	
	AF-2524	G3/8 U2

Solenoid valves G1/2 ÷ G1 1/2



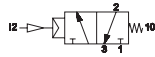
	3/2 NC	
	AF-2530	G1/2 U2
	AF-2540	G3/4 U2
	3/2 NO	
	AF-2531	G1/2 U2
	AF-2541	G3/4 U2
	3/2 NC	
	AF-2545	G1 U2



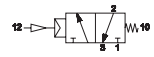
	3/2 NC	
	AF-2565	G1 1/2 U2
	3/2 NO	
	AF-2561	G1 1/2 U2

Solenoid valves are supplied without coil, connector.

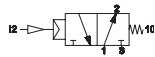
Pneumatic valves with external oforation G1/8 ÷ G3/8



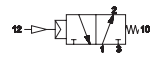
3/2 NC
AF-2600 G1/8



3/2 NC
AF-2601 G1/4
AF-2606 G3/8



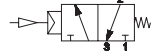
3/2 NO
AF-2700 G1/8



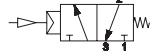
3/2 NO
AF-2701 G1/4
AF-2706 G3/8

Solenoid valves are supplied without coil, connector and locking nut

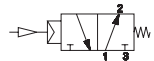
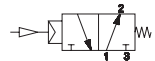
Pneumatic valves with external oforation G1/2 ÷ G1 1/2



3/2 NC- NO
AF-2603 G1/2
AF-2610 G3/4
AF-2615 G1

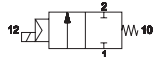


3/2 NC - NO
AF-2620 G1 1/2

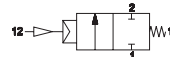


2/2 Solenoid valve for blowing G1

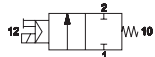
2/2 Pneumatic valve for blowing with ext. oforation G1



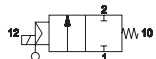
2/2 NC
AF-2550 G1



2/2 NC
AF-2617 G1



2/2 NC
AF-2551 G1



2/2 NC
AF-2552 G1

Solenoid valves are supplied without coil, connector and locking nut

SERIES AG - POPPET VALVES FOR VACUUM G1/8 ÷ G1 1/2



Reference standard

ATEX
2014/34/UE



Temperature

MAX + 50 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication - vacuum
Commutation system	poppet
Vacuum Max	759,5 mm Hg
Valve body	zamak (G1/8 ÷ G1), aluminium (G1 1/2)
Seals	polyurethane conical poppets and Vulkollan diaphragm(a) ; silicon poppets(b)
Spool	aluminium (G1/8 ÷ G3/8), steel + plastic (G1/2 ÷ G1 1/2)
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw 2 positions

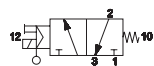
(a) = valve for vacuum with external air oforation

(b) = valve for direct vacuum with external vacuum oforation



Connections	G1/8	G1/4	G3/8	G1/2	G3/4	G1	G1 1/2
Nominal bore (mm)	5,5	8	10	15	19	25	39
	G1/8			G1/4 ÷ G1 1/2			
Electropilot	AA			AB			
Coil	U1 - DA			U2 - DB			
Power consumption	3,5 W (DC) - 5 VA (AC)			11 W (DC) - 10 VA (AC)			
Connector	AM-5110			AM-5111			

3/3 Solenoid valve for vacuum with external pilot air supply G1/8 ÷ G3/8

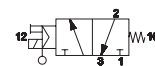


3/2 NC

AG-3001 G1/8

3/2 NO

AG-3002 G1/8



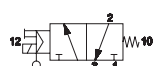
3/2 NC

AG-3009 G1/4
AG-3011 G3/8

3/2 NO

AG-3010 G1/4
AG-3012 G3/8

3/2 Solenoid valve for vacuum with external pilot air supply G1/2 ÷ G1 1/2



3/2 NC

AG-3020 G1/2
AG-3040 G3/4
AG-3050 G1

3/2 NO

AG-3021 G1/2
AG-3041 G3/4
AG-3051 G1



3/2 NC

AG-3062 G1 1/2

3/2 NO

AG-3063 G1 1/2

2/2 NC-NO versions available on request
Solenoid valves are supplied without coil, connector.

3/2 Pneumatic valve for vacuum with external air oration G1/8 ÷ G3/8



	3/2 NC	
	AG-3071 G1/8	
	3/2 NO	
	AG-3072 G1/8	



	3/2 NC	
	AG-3073 G1/4 AG-3075 G3/8	
	3/2 NO	
	AG-3074 G1/4 AG-3076 G3/8	

3/2 Pneumatic valve for vacuum with external air oration G1/2 ÷ G1 1/2



	3/2 NC	
	AG-3081 G1/2 AG-3091 G3/4 AG-3100 G1	
	3/2 NO	
	3/2 NO	
	AG-3082 G1/2 AG-3092 G3/4 AG-3101 G1	



	3/2 NC	
	AG-3110 G1 1/2	
	3/2 NO	
	AG-3111 G1 1/2	

3/2 Solenoid valve for direct vacuum with pilot vacuum supply G1/4 ÷ G1 1/2



	3/2 NC	
	AG-3210 G1/4 AG-3214 G3/8	
	3/2 NO	
	AG-3211 G1/4 AG-3215 G3/8	



	3/2 NC	
	AG-3222 G1/2 AG-3232 G3/4 AG-3242 G1	
	3/2 NO	
	AG-3223 G1/2 AG-3233 G3/4 AG-3243 G1	



	3/2 NC	
	AG-3256 G1 1/2	
	3/2 NO	
	AG-3257 G1 1/2	

2/2 - 3/2 Solenoid valve for vacuum with direct oration G1/4 - G1/2



	3/2 NC(a)	
	AG-3310 G1/4 Ø 3 mm AG-3311 G1/4 Ø 4 mm AG-3312 G1/4 Ø 5 mm AG-3313 G1/4 Ø 6 mm	
	2/2 NC	
	AG-3300 G1/4 Ø 3 mm AG-3301 G1/4 Ø 4 mm AG-3302 G1/4 Ø 5 mm AG-3303 G1/4 Ø 6 mm	
	(a) = Fixed exhaust Ø 3 mm	



	3/2 NC(a)	
	AG-3330 G1/2 Ø 8 mm AG-3331 G1/2 Ø 10 mm AG-3332 G1/2 Ø 11 mm	
	3/2 NO	
	AG-3320 G1/2 Ø 8 mm AG-3321 G1/2 Ø 10 mm AG-3322 G1/2 Ø 11 mm	



Coil U2 - 17 VA	
DB-0607	24V AC - 50/60 Hz
DB-0608	110V AC - 50/60 Hz
DB-0610	220V AC - 50/60 Hz

Solenoid valves are supplied without coil/connector/locking nut



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 90 °C

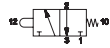
CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication	
Commutation system	poppet	
Connections	interface for sub-base	
Valve body	zamak	
Seals	NBR	
Spool	nickel-plated brass	

	standard	sensible
Nominal bore (mm)	2,3	1,5
Nominal flow rate (NI/min)	5110	55
Force (N)	5	4

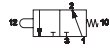


Mechanical push button - spring



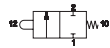
AI-3500
AI-3500S

standard
sensible



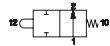
AI-3501
AI-3501S

standard
sensible



AI-3502

standard



AI-3503
Available on request

2/2 NO



AI-3550



AI-3551



AI-3560



AI-3562



AI-3563



AI-3570



AI-3571



AI-3572



AI-3511



AI-3514



AI-3515



AI-3520



AI-3524



AI-3522
(2 pos)



AI-3525



AI-3526

AI-3512

AI-3516

AI-3517

AI-3521

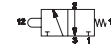
AI-3513

AI-3514D

AI-3519

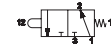
AI-3516D

Mechanical push button for panel oration - spring



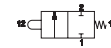
AI-3500Q
AI-3500SQ

standard
sensible



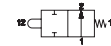
AI-3501Q
AI-3501SQ

standard
sensible



AI-3502Q

standard



AI-3503Q
Available on request

2/2 NO



AI-3511Q



AI-3514Q



AI-3515Q



AI-3520Q



AI-3524Q



AI-3522Q
(2 pos)



AI-3525Q



AI-3526Q

AI-3512Q

AI-3516Q

AI-3517Q

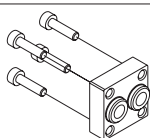
AI-3521Q

AI-3513Q

AI-3514QD

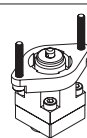
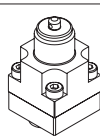
AI-3519Q

AI-3516QD

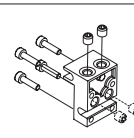


AI-3610

Sub-base with bottom connections M5

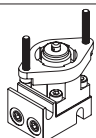
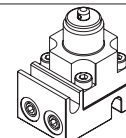


Sub-bases are supplied with M3x12 fixing screws (4 pcs) and M5x5 grub screws (2pcs) to close the unused ways.



