

## Series MF-04

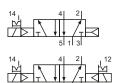
#### **Technical details**

Connection Nominal size Temperature range	Sub-base mounting (1, 3 and 5) and G1/8 (2 and 4) 3 mm -10°C +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Alternatively the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, stainless steel and brass
Protection	IP 65 according to EN 60529



Electrically operated spool valve. The manual override is detent and is operated by screwdriver. Gaskets and screws are part of delivery.

#### 5/2-way valves



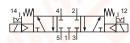
MF-04-510-HN-xxx 5/2-way, single solenoid, air spring return

MF-04-520-HN-xxx , MF-24-520-HN-xxx 5/2-way, double solenoid

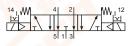
Please complete:

xxx = electrical option

#### 5/3-way valves



MF-04-530-HN-xxx , MF-24-530-HN-xxx 5/3-way, center position closed



MF-04-533-HN-xxx , MF-24-533-HN-xxx 5/3-way, center position exhausted

## Elektrische Ausführungen

				-xxx electrical pins on same side of ports	
Nominal voltage	Power consumption	Specifics	Plug connection <sup>*1</sup>	2 and 4	1, 3 and 5
12 V DC	1 W		Form C industrial norm	-441	-411
24 V DC	1 W		Form C industrial norm	-442	-412

\*1 Plug socket not included, suitable plug sockets see page 4.



## บริษัท ฟลูเทค จำกัด FLU - TECH CO., TD

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## Series MF-04

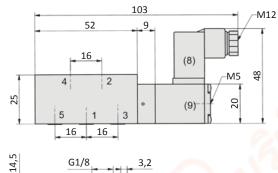


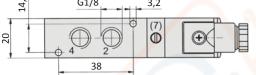
### **Technical details**

NEW Model-no. :		MF-24-520	MF-24-530	MF-24-533	
Model-no.:	MF-04-510	MF-04-520	MF-04-530	MF-04-533	
Operating pressure (bar)	2,5 8	2,5 8	3 8	3 8	
Pilot pressure (bar)					
Flow rate (NI/min)	360	360	360	360	
Response time (ms)					
at 6 bar					
Weight (kg)	0,112	0,181	0,180	0,178	

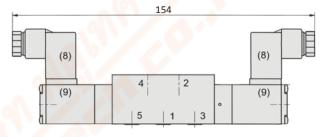
## Dimensions

#### MF-04-510-HN





MF-04-520-HN, MF-04-53x-HN



#### NEW MODEL NO. : MF-24-520-HN, MF-24-53x-HN

1 = pressure inlet 2,4 = outlets 3,5 = exhausts

Plug socket (not included in scope of delivery) can be repositioned by 180°. Solenoid coil can be repositioned by  $4 \times 90^{\circ}$ .





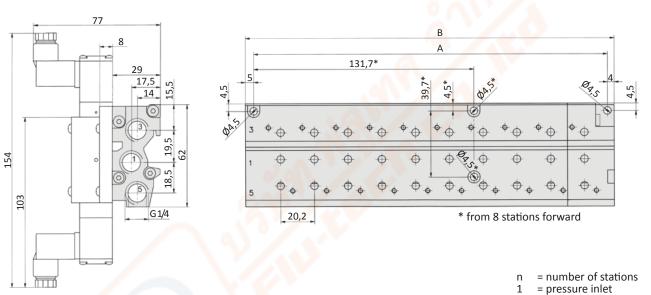
#### **General information**

The RF-24/n manifolds are suitable for the MF-04 valve series. This is a modular system and extendable up to 12 stations. Blind plates RF-04-V are available for blank stations. All mounting screws and the gasket are part of delivery of the valves.

Material: Al (anodized)



#### **Dimensions RF-24/n**



3,5 = exhausts

03

Model-no.:	А	В	Weight (kg)
RF-24/2-P	50	59	0,202
RF-24/3-P	70,2	79,2	0,263
RF-24/4-P	90,4	99,4	0,324
RF-24/5-P	110,6	119,6	0,385
RF-24/6-P	130,8	139,8	0,447
RF-24/7-P	151	160	0,508
RF-24/8-P	171,2	180,2	0,567
RF-24/9-P	191,4	200,4	0,628
RF-24/10-P	211,6	220,6	0,708
RF-24/11-P	231,8	240,8	0,769
RF-24/12-P	252	261	0,831

# **Plug sockets**



## Form C industrial norm

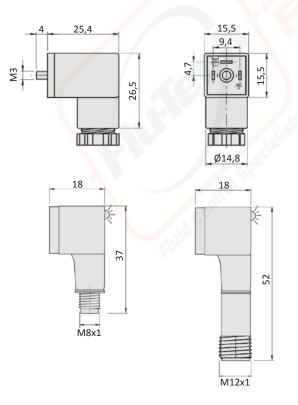
Overall width	15 mm	
Contact distance	9,4 mm	
Contacts	2P + E	
Protection	IP 65 according to EN 60529 requires a flat gasket	

