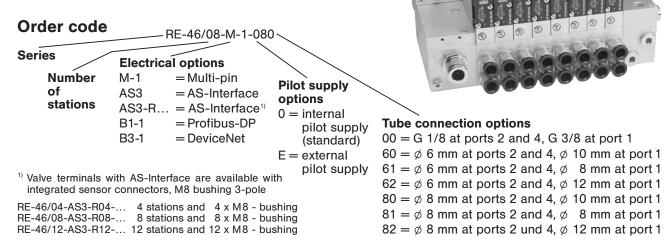
Valve terminal RE-46 with Multi-pin, AS-Interface or Fieldbus, 4 – 24 valve stations, 950 NI/min (0.965 CV)



Technical data for series

RE-46



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 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 at the side of the multi-pin, ending with low numbers on the opposite side, followed by blind plates (if ordered).

Techn. data		AS-Interface	Profibus-DP	DeviceNet	Multi-pin			
Number of stations		4, 8, 12	6, 8, 10, 12 24	4, 6, 8, 10 20				
Working pressure range		3 8 bar (44 116 psi) / 0 8 bar (0 116 psi) with external pilot supply						
Temperature range		- 10 °C + 50 °C (+ 14 °F + 12	2 °F)					
Degree of protection		IP 65 according to VDE 0470 / EN 60529 (with suitable connectors)						
Voltage		Bus 18,5 V DC 31,6 V DC Power 24 V DC - 10 % + 15 %	24 V DC ± 10 %	24 V DC -10 % +15 %				
Power consumption each solenoid		1.3 W / Valve solenoid* 0.6 W / Slave	1.3 W / Valve solenoid* 2.9 W Bus system 1.3 W / Valve solenoid* 2.5 W Bus system		1.3 W / Valve solenoid*			
Status	LED Yellow	Valve solenoid energized	Valve solenoid energized	/alve solenoid energized Valve solenoid energized				
display	LED Green	Power	Power Power		-			
LED Green LED Green LED Red LED Red		Bus active (1 / slave)	Bus active Bus active		-			
		_	 Module active 		_			
		Bus error (1 / slave)	Bus error Bus error		_			
		_	 Module error 		-			
EMC circu	it	Power with Polarized circuit protection at	Polarized circuit protection, built-in surge protection					
Electrical connections		Power – ASi connector Bus – ASi connector	Power – 5-pin M12 socket A-code Bus 2 x – 5-pin M12 out-bushing B-code in-socket B-code	Power - 5-pin M12 socket B-code Bus - 5-pin M12 socket A-code	Common GND D-SUB 25-pin, 4 12 stations D-SUB 44-pin, 14 20 stations			
Address s	election	Low voltage switch plug Ø 1.3 mm Slave selection by DIP-switch	By 2 rotary switches	MAC – ID by 8-pin DIP-switch Bit 1 6	_			
Baud rate		Standard address range 0 31	Automatic adjustment 9,6 kBit/s 12 Mbit/s	DIP-switch Bit 7 + 8 125, 250, 500 kBit/s	_			

Bus termination resistance is available for Profibus-DP and DeviceNet as an accessory (see page 6.083).

6.080 Subject to change

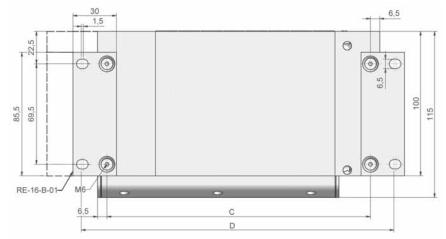
^{*} The status display consumes 0.3 W of the 1.3 W power consumption.

