

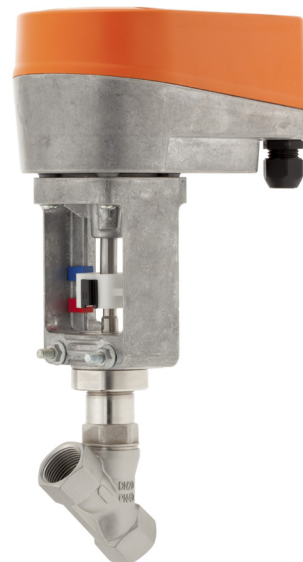
Angle Seat Motor Valve compact 7210

DN 8 up to DN 50

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



 **TÜVRheinland®**
TA-Luft zertifiziert

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. ISO 228-1	DN 15 - 50 / 1/2"-2"	DN 8 - 50 / 1/4"-2"
NPT thread	DN 15 - 50 / 1/2"-2"	DN 8 - 50 / 1/4"-2"
Welding ends	-	DN15 - 50 / 1/2"-2"
Clamp connections		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/IOS2	BM250C/IO2	BM24	BM115	BM230
Function	Control	Control	Control	Control	On/Off	On/Off	On/Off
Nominal voltage	24 V AC/DC	24 V AC/DC	20-30V AC 20-45V DC	85-250V AC 120-250V DC	24 V AC/DC	115V AC	230 V AC
Set point	2 - 10 V	4 - 20 mA	4 - 20 mA	4 - 20 mA	3-step	3-step	3-step
Load	100 kOhm	500 Ohm	500 Ohm	500 Ohm	-	-	-
Position feedback	2 - 10 V	2 - 10 V	4 - 20 mA	4 - 20 mA	-	-	-
external load	-	-	< 700 Ohm	< 700 Ohm	-	-	-
limit switches	-	-	2 x	2 x	-	-	-
max. switching load	-	-	24V AC/DC 70mA	24V AC/DC 70mA	-	-	-
Power consumption	3 W	3 W	3 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	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						

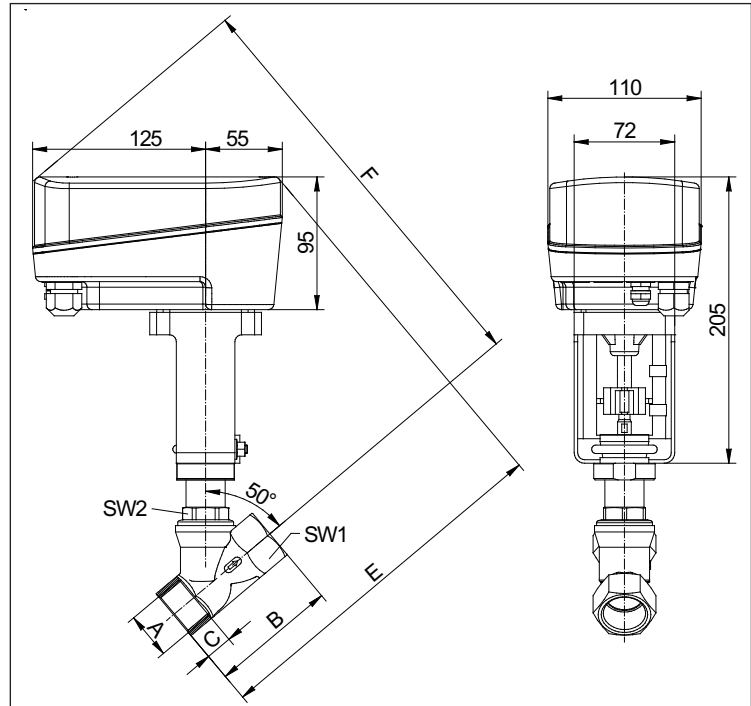
SCHUBERT & SALZER
CONTROL
SYSTEMS

		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 BM250C/IOS2 85-250V AC/ 120-250V DC- control electr. 4-20mA - feedb. 4-20mA -2 limit switch.		0													
Control actuator BM24C - 24V AC/DC - control electronics 2-10V - feedback 2-10V		1													
Control actuator BM24C/I - 24V AC/DC - control electronics 4-20mA - feedback 2-10V		2													
On-Off actuator BM24 - 24V AC/DC		6													
On-Off actuator BM230 - 230V AC		7													
On-Off actuator BM115 - 115V AC		8													
Control actuator BM24C/IOS2 20-30V AC/ 20-45V DC- control electr. 4-20mA - feedback 4-20mA -2 limit switches		9													
Control plug:															
without		-													
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)		-													
4,5 s/mm (on-off actuators only)		L													
1,75 s/mm (control actuators only), with safety spring return 3,0s/mm		1													
7,0 s/mm (control actuators only)		2													
14,0 s/mm (control actuators only)		2													

