



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 15 2,8 SAF 15 * 3,5
Stroke volume [dm ³] :	SAD 15 0,7 SAF 15 0,4
Operating time [sec] ¹⁾ :	SAD 15 Open 0,2 SAD 15 Shut 0,2 SAF 15 * Open 0,2 SAF 15 * Shut 0,1
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

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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 15	23	29	35	42	48	55	61	68	75	81,5	88	94,5	101

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			
	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_o = 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
15	8,8	14,7	11,1	18,4	13,3	22,1	15,5	25,8	17,7	29,4	19,9	33,1	22,1	36,8	24,3	40,5	26,5	44,2	30,9	51,5		

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.

© Subject to technical modification.

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AMG DOUBLE-PISTON QUARTER TURN ACTUATORS
TYPE SAD/SAF 15 F05V