

Series HDMVK

ISO 15552

Technical details

Series cylinder	HDM
Series valve	KM-09 (up to Ø 63 mm), KM-10 (up from Ø 80 mm)
Operating pressure	3 ... 10 bar
Temperature range	-10°C ... +70°C
Max. stroke	2800 mm
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.
Protection	IP 65 according to EN 60529



Double acting Al-profile cylinder with integrated sensor grooves, adjustable cushions and magnetic piston for proximity sensors. The sensors can be installed directly into the sensor grooves of the Al-profile. The cylinder includes a 5/2- or 5/3-way valve with a high flow rate and compact dimensions. Standard stroke lengths in table below, additional lengths on request.

Order code

HDMVK-***-**-***-***	
Series	Stroke (mm)
	XXXX max. 2800 mm*
Piston Ø	Electrical options
032 32 mm	see table below
040 40 mm	
050 50 mm	Type
063 63 mm	see page 9-17
080 80 mm	
100 100 mm	
125 125 mm	

* For longer stroke lengths please check the max buckling load.

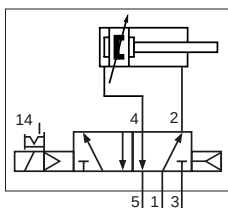
Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx Manual override on same side of ports	
				2 and 4	1, 3 and 5
12 V DC	4.2 W		Form B industrial norm	-441	-411
12 V DC	2.2 W	max. 8 bar	Form B industrial norm	-461	-431
24 V DC	4.2 W		Form B industrial norm	-442	-412
24 V DC	4.8 W		M 12	-O42	-O12
24 V DC	2.2 W	max. 8 bar	Form B industrial norm	-462	-432
24 V DC	2.5 W	max. 8 bar	M 12	-O62	-O32
24 V AC	7/4 VA		Form B industrial norm	-452	-422
115 V AC	7/4 VA		Form B industrial norm	-456	-426
230 V AC	7/4 VA		Form B industrial norm	-457	-427

*1 Plug socket not included, suitable plug sockets see page 4-38.

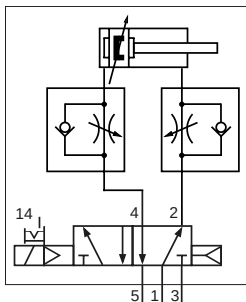
Types

single solenoid valve, normally retracted



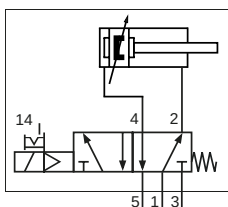
01
valve with air spring return, cylinder piston rod steel hard chrome plated

03
valve with air spring return, cylinder piston rod stainless steel



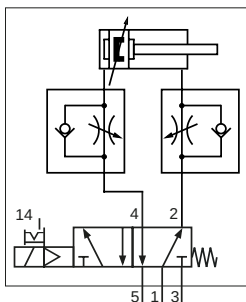
05
valve with air spring return, cylinder piston rod steel hard chrome plated, with mounted flow controls

07
valve with air spring return, cylinder piston rod stainless steel, with mounted flow controls



02
valve with mechanical spring return, cylinder piston rod steel hard chrome plated

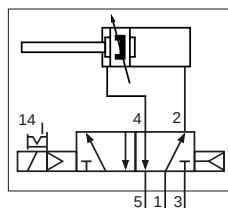
04
valve with mechanical spring return, cylinder piston rod stainless steel



06
valve with mechanical spring return, cylinder piston rod steel hard chrome plated, with mounted flow controls

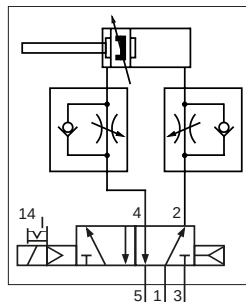
08
valve with mechanical spring return, cylinder piston rod stainless steel, with mounted flow controls

single solenoid valve, normally extended



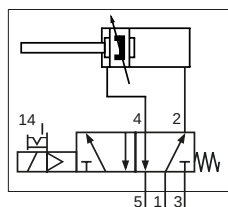
10
valve with air spring return, cylinder piston rod steel hard chrome plated

12
valve with air spring return, cylinder piston rod stainless steel



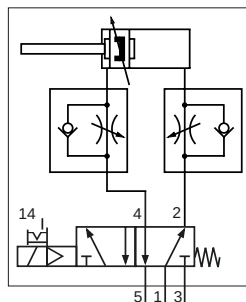
15
valve with air spring return, cylinder piston rod steel hard chrome plated, with mounted flow controls

17
valve with air spring return, cylinder piston rod stainless steel, with mounted flow controls



11
valve with mechanical spring return, cylinder piston rod steel hard chrome plated

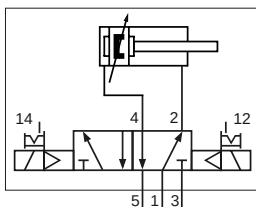
13
valve with mechanical spring return, cylinder piston rod stainless steel



