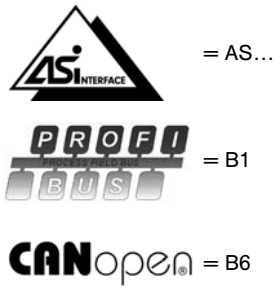


Valve terminal RE-10

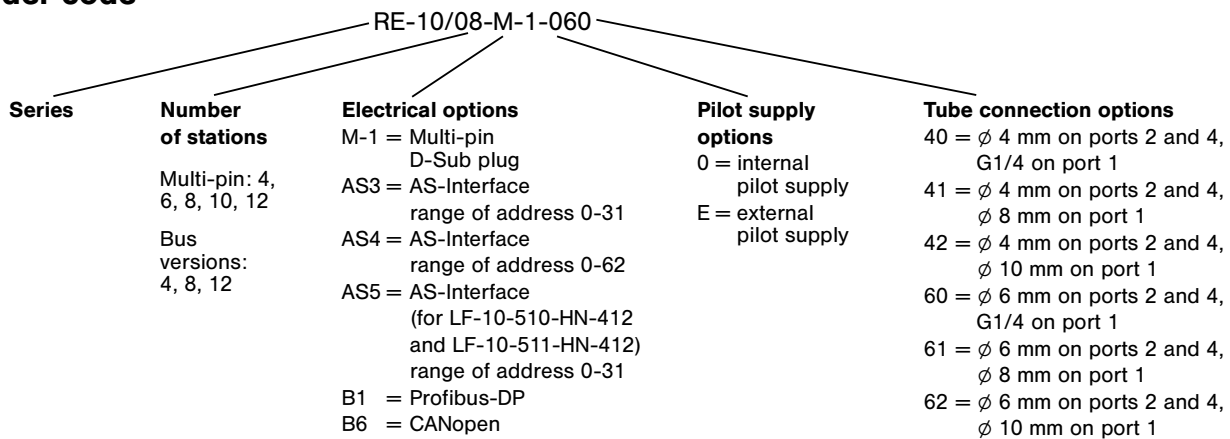
with Multi-pin, AS-Interface or bus connection
4 – 12 valve stations, 300 NI/min (0.305 Cv)



Type of connection



Order code



Design and function

Manifold system with integrated electrical connection including LED indicators. Each station can accommodate two 3/2-way valves or one 5/2- or 5/3-way valve. All connections are accessible from the front.

The valves and the multi-pin plug with cable must be ordered separately.

The manifold can be mounted with 4 M5 screws from bottom or from top using the mounting bracket RE-10-B-01 or on a DIN-rail (screws are included).

The valve terminal is delivered pre-assembled and function-tested. If not specified with the order, valve configuration is as follows: Valves are mounted according to their order number, starting with high numbers on the side of the multi-pin, ending with low numbers on the opposite side, followed by blind plates (if ordered).

Technical data	AS-Interface	Profibus-DP	CANopen	Multi-pin
Number of stations	4, 8, 12	4, 8, 12	4, 8, 12	4, 6, 8, 10, 12
Power range	see valve			
Temperature range	+ 5 °C ... + 50 °C (+ 41 °F ... + 122 °F)			
Voltage	24 V DC \pm 10 %			
Voltage tolerance	- 5 % ... + 10 %			
Voltage bus	18,5 ... 31,6 V DC	-	-	-

Valve terminal RE-10
with Multi-pin, AS-Interface or bus connection
4 – 12 valve stations, 300 NI/min (0.305 Cv)



