

Right Angle Seat Motor Valve compact

7250

DN 15 up to DN 50

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

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

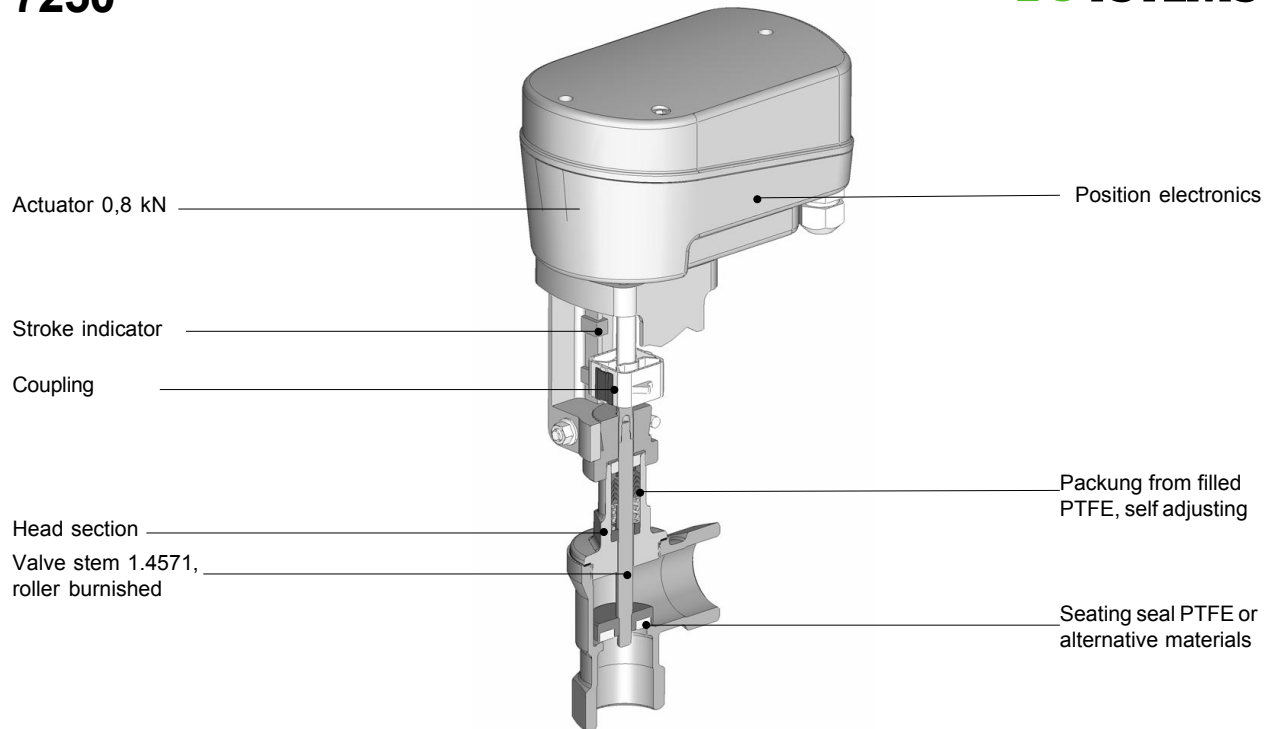
Body materials	Stainless steel
Nominal sizes	DN 15 up to DN 50
Connections: Pipe threads acc. DIN 2999	DN15 - DN 50
NPT thread	DN15 - DN 50
Nominal pressure	PN 40
Max. fluid temperature	-30°C up to +200°C
Viscosity	max. 600 mm²/s (600 cSt)
Vacuum	max. 0,001 bar, abs.
Operating pressure packing underneath	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	4 - 20 mA	4 - 20 mA	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							

По вопросам продаж и поддержки обращайтесь:
Екатеринбург (343)384-55-89, Казань (843)206-01-48, Краснодар (861)203-40-90,
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Admissible Differential Pressures

	p max (bar)											
Nominal size	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					
DN	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 s/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)	-

