

- ISO valve terminal
- High flow rates up to 1000 l/min
- Operating voltage either 12 V DC or 230 V AC
- Two valve sizes on the terminal
- Sturdy metal design

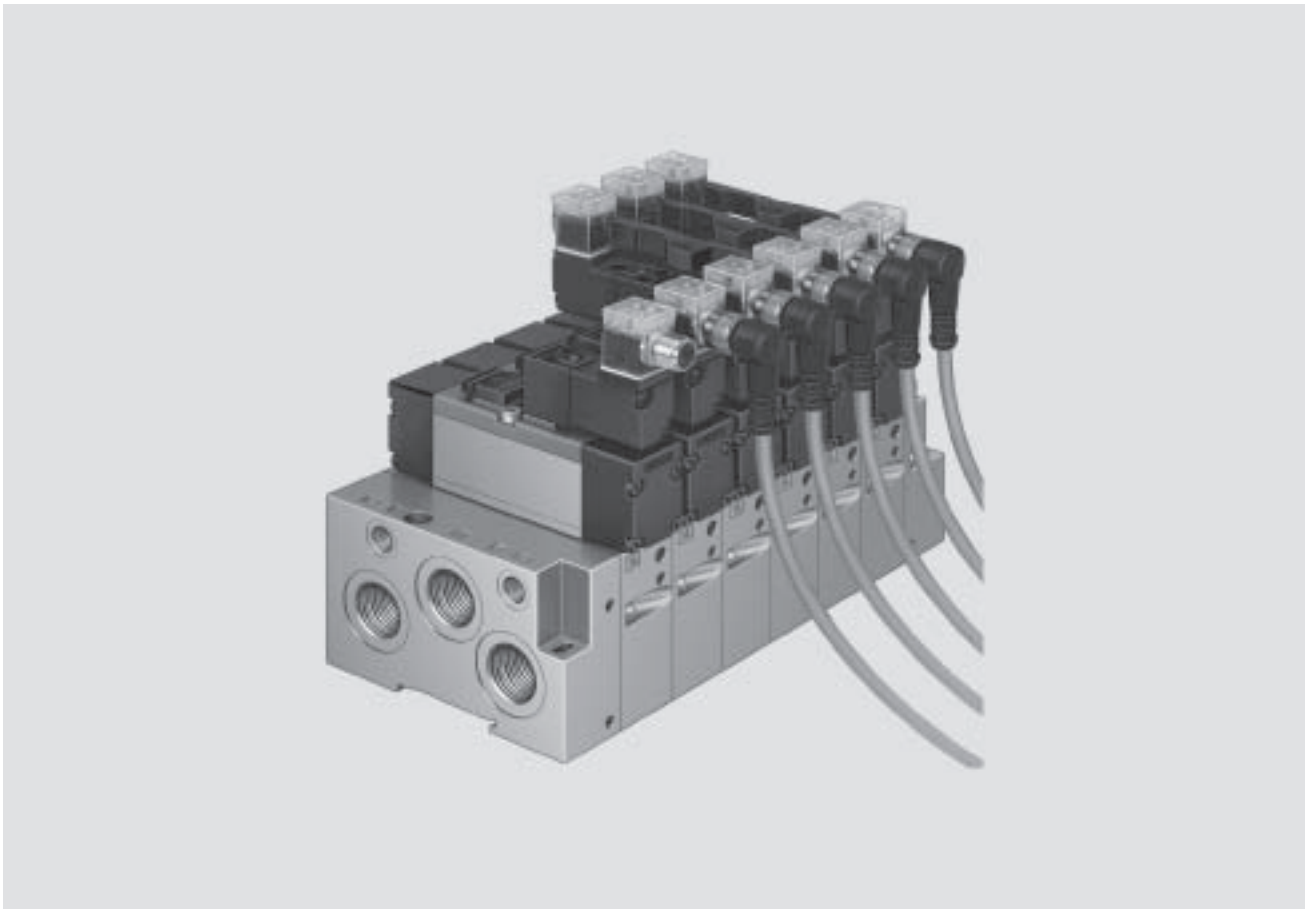
Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Key features

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ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

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Modular

Festo valve terminals for VDMA 24 563 are of modular design and can be equipped with 2 to 16 standard valves. Fewer valves may also be installed, in which case vacant positions are sealed with blanking plates.

Various electrical connection options such as

- 5-pin central plug M12 to EN 60 947-5-2
- Standard connection (square plug) can be selected.

Flexible

- A valve terminal can have multiple pressure zones and vacuum operation.
- Conversions and extensions are possible at any time.
- Wide range of valve functions, for example 2x 3/2-way valves, in one housing.
- The new generation of valve housings are all the same size. The valve terminals are therefore capable of providing versatile and flexible solutions to a variety of pneumatic control technology requirements.

Reliable

- Sturdy and durable components made of high-quality metal/plastic with IP65 protection.
- The new generation of valves are made of flame-retardant materials.
- Fast error diagnosis thanks to LEDs on the valves or via connector plugs.
- All valves feature manual override.
- Reliability of service through replaceable valves.
- Labelling systems for valves, connection plugs and cables.

Easy to assemble

- Fully assembled and tested unit.
- Captive screws and seals.
- Valves are replaced by undoing just two screws.
- No tube removal required for valve replacement.
- Mounting on H-rail.
- Lower costs for selection, ordering, assembly and commissioning.

Valve terminal configurator

A valve terminal configurator is available to help you select a suitable valve terminal. This makes it much easier for you to find the right product.

Valve terminals are equipped and assembled according to customer requirements. This results in minimal installation time. They are also fully inspected before shipment.

