



### 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 10 1,8 SAF 10 * 1,9
Stroke volume [dm <sup>3</sup> ] :	SAD 10 0,3 SAF 10 0,2
Operating time [sec] <sup>1)</sup> :	SAD 10 Open 0,1 SAD 10 Shut 0,1 SAF 10 * Open 0,1 SAF 10 * Shut 0,1
Maintenance and Inspection :	AMG actuators are maintenance-free Provided that : <ul style="list-style-type: none"> <li>the actuator is properly mounted</li> <li>the operating medium used is clean and non-aggressive</li> <li>the actuator is operated under normal ambient conditions</li> </ul>

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 10	10	13	16	19	21	24	27	30	33	36	39	42	45	

$p_o$	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
10	3,9	6,5	4,9	8,2	5,9	9,8	6,9	11,4	7,8	13,0	8,8	14,7	9,8	16,3	10,8	17,9	11,8	19,6	13,7	22,8		

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 10 F05V**