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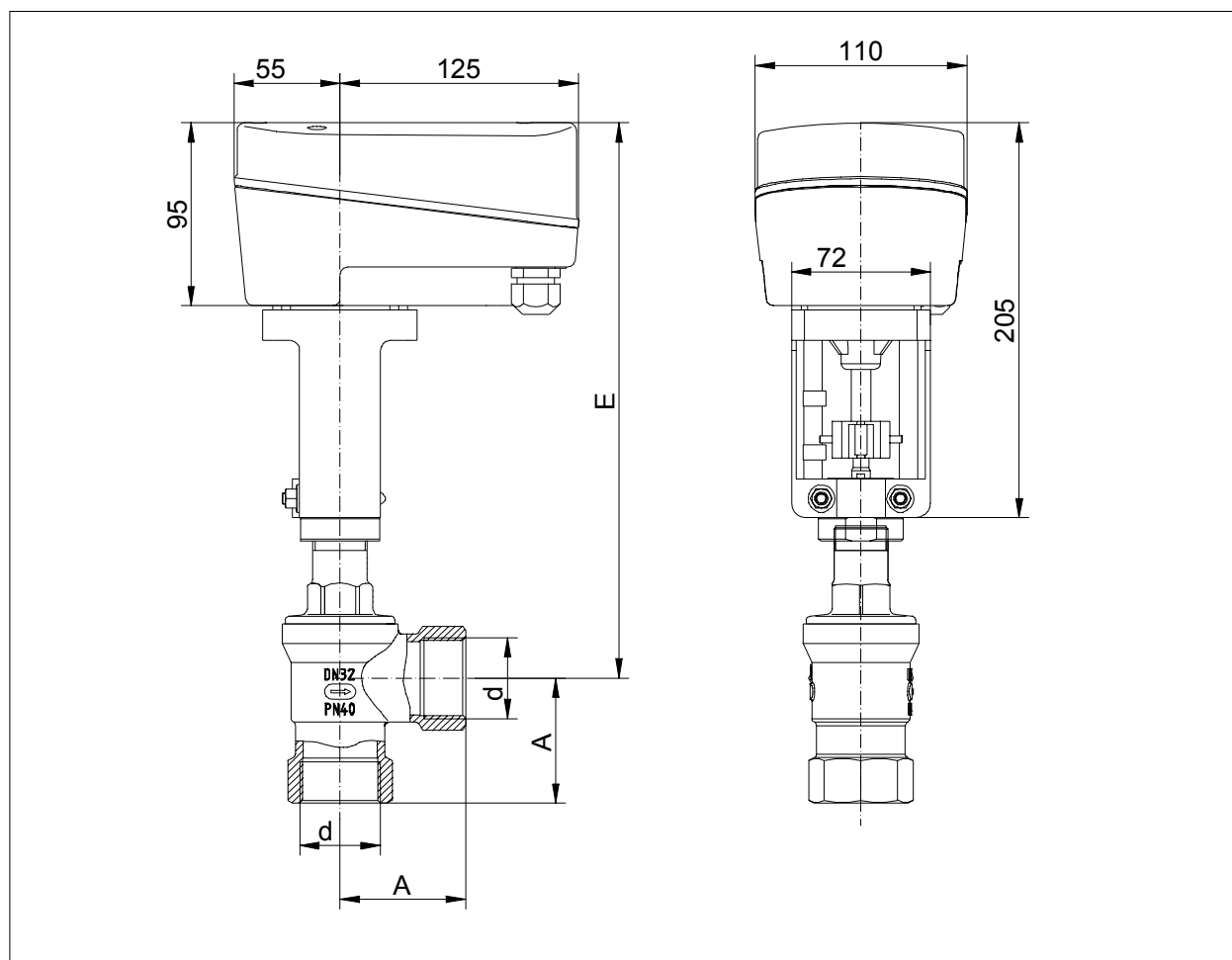
Ordering Number System

Article number											
7250/			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:											
Right angled body valve				7							
Connection:											
Whitworth thread				0							
NPT thread				5							
without thread				6							
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 (3,5s/mm for control actuators - 7,5 s/mm for on-off-actuators)				-							
3,75 s/mm (on-off actuators only)				L							
1,75s/mm (control actuators only), with safety spring return 3,0s/mm				1							
7,0s/mm (control actuators only)				2							
14,0s/mm (control actuators only)				3							

Ordering example: 7250/025VK702031: Right Angled seat compact motor valve type 7250, DN 25, pipe thread acc. 2999/ISO228, 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 %).