Technical data	AS-Interface	Profibus-DP	CANopen	Multi-pin
Power consumption each solenoid¹⁾	1.1 W	1.1 W	1.1 W	1.1 W
each bus system	–	4.3 W	4.3 W	–
each slave	1.1 W	–	–	–
Status indicator (LED):				
Solenoid active	yellow	yellow	yellow	yellow
error	red	red	red	–
Power valve active	green (3 internal circuits)	green (3 internal circuits)	green (3 internal circuits)	–
error	off	off	off	–
Power fieldbus	–	green	green	–
Status fieldbus active	green (1 x each Slave)	green	green	–
error	red (1 x each Slave)	red	red	–
Fieldbus online	–	green	–	–
Fieldbus error	–	–	red	–
EMC circuit	Power with Polarized circuit protection and built-in surge protection			
Electrical connection				
Power in	AS-Interface clamp	M12 socket 5-pin, A-code	M12 socket 4-pin, A-code	D-Sub 26-pin (high density), common GND
Power out	–	–	–	
Bus in	AS-Interface clamp	M12 socket 5-pin, B-code	M12 socket 5-pin, A-code	–
Bus out	–	M12-plug 5-pin, B-code	M12-plug 5-pin, A-code	–
Address selection	Low voltage switch plug Ø 1.3 mm and Slave selection by DIP-switch	Bus by 2 rotary switches (Adr. 1 ... 99)	Bus by 2 rotary switches (Adr. 1 ... 99)	–
Baud rate Bus	–	9.6 kbit/s ... 12 Mbit/s	10 kbit/s ... 1 Mbit/s	–
max. cable length Bus depends on Baud rate	–	50...1200 m	50...1600 m	–
Service interface	–	RS232	RS232	–
Bus terminator		over external Profibus-Terminator ²⁾	over external CANopen-Terminator ²⁾	
Protection	IP 65 acc. EN 60529 in connection with the AIRTEC cable 28-ST-10-M1-26-...			

¹⁾ The status display consumes 0.25 W of the 1.3 W power consumption.

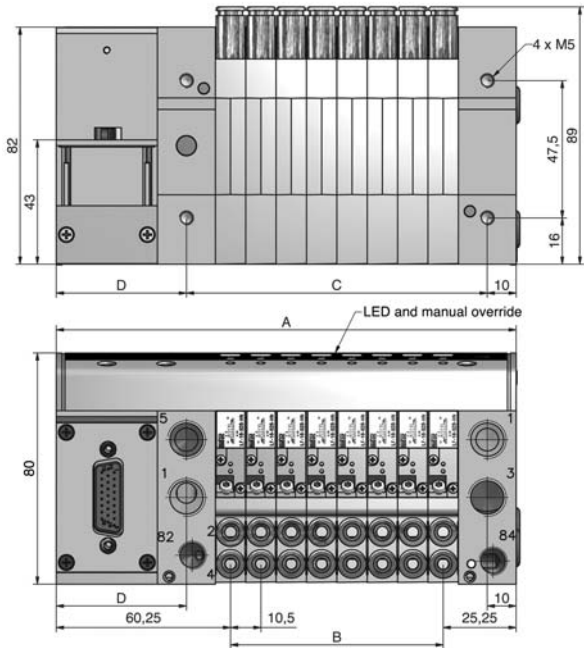
²⁾ Bus termination resistance is available for Profibus-DP and DeviceNet as an accessory (see page 7.054).

Valve terminal RE-10

with Multi-pin, AS-Interface or bus connection
4 – 12 valve stations, 300 NI/min (0.305 Cv)



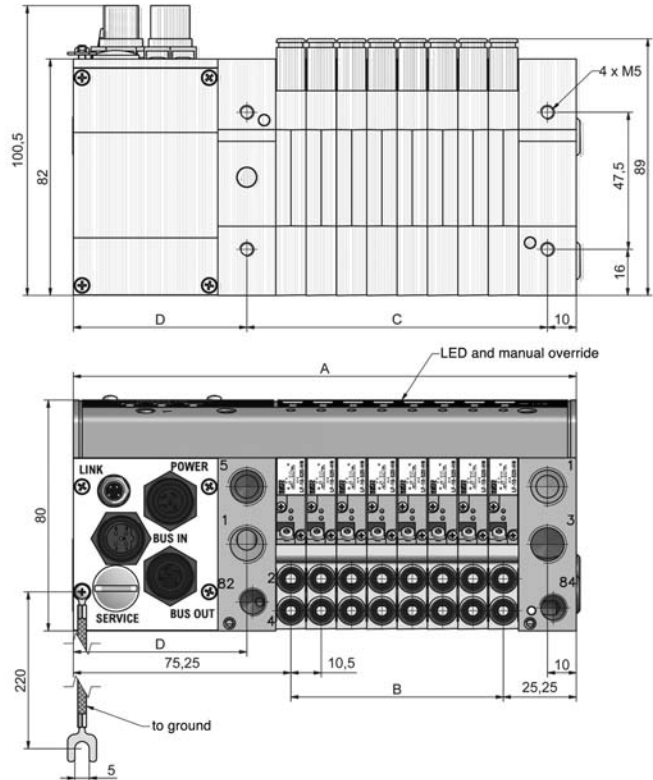
Multi-pin



- 1 = pressure supply, G1/4
- 2, 4 = outlets, fittings for tube \varnothing 6 mm
- 3, 5 = exhausts, G1/4
- 82, 84 = solenoid exhausts, G1/8