AI-3612

Sub-base with side or bottom connections M5



Grub screws must be fixed with sealing loctite (243 type), being sure that loctite does not obstruct the ports or sink inside the valve. Grub screws must be screwed until reaching the base surface. Avoid screwing them completely.

SERIES AI - JET - END-STROKE PNEUMATIC SERIES JET



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 90 °C

CHARACTERISTICS

Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
Connections	M5, tube Ø4
Nominal bore (mm)	2,5
Nominal flow rate (l/min)	70
Valve body	zamak
Seals	NBR
Spool	nickel-plated brass



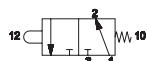
Ball push - spring

Tube Ø4

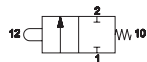
M5



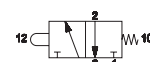
AI-9000



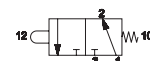
AI-9010



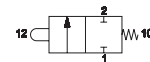
AI-9020



AI-9000M



AI-9010M

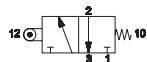


AI-9020M

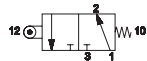
Roller lever - spring

Tube Ø4

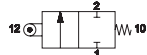
M5



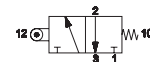
AI-9100



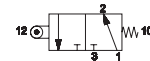
AI-9110



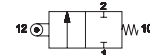
AI-9120



AI-9100M



AI-9110M

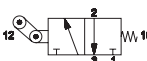


AI-9120M

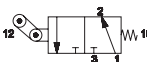
Roller lever one-way - spring

Tube Ø4

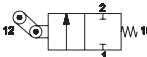
M5



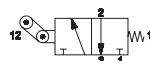
AI-9200



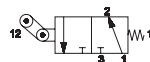
AI-9210



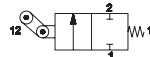
AI-9220



AI-9200M



AI-9210M

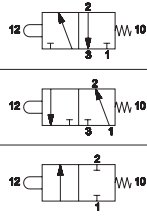


AI-9220M

Bulkhead mechanical push button - spring

Tube Ø4

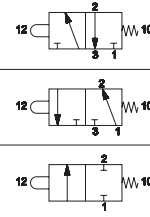
M5



AI-9300

AI-9310

AI-9320



AI-9300M

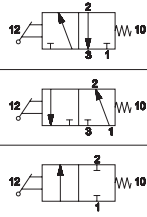
AI-9310M

AI-9320M

Button - spring

Tube Ø4

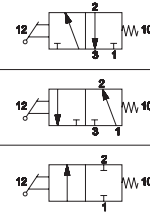
M5



AI-9350

AI-9360

AI-9370



AI-9350M

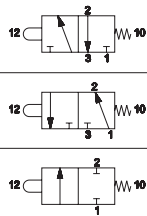
AI-9360M

AI-9370M

Mechanical push button for panel oforation - spring

Tube Ø4

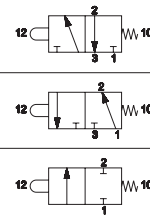
M5



AI-9400

AI-9410

AI-9420



AI-9400M

AI-9410M

AI-9420M



AI-3511Q ■ AI-3514Q ■ AI-3515Q ■ AI-3520Q ■ AI-3524Q ■ AI-3522Q ■ AI-3525Q ■ AI-3526Q ■
 AI-3512Q ■ AI-3516Q ■ AI-3517Q ■ AI-3521Q ■ (2 pos.)
 AI-3513Q ■ AI-3514QD ■ AI-3519Q ■ AI-3523Q ■
 AI-3516QD ■

SERIES AI - JET2 - VALVES WITH PANEL OFORATION 3/2 - 5/2 - 5/3



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 90 °C

CHARACTERISTICS

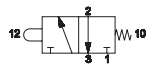
Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
Connections	M5, tube Ø4
Nominal bore (mm)	2,5
Nominal flow rate (NI/min)	70
Valve body	zamak
Seals	NBR
Spool	nickel-plated brass



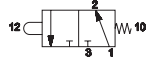
Mechanical push button for panel mounting

Tube Ø4

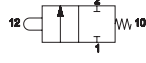
M5



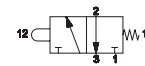
AI-9500B 3/2 NC



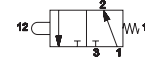
AI-9510B 3/2 NO



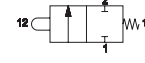
AI-9520B 2/2 NC



AI-9500BM 3/2 NC



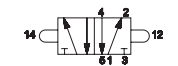
AI-9510BM 3/2 NO



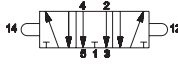
AI-9520BM 2/2 NC

Tube Ø4

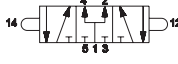
M5



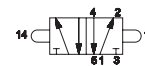
AI-9550B 5/2



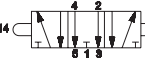
AI-9560B 5/3 o.c.



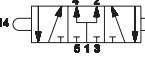
AI-9570B 5/3 p.c.



AI-9550BM 5/2



AI-9560BM 5/3 o.c.



AI-9570BM 5/3 p.c.

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



Recessed button

AI-35B10N ■
AI-35B10R ■
AI-35B10V ■



Protruding button

AI-35B11N ■
AI-35B11R ■
AI-35B11V ■



Two-position head button

AI-35B13N ■
AI-35B13R ■



Short lever selector

AI-35B20 2 steady positions
AI-35B21 3 unsteady positions
AI-35B22 3 steady positions



Long lever selector

AI-35B25 2 steady positions
AI-35B26 3 unsteady positions
AI-35B27 3 steady positions



Key selector

(extractable key)
AI-35B30 2 steady positions
AI-35B31 3 unsteady positions
AI-35B32 3 steady positions

SERIES AM - PNEUMATIC AND SOLENOID FOOT VALVES



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 70 °C

CHARACTERISTICS

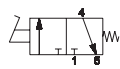
Fluid	filtered air 50 µm, with or without lubrication
Commutation system	poppet
PNEUMATIC FOOT VALVE:	
Valve body	zamak
Lever pedale	aluminium
Pedal body and protection	plastic material with steel reinforcement plate
Seals	oil-resistant and wear-resistant compound
Spool	aluminium
SOLENOID FOOT VALVE:	
Valve body, lever foot, protection	dielectric plastic material



Connections	G1/8	G1/4
Nominal bore (mm)	2,3	8
Nominal flow rate (l/min)	98	800

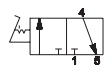
Pneumatic foot valve G1/4 with protection

Spring return



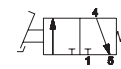
AM-5000

Bistable

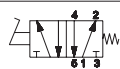


AM-5003

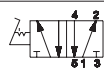
With safety control



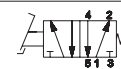
AM-5015



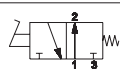
AM-5001



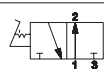
AM-5004



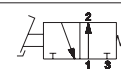
AM-5011



AM-5002

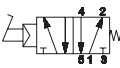


AM-5005



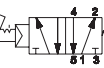
AM-5012

External orofation - Spring return



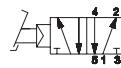
AM-5021

External orofation - bistable



AM-5031

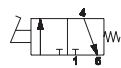
External orofation with safety control



AM-5041

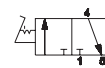
Pneumatic foot valve G1/4 without protection

Spring return

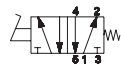


AM-5000A

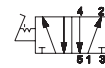
Bistable



AM-5003A



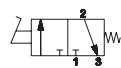
AM-5001A



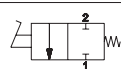
AM-5004A

Pneumatic foot valve G1/8 with protection

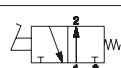
Spring return



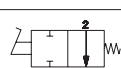
AM-5043



AM-5043B

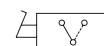


AM-5043C



AM-5043D

Solenoid foot valve



AM-5050

No electrical microswitch

AM-5051

Electrical microswitch

AM-5052

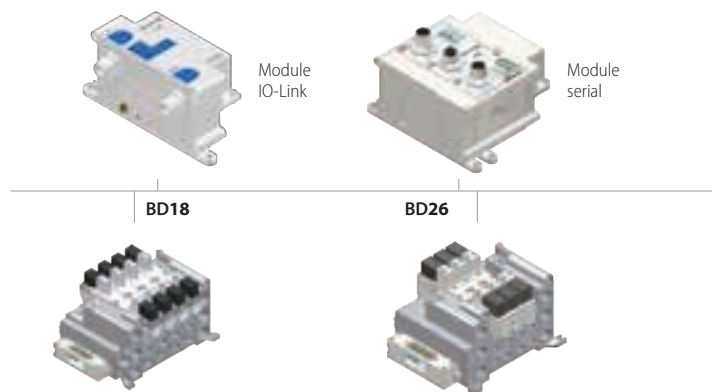
Double electrical microswitch

Version without protection available on request

Controlled devices	Manifolds, Digital input M12/M8, Output M12
Handling capacity	Max 64 inputs + 64 outputs (PROFIBUS-DP, CANopen, DeviceNet) Max 64 inputs + 88 outputs (PROFINET, EtherNet/IP, EtherCAT) Max 24 coils (IO-Link)
Integrated configuration	BD Series 18 - 26 mm P10 - P15 Series (COMPACT)
Distributed configuration	Remote expansion modules for valve manifolds with sub-D 25 plug-in (NO IO-Link)
Protocols	IO-Link, CANopen, DeviceNet, PROFINET, PROFIBUS-DP, EtherNet/IP, EtherCAT



