

Flanged Motor Valve compact

DN 15 up to DN 50

7232

Motor valve for on/off- and modulating operation for neutral and aggressive media.

- Compact design
- Self adaption
- Unaffected by lightly contaminated media
- For operating temperatures from -30°C up to +200°C
- Working pressure up to 40 bar
- Versatile actuator options
- Actuators with control function also available with spring return



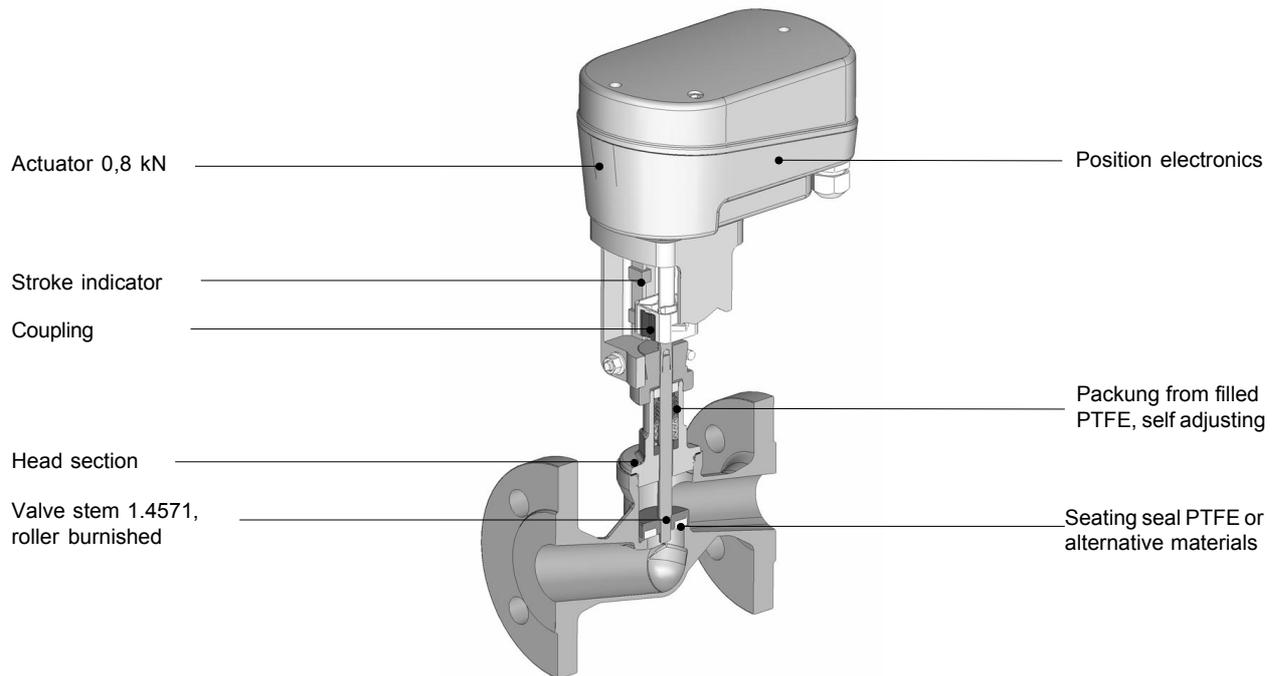
Technical Information Valve

Body materials	Stainless steel
Nominal sizes	DN 15 up to DN 50
Connection	Flanges acc. DIN 2635
Dimension	acc. DIN EN558-1 Row 1
Nominal pressure	PN 40
Max. fluid temperature	-30°C up to +200°C
Viscosity	max. 600 mm ² /s (600 cSt)
Vacuum	max. 0,001 bar, abs.
Operating pressure packing underneath	max. 12 bar