Manual override – spring return: press down
detent: press and turn

Bus-Terminal



Order number	A	B	C \pm 0,3	D
RE-10/04-M-1-040 or -060	117	31.5	62	45
RE-10/06-M-1-040 or -060	138	52.5	83	45
RE-10/08-M-1-040 or -060	159	73.5	104	45
RE-10/10-M-1-040 or -060	180	94.5	125	45
RE-10/12-M-1-040 or -060	201	115.5	146	45
RE-10/04-B1-040 or -060 RE-10/04-B6-040 or -060 RE-10/04-ASx-040 or -060 ¹	132	31.5	62	60
RE-10/08-B1-040 or -060 RE-10/08-B6-040 or -060 RE-10/08-ASx-040 or -060 ¹	174	73.5	104	60
RE-10/12-B1-040 or -060 RE-10/12-B6-040 or -060 RE-10/12-ASx-040 or -060 ¹	216	115.5	146	60

¹ASx stays for the versions AS3, AS4 and AS5 according to the order code series RE-10.

Valve terminal RE-10

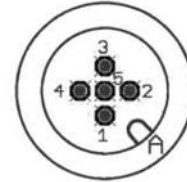
with Multi-pin, AS-Interface or bus connection

Pin assignment fieldbus-connection for series RE-10



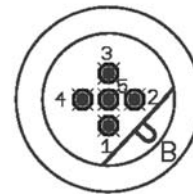
POWER IN Plug M12 5-pin A-code (POWER 24V)¹⁾

Pin	Name	Description
1	+24V	Power supply-terminal
2	n. c.	not connected
3	GND	Ground for 24 V DC
4	n. c.	not connected
5	n. c.	not connected



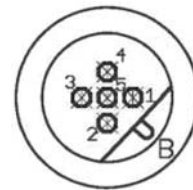
BUS IN Plug M12 5-pin B-code

Pin	Name	Description
1	n. c.	not connected
2	A	RS485A (Tx/Rx-N)
3	n. c.	not connected
4	B	RS485B (Tx/Rx-P)
5	Shield ²⁾	Shield



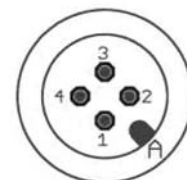
BUS OUT Socket M12 5-pin B-code³⁾

Pin	Name	Description
1	+5V	Power supply termina
2	A	RS485A (Tx/Rx-N)
3	GND	Ground for +5V
4	B	RS485B (Tx/Rx-P)
5	Shield	Shield



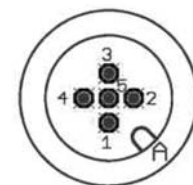
POWER IN Plug M12 4-pin A-code (POWER 24V)¹⁾

Pin	Name	Description
1	+24V	Power supply-terminal
2	n. c.	not connected
3	GND	Ground for 24 V DC
4	n. c.	not connected



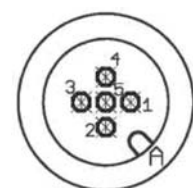
BUS IN Plug M12 5-pin A-code

Pin	Name	Description
1	SHLD	Shield ²⁾
2	CAN V+	CAN Supply
3	GND	CAN Ground
4	CAN H	CAN high
5	CAN L	CAN low



BUS OUT Socket M12 5-pin A-code³⁾

Pin	Name	Description
1	SHLD	Shield ²⁾
2	CAN V+	CAN Supply
3	GND	CAN Ground
4	CAN H	CAN High
5	CAN L	CAN Low



¹⁾ The pin assignment is according DESINA-Norm Rev. 2.0 for M12 actuators. The pins 2, 4 and 5 are not connected.

²⁾ The shield can be connected to the metal collar of the plug (improves the shield and is recommended) or at pin 5.

³⁾ An unused socket connection must be terminated with the termination resistance.

Valve terminal RE-10

with Multi-pin, AS-Interface or bus connection
4 – 12 valve stations, 300 NI/min (0.305 Cv)



Pin assignment

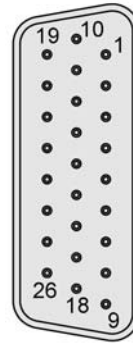
Connector cable 28-ST-10-M1-26-...