Sistemi di comunicazione



IO-Link



Code	TCXLKA - TCXLKB
Auxiliary power supply	1 x M12 - 5 pins male (port class B)
Diagnostics	Optical, Primary, Extended
Capacity max I/O	24 coils

PROFIBUS-DP



Code	TCXP
Auxiliary power supply	1 x M12 - 4 pins male
Fieldbus	1 x M12 - 4 pins male B code
Connectors	1 x M12 - 4 pins female B code
Diagnostics	Optical, Primary, Extended
Capacity max I/O	64 In - 40 Out 24 coils

CANopen



Code	TCXC
Auxiliary power supply	1 x M12 - 4 pins male
Fieldbus	1 x M12 - 5 pins male
Connectors	1 x M12 - 5 pins female
Diagnostics	Optical, Primary, Extended
Capacity max I/O	64 In - 40 Out 24 coils supported
LSS Slave	

EtherNet/IP



Code	TCXEN
Auxiliary power supply	1 x M12 - 4 pins male
Connectors	2 x M12 - 4 pins female D code
Fieldbus	Optical, Primary, Extended
Diagnostics	64 In - 64 Out
Max I/O capacity	24 coils

DeviceNet



Code	TCXD
Auxiliary power supply	1 x 7/8" - 4 pins male
Fieldbus	1 x 7/8" - 5 pins male
Connectors	1 x 7/8" - 5 pins female
Diagnostics	Optical, Primary, Extended
Capacity max I/O	64 In - 40 Out 24 coils

EtherCAT



Code	TCXEC
Auxiliary power supply	1 x M12 - 4 pins male
Connectors	2 x M12 - 4 pins female D code
Fieldbus	Optical, Primary, Extended
Diagnostics	64 In - 64 Out
Max I/O capacity	24 coils

PROFINET

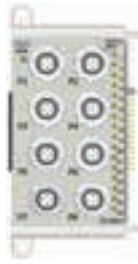


Code	TCXPN
Auxiliary power supply	1 x M12 - 4 pins male
Fieldbus	2 x M12 - 4 pins female
Connectors	D code
Diagnostics	Optical, Primary, Extended
Capacity max I/O	64 In - 64 Out 24 coils
FSU	supported

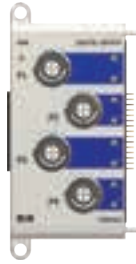
Expansion modules (not available for IO-Link)



TC8I412
8 Digital inputs M12



TC16I812
16 Digital inputs M12



TC8U412
8 Digital outputs M12



TC8I808
8 Digital inputs M8



TCR32ID
16+16 Digital inputs

TCR32UD
16+16 Digital outputs



TCXUS78
Auxiliary supply module 7/8"

Accessories for serial modules



TZ-F4M12
CANopen, Profi Bus, Profi Net EtherNet/IP, EtherCat IO-Link port class A
Power Supply Connector M12 female 4 poles



TZ-F5M12
CANopen IO-Link port class A/B
Input Bus M12 female 5 poles



TZ-M5M12/T
TZ-M5M12 CANopen
Output Bus M12 male 5 poles

TZ-M5M12T CANopen,
Bus terminating connector M12 male 5 poles



TZ-F478
DeviceNet
Power Supply Connector 7/8 female 4 poles



TZ-F578
DeviceNet
Input Bus 7/8 female 5 poles



TZ-M578/T
TZ-M578 DeviceNet
Input Bus 7/8 male 5 poles

TZ-M578T DeviceNet
Bus terminating connector 7/8 male 5 poles



TZ-F4M12-B
ProfiBus
Input Bus M12 female 5 poles B-code



TZ-M4M12-B/BT
TZ-M4M12-B ProfiBus
Output Bus M12 male 4 poles B-code
TZ-M4M12-BT ProfiBus
Bus terminating connector M12 male 4 poles B-code

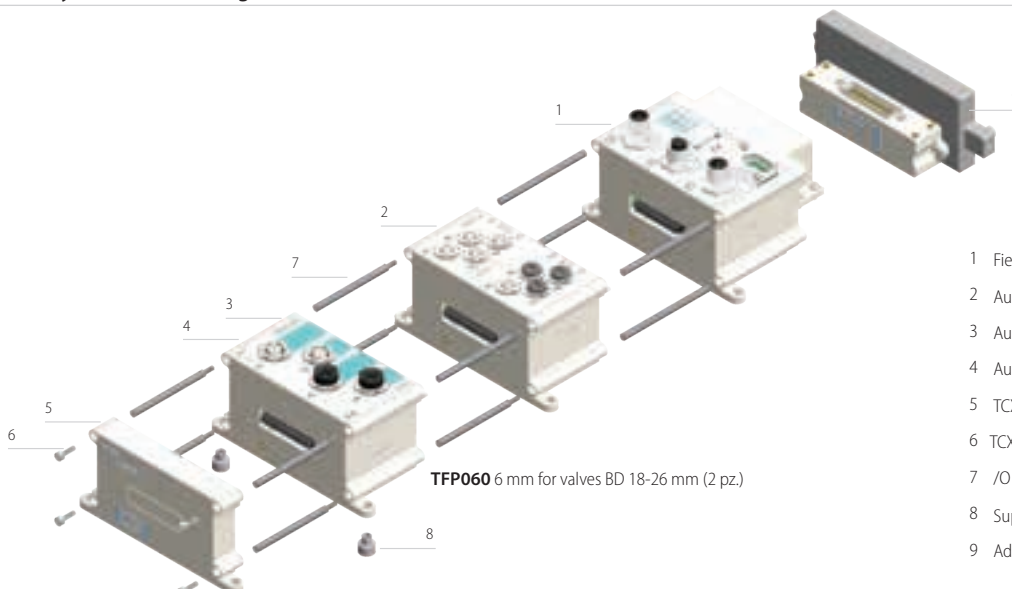


TZ-M4M12-D
ProfiNet, EtherNet/IP, EtherCat
Input/Output Bus M12 male 4 poles D-code



TSCFN16...
TSCFN16D0300
Pre-wired cable, sub D, 25-pin, 16 signals, 3 m
TSCFN16D0500
Pre-wired cable, sub-D 25 poles, 16 signals 5 m
TSCFN16D1000
Pre-wired cable, sub-D 25 poles, 16 signals 10 m

Assembly scheme (excluding IO-Link)



- 1 FieldBus Module
- 2 Auxiliary Module - Inputs 8 x M8
- 3 Auxiliary Module - Inputs 4 x M12
- 4 Auxiliary Module - Outputs 4 x M12
- 5 TCXX end cover included (1 pc)
- 6 TCXX cover screws included (4 pcs.)
- 7 /O tie-rods included (4 pcs.)
- 8 Support foot for modules
- 9 Adaptor for 18-26 mm VDMA Manifold

U04 - U05 - U06 - U1 - U2 - U3 Coils and Connectors

MATCHING TABLE
- COILS/ELECTROPILOTS
- ELECTROPILOTS/SOLENOID VALVES

			Electropilots						
			A (U05)	B (U04)	AA (U1)	AA (U3)		AB (U2)	
Coils	U04	10 mm		■					
	U05	15 mm	■						
	U1	22 mm			■				
	U2	30 mm						■	■
	U3	30 mm				■	■		
Solenoid valves	BE	ISO 1 - ISO 2 ISO 3 - ISO 4	■ (a)					■	R
	AE	ISO 1 - ISO 2			■	■			
	BD	ISO 01 26 mm ISO 02 18 mm	■						
	AC-N	Interface NAMUR			■	■			
	CL	G1/8			■	■			
	CM	G1/4							
	COMPA 2/4		■						
	G6	G1/8	■	■					
	GL6	sub-base							
	G7	G1/8	R		■	■			
	AC	G1/8 - G1/4							
		G1/2			■	■			
	AF	G1/8			R	R		■	
		G1/4 - G3/8			■	■			
		G1/2 ÷ G1			■	■		■	
		G1 1/2			R	R		■	■
	AG	G1/8							
		G1/4 ÷ G1			■	■			
		G1 1/2			R	R		■	■

■ = Standard

R = On request

(a) = Connector M12

10 mm U04 Coils for B Series electropilots

With integrated 90° upward connector



DE-352 24 V DC 1,2 W
DE-452 24 V DC 1,35 W
(whith led)
DE-355 24 V DC 0,5 W

Connector:
D-500
D-530-...
D-535-...

With in-line connector



DE-552 24 V DC 1,2 W
DE-652 24 V DC 1,35 W
(whith led)

Connector:
D-500
D-530-...
D-535-...