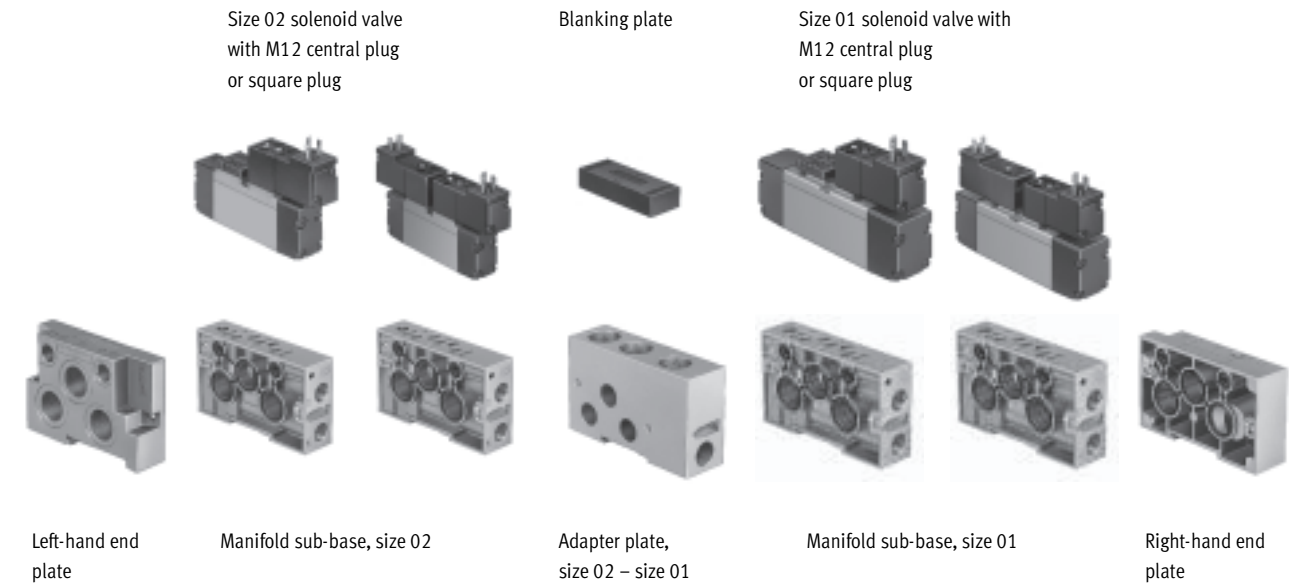


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Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Peripherals overview

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ISO valve terminals
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Pneumatic components

The valve terminals include common supply ports and exhausts for all valves. The bus lines can be connected to the end plates, or via adapter plates.

The valve terminals are available in 2 sizes with corresponding flow rates:

- Size 01: 1000 l/min
- Size 02: 500 l/min

It is also possible to combine both sizes.

A wide range of valve types is available:

- 2 x 3/2-way valve
2x closed, 2x open or
1x closed and 1x open
- 5/2-way valve, single solenoid
- 5/2-way valve, double solenoid
- 5/2-way valve, double solenoid,
with dominating signal

- 5/3-way valve,
mid-position exhausted,
pressurised or closed

Two pressure zones with different pressures (three with mixed sizes) can be created with the help of isolating discs for the supply and exhaust lines.

The standard model valve terminal is equipped with an M12 central plug. Connection is also possible by means of individual standard plugs upon request.

Terminals are available in sizes 01 and 02. An adapter plate can be used to mix sizes, in which case assembly is started at the left with size 02.

Blanking plates

Blanking plates are used to seal off vacant valve positions.

Creating pressure zones

Different supply pressures are made possible within a single valve terminal by installing an isolating disc between two sub-bases. In doing so, the isolating disc must be inserted from the left into the sub-base.

Supply and exhaust are on the right. Usually, only line 1 has to be isolated. In special cases, isolating discs may also be inserted into exhaust lines 3 and 5.

Pilot control

Solenoid actuated valves are used. The standard voltage is 24 V DC. Other voltages are possible (12 V DC, 24 V AC, 110 V AC and 230 V AC). The square plug must be selected for 110 V AC and 230 V AC.

The selection of auxiliary pilot air for the entire valve terminal is made with the corresponding code letter in the order code. This assures selection of the correct valves.

Supply air can be taken from the main line, or from a separate air supply. A separate air supply is required in any event if supply pressure is less than 3 bar (including vacuum). In this case it is advisable to restrict pilot air to 6 bar with a suitable regulator.

-  - Note

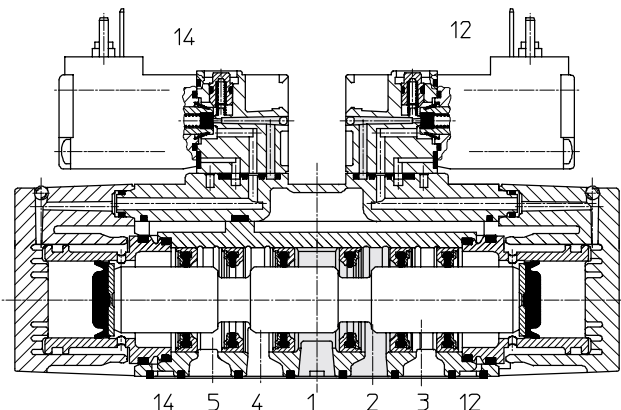
The various components which can be installed are included in the order tables.

→ 4 / 1.2-13

Valve terminal type 14 VDMA-01/02, ISO 15 407-1


Key features – Pneumatic components

Port identification for pneumatic connections



- 1 Compressed air supply
- 2 Working line
- 3 Exhaust, port 2
- 4 Working line
- 5 Exhaust, port 4
- 12 Pilot control exhaust (83, previously 82/84)
- 14 External supply of pilot air (81, previously 12/14)

Port 12 at the end plates is used for exhausting pilot air (83, previously 82/84). Even if pilot air is supplied internally this port must remain open or must be fitted with a silencer.

 Note
Never plug port 12 (83).

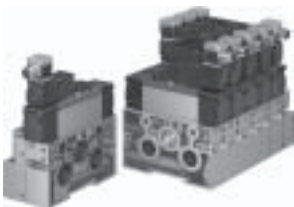
Valve terminal with mixed sizes



Lines 12 and 14 are interrupted within the adapter plate for adapting size 02 to size 01.

These must therefore be fed to both sides of the valve terminal if pilot air is supplied externally.

Isolating discs



Isolating discs allow for the creation of different pressure zones within a single valve terminal, or separate the exhaust lines in order to prevent the cylinders from influencing one another.

The isolating disc is inserted from the left, so that the valve mounted on the affected sub-base is supplied from, and exhausted to the right.

Manual override



The standard manual override is push-in, and is equipped with spring return.