16
valve with mechanical spring return, cylinder piston rod steel hard chrome plated, with mounted flow controls

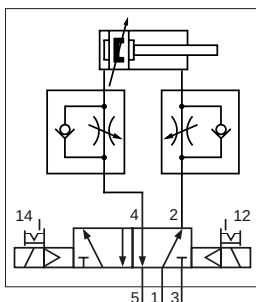
18
valve with mechanical spring return, cylinder piston rod stainless steel, with mounted flow controls

double solenoid valve



20
cylinder piston rod steel hard chrome plated

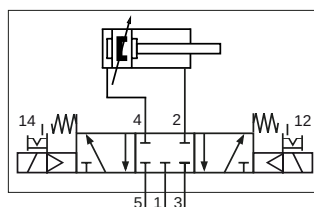
21
cylinder piston rod stainless steel



22
cylinder piston rod steel hard chrome plated, with mounted flow controls

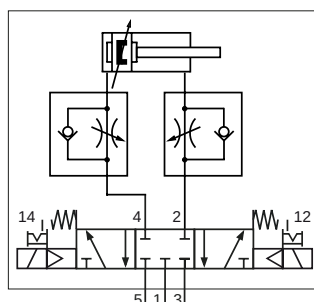
23
cylinder piston rod stainless steel, with mounted flow controls

5/3-way, center position closed



25
cylinder piston rod steel hard chrome plated

26
cylinder piston rod stainless steel



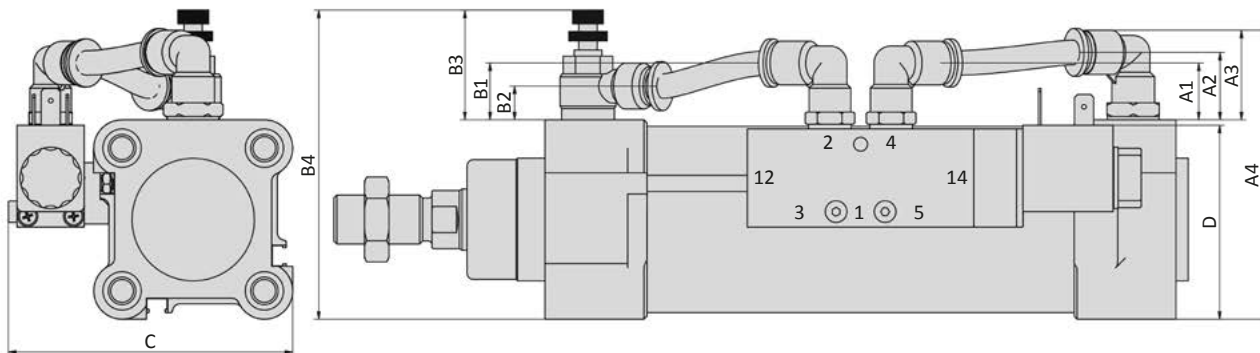
27
cylinder piston rod steel hard chrome plated, with mounted flow controls

28
cylinder piston rod stainless steel, with mounted flow controls

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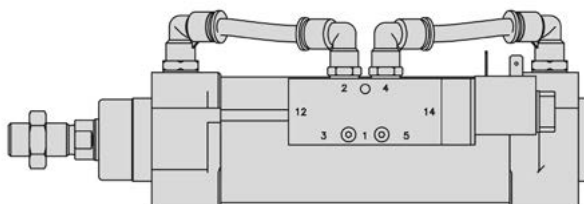
Dimensions



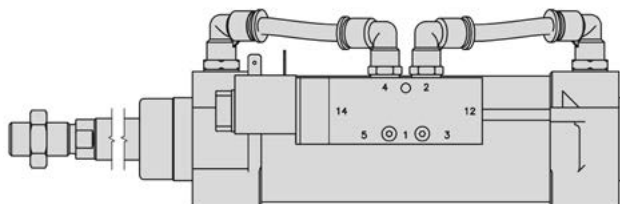
Piston Ø	A1	A2	A3	A4	B1	B2	B3 _{max}	B4 _{max}	C	D
32	20	21	28.5	76.5	20	9.5	34.5	81.5	76.5	47.7
40	18.8	22	29.5	83.5	18.8	11	39.5	93.5	83.3	52.5
50	18.6	22	29.5	94.5	18.6	11	39.5	102.5	92.9	63.3
63	24	18.9	31.5	106.5	24	11.4	44	118	106.5	78.9
80	22.8	18.9	30	124	26.4	13	44	137.5	132.9	86.5
100	35.4	25.8	45	156	35.4	14.5	49.5	159.5	151.8	112.5
125	26.3	25.3	36	175	16.3	14	49.5	187.5	178.4	131.4*

*versions with flow controls D = 121.4

single solenoid valve, normally retracted



single solenoid valve, normally extended



double solenoid valve, 5/3-way valve

