

Angle Seat Motor Valve compact

DN 8 up to DN 50

7210

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

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

- Compact design
- Self calibration
- 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

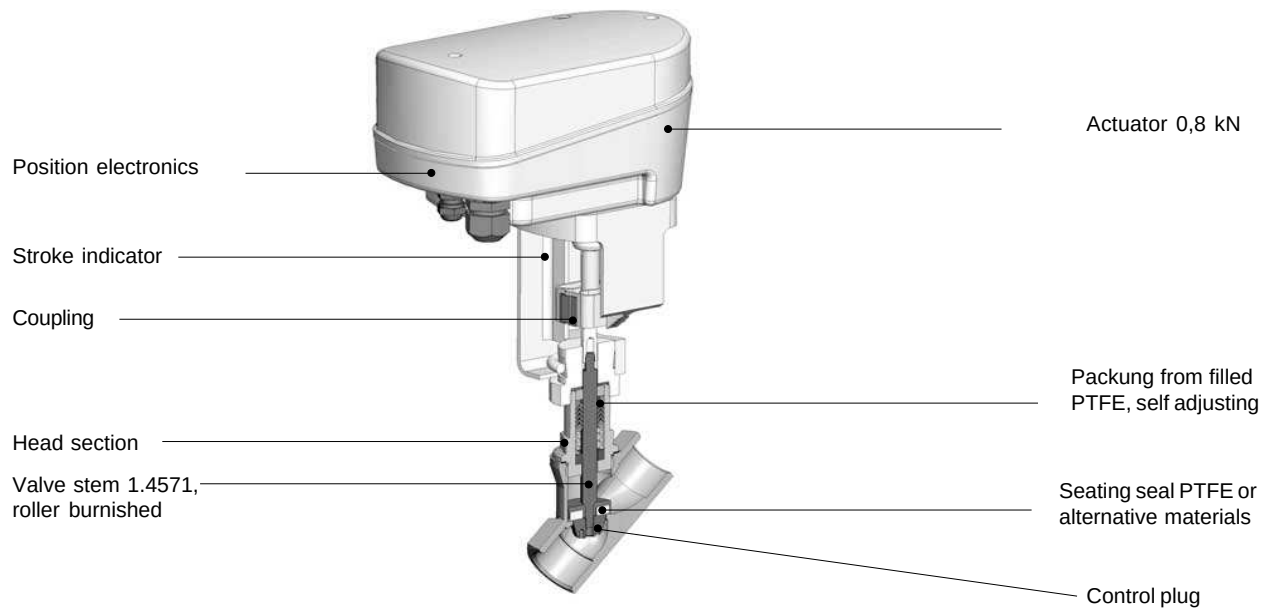
Body material	Bronze CC491K	Stainless steel 1.4408
Nominal size	DN 15 up to DN 50 1/2" up to 2"	DN 8 up to DN 50 1/4" up to 2"
Connections: Pipe threads acc. DIN 2999 NPT thread Welding ends Clamp connections	DN 15 - 50 / 1/2"-2" DN 15 - 50 / 1/2"-2" - -	DN 8 - 50 / 1/4"-2" DN 8 - 50 / 1/4"-2" DN15 - 50 / 1/2"-2" DN15 - 50 / 1/2"-2"
Nominal pressure	PN 16	PN 40
Max. fluid temperature	-30°C up to 200°C	
Viscosity	max. 600 mm²/s (600 cSt)	
Vacuum	max. 0,001 bar,abs. / 0,015 psia	
Operating pressure packing underneath	max. 12 bar / 174 psig	

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,
Москва (495)268-04-70, Санкт-Петербург (812)309-46-40
Единый адрес: ssr@nt-rt.ru
www.ssalzer.nt-rt.ru

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Admissible Differential Pressures

	p max [bar]													
Nominal size	DN8		DN15		DN20		DN25		DN32		DN40		DN50	
	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control
Stainless steel body	40	16	40	16	20	16	12	12	7	7	4,8	4,8	2,8	2,8
Bronze body	-	-	16	-	16	-	12	-	7	-	4,8	-	2,8	-

K_{vs}-Values

Characteristic	linear							equal percentage						
DN	8	15	20	25	32	40	50	8	15	20	25	32	40	50
100 %	0,6	3,8	8,8	14	20	27	41	0,6	3	6	10	16	25	-
40 %	0,24	1,5	3,5	5,8	8	11	-	-	1,2	2,4	4	6	10	-
25 %	0,15	0,93	2,2	3,6	-	-	-	-	0,8	1,5	2,6	-	-	-
15 %	-	-	-	-	-	-	-	-	0,46	-	-	-	-	-
10 %	-	0,4	-	-	-	-	-	-	-	-	-	-	-	-
7,5 %	-	-	-	-	-	-	-	-	0,23	-	-	-	-	-
On-Off	0,95	3,8	9	17	28	35	45							

