coax[®] data sheet - coaxial valve

type VMK-H 50 VFK-H 50



09/2022



🗥 Above stated body materials refer to the valve port connections that get in contact with the media only!

0	rifice
p 📃	ort
fı	unction NC/NO
0	perating pressure
fl	ow rate
n	nedia
n	nedia temperature
a	mbient temperature
ty	/pe of actuation

details needed for pneumatic actuation

nominal voltage
type of protection
actuation pressure range min/max
pilot valve type

details needed for hydraulic actuation

actuation pressure range min/max hydraulic control valve function

The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

🗥 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

specifications not highlighted are standard specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

operating principle body material

valve seat seal materials

ports function pressure range Kv value vacuum pressure-vacuum

back pressure media

abrasive media damping flow direction switching cycles switching time

media temperature ambient temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment

nominal voltage

power consumption protection energized duty rating connection

optional additional equipment max. temperature

explosion proof

actuation pressure range air consumption cycle speed control pilot valve interface actuator ports

actuation pressure range

control

by media

actuator ports

externally	controlled			
PN 0-200 I	bar			
DN 50 mm	1			
hread/flai	nge			
valve	- -	В		
normally c	losed			
symbol N	4-1>			
valve		B		
	a			
normally o symbol N	· 4-12-1 -	a b - 2		
Syndol N	0	A		
oressure b	balanced, with spring return			
1		② steel galvanized		
3		(5) without non-ferr. Metals		
 steel, nickel plated 		⑥ stainless steel		
0 50000, 11				
synthetic r	naterials on metal			
NBR		PTFE, FPM, CR, EPDM		
jeneral sp	pecifications	options		
/мк-н	threads G 2	special threads		
/FK-H	flanges PN 160 / 250	special flanges		
	NC	NO		
bar	0-200			
n³/h	43.0			
eak rate 21⇔ P2		< 10 ⁻⁴ mbar•l•s ⁻¹		
1 ↔ P2				
2 > P1		available (max. 16 bar)		
	gaseous - liquid - highly viscous			
		available		
pening				
losing \⇔B	by throttles on pilot valve as marked	bi-directional upon request		
/min	100	bi-directionat upon request		
ns	opening 100-3000			
°C	closing 100-3000 direct mounted pilot valve 60	remote mounted pilot valve outside		
°C	direct mounted pilot value 50	temperatur range of media max. 160 °C		
		available		
		available inductive		
	via pilot valve	madenve		
		LR/DNV/WAZ		
q	VMK-H 12.3 VFK-H 18.7	mounting brackets		
9	WHICH 12.0 WHICH 10.7	upon request		
electrical	specifications	options		
Jn	DC 24 V	special voltage upon request		
Jn DC	AC 230 V 50 Hz	special voltage upon request		
AC	4.8 W pick up 11.0 VA holding 8.5 VA	2.5 W (actuation pressure range 4-7 bar)		
P65 (P54)	acc. DIN 40050			
ED	100%	2 positions x190° / wire dismotor (0		
412x1	connector acc. DESINA	, 2 positions x180° / wire diameter 6-8 mm connector acc. VDMA		
	illuminated plug with varistor			
nedia mbiont	60°C 50°C			
mbient Exell T5	nominal voltage Un	DC 24 V 3.25 W		
	power consumption	AC 230 V 50 Hz 2.90 W		
	specifications	ontions		
	specifications	options		
ar m³/stroke	<u>4-8</u> 65			
, stroke	main valve speed variable by throttle	son pilot valve		
	preferably 5/2 way pilot valve			
2/4	co-ax / Namur G 1/8	ISO 1 G 1/4		
- <i>i</i> -t	,	<u>~ 1/ 7</u>		
ydraulic	specifications	options		

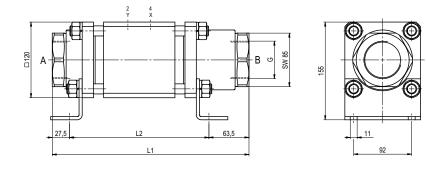
hydraulic specifications

bar	15-30 / 30-60	
	preferably 4/2 way control valve	
X/Y	G 1/4	NPT 1/4

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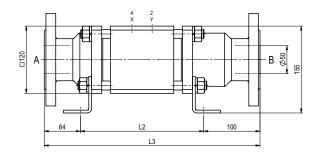
function: **NC** closed when not energized

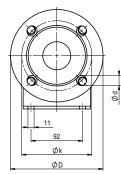


constructive length	L1	L2	L3
standard	312	221	385
with inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	195	145	26
250	EN 1092-1	200	150	26

function: **NO** open when not energized





pneumatic specifications



5/2 way pilot valve flow rate 700 l/min pressure range 3-10 bar G 1/8

5/2 way pilot valve ISO 1 flow rate 700 l/min pressure range 3-10 bar G 1/4

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