



Connection DIN 3337-F14 V

Technical Data

Construction : pneumatic double-piston quarter turn actuator
 Features : Rack-and-pinion system, piston guide via guide rods
 Angle of rotation : 90°
 Pressure range : min. 2 bar, max. 10 bar
 Operating medium : Dry and filtered compressed air or any non-aggressive gaseous medium and hydraulic oil (on request)

Ambient temperature : -20°C up to +80°C
 Mounting position : Any
 Resistance to corrosion : Atmospheric industrial
 Lubrication : permanent lubrication with lubricating grease DIN 51825-K2K-30

Seals : Perbunan-o-rings, 70 Shore
 Coating : Housing/End cap: GLISS-COAT
 Weight [kg] : SAD 40 24,0
 SAF 40 * 37,5

Stroke volume [dm³] : SAD 40 10,2
 SAF 40 5,8
 Operating time [sec] ¹⁾ : SAD 40 Open 1,5
 SAD 40 Shut 1,5
 SAF 40 * Open 3,0
 SAF 40 * Shut 1,5

Maintenance and Inspection : AMG actuators are maintenance-free
 Provided that :
 • the actuator is properly mounted
 • the operating medium used is clean and non-aggressive
 • the actuator is operated under normal ambient conditions

1) Operating times at 4,5 bar operating pressure and without load (standard values)
 * Type SAF with 9 springs

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| Type | Torque M _A (Nm) at operating pressure p _e | | | | | | | | | | | | | |
|------|---|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--|
| | 2 bar | 2,5 bar | 3 bar | 3,5 bar | 4 bar | 4,5 bar | 5 bar | 5,5 bar | 6 bar | 6,5 bar | 7 bar | 7,5 bar | 8 bar | |
| SAD | 335 | 433 | 531 | 629 | 728 | 826 | 925 | 1023 | 1121 | 1220 | 1318 | 1417 | 1515 | |
| 40 | 335 | 433 | 531 | 629 | 728 | 826 | 925 | 1023 | 1121 | 1220 | 1318 | 1417 | 1515 | |

| p _e | 2 bar | | 2,5 bar | | 3 bar | | 3,5 bar | | 4 bar | | 4,5 bar | | 5 bar | | 5,5 bar | | 6 bar | | 7 bar | | | |
|----------------|--|-----|---------|-----|-------|-----|---------|-----|-------|-----|---------|-----|-------|-----|---------|-----|-------|-----|-------|-----|-----|-----|
| | Number of springs n | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 14 | |
| Type SAF | Air torque M _A (Nm) at operating pressure p _e = spring torque M _s | | | | | | | | | | | | | | | | | | | | | |
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| 40 | 133 | 221 | 166 | 277 | 199 | 332 | 232 | 387 | 266 | 443 | 299 | 498 | 332 | 553 | 365 | 609 | 398 | 664 | 465 | 775 | | |

At the required operating pressure p_e and our recommended number of springs for this pressure, then the air torque and spring torques are identical.

© Subject to technical modification.

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AMG DOUBLE-PISTON QUARTER TURN ACTUATORS
 TYPE SAD/SAF 40 F14V