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Ordering Number System

Article number											
7210/			K							S	
Nominal size:											
DN 8 (only with seating seal PEEK)	008										
DN 15	015										
DN 20	020										
DN 25	025										
DN 32	032										
DN 40	040										
DN 50	050										
Item:											
Valve	V										
Valve without actuator	U										
Actuator	A										
Body design:											
Angle bodied	1										
Connection:											
Whitworth-thread	0										
NPT thread	5										
without thread	6										
Welding ends acc. ISO	H										
Welding ends acc. DIN 11850	D										
Body material:											
Bronze	1										
Stainless steel	2										
Seating seal:											
PTFE	0										
FKM (Viton)	1										
EPDM	2										
NBR	3										
PEEK	7										
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 3,0s/mm	1										
7,0 s/mm (control actuators only)	2										
14,0 s/mm (control actuators only)	3										

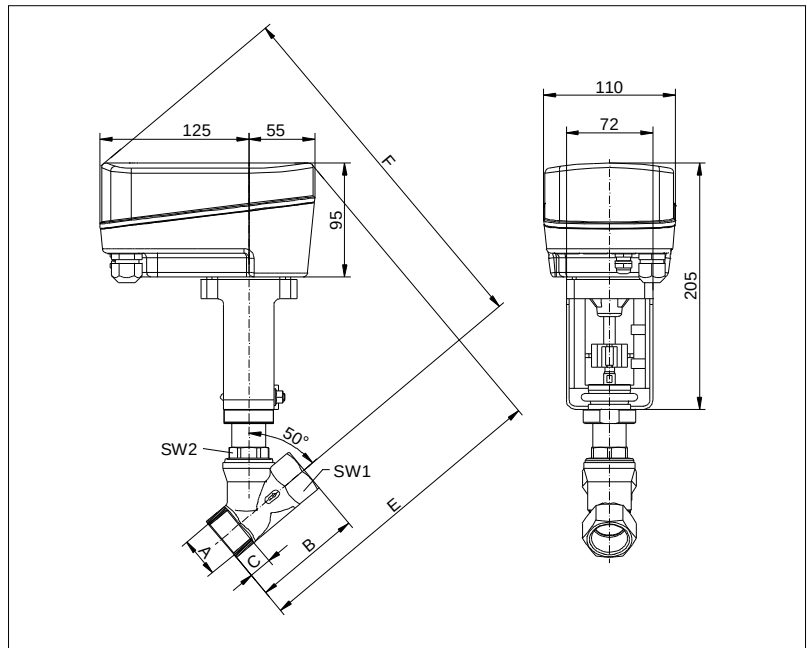
Ordering example:

7210/025VK102031: Angle seat motor valve type 7210, 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 %).

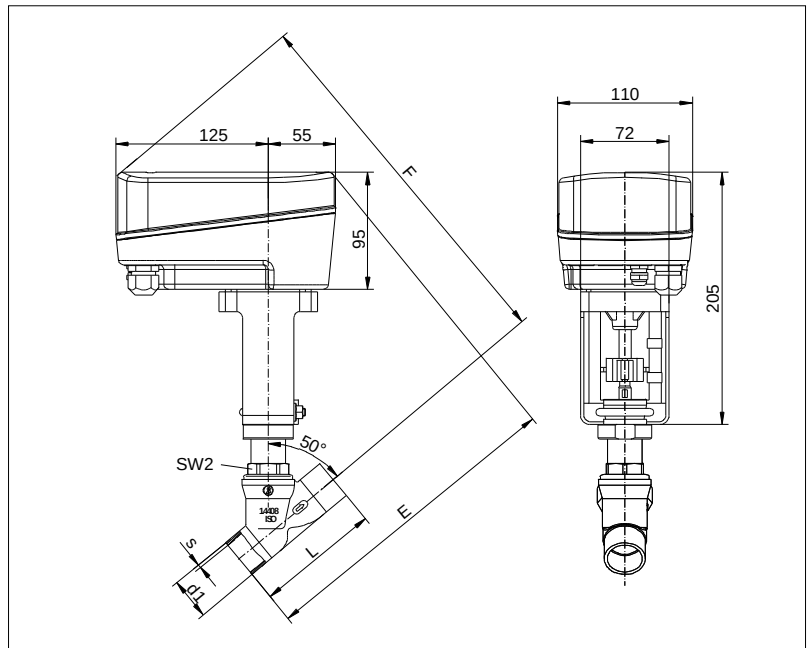
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Dimensions and Weights