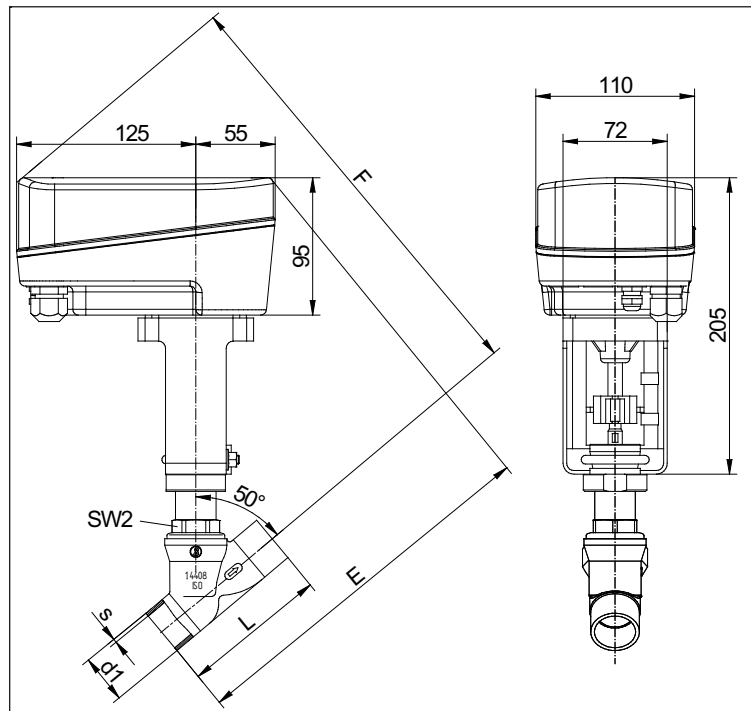
Ordering example: 7210/025VK102021
Angle seat motor valve type 7210, DN 25, pipe thread acc. ISO228-1, stainless steel body, seating seal PTFE, control actuator BM24C/I, 24V AC/DC, 0,8 kN, control electronics 4-20 mA, position feedback 2-10V, linear characteristic, Kvs-value 14 (100 %).

Dimensions and Weights

Body with threaded ends Rp/NPT



Body with welding ends DIN/ISO

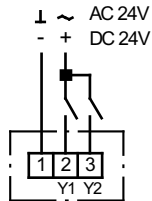


DN	A G / NPT	C G	NPT	ISO d1	s	DIN d1	s	B G / NPT	L DIN/ISO	E	F	SW1	SW2	Stroke	Weight kg
08	1/4"	12	10,7	-	-	-	-	60	-	245	295	20	30	8,5	1,9
15	1/2"	15	14,5	21,3	2	18	1,5	65	80	250	295	25	30	9	2
20	3/4"	16,3	15	26,9	2,3	22	1,5	75	90	255	300	31	30	14	2,2
25	1"	19,1	18	33,7	2,6	28	1,5	90	100	260	305	39	30	18	2,4
32	1 1/4"	21,4	18,5	42,4	2,6	34	1,5	110	110	280	325	48	30	21	2,8
40	1 1/2"	21,4	18,5	48,3	2,6	40	1,5	120	120	285	325	55	30	22	3,1
50	2"	25,7	19	60,3	2,9	52	1,5	150	150	300	330	68	32	22	3,7

On/Off-Actuators

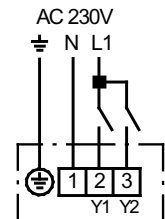
Actuator: BM24

24V AC/DC
3-step drive



Actuator: BM230, BM115

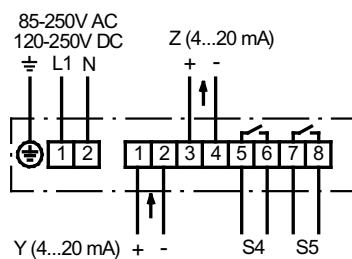
230V 50/60 Hz
115V 50/60 Hz
3-step drive



Control Actuators

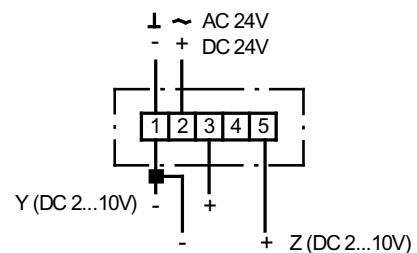
Actuator: BM250C/IOS2, BM230C/IOS2-R

85-250V AC 120-250V DC
input signal 4-20mA
feedback signal 4-20mA
2 limit switches



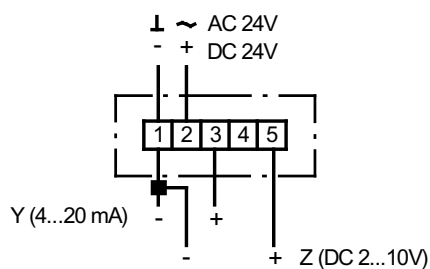
Actuator: BM24C, BM24C-R

24V AC/DC
input signal 2-10V
feedback signal 2-10V



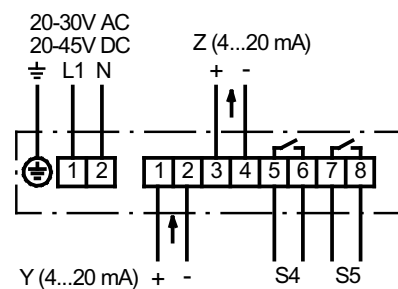
Actuator: BM24C/I, BM24C/I-R

24V AC/DC
input signal 4-20mA
feedback signal 2-10V



Actuator: BM24C/IOS2

20-30V AC 20-45V DC
input signal 4-20mA
feedback signal 4-20mA
2 limit switches



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

Y: signal, Z: feedback signal