With loose cables (length 300 mm)



DE-052L030 24 V DC 1,2 W

With in-line connector with protecting cover for complete tightness



DE-642I 12 V DC 1,35 W
DE-652I 24 V DC 1,35 W
(whith led)

Connector:
D-530C-100
D-530C-200

15 mm U05 Coils for A series electropilot

with integrated 90° upward connector



DD-351 24 V DC

Connector:
D-500
D-530-...
D-535-...

with integrated 90° downward connector



DD-151 24 V DC

Connector:
D-500
D-530-...
D-535-...

with in-line connector



DD-551 24 V DC

Connector:
D-500
D-530-...
D-535-...

with loose cables (300 mm)



DD-051L030 24 V DC 2 W
DD-052L030 24 V DC 2,5 W

15 mm - Faston



DD-013 230 V AC 50/60 Hz 3,5 VA
DD-040 24 V AC 50/60 Hz 2,3 VA
DD-041 12 V DC 2 W
DD-042 12 V DC 2,5 W
DD-050 48 V AC 50/60 Hz 2,3 VA

Connector:
AM-5109

DD-051 24 V DC 2 W
DD-052 24 V DC 2,5 W
DD-060 110 V AC 50/60 Hz 2,3 VA
DD-070 230 V AC 50/60 Hz 2,3 VA

Coils U1 - U2 - U3

22 mm (U1)

Ø 10 MM



DA-0050 12 V DC 3,5 W
DA-0051 24 V DC 3,5 W
DA-0106 24 V AC 50/60 Hz 5 VA
DA-0108 110 V AC 50/60 Hz 5 VA
DA-0124 230 V AC 50/60 Hz 5 VA

30 mm (U2)

Ø 13 MM



DB-0501 12 V DC 11 W
DB-0502 24 V DC 11 W
DB-0507 24 V AC 50/60 Hz 10 VA
DB-0509 110 V AC 50/60 Hz 10 VA
DB-0510 230 V AC 50/60 Hz 10 VA

30 mm (U3)

Ø 10 MM



DC-0301 12 V DC 2,5 W
DC-0302 24 V DC 2,5 W
DC-0307 24 V AC 50/60 Hz 3,3 VA
DC-0309 110 V AC 50/60 Hz 3,3 VA
DC-0310 230 V AC 50/60 Hz 3,3 VA