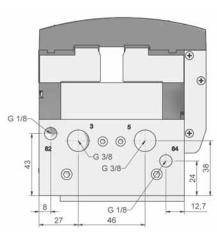
Valve terminal RE-46 with Multi-pin, AS-Interface or Fieldbus, 4 – 24 valve stations, 950 NI/min (0.965 Cv)

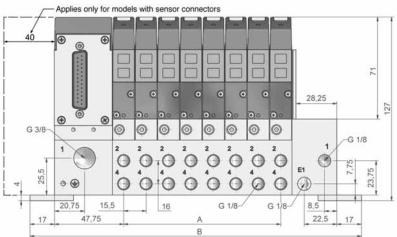


Dimensions for series

RE-46





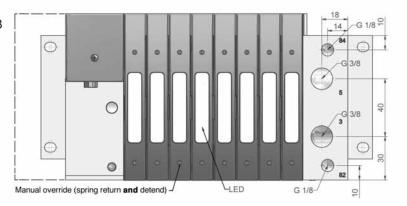


1 = pressure supply G 3/8 and G 1/8 E1 = external pilot supply G 1/8

2, 4 = outlets G 1/8 3, 5 = exhausts G 3/8 82, 84 = pilot exhaust G 1/8

The dimensions of AS-Interface and the different bus types are identical with the multi-pin model.

Six plugs, 4 x G 1/8 and 2 x G 3/8 are included.



Order number	Α	В С		D	
RE-46/04	46.5	167	120	154	
RE-46/06	77.5	198	151	185	
RE-46/08	108.5	229	182	216	
RE-46/10	139.5	260	213	247	
RE-46/12	170.5	291	244	278	
RE-46/14	201.5	322	275	309	
RE-46/16	232.5	353	306	340	
RE-46/18	263.5	384	337	371	
RE-46/20	E-46/20- 294.5		368	402	
RE-46/22	325.5	446	399	433	
RE-46/24	356.5	477	430	464	

Subject to change 6.081

Valve terminal RE-46 with Multi-pin, AS-Interface or Fieldbus, 4 – 24 valve stations, 950 NI/min (0.965 Cv)

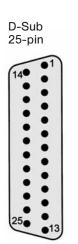


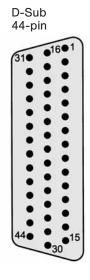
Technical data for series

RE-46

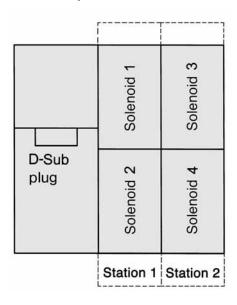
Pin assignment

View on valve terminal





Solenoid layout



Connector cable 28-ST-16-M1-25-...* For valve terminals with 4 ... 12 stations.

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

Connector cable 28-ST-16-M1-44-...*
For valve terminals with 14 ... 20 stations.

Pin	Solenoid	Wire coding	Pin	Solenoid	Wire coding	
1	GND	white	23	20	white/red	
2	3	brown	24	23	brown/red	
3	6	green	25	26	white/black	
4	9	yellow	26	29	brown/black	
5	12	grey	27	32	grey/green	
6	15	pink	28	35	yellow/grey	
7	18	blue	29	38	pink/green	
8	21	red	30	_	yellow/pink	
9	24	black	31	1	green/blue	
10	27	violet	32	4	yellow/blue	
11	30	grey/pink	33	7	green/red	
12	33	red/blue	34	10	yellow/red	
13	36	white/green	35	13	green/black	
14	39	brown/green	36	16	yellow/black	
15	-	white/yellow	37	19	grey/blue	
16	GND	yellow/brown	38	22	pink/blue	
17	2	white/grey	39	25	grey/red	
18	5	grey/brown	40	28	pink/red	
19	8	white/pink	41	31	grey/black	
20	11	pink/brown	42	34	pink/black	
21	14	white/blue	43	37	blue/black	
22	17	brown/blue	44	40	red/black	

Wiring colour acc. to DIN 47100 (coloured or signed by numbers).