For valve terminals with 4 ... 12 stations.

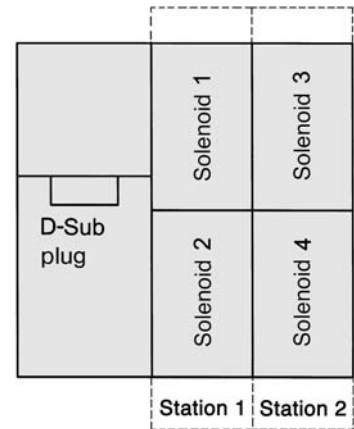
Pin	Solenoid	Wire colour	Pin	Solenoid	Wire colour
1	1	white	14	14	brown/green
2	2	brown	15	15	white/yellow
3	3	green	16	16	yellow/brown
4	4	yellow	17	17	white/grey
5	5	grey	18	18	grey/brown
6	6	pink	19	19	white/pink
7	7	blue	20	20	pink/brown
8	8	red	21	21	white/blue
9	9	black	22	22	brown/blue
10	10	violet	23	23	white/red
11	11	grey/pink	24	24	brown/red
12	12	red/blue	25	0V	white/black
13	13	white/green			

View on
valve terminal
(Plug)

D-Sub
26-pin



Solenoid layout

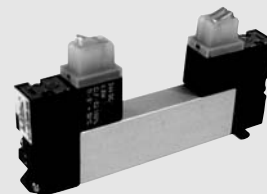


Wiring colour acc. to DIN 47100 (coloured or assigned with numbers).

Valve and accessories for series RE-10

Valves

LF-10-310/2-HN-412	2 x 3/2-way closed
LF-10-312/2-HN-412	2 x 3/2-way open
LF-10-314/2-HN-412	2 x 3/2-way open/closed
LF-10-510-HN-412	5/2-way with air spring
LF-10-511-HN-412	5/2-way with mech. spring
LF-10-520-HN-412	5/2-way double solenoid
LF-10-530-HN-412	5/3-way center position closed
LF-10-533-HN-412	5/3-way center position exhausted
LF-10-534-HN-412	5/3-way center position pressurized



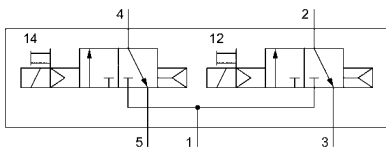
Single elements

RE-10-DT-01	Dividing plate for P-channel
RE-10-ES	Element for external pilot supply
RE-10-P-01	Element for additional air supply
RE-10-V-EP	Blind plate for valve and solenoid position
RE-10-B-01	Bracket for flange mounting
RE-10-MS-01	Kit for DIN rail mounting
28-ST-10-M1-26-105	Multi-pin connector, D-Sub 26-pin, 5 m cable
28-ST-10-M1-26-110	Multi-pin connector, D-Sub 26-pin, 10 m cable
28-ST-RE-16-01-B1	Connector kit RE-46 (can also be used for RE-10), Profibus-DP, in and out
28-ST-RE-16-02-B1	Connector kit RE-46 (can also be used for RE-10), Profibus-DP termination resistance
28-ST-RE-16-01-B6	Connector kit RE-46 (can also be used for RE-10), CANopen, in and out
28-ST-RE-16-02-B6	Connector kit RE-46 (can also be used for RE-10), CANopen termination resistance

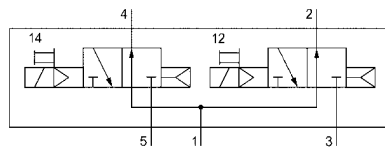
Cable for fieldbus on request.