For CSA-UL Certified coils see Certified Electropilot section

Connectors

Miniature connector without wires



D-500

Coil:
U04/U05

Miniature connector with loose cables



D-530-30
D-530-50
D-530-200

Coil:
U04/U05

Miniature connector with cable



D-535-30
D-535-50
D-535-200

Coil:
U04/U05

Connector 15 mm



AM-5109

Coil:
U05/U06

Connector 22 mm



AM-5110

Coil:
U1

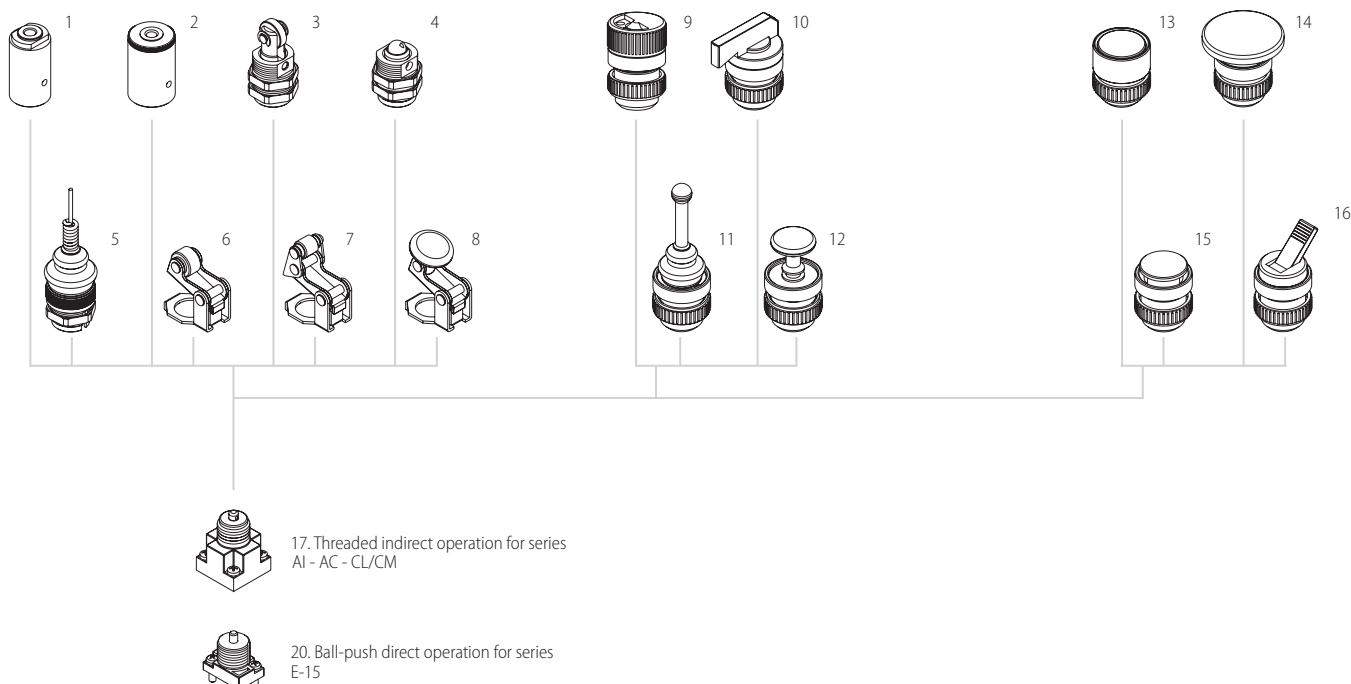
Connector 30 mm



AM-5111

Coil:
U2/U3

Operator/button modularity



13. Recessed button



1 Position

AI-3511
AI-3512
AI-3513

black ■
red ■
green ■

14. Head button



1 Position

AI-3514
AI-3516

red ■
black ■

2 Positions

AI-3514D
AI-3516D

red ■
black ■

15. Button



1 Position

AI-3515
AI-3517
AI-3519

green ■
red ■
black ■

16. Lever



2 Positions

AI-3524

black ■

9. Rotating selector for accident prevention



With light 1 position

AI-3521

black ■

With light 2 positions

AI-3520

black ■

10. Rotating lever selector



With light 1 position

AI-3523

black ■

With light 2 positions

AI-3522

black ■

11. Omni-directional lever



With centre return 1 position
AI-3525 black ■

12. Push-pull operator



2 positions
AI-3526 black ■

Pneumatic and mechanical operators

1. Pneumatic operator



AI-3550

3. Roller operator with dust protection



AI-3560

5. Omni-directional antenna 1 position with centre return



AI-3563

6. Roller lever 1 position



AI-3570

7. Articulated one-way roller lever 1 position



AI-3571

2. Amplified pneumatic operator



AI-3551

4. Ball operator with dust protection



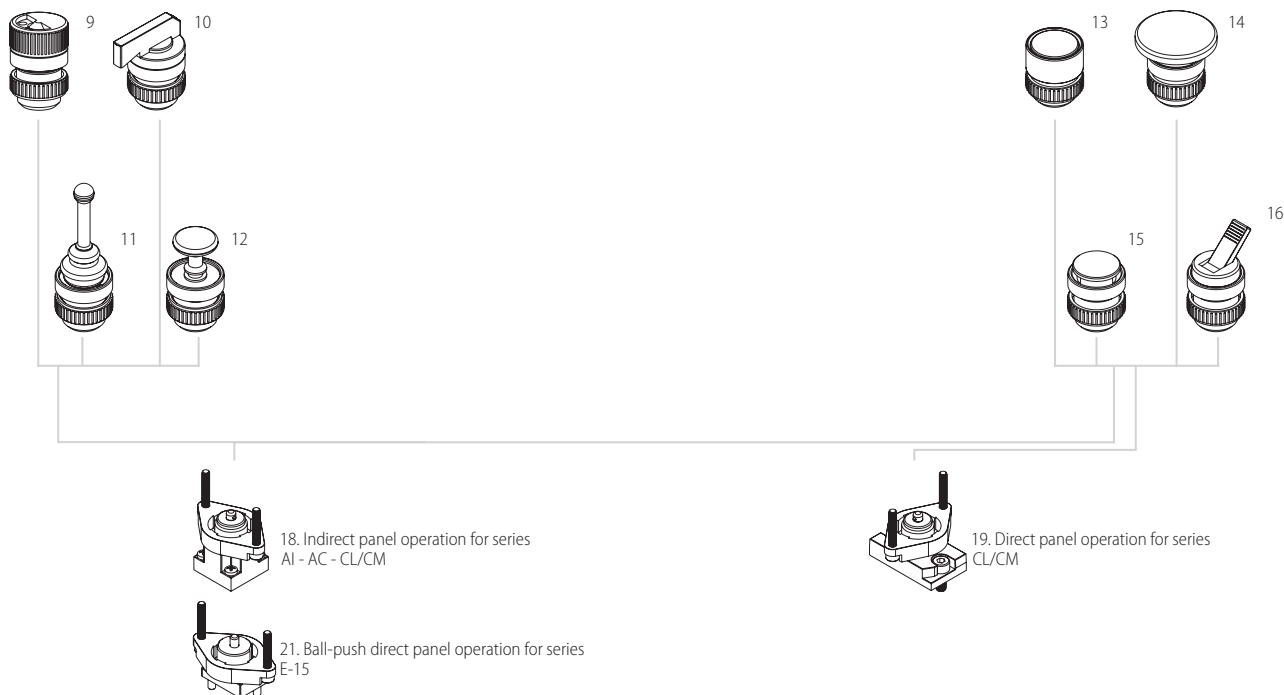
AI-3562

8. Push button 1 position



AI-3572

Operator/button modularity



13. Recessed button



For panel mounting
1 Position

AI-3511Q black ■
AI-3512Q red ■
AI-3513Q green ■

14. Head button



For panel mounting
1 Position

AI-3514Q red ■
AI-3516Q black ■

For panel mounting
2 Positions

AI-3514QD red ■
AI-3516QD black ■

15. Button



For panel mounting
1 Position

AI-3515Q green ■
AI-3517Q red ■
AI-3519Q black ■

16. Lever



For panel mounting
2 Positions

AI-3524Q black ■

9. Rotating selector for accident prevention



For panel mounting with light
1 position

AI-3521Q black ■

For panel mounting with light
2 positions

AI-3520Q black ■

10. Rotating lever selector



For panel mounting with light
1 position

AI-3523Q black ■

For panel mounting with light
2 positions

AI-3522Q black ■

11. Omni-directional lever



For panel mounting with centre return
1 position



AI-3525Q

black



AI-3529

reducer for Ø 30,5 to Ø 22,5, to be used with AI-35..Q limit switches

12. Push-pull operator



For panel mounting
2 positions



AI-3526Q

black



SERIES CSA-UL - ELECTROPILOTS WITH "CSA" - "UL" CERTIFICATION



Reference standard

ATEX
2014/34/UE



Pressure

MAX 10 bar (1 MPa)



Temperature

-10 + 45 °C

CHARACTERISTICS

Duty cycle ED ^(a)

100%

Voltage tolerance

±10%

Products with this mark are certified by the Canadian CSA organization in compliance with the standards required by USA (US on the right of the logo) and Canada market (C on the left of the logo).

Certification N° 244884.

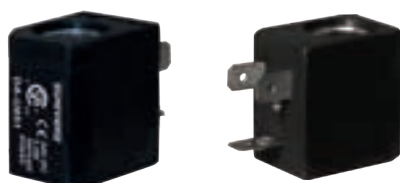
In compliance with:

CSA C22.2 No. 139-13

UL 429; 2013



U1 22 mm coil to be used with electropilot series AA



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DA-U050	3,5	3,5	12 V DC	0,06
DA-U051	3,5	3,5	24 V DC	0,06
DA-U101	6	6	12 V DC*	0,06
DA-U102	6	6	24 V DC	0,06
DA-U103	6	6	48 V DC*	0,06
DA-U104	6	6	110 V DC*	0,06
DA-U106	5 VA (Max)	7,8 VA (Max)	24 V AC/50-60 HZ	0,06
DA-U108	5 VA (Max)	7,8 VA (Max)	110 V AC/50-60 HZ	0,06
DA-U124	5 VA (Max)	7,8 VA (Max)	230 V AC/50-60 HZ	0,06

(*) = on request

U2 30 mm coil to be used with electropilot series AB



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DB-U501	11	11	12 V DC	0,10
DB-U502	11	11	24 V DC	0,10
DB-U503	11	11	48 V DC*	0,10
DB-U504	11	11	110 V DC*	0,10
DB-U507	10 VA (Max)	16 VA (Max)	24 V AC/50-60 HZ	0,10
DB-U509	10 VA (Max)	16 VA (Max)	110 V AC/50-60 HZ	0,10
DB-U510	10 VA (Max)	16 VA (Max)	230 V AC/50-60 HZ	0,10

(*) = on request

U3 30 mm coil to be used with electropilot series AA



Code	Power consumption W		Rated voltage	Weight (Kg)
	hold	inrush		
DC-U301	2,5	2,5	12 V DC	0,08
DC-U302	2,5	2,5	24 V DC	0,08
DC-U304	2,5	2,5	110 V DC*	0,08
DC-U307	3,3 VA (Max)	5 VA (Max)	24 V AC/50-60 HZ	0,08
DC-U309	3,3 VA (Max)	5 VA (Max)	110 V AC/50-60 HZ	0,08
DC-U310	3,3 VA (Max)	5 VA (Max)	230 V AC/50-60 HZ	0,08

(*) = on request

(a) = Under continuous service maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

**AM-5110**

Connector for U1 coil
Protection according to IP 65. PG9 cable connection. 180° rotation on the coil.
LED and moulded cable are available on request.

**AM-5111**

DIN 43650 Connector for U2, U3 coil
Protection according to IP 65. PG9 cable connection. 360° rotation on the coil.
LED and moulded cable are available on request.

For technical details on electropilots/valves refer to our technical catalogue

SERIES 14V - ELECTROPNEUMATIC VALVE - G1/8



Main Features

- Integrated electrical connection system
- IP65 protection rating
- Single size 16 mm thick
- Connections with female threads machined into the valve body
- Quick and easy assembly with few components in the solenoid valve assembly



Reference standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: anodised aluminium
- Spool in nickel-plated aluminium
- Piston & Spool Seals in Elastomer
- Springs: Stainless steel AISI 302

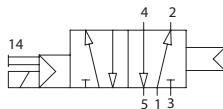


16 MM

FLOW RATE:
553→706 NI/min

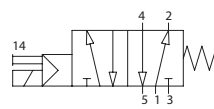
SOLENOID VALVES - G1/8

MONOSTABLE PNEUMATIC RETURN



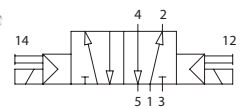
Code	Function	Vie
14V S4 5 00 02	-	5/2
-	-	-
-	-	-

MONOSTABLE MECHANICAL SPRING RETURN (ON REQUEST)



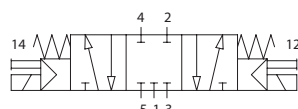
Code	Function	Vie
14V S0 5 00 02	-	5/2
-	-	-
-	-	-

BISTABLE

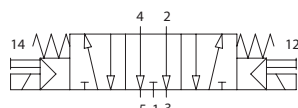


Code	Function	Vie
14V S1 5 00 02	-	5/2
-	-	-
-	-	-

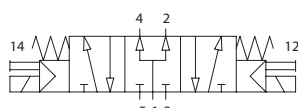
MONOSTABLE MECHANICAL RETURN



CC



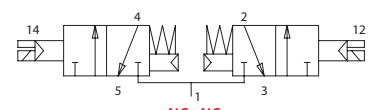
OC



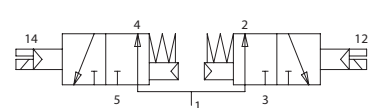
PC

Code	Function	Vie
14V S0 7 CC 02	CC	5/3
14V S0 7 OC 02	OC	5/3
14V S0 7 PC 02	PC	5/3

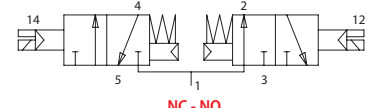
DOUBLE 3/2 MONOSTABLE MECHANICAL RETURN



NC - NC



NO - NO



NC - NO

Code	Function	Vie
14V S0 8 NC 02	NC	5/4
14V S0 8 NO 02	NO	5/4
14V S0 8 NN 02	NC-NO	5/4

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW		ORIENTING ELBOW	
							
Code	tube	Code	Ø	Code	tube	Code	tube
50015 00 N03	6 - 1/8	50610 00 31 X4 RO	6	55140 00 002	4 - 6	55150 00 002	4 - 6
50015 00 N04	8 - 1/8	50610 00 31 X7 RO	8	55140 00 005	6 - 6	55150 00 005	6 - 6
-	-	-	-	55140 00 007	8 - 8	55150 00 007	8 - 8

CABLE WITH INLINE FEMALE CONNECTOR M8X1		CABLE WITH "L" FEMALE CONNECTOR M8X1	
			
Code	Lengh	Code	Lengh
PX 2000 PUR	5 mt	PX 20001 PUR	5 mt
PX 5000 PUR	10 mt	PX 50001 PUR	10 mt

SERIES 14V - PNEUMATIC VALVE - G1/8



Main Features

- IP65 protection rating
- One size only, 16 mm thick
- Connections with female threads machined into the valve body
- Quick and easy assembly with few components in the solenoid valve assembly



Reference standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: anodised aluminium
- Spool in aluminum
- Piston & Spool Seals in Elastomer
- Springs: Stainless steel AISI 302