Body with threaded ends Rp/NPT



Body with welding ends DIN/ISO



DN	A	C		ISO		DIN		B	L	E	F	SW1	SW2	Stroke	Weight kg
	Rp / NPT	Rp	NPT	d1	s	d1	s	Rp/NPT	DIN/ISO						
08	1/4"	12	10,7	-	-	-	-	60	-	251	296	20	30	8,5	1,9
15	1/2"	15	14,5	21,3	2	18	1,5	65	80	300	255	25	30	9	2
20	3/4"	16,3	15	26,9	2,3	22	1,5	75	90	310	255	31	30	14	2,2
25	1"	19,1	18	33,7	2,6	28	1,5	90	100	315	260	39	30	18	2,4
32	1 1/4"	21,4	18,5	42,4	2,6	34	1,5	110	110	330	275	48	30	21	2,8
40	1 1/2"	21,4	18,5	48,3	2,6	40	1,5	120	120	340	280	55	30	22	3,1
50	2"	25,7	19	60,3	2,9	52	1,5	150	150	350	290	68	32	22	3,7

Other body designs on request

Dimensions in mm

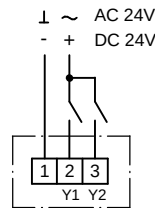
Schematic Wiring Diagrams

On/Off-Actuators

Actuator: BM24

24V AC/DC

3-step drive

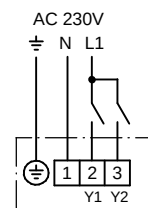


Actuator: BM230, BM115

230V 50/60 Hz

115V 50/60 Hz

3-step drive



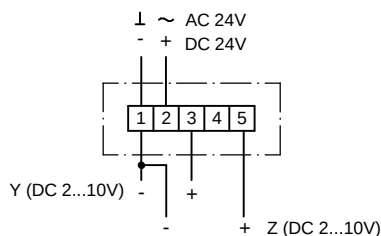
Control Actuators

Actuator: BM24C and BM24C-R

24V AC/DC

input signal 2-10V

feedback signal 2-10V



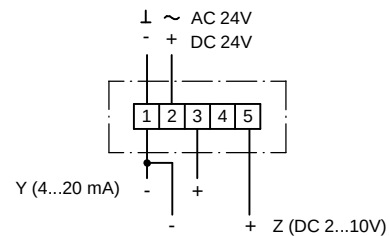
Actuator: BM24C/I and BM24C/I-R

24V AC/DC

input signal 4-20mA

feedback signal 2-10V

BM24C/I, BM24C/I-R



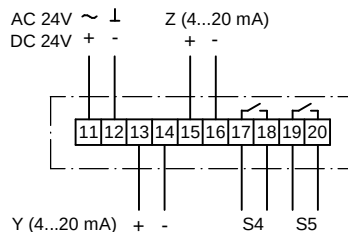
Actuator: BM24C/IOS and BM24C/IOS-R

24V AC/DC

input signal 4-20mA

feedback signal 4-20mA

2 limit switches



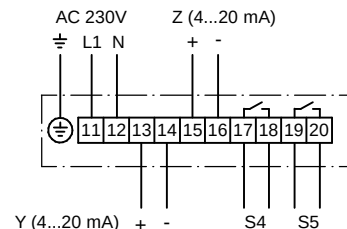
Actuator: BM230C/IOS and BM230C/IOS-R

230V 50/60Hz

input signal 4-20mA

feedback signal 4-20mA

2 limit switches



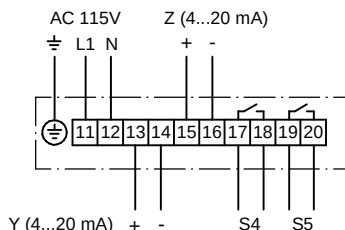
Actuator: BM115C/IOS and BM115C/IOS-R

115V 50/60Hz

input signal 4-20mA

feedback signal 4-20mA

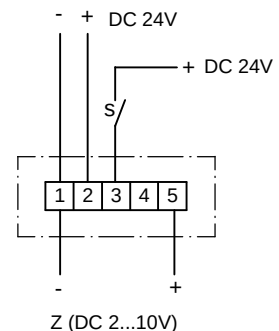
2 limit switches



Actuator: BM24C and BM24C-R

24V DC

feed back signal 2-10V



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

Y: signal, Z: feedback signal

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