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Dimensions and Weights



DN	d	A	B	D	E	Stroke	Weight kg
15	1/2"	41	139	62	261,5	9	2
20	3/4"	41	140	62	262,5	14	2,3
25	1"	41	140,5	62	275,5	18	2,4
32	1 1/4"	65	216,5	144	276	21	3
40	1 1/2"	65	160,5	62	279,5	22	3,2
50	2"	65	240	144	296,5	22	3,8

Dimensions in mm

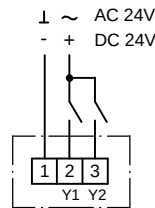
Schematic Wiring Diagrams

On/Off-Actuators

Actuator: BM24

24V AC/DC

3-step drive

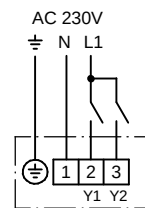


Actuator: BM230, BM115

230V 50/60 Hz

115V 50/60 Hz

3-step drive



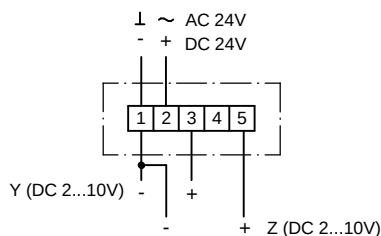
Control Actuators

Actuator: BM24C and BM24C-R

24V AC/DC

input signal 2-10V

feedback signal 2-10V



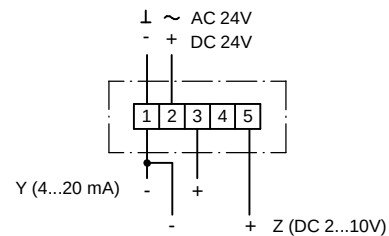
Actuator: BM24C/I and BM24C/I-R

24V AC/DC

input signal 4-20mA

feedback signal 2-10V

BM24C/I, BM24C/I-R



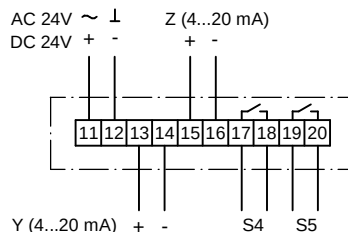
Actuator: BM24C/IOS and BM24C/IOS-R

24V AC/DC

input signal 4-20mA

feedback signal 4-20mA

2 limit switches



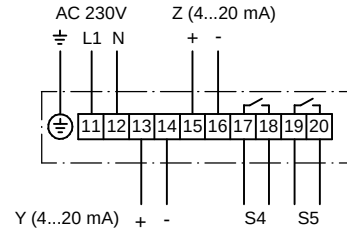
Actuator: BM230C/IOS and BM230C/IOS-R

230V 50/60Hz

input signal 4-20mA

feedback signal 4-20mA

2 limit switches



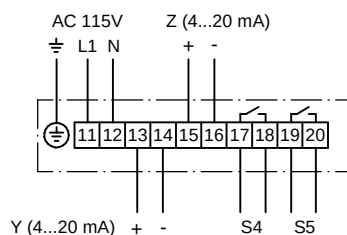
Actuator: BM115C/IOS and BM115C/IOS-R

115V 50/60Hz

input signal 4-20mA

feedback signal 4-20mA

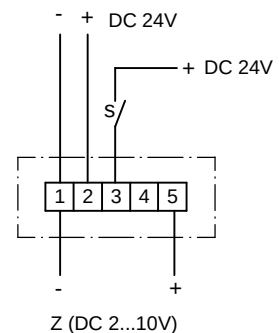
2 limit switches



Actuator: BM24C and BM24C-R

24V DC

feedback signal 2-10V



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

Y: signal, Z: feedback signal

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