

ACTUATORS

- Electric actuators
- Pneumatic actuators





Series

ST 6115	120 cm ²
ST 6135	280 cm ²
ST 6160	530 cm ²

Special applications

ST 6135.B6-__-C5-M
ST 6135.B6-__-OX
ST 6160.A6-__-C5-M
ST 6160.A6-__-OX

Pneumatic actuators for control and on/off valves

- Approved by German Technical Inspectorate (TÜV) as safety functional device for steam and water in heating systems.
- Spring closed or open
- Max. stroke 60 mm
- Max. air supply 6 bar
- Max. actuating force 10 kN
- Direct mounting of positioner with internal air supply
- Special applications possible
 - C5-M Marine air resistant
 - OX For oxygen as operating medium

Technical data

Type	ST 6115		ST 6135		ST 6160	ST 6160	
	.A6-3S	.C6-4S	.B6-2G	.B6-6G	.A6-6G	.C6-3G	.C6-7G
Diaphragm area	120 cm ²		280 cm ²		530 cm ²	530 cm ²	
Spring range (bar)	0.9 ... 2.0	0.8 ... 2.4	0.2 ... 1.0	0.8 ... 3.0	0.8 ... 2.8	0.3 ... 1.3	0.7 ... 3.0
Stroke	20 mm	25 mm	35 mm		40 mm	60 mm*	
Operating pressure (bar)	Min. 2.2	Min. 2.6	Min. 1.2	Min. 3.2	Min. 3.0	Min. 1.5	Min. 3.2
	Max. 6	Max. 6	Max. 6	Max. 6	Max. 6	Max. 6	Max. 6
Actuator volume	0.4 L _N		1.7 L _N		2.8 L _N	3.6 L _N	
Ambient temperature	-40 ... 80 °C					-20 ... 80 °C	
Coating	Acrylic						
Weight	3 kg		5 kg		12.5 kg	14 kg	
Connection	¼" NPT Female thread						
Mounting position	Any						

*50 mm for direction of action « open »; spring range reduced

Options

Handwheel	Mounted on top	
Limit switches	Contact rating max. 6 A, 400 V Protection IP 65	
3 / 2-solenoid valve	24 V DC, 24 V, 115 V, 230 V 50 / 60 Hz, EEx The safety function according to DIN EN 14597:2005-12 is only possible in combination with a solenoid valve which fulfills the requirements of the Mounted on top mentioned directive.	
Positioners		
SRP 981	0.2 ... 1.0 bar	max. 6 bar
SRI 990	4 – 20 mA	2-Wire
SR 6136 (Sipart)	4 – 20 mA	2 / 3 / 4-Wire
SR TZIDC	4 – 20 mA	2-Wire
SR 1000 L	4 – 20 mA	2-Wire
SR 3300	4 – 20 mA	2-Wire

Other options available on request

Important note

The actuator needs in conjunction with the approval DIN EN 14597:2012-09 for failure free service, dry oil free instrument air

- Particle size 30 µm
- Pressure dewpoint 20 °C under ambient temperature



Data sheet under <http://www.rtk.de/en/produkte0/stellantriebe0.html>



Series

ST 6175.B6-__ 1000 cm²

ST 6175.C6-__ 1000 cm²

Pneumatic actuators for control and on/ off valves

- Actuating force max. 40 kN
- Spring closed or open
- Stroke max. 60 mm / 100mm
- Max air supply 6 bar

Technical data

Type	.B6-2S	.B6-3D	.B6-5D	.B6-7D	.C6-3S	.C6-3D	.C6-5D	.C6-7D
Diaphragm area	1000 cm ²							
Spring range (bar)	0.3 ... 0.9	0.7 ... 2.1	1.2 ... 3.4	1.6 ... 4.7	0.5 ... 1.4	0.8 ... 2.1	1.4 ... 3.4	1.9 ... 4.7
Actuating force spring closed, closed position	3 kN	7 kN	12 kN	16 kN	5 kN	8 kN	14 kN	19 kN
Actuating force spring open, open position	40 kN	32 kN	21 kN	10 kN	38 kN	32 kN	21 kN	10 kN
Stroke	60 mm				100 mm			
Operating pressure (bar)	Min. 1.1 Max. 6	Min. 2.3 Max. 6	Min. 3.6 Max. 6	Min. 4.9 Max. 6	Min. 1.6 Max. 6	Min. 2.3 Max. 6	Min. 3.6 Max. 6	Min. 4.9 Max. 6
Actuator volume	0.8 ... 5.8 L _N				0.8 ... 9 L _N			
Ambient temperature	-40 ... 80 °C							
Coating	Acrylic							
Weight	35 kg	37 kg	39 kg	41 kg	45 kg	48 kg	54 kg	60 kg
Connection	3/8" NPT Female thread							
Mounting position	Any							

Options

Handwheel	Mounted on top							
Limit switches	Contact rating max. 6 A, 400 V Protection IP 65							
3 / 2 way solenoid valve	24 V DC, 24 V, 115 V, 230 V 50 / 60 Hz, EEx							
Solenoid valve	The safety function according to DIN EN 14597:2005-12 is only possible in combination with a solenoid valve which fullfills the requirements of the Mounted on top mentioned directive.							
Positioners								
SRP 981	0.2 ... 1.0 bar		max. 6 bar					
SRI 990	4 – 20 mA		2-Wire					
SR 6136 (Sipart)	4 – 20 mA		2 / 3 / 4-Wire					
SR TZIDC	4 – 20 mA		2-Wire					
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