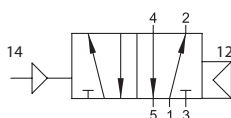


16 MM

FLOW RATE:
553→706 NI/min

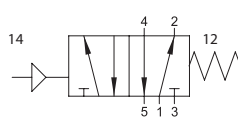
SOLENOID VALVES - G1/8

MONOSTABLE WITH PNEUMATIC RETURN



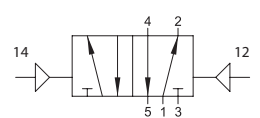
Code	Function	Vie
14V P4 5 00 02	-	5/2
-	-	-
-	-	-

MONOSTABLE MECHANICAL SPRING RETURN (ON REQUEST)



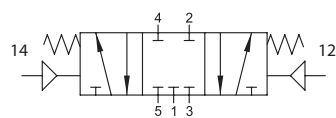
Code	Function	Vie
14V P0 5 00 02	-	5/2
-	-	-
-	-	-

BISTABLE

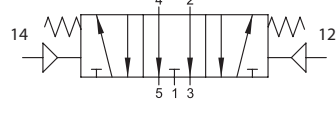


Code	Function	Vie
14V P1 5 00 02	-	5/2
-	-	-
-	-	-

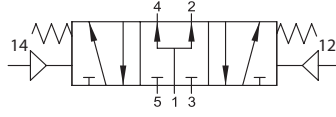
MONOSTABLE CON RETURN MECCANICA



CC



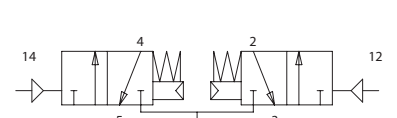
OC



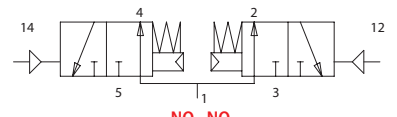
PC

Code	Function	Vie
14V P0 7 CC 02	CC	5/3
14V P0 7 OC 02	OC	5/3
14V P0 7 PC 02	PC	5/3

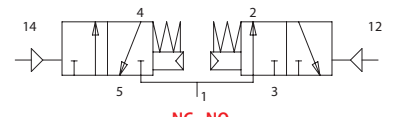
DOUBLE 3/2 MONOSTABLE MECHANICAL RETURN



NC - NC



NO - NO



NC - NO

Code	Function	Vie
14V P0 8 NC 02	NC	5/4
14V P0 8 NO 02	NO	5/4
14V P0 8 NN 02	NC-NO	5/4

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW		ORIENTING ELBOW	
							
Code	tube	Code	Ø	Code	tube	Code	tube
50015 00 N03	6 - 1/8	50610 00 31 X4 RO	6	55140 00 002	4 - 6	55150 00 002	4 - 6
50015 00 N04	8 - 1/8	50610 00 31 X7 RO	8	55140 00 005	6 - 6	55150 00 005	6 - 6
-	-	-	-	55140 00 007	8 - 8	55150 00 007	8 - 8

SERIES 18V - PNEUMATIC VALVE - M5 / M7



Main Features

- Integrated electrical connection system
- IP65 protection
- 10 mm thickness
- Usage connections with female threads machined in the valve body
- Quick, fast and with few elements of the solenoid valve roun



Reference standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: anodised aluminium
- Spool in aluminum
- Piston & Spool Seals in Elastomer
- Springs: Stainless steel AISI 302

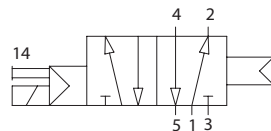


10 MM

FLOW RATE:
170 NI/min

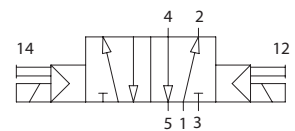
SOLENOID VALVES - M5 / M7

MONOSTABLE WITH PNEUMATIC RETURN



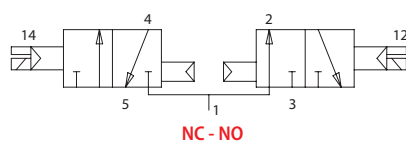
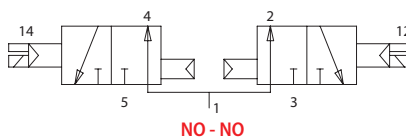
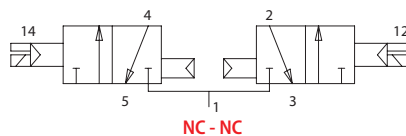
Code	Function	Vie
18V S4 5 00 C0	-	5/2
-	-	-
-	-	-

BISTABLE



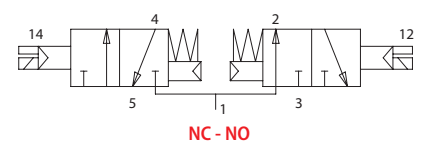
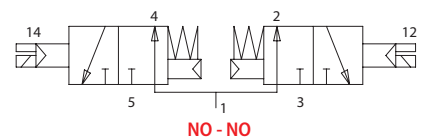
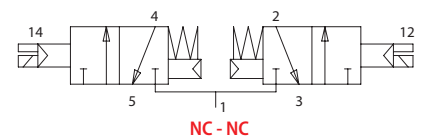
Code	Function	Vie
18V S1 5 00 C0	-	5/2
-	-	-
-	-	-

DOUBLE 3/2 PNEUMATIC RETURN



Code	Function	Vie
18V S4 8 NC C0	NC	5/4
18V S4 8 NO C0	NO	5/4
18V S4 8 NN C0	NC-NO	5/4

DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



Code	Function	Vie
18V S0 8 NC C0	NC	5/4
18V S0 8 NO C0	NO	5/4
18V S0 8 NN C0	NC - NO	5/4

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW		ORIENTING ELBOW	
							
Code	tube	Code	Ø	Code	tube	Code	tube
56010 00 001	4 - M5	50610 00 31 X1 RO	4	55140 00 002	4 - 6	55150 00 002	4 - 6
56010 00 002	4 - M7	50610 00 31 X4 RO	6	55140 00 005	6 - 6	55150 00 005	6 - 6
56010 00 003	6 - M5	-	-	-	-	-	-
56010 00 004	6 - M7	-	-	-	-	-	-

CABLE WITH INLINE FEMALE CONNECTOR M8X1		CABLE WITH "L" FEMALE CONNECTOR M8X1	
			
Code	Lengh	Code	Lengh
PX 2000 PUR	5 mt	PX 2001 PUR	5 mt
PX 5000 PUR	10 mt	PX 5001 PUR	10 mt



Main Features

- IP65 protection rating
- Single size, 10 mm thick
- Connections with female threads machined into the valve body
- Quick and easy assembly with few components in the solenoid valve assembly



Reference standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: anodised aluminium
- Spool in aluminum
- Piston & Spool Seals in Elastomer
- Springs: Stainless steel AISI 302

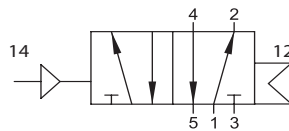


10 MM
↔

FLOW RATE:
170 NI/min

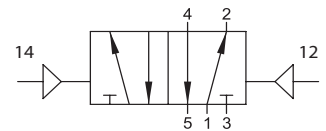
SOLENOID VALVES - M5 / M7

MONOSTABLE WITH PNEUMATIC RETURN



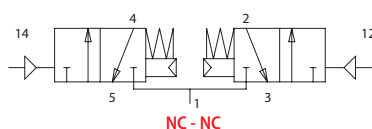
Code	Function	Vie
18V P4 5 00 C0	-	5/2
-	-	-
-	-	-

BISTABLE

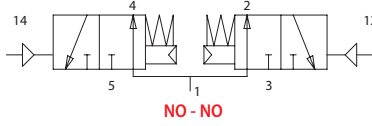


Code	Function	Vie
18V P1 5 00 C0	-	5/2
-	-	-
-	-	-

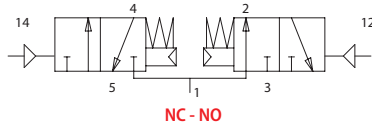
DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



NC - NC



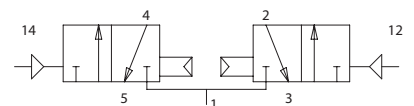
NO - NO



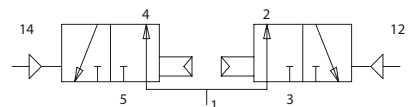
NC - NO

Code	Function	Vie
18V P0 8 NC C0	NC	5/4
18V P0 8 NO C0	NO	5/4
18V P0 8 NN C0	NC-NO	5/4

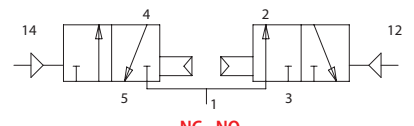
DOUBLE 3/2 PNEUMATIC RETURN



NC - NC



NO - NO



NC - NO

Code	Function	Vie
18V P4 8 NC C0	NC	5/4
18V P4 8 NO C0	NO	5/4
18V P4 8 NN C0	NC-NO	5/4

