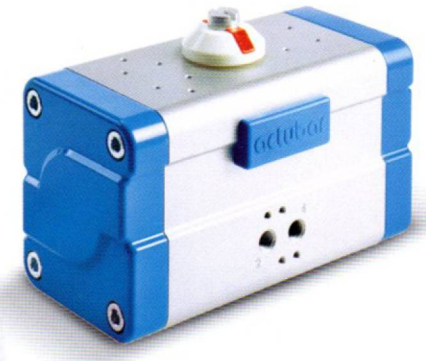
PNEUMATIC ACTUATOR

actubar®

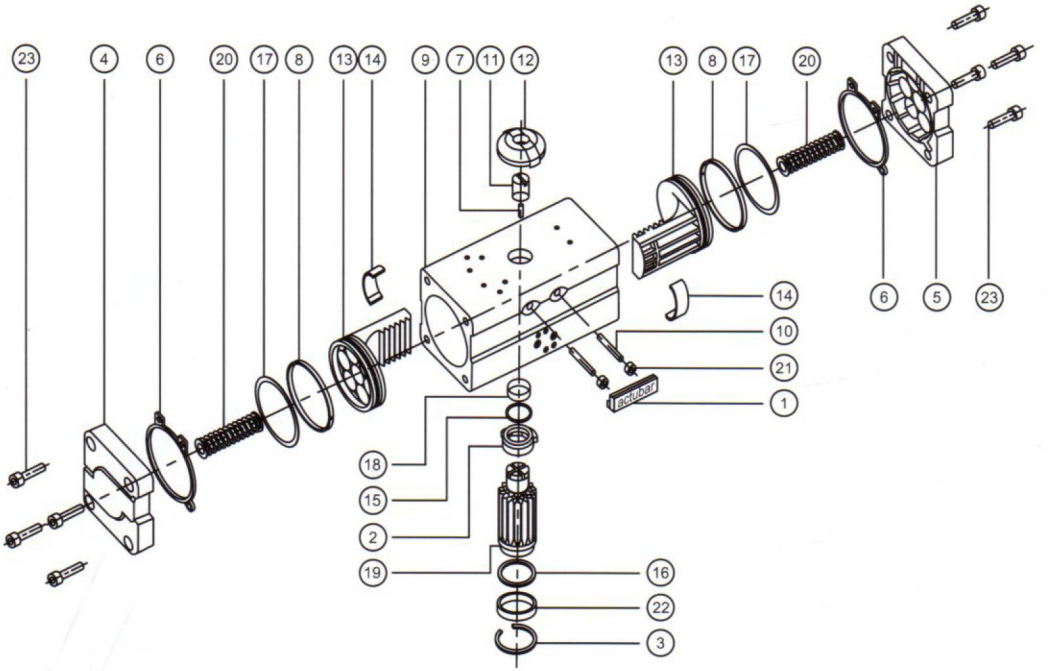
The new age intelligent pneumatic actuator - actubar



- The actubar finds universal application in the widest variety of operating conditions, because all components are corrosion-resistant
- It is possible to add all commercially available signalling units via the standard interface vdi/vde 3845
- The end positions are adjustable in the 0°- and 90° positions from +5° to -10°
- Long service life and absolute freedom from maintenance is achieved through slide bearings on all moving parts
- Actubar can be mounted onto valves with parallel or diagonal selector shaft position through the presence of a female octagon in the pinion, the need to turn the drive pinion becomes irrelevant
- Minimises danger of accidents through anti-blow-out pinions
- Wide application spectrum through supply possibilities of different pivoting angles - 90o, 120o, 180o, 240o
- Mechanical explosion proof atex ii2gdc for environment dust (zone 21+22) and environment gas (zone 1+2)
- Special actuator versions:
  - Special coatings and stainless steel shaft for superior corrosion resistance
  - High temperature version equipped with fkm-gaskets and specia bearings for ambient temperatures 20°c to +160°c
  - Low temperature version, ambient temperature -40°c up to +90°c equipped with special gaskets

Technical Data

	Standard model	Optional extras
Design	Pneumatic twin piston actuator Type AD = double-acting Type AS = single-acting (with spring-return)	3-position operation with 2 additional pistons
Constructional Features	Rack-and-pinion principle with self-centering piston guide in housing; single-acting: with bar safety springs, diagnosable	
Positioning	as desired	
Standards	**Interface Actuator/Valve:** 4 i.e. 8 female threads in actuator housing according to EN ISO 5211 **Interface actuator/control valve:** According to NAMUR i.e. VDI/VDE 3845 **Interface actuator signal units:** According to VDI/VDE 3845 (NAMUR)	Alternative mounting and connection dimensions possible Drive pinion selectable with internal double-flat
Guidelines	ATEX	
Material	Housing: Aluminium alloy, anodised Cap: Aluminium alloy, epoxy resin-coated Pistons/Rack: Aluminium alloy Pinion: Hardened Aluminium alloy, anodised Seals: NBR (Perbunan) Bearings: easy-slide plastic	Housing: additionally epoxy resin-coated **Chemical version:** Housing: hard-coated and PTFE-impregnated Pinion: stainless steel AISI 303; Upon request: AISI 316 **Stainless steel-model:** see separate types table
Surrounding temperature	-20 up to +90°C	-40 to +160°C
Rated angle	double and single-acting: 90° of swing Rated pivoting angle (series) from +5 to -10° adjustable in both directions	120° and 180° see separate types table 3-position actuator: 0-90-180°, 0-45-90° 3-position actuator with spring-centered middle position
Torque	16 to 1100 Nm	
Control press ure	2 to 10 bar	Other control pressures upon request
Control medi um/ Quality	filtered air in view of remaining oil, dust and wate r minimum according to DIN ISO 8573-1 Class 4	Can also be driven with other non-aggressive gaseous or liquid mediums - upon request



1 Side cap
2 End-stop cam
3 Ring clip
4 End cap left
5 End cap right
6 End cap seal
7 Threaded pin
8 O-Ring
9 Housing
10 Threaded pin
11 Namur shaft
12 Position indicator
13 Piston
14 Guidance segment
15 O-Ring
16 O-Ring
17 Piston guidance ring
18 Upper bearing
19 Pinion
20 Spring
21 Lock-nut
22 Lower bearing
23 Cap screw

Spare part set No. 1	Spare part set No. 2	Spare part set No. 3	Spare part set No. 4	Spare part set No. 5
Set of seals	**Set of wear parts**	**Caps, complete**	**Pistons, complete**	**Pinion shaft, complete**
Parts 6,15,16,17	Parts 8,14,18,22	Parts 4,5,6,23	Parts 8,13,14,17	Parts 3,15,16,18,19,22