Flanged Motor Valve compact 7232

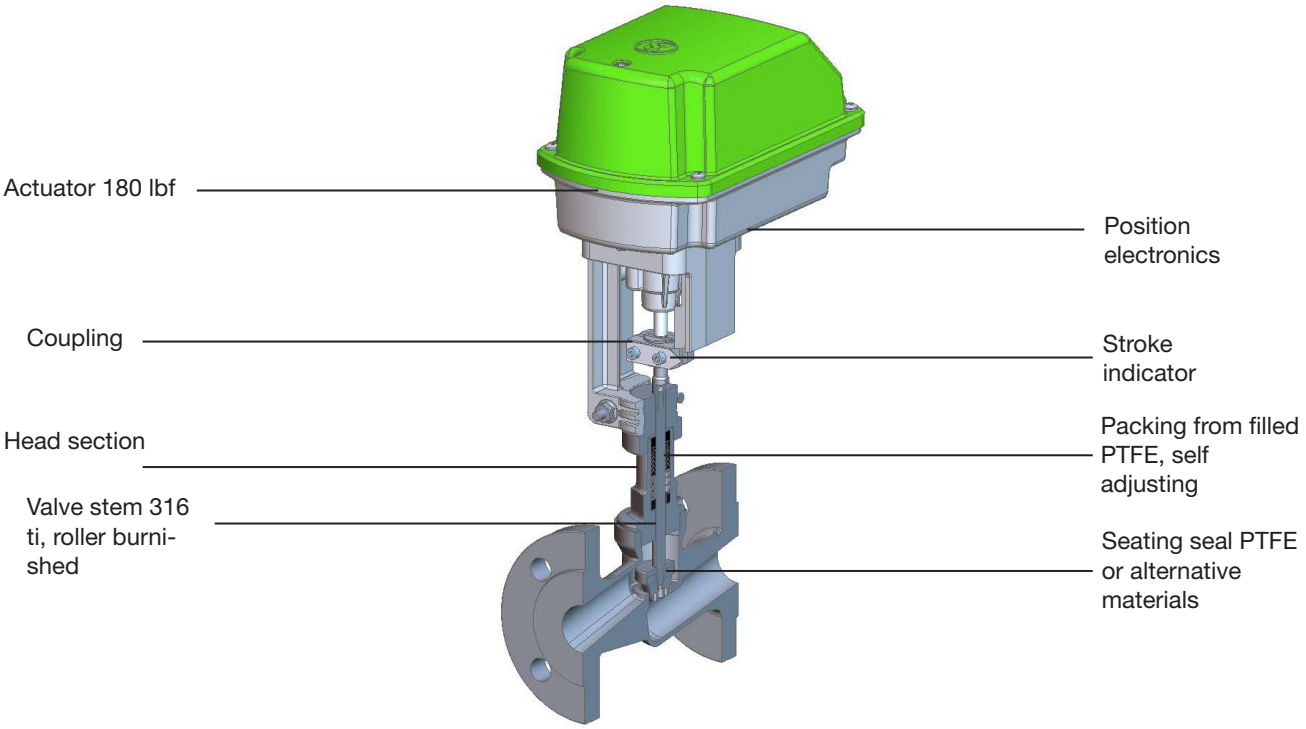
1/2“ up to 2“

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

- Compact design
- Self adaption
- Unaffected by lightly contaminated media
- For temperatures from -58 °F up to 428 °F
- Working pressure up to 580 psi
- Versatile actuator options
- Actuators with control function also available with safety position

Technical Information Valve

Body materials	Stainless steel CF8M
Nominal sizes	1/2“ up to 3“
Connection	Flanges acc. DIN 2635
Dimension	acc. DIN EN558-1 Row 1
Nominal pressure	580 psi
Max. fluid temperature	-148 °F up to +392 °F
Viscosity	max. 600 mm²/s (600 cSt)
Vacuum	max. 0,0295 mercury (Hg)
Operating pressure packing underneath	max. 175 psi



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Technical Information CA-Actuator