Model-no.:	28-ST-02-01	28-ST-09-112	28-ST-10-112	28-ST-10-K3-112 *	
Voltage (AC/DC)	0 - 250 V	10 - 50 V	24 V	24 V	
Status indicator	no	yes	yes	yes	
Protective circuit	no	no	yes (varistor)	yes (varistor)	
Connecting cable	without	without	without 🛛 🔿 🦰	3 m	
Wire cross section	max. 0.75 mm <sup>2</sup>	max. 0.75 mm²	max. 0.75 mm²	3 x 0.5 mm <sup>2</sup>	
Ø Connecting cable	4 - 6 mm	4 - 6 mm	4 - 6 mm		
Madal na i					
Model-no.:	28-ST-02-2-05	28-ST-02-2-07			
Voltage (AC/DC)	24 V	24 V			
Status indicator	yes	yes		the second second	
Protective circuit	yes (varistor)	yes (varistor)			
Connection	M8	M12			

\* These plug sockets are fitted with integrated flat gaskets.

#### Dimensions

## Form C industrial norm





## **Solenoid coils**

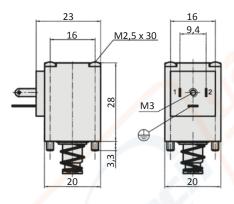
### Form C industrial norm

\* The max. applicable operating temperature depends on the temperature specification of the used valve.

Model-no.:	23-M-20-411	23-M-20-412
Voltage	12 V DC	24 V DC
Power consumption DC	2 W	2 W
Power consumption AC	-	-

## Dimensions

#### Form C industrial norm



# Voltage code



			- <u>HN *</u> - * * * T T T						
	V	v			•			. ↓	
Manu	ual override		Coil and plug options	Coil type		Manual override osition on side of		Voltage	
HN HNR	detent detent	0	ATEX 2GD, encapsulated with casting compound width 30 mm	23-SP-037	0	without indication ports 1/3/(5)	0	without indi cation	
HNT	non-detent	1	with coil and plug	according to valve	1	DC	1	12 V	
	non actent	2			-	ports 1/3/(5)	2	24 V	
		3			2	AC ports 1/3/(5)	3	42 V	
		4	with coil, without plug	according to valve		DC, low power	4	48 V	
		5	without coil	no	3	consumption ports 1/3/(5)	5	110 V	
		6	without pilot valve	no		DC	6	115 V	
		7	with coil, with enhanced humidity resistance, without plug	according to valve	4	ports 2/(4)	7	230 V	
		8	with coil, with enhanced humidity resistance, with plug	according to valve	5	ports 2/(4)	8	240 V	
		9	ATEX 2GD, intrinsically safe, with plug width 30 mm	23-SP-038	6	DC, low power consumption	А	4 V	
		А	ATEX 3GD, without plug, width 30 mm	23-SP-040		ports 2/(4) without indication	В	6 V	
		В	ATEX 3GD, with plug, width 30 mm	23-SP-040	7	ports 2/(4)	С	8 V	
		С	ATEX 3GD, without plug, width 22 mm	23-SP-041			D	61 V	
		D					E	36 V	
		E	ATEX 2GD, encapsulated with casting compound width 22 mm	23-SP-036			F	9 V	
		F	with coil, with enhanced humidity resistance, without plug, low temperature version	23-SP-060-1					
		G							
		н	with coil shape B according to DIN EN 175301- 803, with plug	23-SP-011-G					
		I	with coil shape B according to DIN EN 175301- 803, without plug	23-SP-011-G					
		J	with coil shape A according to DIN EN 175301- 803, without plug (if not standard)	23-SP-016					
		К	with coil shape A according to DIN EN 175301- 803, with plug (if not standard)	23-SP-016					
		L	with coil, with plug with LED and protective circuit	according to valve					
		М	with coil, with plug with LED, without protec- tive circuit	according to valve					
		Ν	with coil with M12 connection	according to valve					
		0	with coil with M12 connection with LED and protective circuit	according to valve					
		Ρ	without connector bridge, without plug						
		Q	with coil with cable	according to valve					
		R	with cable up to 1 m length	according to valve					
		S	with connector bridge, without plug						
		Т							
		U	ATEX 2GD, without coil (for coil 23-SP-036)	no					
		V	ATEX 2GD, Flame proof enclosure and encapsu- lated with casting compound	23-SP-045					
		W	ATEX 2GD / 3GD, without coil (for coil 23-SP-041 and 23-SP-045)	no					
		х	ATEX 3GD, without coil (for coil 23-SP-040 in 230V AC and 115V AC)	no					
		Υ	ATEX 2GD, without coil (for coil 23-SP-038)	no		Not all options are	suitał	ole for all valu	
		z	ATEX 2GD / 3GD, without coil (for coil 23-SP-040 in 24V DC and 23-SP-037)	no		series		,	