

# 3/2-Way Motor Valve compact 7280

DN 15 up to DN 40

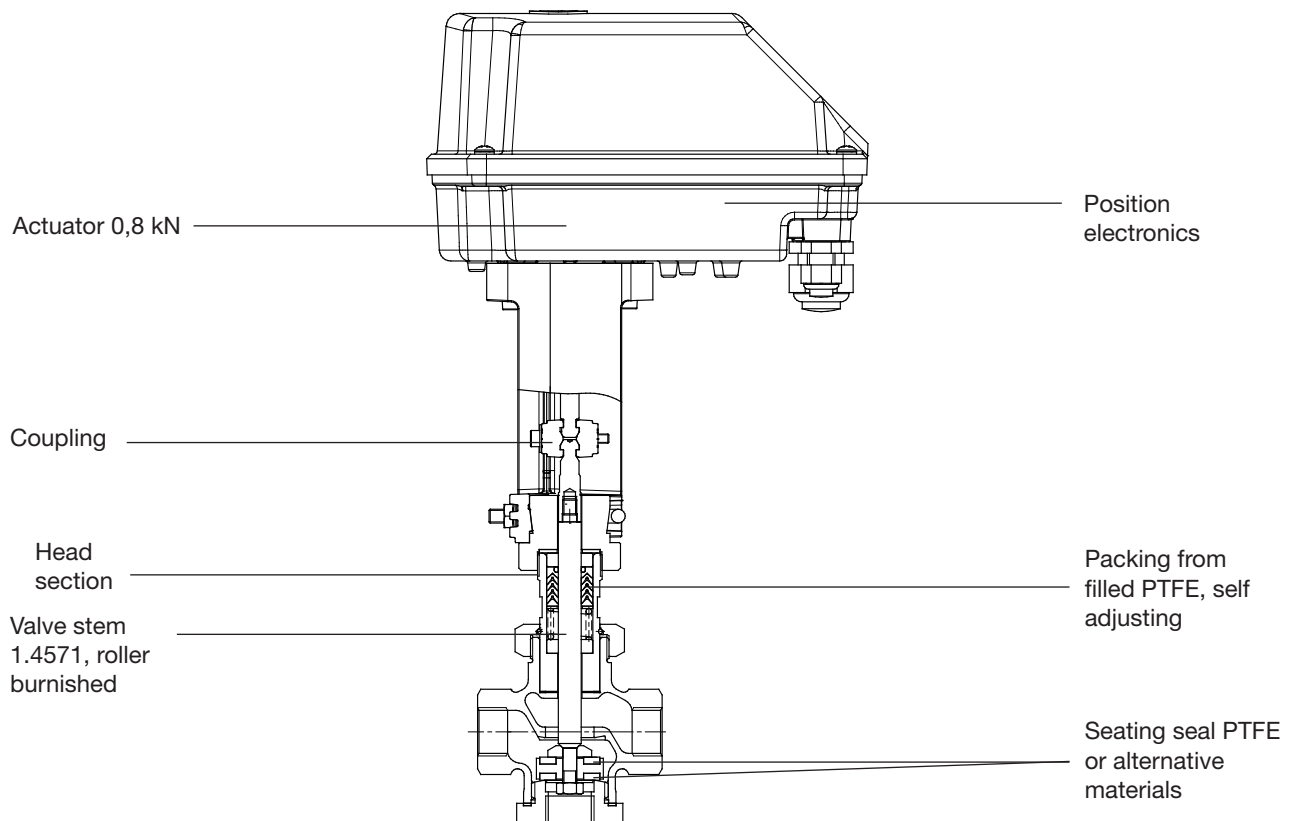
**3/2-Way Compact Motor Valve for distributing function, mixing function and modulating operation for neutral and aggressive media**

- Compact design
- Self calibration
- Unaffected by lightly contaminated media
- For temperatures from -40°C up to +200°C
- Versatile actuator options
- Actuators with control function also available with safety position



## Technical Information Valve

Body material	Bronze CC491K
Nominal size	DN 15 up to DN 40
Connections	Pipe thread acc. ISO 228-1 NPT thread
Nominal pressure	PN 16
Media temperature	-30°C up to +200°C, opt. -40°C up to +200°C
Viscosity of media	max. 600 mm <sup>2</sup> /s (600cSt, 80°E)
Packing leakage	tested according to TA-Luft as defined in DIN EN ISO 15848-1 and VDI 2440