Function	Control				On/Off	
Motor type	CA24C	CA260C	CA24C-R	CA260C-R	CA24	CA260
Mains connection	24 V AC/DC	100-240 V AC	24 V AC/DC	100-240 V AC	24 V AC/DC	100-240 V AC
Set point range	(0)2-10 V / (0)4-20 mA				3-point**	
Mains frequency	50/60 Hz				50/60 Hz	
Feedback	(0)2-10 V / (0)4-20 mA				optional	
Dead band	±0.6 % of the entire stroke				-	
Repeatability	±0.3 % of the entire stroke				-	
Limit switch	2				optional	
Potentiometer feedback	-				optional	
Max. switching capacity	24 V AC/DC 200 mA				250 V AC/DC 1 A	
Actuating speed	38.1 / 50.8 / 76.2 s/inch (Standard: 50.8 s/inch)				50.8 or 76.2 s/inch (Standard: 76.2 s/inch)	
Safety functions	Monitoring of tensile force, set point, temperature of the electronics, etc.				Tensile force monitoring	
Diagnostic functions	Storage of motor and total operating time, temperature and directional classes, etc.				-	
Fail Safe position	-	-	freely adjustable		-	
Load	500 Ω for current set point / 95 kΩ for voltage set point				-	
Max. power consumption	13 W	12 W	13 W	12 W	13 W	12 W
Input heating resistor	10 W					
Starting current	6 A	2.5 A	6 A	2.5 A	6 A	2.5 A
Actuating power	180 lbf					
Protection class (EN 60529)	IP 65***					
Adm. Ambient temperature	14 °F to +140 °F					
Duty cycle	100 %					

* for control with volt-signal split range adjustments are possible

** Minimum on-time 200 ms

*** Dustproof, protected against water jets from any angle

Wiring diagrams of the actuators can be found in the manual.

Cvs-Values (stroke)

Characteristic	linear								equal percentage							
Size	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“	2 1/2“	3“	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“	2 1/2“	3“
100 %	3,7 (0.34)	6,7 (0.36)	12.5 (0.56)	18.6 (0.75)	25.5 (0.72)	39.4 (0.79)	49 (18,5)	69.6 (0.79)	3.5 (0.34)	6.3 (0.36)	11.6 (0.56)	18 (0.76)	23.2 (0.72)	-	44 (0.79)	58 (0.79)
63%	-	4.1 (0.24)	-	11.6 (0.44)	15.3 (0.48)	23.3 (0.44)	13,2 (0.79)	-	-	3.8 (0.28)	-	10.8 (0.48)	13.9 (0.52)	-	27.8 (0.79)	
40 %	1.5 (0.26)	2.7 (0.24)	5 (0.24)	7.4 (0.28)	10.2 (0.32)	-			1.5 (0.34)	2.6 (0.28)	4.6 (0.36)	7.2 (0.44)	9.3 (0.48)	-		
25 %	0.9 (0.26)	-	3.1 (0.24)	-	-	-			0.9 (0.34)	-	3.1 (0.36)	-	-	-		
On-Off	3.9 (0.34)	7.5 (0.36)	12.8 (0.56)	19.7 (0.76)	29 (0.72)	46.4 (0.8)	55.7 (0.79)	76.6 (0.79)								

Admissible Differential Pressures

For seating seal made of PTFE or other soft gaskets

Nominal size	p max (psi)											
	1/2“		3/4“		1“		1 1/4“		1 1/2“		2“	
	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control
Stainless steel body	580	232	290	232	174	174	102	102	69	69	40	40
Body stainless steel pressure balanced	-	-	-	-	-	-	-	-	-	-	-	-

Nominal size	p max [bar]			
	2 1/2“		3“	
	On/off	Control	On/off	Control
Stainless steel body	18	18	11	11
Body stainless steel pressure balanced	85	85	165	165

For seating seal made of PEEK

Nominal size	p max (psi)											
	1/2“		3/4“		1“		1 1/4“		1 1/2“		2“	
	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control	On/off	Control
Stainless steel body	580	232	268	232	144	144	77	77	45	45	22	22
Body stainless steel pressure balanced	-	-	-	-	-	-	-	-	-	-	-	-

Nominal size	p max [bar]			
	2 1/2“		3“	
	On/off	Control	On/off	Control
Stainless steel body	3	3	-	-
Body stainless steel pressure balanced	17	17	-	-

