



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 25 6,0 SAF 25 * 8,5
Stroke volume [dm³] :	SAD 25 2,0 SAF 25 1,0
Operating time [sec] ¹⁾ :	SAD 25 Open 0,4 SAD 25 Shut 0,4 SAF 25 * Open 0,4 SAF 25 * Shut 0,2
Maintenance and Inspection :	AMG actuators are maintenance-free Provided that : <ul style="list-style-type: none"> • 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

Type	Torque M_A (Nm) at operating pressure p_o												
	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 25	61	79	97	115	133	150	168	186	204	222	240	258	276

p_o	2 bar		2,5 bar		3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		7 bar	
	Air torque M_A (Nm) at operating pressure $p_o =$ spring torque M_s																			
Number of springs n	4		5		6		7		8		9		10		11		12		14	
Type SAF	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
25	24,2	40,3	30,2	50,4	36,2	60,5	42,3	70,6	48,3	80,6	54,4	90,7	60,4	100,8	66,4	110,9	72,5	121,0	84,6	141,1

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

AMG-PESCH