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW		ORIENTING ELBOW	
							
Code	tube	Code	Ø	Code	tube	Code	tube
56010 00 001	4 - M5	50610 00 31 X1 RO	4	55140 00 002	4 - 6	55150 00 002	4 - 6
56010 00 002	4 - M7	50610 00 31 X4 RO	6	55140 00 005	6 - 6	55150 00 005	6 - 6
56010 00 003	6 - M5	-	-	-	-	-	-
56010 00 004	6 - M7	-	-	-	-	-	-

SERIES 16V - FIELDBUS ELECTROPNEUMATIC VALVES



Main Features

- Integrated electrical connection system
- IP67 protection rating
- Single size 16 mm thick
- Electro-pilots on one side only
- Identical dimensions for monostable and bistable solenoid valves
- Connections with female threading machined into the base
- Quick and easy assembly with few components in the solenoid valve group



Reference standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: anodised aluminium
- Spool in aluminum
- Piston & Spool Seals in Elastomer
- Springs: Stainless steel AISI 302

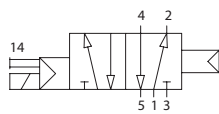


16 MM

FLOW RATE:
553→706 NI/min

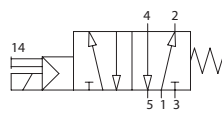
FIELDBUS SOLENOID VALVES

MONOSTABLE WITH PNEUMATIC SPRING RETURN



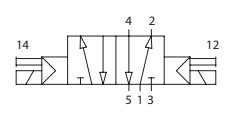
Code	Function	Vie
16V S4 5 00 00	-	5/2
-	-	-
-	-	-

MONOSTABLE MECHANICAL SPRING RETURN (ON REQUEST)



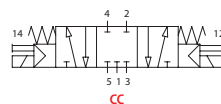
Code	Function	Vie
16V S0 5 00 00	-	5/2
-	-	-
-	-	-

BISTABLE

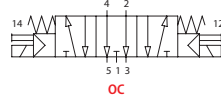


Code	Function	Vie
16V S1 5 00 00	-	5/2
-	-	-
-	-	-

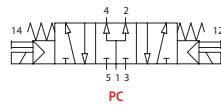
MONOSTABLE WITH PNEUMATIC SPRING RETURN



CC



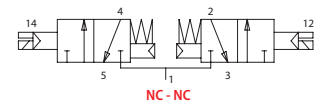
OC



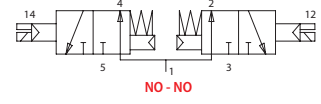
PC

Code	Function	Vie
16V S0 7 CC 00	CC	5/3
16V S0 7 OC 00	OC	5/3
16V S0 7 PC 00	PC	5/3

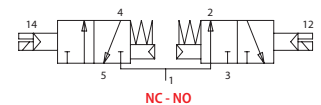
DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



NC - NC

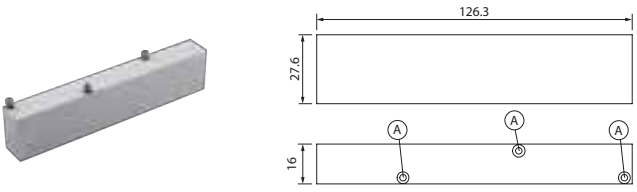
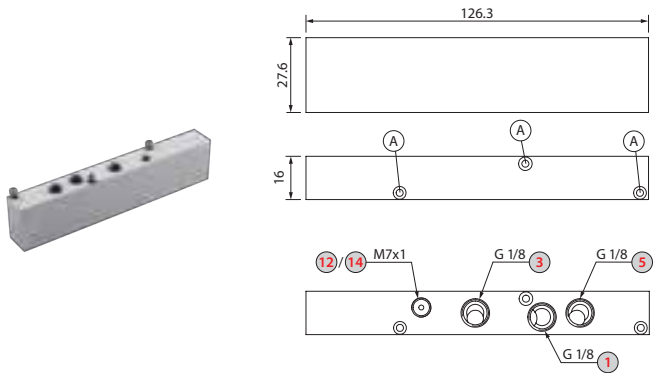


NO - NO



NC - NO

Code	Function	Vie
16V S0 8 NC 00	NC	5/4
16V S0 8 NO 00	NO	5/4
16V S0 8 NN 00	NC-NO	5/4

PLUG FOR UNUSED POSITIONS	INTERMEDIATE SUPPLY BLOCK
 Code 16V 36 0 00 00	 Code 16V 37 0 00 00

PNEUMATIC BASE WITH INTEGRATED PILOTING SYSTEM

BI-STABLE BASE WITH INTEGRATED PILOTING	MULTIPLE BASE WITH INTEGRATED PILOTING	SEPARATE PILOTING PLUG	SEPARATING PLUG
 Code 16VB0 04 00 0 N° Positions 4 16VB0 06 00 0 6 16VB0 08 00 0 8 16VB0 10 00 0 10 16VB0 12 00 0 12 16VB0 14 00 0 14 16VB0 16 00 0 16	 Code 16V B0 24 00 1 N° Positions BIS.8 POS.+ MONO.16 POS - - - - - - -	 Code 16V S0 7 CC 00 - - - - - -	 Code 16V S0 8 NC 00 - - - - - -

POWER SUPPLY UNIT

D-SUB 25 PINS	D-SUB 37 PINS	ETHERNET/IP	PROFINET
			
Code	Code	Code	Code
16V 17 00 00 1	16V 16 00 00 1	16V U1 00 00 0	16V U2 00 00 0

EtherCAT	POWERLINK	IO-LINK
		
Code	Code	Code
16V U3 00 00 0	16V U4 00 00 0	16V W3 00 00 2

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW	
							
Code	Tube	Code	Tube	Code	Ø	Code	Tube
50010 00 N09	4 - M7x1	50015 00 N03	6 - 1/8	50610 00 31 X1 RO	4	55140 00 002	4 - 6
-	-	50015 00 N04	8 - 1/8	50610 00 31 X4 RO	6	55140 00 005	6 - 6
-	-	50015 00 N12	10 - 1/4	50610 00 31 X7 RO	8	55140 00 007	8 - 8
-	-	-	-	50610 00 31 X9 RO	10	55140 00 008	8 - 10
-	-	-	-	-	-	55140 00 009	10 - 10

ORIENTING ELBOW		D-SUB 25 POLES CABLE WITH INLINE CONNECTOR		D-SUB 37 POLES CABLE WITH INLINE CONNECTOR		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE FEMALE CONNECTOR M8X1	
							
Code	Tube	Code	Lengh	Code	Lengh	Code	Lengh
55150 00 002	4 - 6	16V W1 05 00 0	5 mt	15V W1 05 00 0	5 mt	16V W2 05 00 0	5 mt
55150 00 005	6 - 6	16V W1 10 00 0	10 mt	15V W1 10 00 0	10 mt	16V W2 10 00 0	10 mt
55150 00 007	8 - 8	-	-	-	-	-	-
55150 00 008	8 - 10	-	-	-	-	-	-
55150 00 009	10 - 10	-	-	-	-	-	-

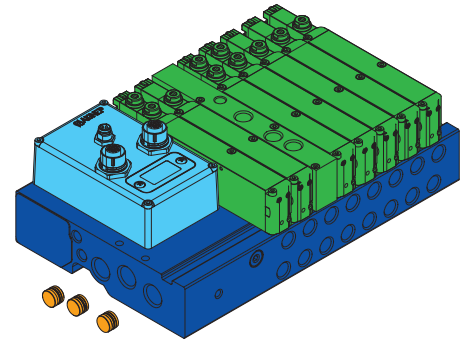
ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH "L" FEMALE CONNECTOR M8X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE CONNECTOR M12X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE CONNECTOR M12X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE - MALE CONNECTORS M12X1	
							
Code	Lengh	Code	Lengh	Code	Lengh	Code	Lengh
16V W2 05 00 1	5 mt	15V W5 05 00 0	5 mt	15V W5 05 00 1	5 mt	15V W6 05 00 0	5 mt
16V W2 10 00 1	10 mt	15V W5 10 00 0	10 mt	15V W5 10 00 1	10 mt	-	-

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE-MALE CONNECTORS M12X1

	
Code	Lengh
15V W6 05 00 1	5 mt



Insert the values of the boxes in the table on page 155 in the following columns, to configure your 16V valve.



1A	16V 17 00 00 1 D - SUB 25 Pins
1B	16V 16 00 00 1 D - SUB 37 Pins
1C	16V U1 00 00 0 Ethernet/IP
1D	16V U2 00 00 0 Profinet
1E	16V U3 00 00 0 EtherCAT
1F	16V U4 00 00 0 PowerLink

3A	16V S0 5 00 00 5/2 solenoid valve monostable mechanical spring return
3B	16V S4 5 00 00 5/2 solenoid valve monostable pneumatic spring return
3C	16V S1 5 00 00 5/2 solenoid valve two stable positions
3D	16V S0 7 CC 00 5/3 solenoid valve monostable mechanical spring return
3E	16V S0 7 OC 00 5/3 solenoid valve monostable mechanical spring return
3F	16V S0 7 PC 00 5/3 solenoid valve monostable mechanical spring return
4A	16V 39 0 00 00 Separation cap for supply and exhaust ducts

Bi-stable base	Bi-stable base with separate piloting
2K 16V B0 04 000 N° 4 Positions	2P 16V B1 04 000 N° 4 Positions
2L 16V B0 06 000 N° 6 Positions	2O 16V B1 06 000 N° 6 Positions
2A 16V B0 08 000 N° 8 Positions	2F 16V B1 08 000 N° 8 Positions
2B 16V B0 10 000 N° 10 Positions	2G 16V B1 10 000 N° 10 Positions
2C 16V B0 12 000 N° 12 Positions	2H 16V B1 12 000 N° 12 Positions
2M 16V B0 14 000 N° 14 Positions	2N 16V B1 14 000 N° 14 Positions
2D 16V B0 16 000 N° 16 Positions	2I 16V B1 16 000 N° 16 Positions
Multiple base (bi + mono-stable)	Multiple base with separate piloting
2E 16V B0 24 001 BIS.8 POS + MONO. 16 POS.	2J 16V B1 24 001 BIS.8 POS + MONO. 16 POS.