A detenting manual override can be created with the help of a tool which can be attached to the respective valve as required.

Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Key features – Pneumatic components

Valve function				
Code	Circuit symbol	ISO		Description
		Size 01	Size 02	
without auxiliary pilot air				
K		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normally closed
N		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normally open
H		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normal position 1x closed 1x open
M		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid ■ Pneumatic spring
F		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid ■ Spring return
J		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid
D		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid ■ Dominating signal at 14
B		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position pressurised
E		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position exhausted
G		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position closed

Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Key features – Pneumatic components



ISO valve terminals
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Valve function				
Code	Circuit symbol	ISO		Description
		Size 01	Size 02	
with auxiliary pilot air				
K		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normally closed
N		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normally open
H		■	■	<ul style="list-style-type: none"> ■ 2x 2/3-way valve ■ Normal position 1x closed 1x open
M		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid ■ Pneumatic spring
F		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid ■ Spring return
J		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid
D		■	■	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid ■ Dominating signal at 14
B		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position pressurised
E		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position exhausted
G		■	■	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position closed

Valve terminal type 14 VDMA-01/02, ISO 15 407-1

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Key features – Pneumatic components

Horizontal linking				
Code		ISO		Description
		Size 01	Size 02	
A		■	■	Blanking plate
W		■	■	Intermediate plate, size 02/size 01
U		■	■	Isolating discs, line 3/5
V		■	■	Isolating disc, line 1

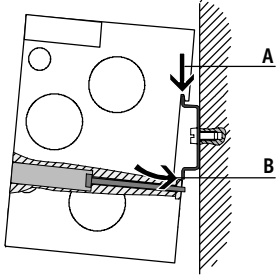
ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

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Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Key features – Assembly

H-rail mounting of valve terminal



The valve terminal is attached to the H-rail (see arrow A).
The terminal is then rotated on the H-rail and secured by tightening the retaining screw (see arrow B).

-  - Note

Avoid dynamic loads when using H-rail mounting. Otherwise the valve terminal can detach from the H-rail.

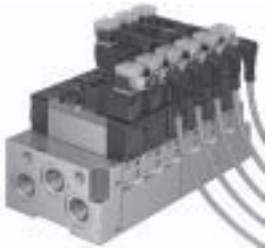
Valve terminal type 14 VDMA-01/02, ISO 15 407-1



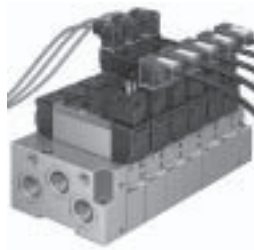
Key features – Electrical components

Electrical connection

M12 central plug



Standard connection



The electrical side of the valve terminal type 14 is established using pre-assembled cables.

The connection to the controller can be established with individual cables.

Pin allocation for M12 central plug

Connection diagrams	Pin	Electrical connection	Cable colour ¹⁾	Designation
2-pin				
	1	-	brown	unused
	2	-	white	unused
	3	com (-)	blue	0 V
	4	Signal (+) Solenoid 14 ²⁾	black	Pilot solenoid coil 14
3-pin				
	1		brown	unused
	2	Signal (+) Solenoid 12 ²⁾	white	Pilot solenoid coil 12
	3	com (-)	blue	0 V
	4	Signal (+) Solenoid 14 ²⁾	black	Pilot solenoid coil 14

1) When using the socket with cable MSSD-EB-M12... or KMEB-1...

2) Connect max. 24 V (-15%/+10%)

Electrical accessories

Code		Description
M12 central plug		
S		Plug socket M12, 4-pin, angled, Pg7
K		Pre-assembled cable with socket M12, 1 m long
Standard connection		
E		Standard plug socket
F		Plug socket with LED and cable, 2.5 m long
G		Plug socket with LED and cable, 5 m long
I		Plug socket for 230 V with cable, 2.5 m long
J		Plug socket for 230 V with cable, 5 m long

Valve terminal type 14 VDMA-01/02, ISO 15 407-1

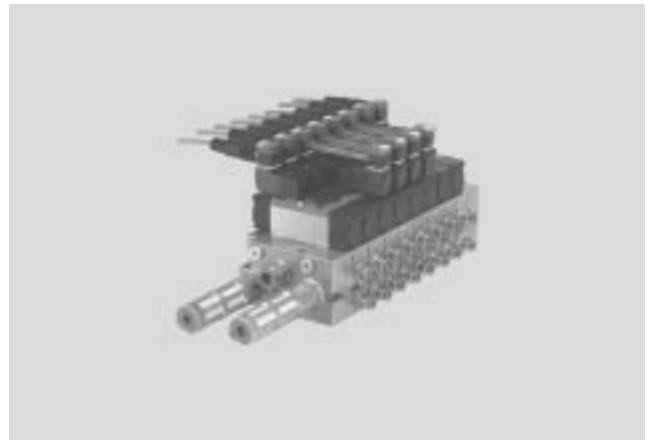
Technical data



- - Flow rate
 VDMA size 01: 1000 l/min
 VDMA size 02: 500 l/min

- - Valve width
 Size 01: 26 mm
 Size 02: 18 mm

- - Voltage
 24 V DC
 12 V DC
 24 V AC
 110 V AC
 230 V AC



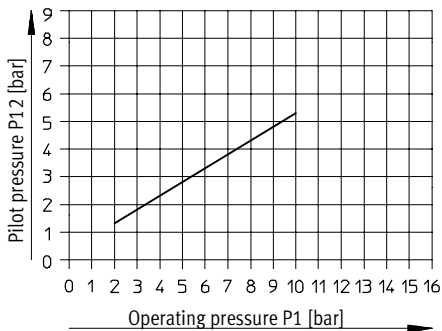
ISO valve terminals
 ISO 15 407-1 (VDMA 24 563)
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General technical data			
ISO	Size 01		Size 02
Constructional design, valves	Piston spool valve with sealing ring cartridge		
Width [mm]	27		19
Nominal size [mm]	8		6
Type of mounting, valve	On sub-base with connection to VDMA 24 563		
Mounting position	Any		
Manual override	Push-type, self-resetting/detenting (tool)		
Pneumatic connections			
Supply port	1	G $\frac{1}{4}$ (sub-base)	G $\frac{1}{8}$ (sub-base)
Exhaust port	3/5	G $\frac{1}{4}$ (sub-base)	G $\frac{1}{8}$ (sub-base)
Working lines	2/4	G $\frac{1}{4}$ (sub-base)	G $\frac{1}{8}$ (sub-base)
Pilot air port	12/14	M5 (sub-base)	
Pilot exhaust air port	82/84	M5 (sub-base), only valves with code K, N, H	