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Ordering Number System

Article number 7232/			K						S		
Nominal size:											
1/4“ (DN 15)	015										
3/4“ (DN 20)	020										
1“ (DN 25)	025										
1 1/4“ (DN 32)	032										
1 1/2“ (DN 40)	040										
2“ (DN 50)	050										
2 1/2“ (DN 65)	065										
3“ (DN 80)	080										
Item:											
Valve		V									
Upper part		U									
Actuator		A									
Body design:											
Flanged valve			9								
Connection:											
Flanges acc. ASME B 16.5				1							
Body material:											
Stainless steel					2						
Seating seal:											
PTFE						0					
FKM (Viton)						1					
EPDM						2					
NBR						3					
PEEK for applications above 320°F						8					
Actuator:											
Control actuator CA24C, 24 V AC/DC, with position electronic, stanard adjustment: control signal 4-20 mA, feedback 4-2 0mA, 2 limit switch							C				
Control Actuator CA260C, 100-240 V 50/60 Hz, with position electronic, Standard adjustment 4-20 mA, feedback 4-20 mA, 2 limit switch							D				
On-Of (3-point) actuator CA24, 24 V AC/DC							E				
On-Off (3-point) actuator CA260, 100-240 V, 50/60 Hz							F				
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										-	
Fail-Safe: normally closed at power failure										2	
Fail-Safe: normaly open at power failure										3	
Stroking times											
Standard (51 s/inch for control actuators - 76 s/inch for on-off-actuators)											-
76 s/inch											4
38 s/inch											5

Ordering example: 7232/025VK912021
Flanged compact motor valve type 7232, DN 25, flanges acc. DIN 2635, stainless steel body, seating seal PTFE, control actuator BM24C/I, 24 V AC/DC, 0,8 kN, control electronics 4-20 mA, position feedback 2-10 V, linear characteristic, Kvs-value 14 (100 %).

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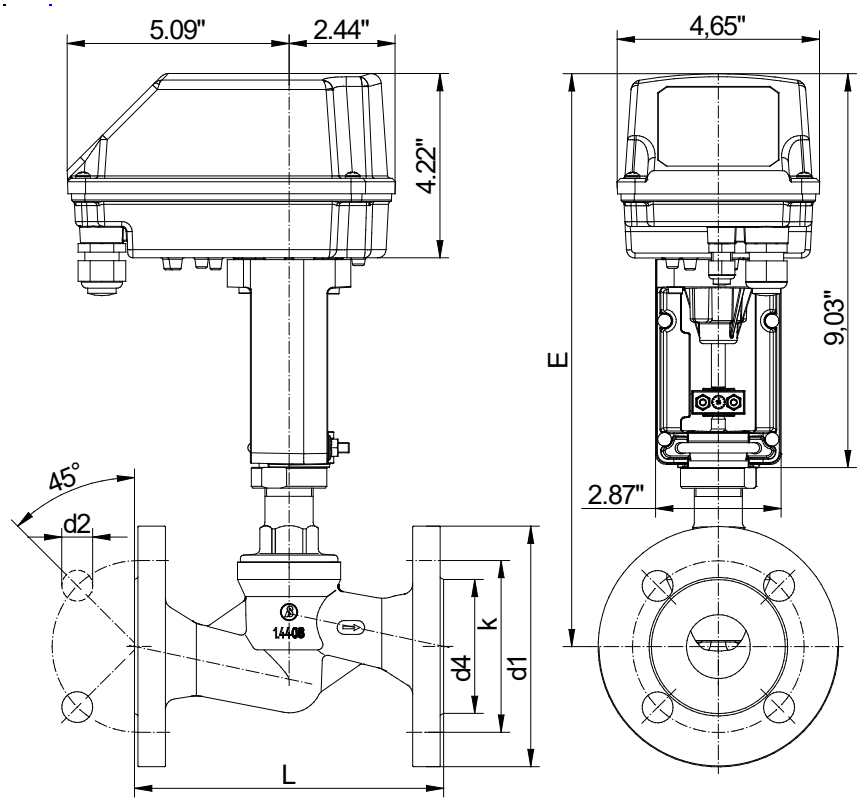
Dimensions and Weights for CA-actuators



Size	L	d1	d2	d4	k	E	Stroke	Weight lbs
1/2“	5,1	3,74	0,55	1,77	2,38	12,15	0,35	7,5
3/4“	5,9	4,135	0,55	2,285	2,75	12,3	0,55	9,5
1“	6,3	4,53	0,55	2,675	3,12	13	0,71	10,8
1 1/4“	7,1	5,51	0,71	3,07	3,5	13,15	0,83	14,3
1 1/2“	7,85	5,905	0,71	3,465	3,88	13,4	0,87	16,9
2“	9,05	6,495	0,71	4,015	4,75	14,35	0,87	20,9