3G 16V S0 8 NC 00 5/4 solenoid valve monostable mechanical spring return - NC
3H 16V S0 8 NO 00 5/4 solenoid valve monostable mechanical spring return - NO
3I 16V S0 8 NN 00 5/4 solenoid valve monostable mechanical spring return - NN
3J 16V 36 0 00 00 Closing Plate
3K 16V 37 0 00 00 Intermediate air supply
4B 17V 18 0 00 00 Separation cap for pilot ducts

SET YOUR VALVE 16V

Power supply unit	
	☐

Base	
	☐

Valve, Closing plug, Intermediate air supply	
1° POS	☐
2° POS	☐
3° POS	☐
4° POS	☐
5° POS	☐
6° POS	☐
7° POS	☐
8° POS	☐
9° POS	☐
10° POS	☐
11° POS	☐
12° POS	☐
13° POS	☐
14° POS	☐
15° POS	☐
16° POS	☐

Valve, Closing plug, Intermediate air supply	
17° POS	☐
18° POS	☐
19° POS	☐
20° POS	☐
21° POS	☐
22° POS	☐
23° POS	☐
24° POS	☐

Separating plug	
☐	
☐	
☐	

Insert in positions no. N°	Air power	Exhaust	Pilot power supply
☐			
☐			
☐			

The use of intermediate pneumatic supply is recommended every 5 solenoid valves in case of simultaneous actuate output, to forform better.

SERIES 17V - FIELDBUS ELECTROPNEUMATIC VALVES



Main Features

- Integrated power consumption system
- IP63 protection rating
- Single size, 10 mm thick
- Electro-pilots on one side only
- Identical dimensions for monostable and bistable solenoid valves
- Connections with female threads machined into the base
- Quick and easy assembly with few components in the solenoid valve assembly



Reference standard

1907/2006
REACH

2011/65/CE
RoHS

PED
2014/68/UE



Fluids

- Air



Component Parts and Materials

- Body: Aluminium anodised
- Base: Aluminium anodised
- Spool: aluminium
- Seals spool e piston: elastomero
- Springs: Steel, Stainless steel AISI 302

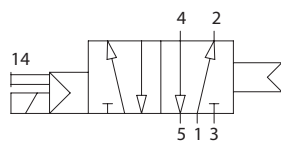


10 MM

FLOW RATE:
200→220 NI/min

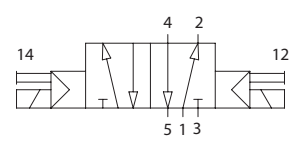
FIELDBUS SOLENOID VALVES

MONOSTABLE WITH PNEUMATIC SPRING RETURN



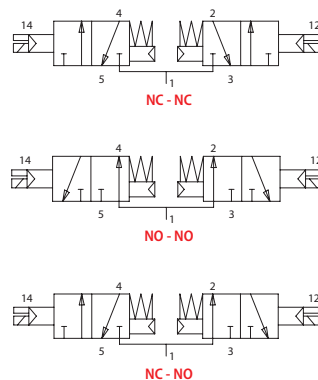
Code	Function	Vie
17V S4 5 00 00	-	5/2
-	-	-
-	-	-

BISTABLE



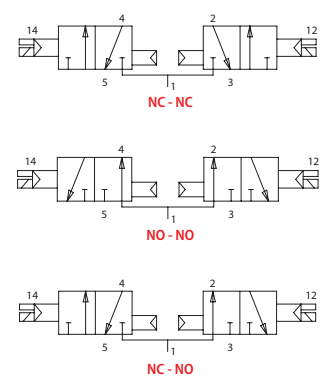
Code	Function	Vie
17V S1 5 00 00	-	5/2
-	-	-
-	-	-

DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN

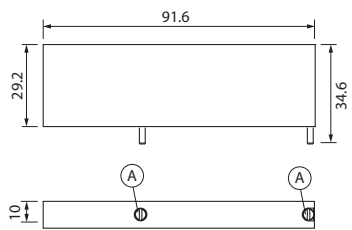
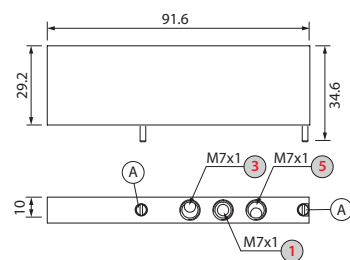


Code	Function	Vie
17V S0 8 NC 00	NC	5/4
17V S0 8 NO 00	NO	5/4
17V S0 8 NN 00	NC-NO	5/4

DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



Code	Function	Vie
17V S4 8 NC 00	NC	5/4
17V S4 8 NO 00	NO	5/4
17V S4 8 NN 00	NC-NO	5/4

PLUG FOR UNUSED POSITION	INTERMEDIATE SUPPLY BLOCK
  Code 17V 20 0 00 00	  Code 17V 21 0 00 00

PNEUMATIC BASE WITH INTEGRATED PILOTING SYSTEM

BI-STABLE BASE WITH INTEGRATED PILOTING	MULTIPLE BASE WITH INTEGRATED PILOTING	SEPARATING PILOT PLUG	SEPARATING PLUG
 Code 17VB0 04 00 0 N° Positions 4 17VB0 06 00 0 6 17VB0 08 00 0 8 17VB0 10 00 0 10 17VB0 12 00 0 12 17VB0 14 00 0 14 17VB0 16 00 0 16	 Code 17VB0 24 00 1 N° Positions BIS.8 POS.+ MONO.16 POS - - - - - - -	 Code 17V 17 0 00 00 - - - - - -	 Code 17V 18 0 00 00 - - - - - -

POWER SUPPLY UNIT

D-SUB 25 PINS	D-SUB 37 PINS	ETHERNET/IP	PROFINET
			
Code	Code	Code	Code
16V 17 00 00 1	16V 16 00 00 1	16V U1 00 00 0	16V U2 00 00 0

EtherCAT	POWERLINK	IO-LINK
		
Code	Code	Code
16V U3 00 00 0	16V U4 00 00 0	16V W3 00 00 2

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED		POLYAMIDE PLUG		ORIENTING ELBOW	
							
Code	Tube	Code	Tube	Code	Ø	Code	Tube
50010 00 N09	4 - M7x1	50015 00 N03	6 - 1/8	50610 00 31 X1 RO	4	55140 00 002	4 - 6
-	-	50015 00 N04	8 - 1/8	50610 00 31 X4 RO	6	55140 00 005	6 - 6
-	-	50015 00 N12	10 - 1/4	50610 00 31 X7 RO	8	55140 00 007	8 - 8
-	-	-	-	50610 00 31 X9 RO	10	55140 00 008	8 - 10
-	-	-	-	-	-	55140 00 009	10 - 10

ORIENTING ELBOW		D-SUB 25 POLES CABLE WITH INLINE CONNECTOR		D-SUB 37 POLES CABLE WITH INLINE CONNECTOR		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE FEMALE CONNECTOR M8X1	
							
Code	Tube	Code	Lengh	Code	Lengh	Code	Lengh
55150 00 002	4 - 6	16V W1 05 00 0	5 mt	15V W1 05 00 0	5 mt	16V W2 05 00 0	5 mt
55150 00 005	6 - 6	16V W1 10 00 0	10 mt	15V W1 10 00 0	10 mt	16V W2 10 00 0	10 mt
55150 00 007	8 - 8	-	-	-	-	-	-
55150 00 008	8 - 10	-	-	-	-	-	-
55150 00 009	10 - 10	-	-	-	-	-	-

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH "L" FEMALE CONNECTOR M8X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE CONNECTOR M12X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE CONNECTOR M12X1		ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE - MALE CONNECTORS M12X1	
							
Code	Lengh	Code	Lengh	Code	Lengh	Code	Lengh
16V W2 05 00 1	5 mt	15V W5 05 00 0	5 mt	15V W5 05 00 1	5 mt	15V W6 05 00 0	5 mt
16V W2 10 00 1	10 mt	15V W5 10 00 0	10 mt	15V W5 10 00 1	10 mt	-	-

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE-MALE CONNECTORS M12X1

	
Code	Lengh
15V W6 05 00 1	5 mt

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.