Operating pressure [bar]											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Size 01	without auxiliary pilot air	2 ... 10			2 ... 10			3 ... 10			
	with auxiliary pilot air	2 ... 10			-0.9 ... +16						
Size 02	without auxiliary pilot air	2 ... 10			2 ... 10		2 ... 10		3 ... 10		
	with auxiliary pilot air	2 ... 10			-0.9 ... +10						

Pilot pressure [bar]											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Size 01		2 ... 10			2 ... 10		2 ... 10		3 ... 10		
Size 02		2 ... 10			2 ... 10		2 ... 10		3 ... 10		

Minimal pilot pressure p12 as a function of the operating pressure p1 (with auxiliary pilot air)



Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Technical data

Valve response times [ms]											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Size 01	on	22	22	22	31	31	–	16	23	23	23
	off	33	33	33	43	43	–	18	52	52	52
	change-over	–	–	–	–	–	18	–	–	–	–
Size 02	on	15	15	15	23	23	–	–	18	18	17
	off	16	16	16	27	27	–	–	30	28	22
	change-over	–	–	–	–	–	16	16	–	–	–

Operating and environmental conditions											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Operating medium		Filtered compressed air, lubricated or unlubricated, or vacuum → 4 / 1.1-19									
Ambient temperature [°C]		–10 ... +50									
Temperature of medium [°C]		–5 ... +50									
Storage temperature [°C]		–20 ... +40									
Corrosion resistance class CRC ¹⁾		2									

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Electrical data											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Electromagnetic compatibility		Interference emission tested to EN 61 000-6-4, industry Interference immunity ¹⁾ tested to EN 61 000-6-2, industry									
Protection against electric shock (protection against direct and indirect contact to EN 60204-1/IEC 204)		By means of PELV power supply unit (12/14 V DC)									
Operating voltage [V]		<ul style="list-style-type: none"> ■ D.C. voltage ■ A.C. voltage 									
Electrical power consumption [W]		<ul style="list-style-type: none"> ■ D.C. voltage ■ A.C. voltage 									
Duty cycle		100%									
Protection class to EN 60 529		IP65 (with plug socket)									

Materials											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Valve		Die-cast aluminium, polyacetate (POM)									
Seal		Nitrile rubber (perbunan)									

Product weight [g]		Approx. weights										
Valve function order code		K	N	H	M	F	J	D	B	E	G	
Size 01		320			340			320		270		
Size 02		210			220			210		160		

Nominal flow rate [l/min]											
Valve function order code		K	N	H	M	F	J	D	B	E	G
Size 01		950				1000					
Size 02		490				500					

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Technical data

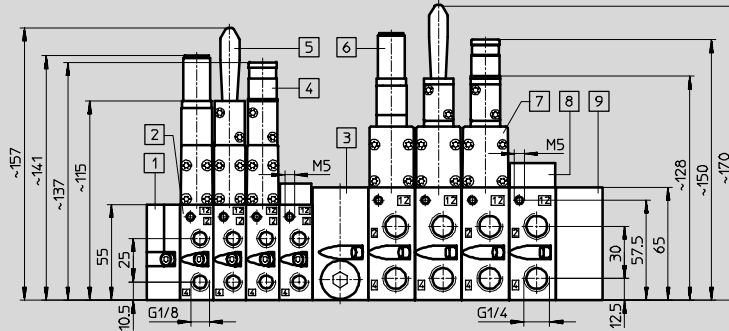


Dimensions

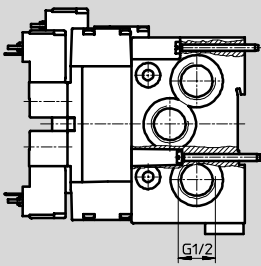
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ISO valve terminals
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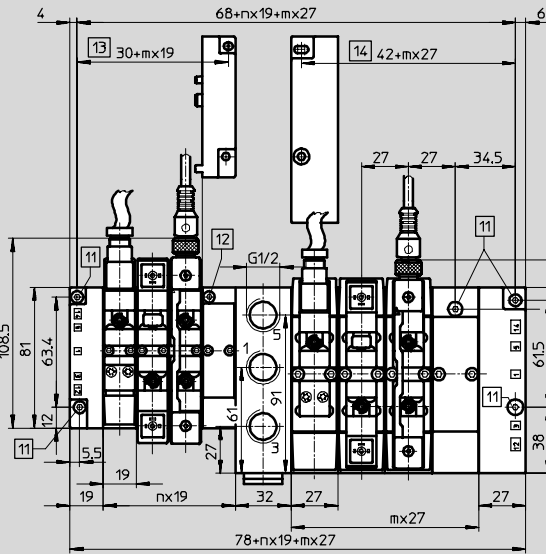
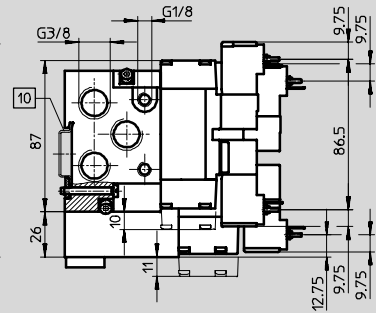
1.2



Attachment to mounting plate or wall mounting



Attachment to mounting rail
DIN EN 50 022



- 1 End plate, left-hand
NEV-...-VDMA
- 2 Manifold sub-base
NAW-...-VDMA
- 3 Intermediate plate
NZV-01/02-VDMA
- 4 Plug socket
KM12-M12-GSWD-1-4

- 5 Manual override
NEV-...-VDMA
- 6 Plug socket
KMEB-1-24...
- 7 Solenoid valve
NDV-...-VDMA
- 8 Blanking plate
NDV-...-VDMA
- 9 End plate, right-hand
NEV-...-VDMA