* See page 6.083

Valve terminal RE-46 with Multi-pin, AS-Interface or Fieldbus, 4 – 24 valve stations, 950 NI/min (0.965 Cv)



Valves and accessories for series

RE-46

Valves



KF-46-310/2-HN-S12
KF-46-312/2-HN-S12
KF-46-314/2-HN-S12
KF-46-510-HN-S12
KF-46-511-HN-S12
KF-46-520-HN-S12
KF-46-530-HN-S12
KF-46-533-HN-S12
KF-46-534-HN-S12
KF-46-534-HN-S12
KF-46-534-HN-S12
KF-46-534-HN-S12
KF-46-534-HN-S12
KF-46-534-HN-S12
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KF-46-534-HN-S12
KF-46-534-HN-S12

Other single elements



Blind plate RE-16-V-EP



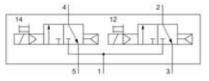
RE-19-DT	Dividing plate for 2 different pressures
RE-26-DS	Seal kit for KF-26 and KF-46
RE-46-B-01	Bracket for flange mounting
RE-46-B-02	Bracket for flange mounting (Terminals with sensor connectors)
RE-46-DS	Seal kit for KF-46
RE-46-RSV	Check valve for dynamic exhaust pressure
RE-16-V-EP	Blind plate set
RE-46-V-EP	Blind plate set
21-KF-46-01	Mounting Kit (Seal, mounting clamp and screw for valve fixing)
28-ST-16-M1-25-105	Connector Multi-pin D-Sub, 25-pin with 5 m cable
28-ST-16-M1-25-110	Connector Multi-pin D-Sub, 25-pin with 10 m cable
28-ST-16-M1-44-105	Connector Multi-pin D-Sub, 44-pin with 5 m cable
28-ST-16-M1-44-110	Connector Multi-pin D-Sub, 44-pin with 10 m cable
28-ST-RE-16-01-B1	Connector kit RE-46, Profibus-DP, in and out
28-ST-RE-16-02-B1	Connector kit RE-46, Profibus-DP termination resistance
54-RE-46-G	Operating manual RE-46, AS-Interface, Profibus-DP, DeviceNet, Multi-pin

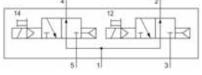
Subject to change 6.083

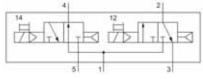


Technical data for valves

KF-46







KF-46-310/2-HN-S12

KF-46-312/2-HN-S12

KF-46-314/2-HN-S12

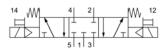


14 4 2 5 1 3

KF-46-510-HN-S12

KF-46-511-HN-S12

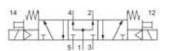




KF-46-520-HN-S12

KF-46-530-HN-S12





KF-46-533-HN-S12

KF-46-534-HN-S12



Design and function

Spool valve actuated by an electrical signal.

Order number*	KF-46-310/2	KF-46-312/2	KF-46-314/2	KF-46-510	KF-46-511	KF-46-520	KF-46-530	KF-46-533	KF-46-534	
Function	2x3/2-way NC	2 x 3/2-way NO	2 x 3/2-way 1 x NO 1 x NC	5/2-way air spring return	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	Flange								
Nominal size	4.5 mm			6 mm						
Nominal	430 NI/min (0.437 Cv) NC			950 NI/min	810 NI/min	950 NI/min	680 NI/min			
flow	630 NI/min (0.640 Cv) NO			(0.965 Cv)	(0.823 Cv)	(0.965 Cv)	(0.691 Cv)	(0.691 Cv)		
Pressure										
range										
Internal pilot supply	Working pressure 2.5 8 bar (36 116 psi)				Working pressure 3 8 bar (44 116 psi)					
External pilot supply	Valves are not suitable				Pilot pressure 38 bar / Working pressure 010 bar ¹⁾					
Response time at 6 bar	on 15 ms off 28 ms			on 15 ms off 31 ms	on 14 ms off 33 ms	20 ms	on 20 ms off 30 ms			
Temperature range	– 10 °C + 50 °C (+ 14 °F + 122 °F)									
Materials	Body: AI (anodized), plastic, Seals: NBR; Inner parts: AI, stainless steel, brass									
Operating voltage	24 V DC - 10 % + 15 %									
Power consumption	1 W per solenoid, 0.3 W per LED									
Degree of protection	IP 65 according to EN 60529, when assembled on RE-46									
Weight	0.19 kg (0.42 lb.) 0.16 kg (0.35 lb.) 0.19 kg (0.42 lb.)									

^{*} Please complete according to order code (see circuit symbols)

6.084 Subject to change

¹⁾ For KF-46-511-... the pilot pressure must be higher than the working pressure.