



### 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 20 4,0  
 SAF 20 \* 5,0

Stroke volume [dm<sup>3</sup>] : SAD 20 1,0  
 SAF 20 0,5

Operating time [sec] <sup>1)</sup> : SAD 20 Open 0,3  
 SAD 20 Shut 0,3  
 SAF 20 \* Open 0,3  
 SAF 20 \* Shut 0,1

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

DIE PESCHGRUPPE



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 20	31	41	51	60	70	79	89	98	107	117	126	136	145			

$p_o$	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
20	12,7	21,2	15,9	26,5	19,1	31,7	22,3	37,0	25,4	42,3	28,6	47,6	31,8	52,9	35,0	58,2	38,2	63,5	44,5	74,1	

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.