Technical Information Motor Actuator

Type of motor	BM24C	BM24C/I	BM24C/IOS	BM115C/IOS	BM230C/IOS	BM24	BM115	BM230
Function	Control	Control	Control	Control	Control	On/Off	On/Off	On/Off
Nominal voltage	24 V AC/DC	24 V AC/DC	24 V AC/DC	115 V AC	230 V AC	24 V AC/DC	115V AC	230 V AC
Set point	2 - 10 V	4 - 20 mA	3-step	3-step	3-step			
Load	100 kOhm	500 Ohm	500 Ohm	500 Ohm	500 Ohm	-	-	-
Position feedback	2 - 10 V	2 - 10 V	4 - 20 mA	4 - 20 mA	4 - 20 mA	-	-	-
external load	-	-	< 700 Ohm	< 700 Ohm	< 700 Ohm	-	-	-
limit switches	-	-	2 x	2 x	2 x	-	-	-
max. switching load	-	-	230V/130mA	230V/130mA	230V/130mA	-	-	-
Power consumption	3 W	3 W	3 W	4 W	4 W	3 W	6 W	6 W
Stroking time (standard)	3,50 s/mm	3,50 s/mm	3,50 s/mm	3,50 s/mm	3,50 s/mm	7,5 s/mm	7,5 s/mm	7,5 s/mm
Thrust	800 N							
Class of protection	IP 65							
Ambient temperature	-10°C up to +60°C							

Flanged Motor Valve compact 7232



Admissible Differential Pressures

Nominal size	p max (bar)											
	DN15		DN20		DN25		DN32		DN40		DN50	
	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control
Stainless steel body	40	16	20	16	12	12	7	7	4,8	4,8	2,8	2,8

K_{vs}-Values

Characteristic	linear						equal percentage					
	15	20	25	32	40	50	15	20	25	32	40	50
100 %	3,8	8,8	14	20	27	37	3	6	10	16	25	-
40 %	1,5	3,5	5,8	8	11	-	1,2	2,4	4	6	10	-
25 %	0,93	2,2	3,6	-	-	-	0,80	1,5	2,6	-	-	-
15%	-	-	-	-	-	-	0,46	-	-	-	-	-
10%	0,4	-	-	-	-	-	-	-	-	-	-	-
7,5%	-	-	-	-	-	-	0,23	-	-	-	-	-
On-Off	3,5	9	17	28	35	45						

Optional Adjustments

	Control actuator	On-Off actuator
Stroking times	1,75 s/mm - 14,0 s/mm	7,5 / 4,5 sec./mm
Sense of action	direct / reverse	-
Control signal	Starting point: 0,5-30 V / 1-60 mA Ending point: 2,5-32V / 3-64mA	-
Feedback	Starting point: 0,5-8 V / 1-16 mA Ending point: 1,5-10V / 3-20mA	-
Limit switches	0 - 100% stroke (adjustable)	-

Flanged Motor Valve compact 7232

Ordering Number System

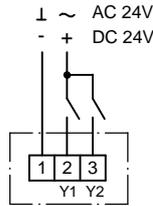
		Article number									
		7232/			K						S
Nominal size:											
DN 15		015									
DN 20		020									
DN 25		025									
DN 32		032									
DN 40		040									
DN 50		050									
Item:											
Valve		V									
Upper part		U									
Actuator		A									
Body design:											
Flanged valve					9						
Connection:											
Flanges acc. DIN 2635						1					
Body material:											
Stainless steel							2				
Seating seal:											
PTFE								0			
FKM (Viton)									1		
EPDM										2	
NBR											3
Actuator:											
Control actuator BM24C - 24V AC/DC - Position control 2-10V - Feedback 2-10V											1
Control actuator BM24C/I - 24V AC/DC - Position control 4-20mA - Feedback 2-10V											2
Control actuator BM24C/IOS - 24V AC/DC - Position control 4-20mA - Feedback 4-20mA - 2 Limit switches											3
Control actuator BM115C/IOS - 115V AC - Position control 4-20mA - Feedback 4-20mA - 2 Limit switches											4
Control actuator BM230C/IOS - 230V AC - Position control 4-20mA - Feedback 4-20mA - 2 Limit switches											5
On-Off actuator BM24 - 24V AC/DC											6
On-Off actuator BM230 - 230V AC											7
On-Off actuator BM115 - 115V AC											8
Control plug:											
none											-
linear 100%											1
equal percentage 100%											2
linear 40%											3
equal percentage 40%											4
linear 25%											5
equal percentage 25%											6
Safety position:											
without safety position											-
spring to close											0
spring to open											1
Stroking times											
Standard (3,5 s/mm for control actuators - 7,5 s/mm for on-off-actuators)											-
3,75 s/mm (on-off actuators only)											L
1,75 s/mm (control actuators only), avec safety spring return 3,0 s/mm											1
7,0 s/mm (control actuators only)											2
14,0 s/mm (control actuators only)											3