## Technical Information CA-Actuator

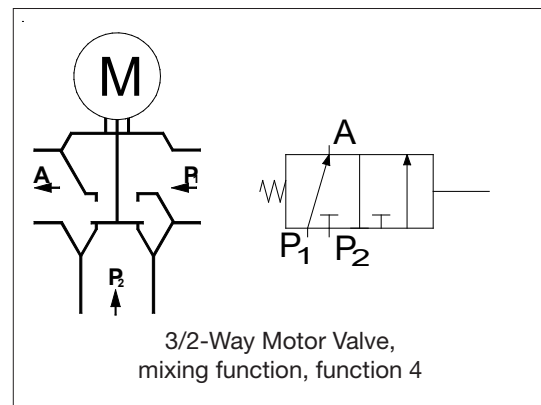
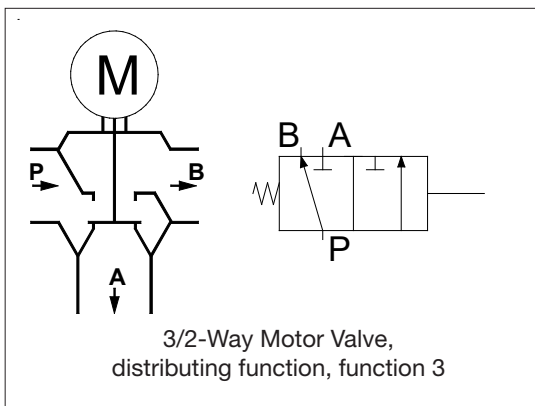
Function	Control				On/Off	
	CA24C	CA260C	CA24C-R	CA260C-R	CA24	CA260
Motor type	24V AC/DC	90-260V AC	24V AC/DC	90-260V AC	24V AC/DC	90-260V AC
Mains connection	24V AC/DC	90-260V AC	24V AC/DC	90-260V AC	24V AC/DC	90-260V AC
Set point range	(0)2-10V / (0)4-20mA				3-term**	
Feedback	(0)2-10V / (0)4-20mA				optional	
Limit switch	2				optional	
Potentiometer feedback	-				optional	
Max. switching capacity	24V AC/DC 200 mA				250V AC/DC 1A	
Actuating speed	1.5 / 2 / 3 s/mm (Standard: 2 s/mm)				2 or 3 s/mm (Standard: 3 s/mm)	
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. input	13 W	12 W	13 W	12 W	13 W	12 W
Input heating resistor	10 W					
Starting current heating resistor	6 A	2,5 A	6 A	2,5 A	6 A	2,5 A
Actuating power	800 N					
Protection class (EN 60529)	IP 65					
Adm. Ambient temperature	-10°C to +60°C					
Duty cycle	100%					

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

\*\*: minimum switch on time 200ms

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

## Versions



## Kvs-Values

DN	P-B	P-A	P1-A	P2-A
15	5,5	5,3	5,7	5,3
20	7,4	8,7	7,3	9,5
25	12,3	12,5	12,6	14
32	24,4	20	25,5	21
40	26,6	23	30,3	23,3

## Admissible Differential Pressures

Nominal size	Differential pressure max. (bar)				
	DN15	DN20	DN25	DN32	DN40
	15	15	8	3	3

