

Poppet valve with electric actuator Series SEC07, SE15



Design type	Poppet valve or rather Seat control valve with electric actuator, automatic overload protection and End position shut-off
Connection	Flanges DN15...DN50 / DIN2635-PN40
Materials	Housing Stainless steel 1.4408, Standard seat seal PTFE
Application range	gaseous and liquid media (also slightly contaminated), that do not attack the materials used
Viscosity of the medium	max. 600mm ² /s (600cSt)
Medium temperature	-30...+200°C
Ambient temperature	-10...+60°C
Operating pressure	Vacuum up to 0,001bar absolute, see table
Mounting type	Installation in rigid piping system
Mounting position	any, except hanging downward

Electrical data:

Voltage type	AC and DC voltage
Standard voltage	see table "Motor data"
Electrical Connection	via cable gland M20x1,5 or rather M12x1,5
End position shut-off	via internal electronics
Duty cycle	100% Duty cycle (continuous operation)
Degree of protection	IP65 according to EN 60529 with properly installed cable entry (protection against dust ingress and splash water)
Actuation	3-point control, (0)4...20mA or rather (0)2...10V
Special version	Control actuator with fail-safe position, 2-point control, other switching times
Accessories	Actuator heater, Limit switch, Position electronics, Control actuator with spring return, Position feedback



Kvs values [m³/h Water]

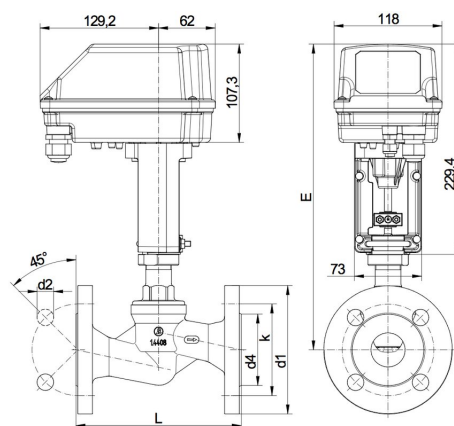
Characteristic curve	linear				equal percentage				Open/Close
Nominal size DN [mm]	100%	63%	40%	25%	100%	63%	40%	25%	
15	3,2	-	1,3	0,8	3	-	1,3	0,75	3,4
20	5,8	3,5	2,3	-	5,4	3,3	2,2	-	6,5
25	10,8	-	4,3	2,7	10	-	4	2,7	11
32	16	10	6,4	-	15,5	9,3	6,2	-	17
40	22	13,2	8,8	-	20	12	8	-	25
50	34	20,1	13,4	-	-	-	-	-	40

Order code

Seat control valve SEC07 Poppet valve SE15 - 15 - S T E04 - 01									
Type									
Connection type	none specification, if flange DIN2635-PN40								
Connection	DN15	15							
	DN20	20							
	DN25	25							
	DN32	32							
	DN40	40							
	DN50	50							
Materials	Stainless steel 1.4408 (DN8 - DN50)		S						
Seat seal	EPDM		E						
	NBR		N						
	PTFE		T						
	FKM		V						
Actuator	Control drive CA260C		EC6						
	Control drive CA24C		EC7						
	On-off actuator CA24		E04						
	On-off actuator CA260		E05						
Special version	described in the item text								01,02,03....



Dimensions



Nominal size DN [mm]	Operating pressure [bar]		d1	d2	d4	E	K	L	Stroke	Actuation time Open/Close [Sekunden]	Weight [approx. kg]
	On-off operation	Normal operation									
15	40	16	95	14	45	284	65	130	9	27	3,8
20	20	16	105	14	58	288	75	150	14	42	4,7
25	12	12	115	14	68	305	85	160	18	54	5,3
32	7	7	140	18	78	309	100	180	21	63	6,9
40	4,8	4,8	150	18	88	315	110	200	22	66	8,1
50	2,8	2,8	165	18	102	339	125	230	22	66	9,9

Motor data

Function	Rated voltage	Setpoint input	Burden [Ω]	Position feedback	external burden [Ω]	Limit switch	max. Switching capacity	Power [W]	Actuation time [s/mm]	Actuator type
Open/Close	24V AC/DC	3-point	-	optional available	-	optional available	250V AC/DC 1A	13	3	CA24
Open/Close	90-260V AC	3-point	-	optional available	-	optional available	250V AC/DC 1A	12	3	CA260
Control	24V AC/DC	(0)4-20mA (0)2-10V*	500 95k	(0)4-20mA (0)2-10V*	500 >5k	2x	24V AC/DC 200mA	13	2	CA24C
Control	90-260V AC	(0)4-20mA (0)2-10V*	500 95k	(0)4-20mA (0)2-10V*	500 >5k	2x	24V AC/DC 200mA	12	2	CA260C

*(0)2-10V (Switching via a switch on the PCB)



Electrical connection

On-off actuators	
Actuator CA24	Actuator CA260
Control drives	
Actuator CA24C	Actuator CA260C

Position	Description	Note
S1	Bottom limit switch	Standard for control actuators - optional for open-close actuators
S2	Top limit switch	Standard for control actuators - optional for open-close actuators
S3	Fault message	Standard for control actuators - max. 0,2A/24V AC/DC
Y	Setpoint input	Standard 4-20mA 2-10V (Switching via a switch on the PCB)
Z	Position feedback	Standard 4-20mA 2-10V (Switching via a switch on the PCB)

Illustrations non-binding
Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - automatically operated / Seat valves - electrically operated / Electrical seat valve Series SE15-STE