- 10 H-rail
NRH-35-2000
- 11 Mounting screws M4
- 12 Mounting screws M3
- 13 Dimension for valve terminal
with size 02 valves
- 14 Dimension for valve terminal
with size 01 valves

m Number of size 01 valves
n Number of size 02 valves

Valve terminal VDMA-01/02, ISO 15 407-1



Ordering data – Modular products

M Mandatory data →

Module No.	Valve terminal type 14, pneumatic components	Size	Solenoid voltage	Auxiliary pilot air supply	Electrical connection
191 403	14P	01 02	P Q R S	Y E	Z W
Ordering example					
191 403	14P	- 02	- Q	Y	W
1	2	3	4	5	6

Ordering table			Condi- tions	Code	Enter code
M	1 Module No.	191 403			
	2 Valve terminal type 14, pneumatic components	Valve terminal with ISO and VDMA valves		14P	14P
	3 Size	VDMA 01		-01	
		VDMA 02		-02	
	4 Solenoid voltage	24 V DC		-P	
		110 V AC	1	-Q	
		230 V AC	1	-R	
		12 V DC/24 V AC		-S	
	5 Auxiliary pilot air supply	Internal auxiliary pilot air		Y	
		External auxiliary pilot air		E	
	6 Electrical connection	M12 central plug	2	Z	
		Standard connection (square plug)		W	

1 **Q, R** Only with electrical connection W (standard connection).

2 **Z** Only with solenoid voltage 24 V DC (P) or 12 V DC/24 V AC (S).

Transfer order code

191 403	14P	-	-	-	-	-
1	2	3	4	5	6	

Valve terminal VDMA-01/02, ISO 15 407-1

Ordering data – Modular products



ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

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M	Mandatory data															O	Options	
Equipment at valve position 0 ... 15																Accessories		
7 Valves: M, F, J, D, B, E, G, K, N, H, A 8 Isolating disc 1: U 9 Isolating disc 2: V 10 Intermediate plate, size 02/01: W																...S, ...K, ...E, ...F, ...G, ...I, ...J		
Valve position																		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
:	B	M	M														+	2E
7 + 8 + 9 + 10																11		

Ordering table					
Module No.		191 403	Condi- tions	Code	Enter code
↓		Equipment at valve position 0 ... 15	3	-	-
M	7	Valves Valve position 0 ... 15		M	Enter equip- ment selection for valve positions in order code.
		5/2-way valve, single solenoid		F	
		5/2-way valve, single solenoid, mechanical spring		J	
		5/2-way valve, double solenoid		D	
		5/2-way valve, double solenoid, with dominating signal		B	
		5/3-way valve, mid-position pressurised		E	
		5/3-way valve, mid-position exhausted		G	
		2x 3/2-way valve, normally closed		K	
		2x 3/2-way valve, normally open		N	
		2x 3/2-way valve, 1x normally open, 1x normally closed		H	
		Blanking plate		A	
	8	Isolating disc 1 Valve position 0 ... 15	4	U	
	9	Isolating disc 2 Valve position 0 ... 15	4	V	
	10	Intermediate plate Valve position 0 ... 14	5	W	
O	11	Accessories		+	+
		Plug socket M12, angled, 4-pin Pg7	6	...S	
		Assembled cable with 1 m socket M12	6	...K	
		Standard plug socket for M12	7	...E	
		Plug socket with LED and 2.5 m cable	7	...F	
		5 m	7	...G	
		Plug socket for 230 V 2.5 m with cable	7	...I	
		5 m	7	...J	

3 Equipment at valve position 0 ... 15

At least 2 valves.

4 U, V Only once per terminal.

5 W Can only be selected with size 02.

Max. one intermediate plate per terminal.

6 S, K Only with electrical connection Z (M12 central plug).

7 E, F, G, I, J

Only with electrical connection W (standard connection).

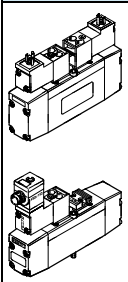
Transfer order code

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	+	
7 + 8 + 9 + 10																	11

Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

Ordering data						
Valves on individual sub-base						
	Code	Valve function	ISO	Voltage	Type	Part No.
without auxiliary pilot air						
	K	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normally closed 	01	24 V DC	MN2H-2x3G-01	187 970
				12 V DC, 24 V AC	MN2H-2x3G-01-12DCA	191 342
				110 V AC	MN2H-2x3G-01-110VAC	191 344
				230 V AC	MN2H-2x3G-01-230AC	191 346
				24 V DC, central plug	MN2H-2x3G-01-ZSR	191 340
			02	24 V DC	MN2H-2x3G-02	187 976
				12 V DC, 24 V AC	MN2H-2x3G-02-12DCA	191 372
				110 V AC	MN2H-2x3G-02-110VAC	191 374
				230 V AC	MN2H-2x3G-02-230AC	191 376
				24 V DC, central plug	MN2H-2x3G-02-ZSR	191 370
	N	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normally open 	01	24 V DC	MN2H-2x3O-01	187 971
				12 V DC, 24 V AC	MN2H-2x3O-01-12DCA	191 350
				110 V AC	MN2H-2x3O-01-110VAC	191 352
				230 V AC	MN2H-2x3O-01-230VAC	191 354
				24 V DC, central plug	MN2H-2x3O-01-ZSR	191 348
02			24 V DC	MN2H-2x3O-02	187 977	
			12 V DC, 24 V AC	MN2H-2x3O-02-12DCA	191 380	
			110 V AC	MN2H-2x3O-02-110VAC	191 382	
			230 V AC	MN2H-2x3O-02-230VAC	191 384	
			24 V DC, central plug	MN2H-2x3O-02-ZSR	191 378	
H	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normal position 1x open 1x closed 	01	24 V DC	MN2H-2x3O-G-01	187 972	
			12 V DC, 24 V AC	MN2H-2x3O-G-01-12DCA	191 358	
			110 V AC	MN2H-2x3O-G-01-110VAC	191 360	
			230 V AC	MN2H-2x3O-G-01-230AC	191 362	
			24 V DC, central plug	MN2H-2x3O-G-01-ZSR	191 356	
		02	24 V DC	MN2H-2x3O-G-02	187 978	
			12 V DC, 24 V AC	MN2H-2x3O-G-02-12DCA	191 388	
			110 V AC	MN2H-2x3O-G-02-110VAC	191 390	
			230 V AC	MN2H-2x3O-G-02-230AC	191 392	
			24 V DC, central plug	MN2H-2x3O-G-02-ZSR	191 386	

ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

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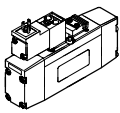
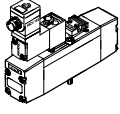
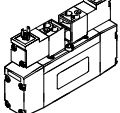
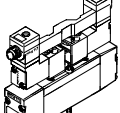
Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

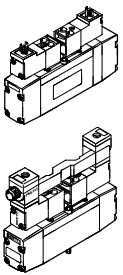
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Ordering data									
Valves on individual sub-base									
	Code	Valve function	ISO	Voltage	Type	Part No.			
without auxiliary pilot air									
   	M	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid 	01	24 V DC	MN2H-5/2-D-01	161 067			
				12 V DC, 24 V AC	MN2H-5/2-01-12DCA	187 876			
				110 V AC	MN2H-5/2-D-01-110AC	161 880			
				230 V AC	MN2H-5/2-D-01-230AC	161 894			
				24 V DC, central plug	MN2H-5/2-01-ZSR	191 309			
				02	24 V DC	MN2H-5/2-D-02	161 088		
					12 V DC, 24 V AC	MN2H-5/2-02-12DCA	187 890		
					110 V AC	MN2H-5/2-D-02-110AC	161 908		
					230 V AC	MN2H-5/2-D-02-230AC	161 922		
					24 V DC, central plug	MN2H-5/2-02-ZSR	191 323		
					F	<ul style="list-style-type: none"> ■ 5/2-way valve, single solenoid ■ Spring return 	01	24 V DC	MN2H-5/2-D-01-FR
				12 V DC, 24 V AC				MN2H-5/2-01-FR-12DCA	187 878
110 V AC	MN2H-5/2-D-01-FR-110AC	161 882							
230 V AC	MN2H-5/2-D-01-FR-230AC	161 896							
24 V DC, central plug	MN2H-5/2-01-FR-ZSR	191 311							
02	24 V DC	MN2H-5/2-D-02-FR	161 090						
	12 V DC, 24 V AC	MN2H-5/2-02-FR-12DCA	187 926						
	110 V AC	MN2H-5/2-D-02-FR-110AC	161 910						
	230 V AC	MN2H-5/2-D-02-FR-230AC	161 924						
	24 V DC, central plug	MN2H-5/2-02-FR-ZSR	191 325						
	J	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid 	01	24 V DC				JMN2H-5/2-D-01	161 071
12 V DC, 24 V AC				JMN2H-5/2-01-12DCA				187 880	
110 V AC				JMN2H-5/2-D-01-110AC	161 884				
230 V AC				JMN2H-5/2-D-01-230AC	161 898				
24 V DC, central plug				JMN2H-5/2-01-ZSR	191 319				
02				24 V DC	JMN2H-5/2-D-02	161 092			
				12 V DC, 24 V AC	JMN2H-5/2-02-12DCA	187 928			
				110 V AC	JMN2H-5/2-D-02-110AC	161 912			
				230 V AC	JMN2H-5/2-D-02-230AC	161 926			
				24 V DC, central plug	JMN2H-5/2-02-ZSR	191 333			
				D	<ul style="list-style-type: none"> ■ 5/2-way valve, double solenoid ■ Dominating signal 	01	24 V DC	JMN2DH-5/2-D-01	161 073
12 V DC, 24 V AC							JMN2DH-5/2-01-12DCA	187 882	
110 V AC	JMN2DH-5/2-D-01-110AC	161 886							
230 V AC	JMN2DH-5/2-D-01-230AC	161 900							
24 V DC, central plug	JMN2DH-5/2-01-ZSR	191 321							
02	24 V DC	JMN2DH-5/2-D-02	161 094						
	12 V DC, 24 V AC	JMN2DH-5/2-02-12DCA	187 930						
	110 V AC	JMN2DH-5/2-D-02-110AC	161 914						
	230 V AC	JMN2DH-5/2-D-02-230AC	161 928						
	24 V DC, central plug	JMN2DH-5/2-02-ZSR	191 335						

Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

Ordering data						
Valves on individual sub-base						
	Code	Valve function	ISO	Voltage	Type	Part No.
without auxiliary pilot air						
	B	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position pressurised 	01	24 V DC	MN2H-5/3B-D-01	161 079
				12 V DC, 24 V AC	MN2H-5/3B-01-12DCA	187 888
				110 V AC	MN2H-5/3B-D-01-110AC	161 892
				230 V AC	MN2H-5/3B-D-01-230AC	161 906
				24 V DC, central plug	MN2H-5/3B-01-ZSR	191 317
			02	24 V DC	MN2H-5/3B-D-02	161 100
				12 V DC, 24 V AC	MN2H-5/3B-02-12DCA	187 936
				110 V AC	MN2H-5/3B-D-02-110AC	161 920
				230 V AC	MN2H-5/3B-D-02-230AC	161 934
				24 V DC, central plug	MN2H-5/3B-02-ZSR	191 331
	E	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position exhausted 	01	24 V DC	MN2H-5/3E-D-01	161 077
				12 V DC, 24 V AC	MN2H-5/3E-01-12DCA	187 886
				110 V AC	MN2H-5/3E-D-01-110AC	161 890
				230 V AC	MN2H-5/3E-D-01-230AC	161 905
24 V DC, central plug				MN2H-5/3E-01-ZSR	191 315	
02			24 V DC	MN2H-5/3E-D-02	161 098	
			12 V DC, 24 V AC	MN2H-5/3E-02-12DCA	187 934	
			110 V AC	MN2H-5/3E-D-02-110AC	161 918	
			230 V AC	MN2H-5/3E-D-02-230AC	161 932	
			24 V DC, central plug	MN2H-5/3E-02-ZSR	191 329	
G	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position closed 	01	24 V DC	MN2H-5/3G-D-01	161 075	
			12 V DC, 24 V AC	MN2H-5/3G-01-12DCA	187 884	
			110 V AC	MN2H-5/3G-D-01-110AC	161 888	
			230 V AC	MN2H-5/3G-D-01-230AC	161 902	
			24 V DC, central plug	MN2H-5/3G-01-ZSR	191 313	
		02	24 V DC	MN2H-5/3G-D-02	161 096	
			12 V DC, 24 V AC	MN2H-5/3G-02-12DCA	187 932	
			110 V AC	MN2H-5/3G-D-02-110AC	161 916	
			230 V AC	MN2H-5/3G-D-02-230AC	161 930	
			24 V DC, central plug	MN2H-5/3G-02-ZSR	191 327	

ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

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Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

ISO valve terminals
ISO 15 407-1 (VDMA 24 563)

1.2

Ordering data						
Valves on individual sub-base						
	Code	Valve function	ISO	Voltage	Type	Part No.
with auxiliary pilot air						
	K	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normally closed 	01	24 V DC	MN2H-2x3G-01-S	187 973
				12 V DC, 24 V AC	MN2H-2x3G-01-S-12DCA	191 343
				110 V AC	MN2H-2x3G-01-S-110AC	191 345
				230 V AC	MN2H-2x3G-01-S-230AC	191 347
				24 V DC, central plug	MN2H-2x3G-01-S-ZSR	191 341
			02	24 V DC	MN2H-2x3G-02-S	187 979
				12 V DC, 24 V AC	MN2H-2x3G-02-S-12DCA	191 373
				110 V AC	MN2H-2x3G-02-S-110AC	191 375
				230 V AC	MN2H-2x3G-02-S-230AC	191 377
				24 V DC, central plug	MN2H-2x3G-02-S-ZSR	191 371
	N	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normally open 	01	24 V DC	MN2H-2x30-01-S	187 974
				12 V DC, 24 V AC	MN2H-2x30-01-S-12DCA	191 351
				110 V AC	MN2H-2x30-01-S-110VAC	191 353
				230 V AC	MN2H-2x30-01-S-230VAC	191 355
24 V DC, central plug				MN2Hx-2x30-01-S-ZSR	191 349	
02			24 V DC	MN2H-2x30-02-S	187 980	
			12 V DC, 24 V AC	MN2H-2x30-02-S-12DCA	191 381	
			110 V AC	MN2H-2x30-02-S-110VAC	191 383	
			230 V AC	MN2H-2x30-02-S-230VAC	191 385	
			24 V DC, central plug	MN2Hx-2x30-02-S-ZSR	191 379	
H	<ul style="list-style-type: none"> ■ 2x 3/2-way valve ■ Normal position 1x open 1x closed 	01	24 V DC	MN2H-2x30-G-01-S	187 975	
			12 V DC, 24 V AC	MN2H-2x30-G-01-S-12DCA	191 359	
			110 V AC	MN2H-2x30-G-01-S-110AC	191 361	
			230 V AC	MN2H-2x30-G-01-S-230AC	191 363	
			24 V DC, central plug	MN2H-2x30-G-01-S-ZSR	191 357	
		02	24 V DC	MN2H-2x30-G-02-S	187 981	
			12 V DC, 24 V AC	MN2H-2x30-G-02-S-12DCA	191 389	
			110 V AC	MN2H-2x30-G-02-S-110AC	191 391	
			230 V AC	MN2H-2x30-G-02-S-230AC	191 393	
			24 V DC, central plug	MN2H-2x30-G-02-S-ZSR	191 387	

Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

Ordering data								
Valves on individual sub-base								
	Code	Valve function	ISO	Voltage	Type	Part No.		
with auxiliary pilot air								
	M	<ul style="list-style-type: none"> 5/2-way valve, single solenoid 	01	24 V DC	MN2H-5/2-D-01-S	161 068		
				12 V DC, 24 V AC	MN2H-5/2-01-S-12DCA	187 877		
				110 V AC	MN2H-5/2-D-01-S-110AC	161 881		
				230 V AC	MN2H-5/2-D-01-S-230AC	161 895		
				24 V DC, central plug	MN2H-5/2-01-S-ZSR	191 310		
				02	24 V DC	MN2H-5/2-D-02-S	161 089	
					12 V DC, 24 V AC	MN2H-5/2-02-S-12DCA	187 891	
					110 V AC	MN2H-5/2-D-02-S-110AC	161 909	
					230 V AC	MN2H-5/2-D-02-S-230AC	161 923	
				F	<ul style="list-style-type: none"> 5/2-way valve, single solenoid Spring return 	01	24 V DC	MN2H-5/2-D-01-FR-S
			12 V DC, 24 V AC				MN2H-5/2-01-FR-S-12DCA	187 879
			110 V AC				MN2H-5/2-D-01-FR-S-110AC	161 883
			230 V AC				MN2H-5/2-D-01-FR-S-230AC	161 897
			24 V DC, central plug				MN2H-5/2-01-FR-S-ZSR	191 312
02	24 V DC	MN2H-5/2-D-02-FR-S	161 090					
	12 V DC, 24 V AC	MN2H-5/2-02-FR-S-12DCA	187 926					
	110 V AC	MN2H-5/2-D-02-FR-S-110AC	161 910					
	230 V AC	MN2H-5/2-D-02-FR-S-230AC	161 924					
	24 V DC, central plug	MN2H-5/2-02-FR-S-ZSR	191 325					
J	<ul style="list-style-type: none"> 5/2-way valve, double solenoid 	01	24 V DC	JMN2H-5/2-D-01-S	161 072			
			12 V DC, 24 V AC	JMN2H-5/2-01-S-12DCA	187 881			
			110 V AC	JMN2H-5/2-D-01-S-110AC	161 885			
			230 V AC	JMN2H-5/2-D-01-S-230AC	161 899			
			24 V DC, central plug	JMN2H-5/2-01-S-ZSR	191 320			
		02	24 V DC	JMN2H-5/2-D-02-S	161 093			
			12 V DC, 24 V AC	JMN2H-5/2-02-S-12DCA	187 929			
			110 V AC	JMN2H-5/2-D-02-S-110AC	161 913			
			230 V AC	JMN2H-5/2-D-02-S-230AC	161 927			
			24 V DC, central plug	JMN2H-5/2-02-S-ZSR	191 334			
D	<ul style="list-style-type: none"> 5/2-way valve, double solenoid Dominating signal 	01	24 V DC	JMN2DH-5/2-D-01-S	161 074			
			12 V DC, 24 V AC	JMN2DH-5/2-01-S-12DCA	187 883			
			110 V AC	JMN2DH-5/2-D-01-S-110AC	161 887			
			230 V AC	JMN2DH-5/2-D-01-S-230AC	161 901			
			24 V DC, central plug	JMN2DH-5/2-01-S-ZSR	191 322			
		02	24 V DC	JMN2DH-5/2-D-02-S	161 095			
			12 V DC, 24 V AC	JMN2DH-5/2-02-S-12DCA	187 931			
			110 V AC	JMN2DH-5/2-D-02-S-110AC	161 915			
			230 V AC	JMN2DH-5/2-D-02-S-230AC	161 929			
			24 V DC, central plug	JMN2DH-5/2-02-S-ZSR	191 336			