Dimensions in inch

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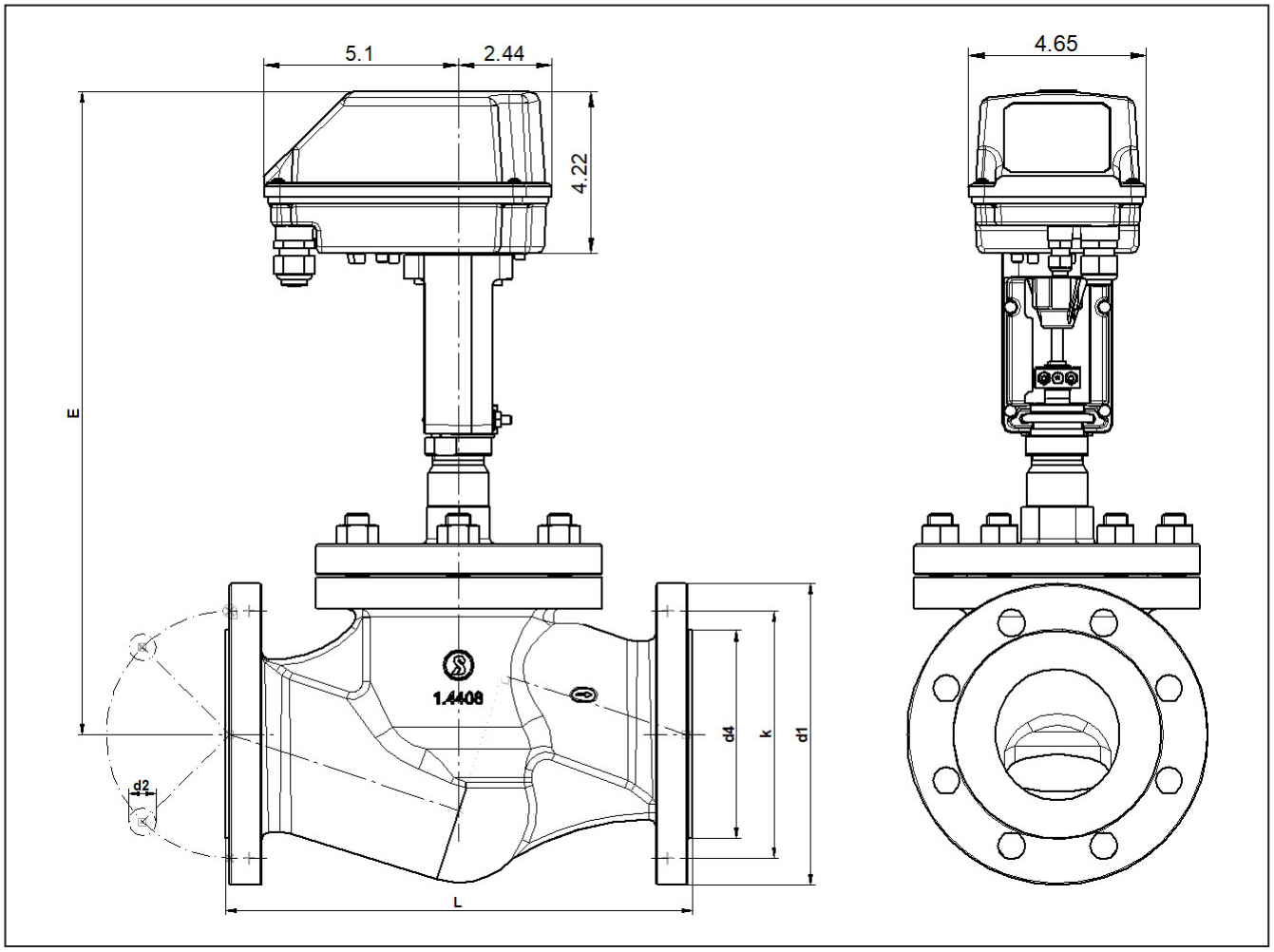
Dimensions and weights for actuator 2032



size	L	d1	d2	d4	k	E	stroke	weight kg
2 1/2“	11.42	7.28	0.71	4.80	5.71	16.93	0.73	30
3“	12.20	7.78	0.71	4.80	6.30	17.52	0.79	36

Dimensions in inch

Text and pictures are not binding. We reserve the right, to alter the equipment.