Ordering example: 7232/025VK912031: Flanged compact motor valve type 7232, DN 25, flanges acc. DIN 2635, stainless steel body, seating seal PTFE, control actuator 0,8 kN, 24V AC/DC, position electronics 4-20 mA, position feedback 4-20 mA, 2 limit switches, linear characteristic, Kvs-value 14 (100 %).

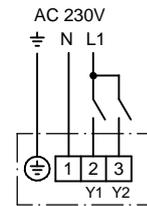
Schematic Wiring Diagrams

On/Off-Actuators

Actuator: BM24
24V AC/DC
3-step drive

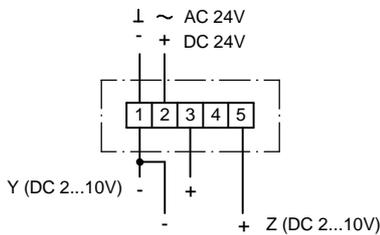


Actuator: BM230, BM115
230V 50/60 Hz
115V 50/60 Hz
3-step drive

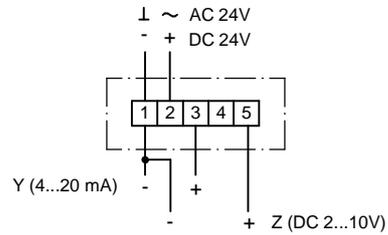


Control Actuators

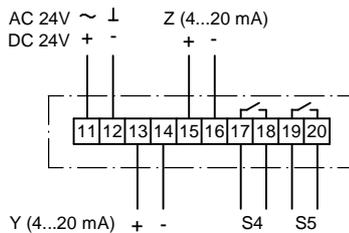
Actuator: BM24C and BM24C-R
24V AC/DC
input signal 2-10V
feedback signal 2-10V



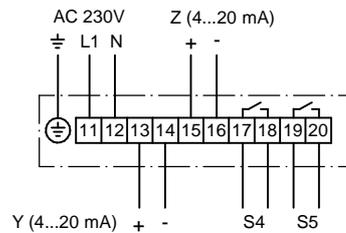
Actuator: BM24C/I and BM24C/I-R
24V AC/DC
input signal 4-20mA
feedback signal 2-10V



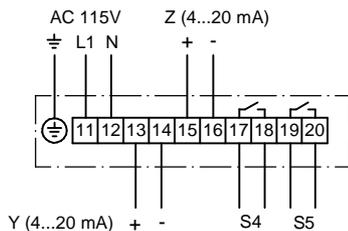
Actuator: BM24C/IOS and BM24C/IOS-R
24V AC/DC
input signal 4-20mA
feedback signal 4-20mA
2 limit switches



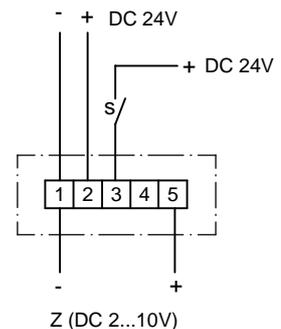
Actuator: BM230C/IOS and BM230C/IOS-R
230V 50/60Hz
input signal 4-20mA
feedback signal 4-20mA
2 limit switches



Actuator: BM115C/IOS and BM115C/IOS-R
115V 50/60Hz
input signal 4-20mA
feedback signal 4-20mA
2 limit switches



Actuator: BM24C and BM24C-R
24V DC
feedback signal 2-10V



BM.....-R: version with safety position

Y: signal, Z: feedback signal