Valves LF-10 for valve terminal RE-10

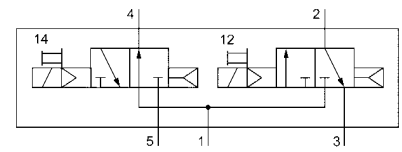
300 NI/min (0.305 Cv)



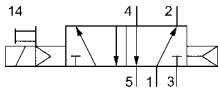
LF-10-310/2-HN-412



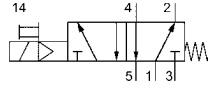
LF-10-312/2-HN-412



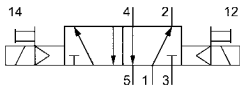
LF-10-314/2-HN-412



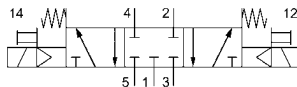
LF-10-510-HN-412



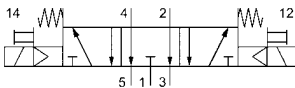
LF-10-511-HN-412



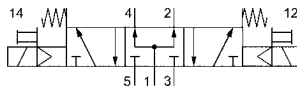
LF-10-520-HN-412



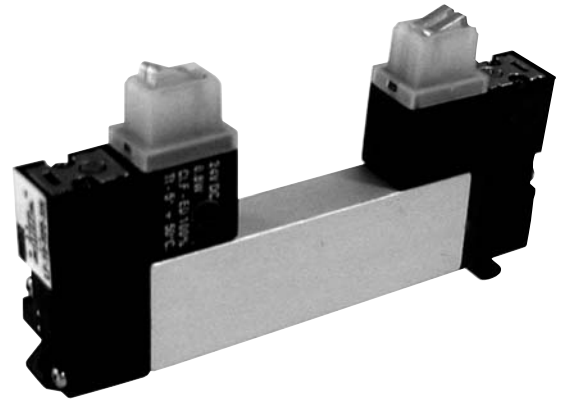
LF-10-530-HN-412



LF-10-533-HN-412



LF-10-534-HN-412



Design and function

Spool valve actuated by an electrical signal.

Order number ¹⁾	LF-10-310/2-...	LF-10-312/2-...	LF-10-314/2-...	LF-10-510-...	LF-10-511-...	LF-10-520-...	LF-10-530-...	LF-10-533-...	LF-10-534-...
Function	2 x 3/2-way closed	2 x 3/2-way open	2 x 3/2-way open/closed	5/2-way air spring	5/2-way mechanical spring return	5/2-way double solenoid	5/3-way center pos. closed	5/3-way center pos. exhausted	5/3-way center pos. pressurized
Connection	Flange								
Nominal size	4 mm								
Nominal flow Qv²⁾	300 (0.305 Cv)	220 (0.224 Cv)	220 / 300 (0.224/0.305 Cv)	300 (0.305 Cv)	300 (0.305 Cv)	300 (0.305 Cv)	280 (0.285 Cv)		300 (0.305 Cv)
Pressure range³⁾	1.5 ... 8 bar (21.75 ... 116 psi)			1.5 ... 8 bar (21.75 ... 116 psi)	3 ... 8 bar (43.5 ... 116 psi)	1.5 ... 8 bar (21.75 ... 116 psi)	3.5 ... 8 bar (50.75 ... 116 psi)		
Pressure range⁴⁾	1.5 ... 8 bar (21.75 ... 116 psi)								
External pilot pressure	1.5 ... 8 bar (21.75 ... 116 psi)			1.5 ... 8 bar (21.75 ... 116 psi)	3 ... 8 bar (43.5 ... 116 psi)	1.5 ... 8 bar (21.75 ... 116 psi)	3.5 ... 8 bar (50.75 ... 116 psi)		
Response on time⁵⁾ off	14 ms 22 ms			18 ms 28 ms	14 ms 30 ms	15 ms	20 ms 30 ms	16 ms 30 ms	
Temperature range	- 5 °C ... + 50 °C (+ 23 °F ... + 122 °F)								
Materials	Body: Al (anodized), plastic, Seals: NBR, plastic, Inner parts: Al, POM, stainless steel and brass								
Medium	Compressed air in accordance with ISO 8573-1:2010, Class 7:2:4 – and free of aggressive additives.								
Operating voltage	24 V DC - 5 % / + 10 % (22,8 V ... 26,4 V)								
Power consumption	0,8 W je pilot valve								
Degree of protection	IP 65 according to EN 60529, when assembled on RE-10								
Weight	0.050 kg (0.10 lb.)			0.044 kg (0.09 lb.)	0.042 kg (0.092 lb.)	0.052 kg (0.11 lb.)	0.050 kg (0.115 lb.)		

¹⁾ Please specify complete according to the order codes (see below circuit symbols).

²⁾ Flow Qy from 1 to 2 (1 to 4) in NI/min.

³⁾ For internal pilot pressure.

⁴⁾ For external pilot pressure.

⁵⁾ Response time at 6 bar acc. CETOP 111 P.