# 3/2-Way Motor Valve compact 7280



## Ordering Number System

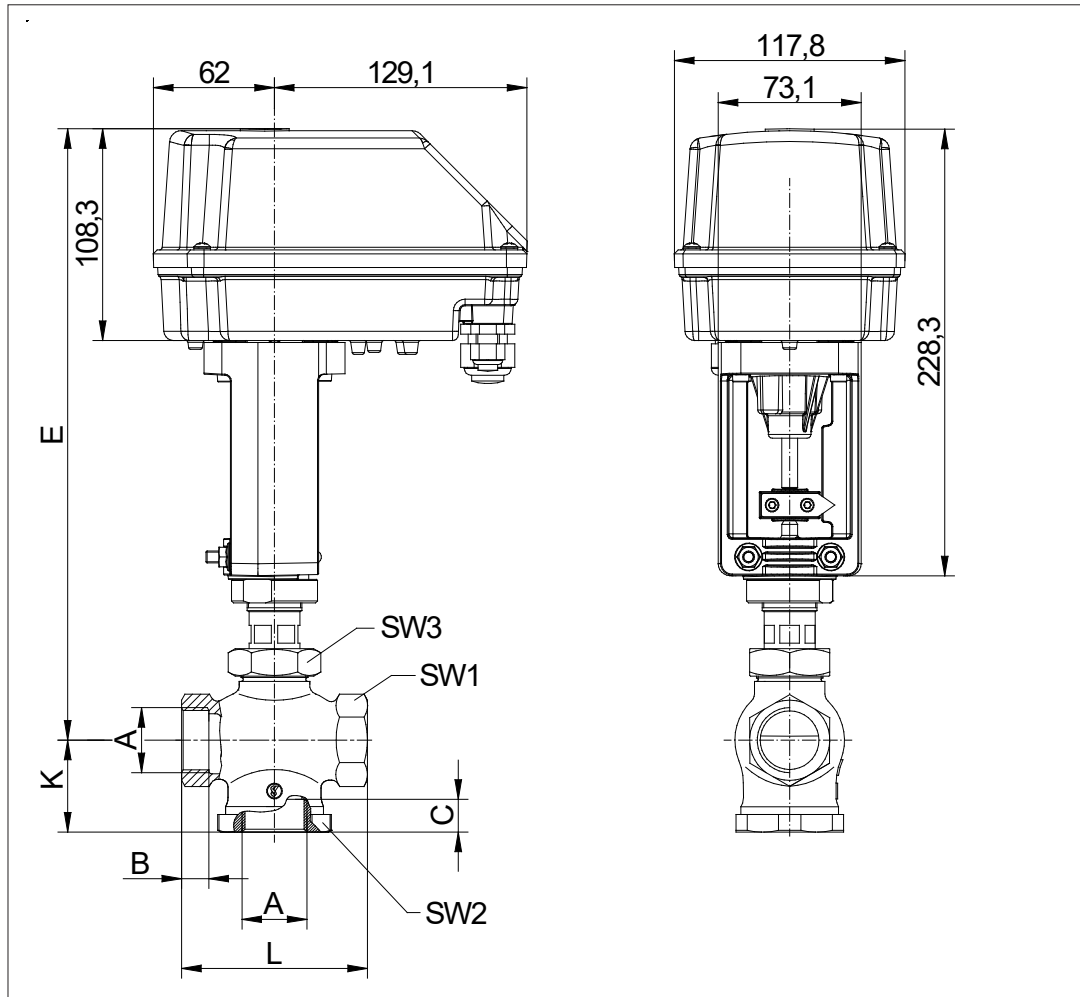
		Article number										
		7280/			K						S	
Nominal size:												
DN 15		015										
DN 20		020										
DN 25		025										
DN 32		032										
DN 40		040										
Item:												
Valve		V										
Valve without actuator		U										
Actuator		A										
Body design:												
3/2-Way Motor Valve, distributing function					3							
3/2-Way Motor Valve, mixing function					4							
Connection:												
Withworth-thread					0							
NPT thread					5							
Body material:												
Bronze					1							
Seating seal:												
PTFE					0							
Actuator:												
Control actuator CA24C, 24V AC/DC, with position electronic, stanard adjustment: control signal 4-20mA, feedback 4-										C		
Control Actuator CA260C, 90-260V 50/60Hz, with position electronic, Standard adjustment 4-20mA, feedback 4-20mA, 2										D		
On-Of (3-point) actuator CA24, 24V AC/DC										E		
On-Of (3-point) actuator CA260, 90-260V, 50/60Hz										F		
Control plug:												
without										-		
Safety position:												
without safety position											-	
Spindle travelling into valve, set point time < 1.5 mm/sec											0	
Spindle travelling out of valve, set point time < 1.5 mm/sec											1	
Stroking times:												
Standard (2 s/mm for control actuators - 3 s/mm for on-off-actuators)												-
3 s/mm												4
1,5 s/mm												5

### Ordering example:

7280/025VK4010C

3/2-Way compact Motor valve Type 7280, DN 25, pipe thread acc. DIN 2999/ISO228, bronze body, seating seal PTFE, control actuator BM24C/I, 24V AC/DC, control electronics 4-20 mA, position feedback 2-10V

## Dimensions and Weights BM-actuators



DN	A Rp / NPT	C Rp	C NPT	E	stroke	K	L	SW1	SW2	SW3	weight kg
15	1/2"	15	14,5	360,5	9	39	90	33	41	41	2,9
20	3/4"	16,3	15	360,5	9	42	90	33	41	41	2,9
25	1"	19,1	18	373	11	47	110	41	55	41	3,3
32	1 1/4"	21,4	18,4	388	11	61	130	58	75	41	4,2
40	1 1/2"	19	19	388	18,5	61	132	58	75	41	4,2

Dimensions in mm