ISO valve terminals
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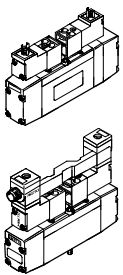
Valve terminal type 14 VDMA-01/02, ISO 15 407-1



Ordering data – Individual valve

ISO valve terminals
ISO 15 407-1 (VDMA 24 563)


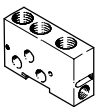





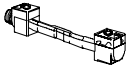


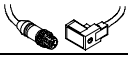
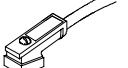
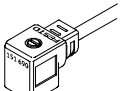

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Ordering data									
Valves on individual sub-base									
	Code	Valve function	ISO	Voltage	Type	Part No.			
with auxiliary pilot air									
	B	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position pressurised 	01	24 V DC	MN2H-5/3B-D-01-S	161 080			
				12 V DC, 24 V AC	MN2H-5/3B-01-S-12DCA	187 889			
				110 V AC	MN2H-5/3B-D-01-S-110AC	161 893			
				230 V AC	MN2H-5/3B-D-01-S-230AC	161 907			
				24 V DC, central plug	MN2H-5/3B-01-S-ZSR	191 318			
				24 V DC	MN2H-5/3B-D-02-S	161 101			
			02	12 V DC, 24 V AC	MN2H-5/3B-02-S-12DCA	187 937			
				110 V AC	MN2H-5/3B-D-02-S-110AC	161 921			
				230 V AC	MN2H-5/3B-D-02-S-230AC	161 935			
				24 V DC, central plug	MN2H-5/3B-02-S-ZSR	191 332			
				E	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position exhausted 	01	24 V DC	MN2H-5/3E-D-01-S	161 078
							12 V DC, 24 V AC	MN2H-5/3E-01-S-12DCA	187 887
	110 V AC	MN2H-5/3E-D-01-S-110AC	161 891						
	02	230 V AC	MN2H-5/3E-D-01-S-230AC			161 905			
		24 V DC, central plug	MN2H-5/3E-01-S-ZSR			191 316			
		24 V DC	MN2H-5/3E-D-02-S			161 099			
	G	<ul style="list-style-type: none"> ■ 5/3-way valve ■ Mid-position closed 	01	12 V DC, 24 V AC	MN2H-5/3G-01-12DCA	187 885			
				110 V AC	MN2H-5/3G-D-01-110AC	161 889			
230 V AC				MN2H-5/3G-D-01-230AC	161 903				
02			24 V DC, central plug	MN2H-5/3G-01-ZSR	191 314				
			24 V DC	MN2H-5/3G-D-02	161 097				
			12 V DC, 24 V AC	MN2H-5/3G-02-12DCA	187 933				
01			110 V AC	MN2H-5/3G-D-02-110AC	161 917				
			230 V AC	MN2H-5/3G-D-02-230AC	161 931				
			24 V DC, central plug	MN2H-5/3G-02-ZSR	191 328				

Valve terminal type 14 VDMA-01/02, ISO 15 407-1

Accessories

FESTO

Ordering data				
Designation		ISO	Type	Part No.
	Blanking plate	01	NDV-01-VDMA	161 107
		02	NDV-02-VDMA	161 114
	Intermediate plate, size 02/size 01		NZV-01/02-VDMA	161 108
	Isolating discs	01	NSC-1/2-01-VDMA	161 105
		02	NSC-3/8-01-VDMA	161 113
	Identification clip – holder		MN2H-BTZ-10x	161 936
	Inscription label 9x17		IBS-9x17	161 937
	Inscription label 9x20		IBS-9x20	250 702
	Manual override tool, detenting	02	AHB-MEB	157 601
	Plug socket, VDMA valves with central plug M12 (MONO)	02	MSSD-EB-M12-MONO	188 024
	Plug socket, VDMA valves with central plug M12 (DUO)	02	MSSD-EB-M12-DUO	188 025
	Cable with socket, angled supply socket M12, 4-pin, 5 m cable		SIM-M12-4WD-5-PU	164 258
	Cable with socket, straight supply socket M12, 4-pin, 5 m cable		SIM-M12-4GD-5-PU	164 259
	Cable with socket, straight supply socket M12, 5-pin, 2.5 m cable		SIM-M12-5GD-2,5-PU	175 715
	Cable with socket, straight supply socket M12, 5-pin, 5 m cable		SIM-M12-5GD-5-PU	175 716
	Cable with socket, pre-assembled cable, M12 cube, 0.5 m		KMEB-2-24-M12-0,5-LED	177 677
	Cable with socket, pre-assembled cable, M12 cube, 2.5 m		KMEB-2-24-M12-2,5-LED	177 679
	Cable with socket, cube 24 V DC, PUR, 2.5m		KMEB-2-24-2,5-LED	174 844
	Cable with socket, cube 24 V DC, PUR, 5m		KMEB-2-24-5-LED	174 845
	Cable with socket, cube 0 ... 240 V AC, PUR, 2.5m		KMEB-2-230-2,5	174 846
	Cable with socket, cube 0 ... 240 V AC, PUR, 5m		KMEB-2-230-5	174 847
	Connecting cable, M12, 4-pin, 2.5 m		KM12-M12-GSGD-2,5	18 684
	Connecting cable, M12, 4-pin, 5 m		KM12-M12-GSGD-5,0	18 686

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