

## DOUBLE-PISTON QUARTER TURN ACTUATORS

TYPE SAD / SAF **BR03** 90°

### Technical Data

<b>Design :</b>	Pneumatic double-piston quarter turn actuator
<b>Design features :</b>	Rack-and-pinion system
<b>Angle of rotation :</b>	0°-90°
<b>Air pressure supply :</b>	min. 2 bar, max. 8 bar
<b>Operating medium :</b>	Dry and filtered compressed air
<b>Ambient temperature :</b>	-25°C to +80°C
<b>Mounting position :</b>	any
<b>Resistance to corrosion :</b>	Industrial atmosphere
<b>Lubrication :</b>	Life time lubrication with grease ISO 51825-K2K-30
<b>Seals :</b>	NBR-O-Rings, 70 Shore
<b>Coatings :</b>	Housing anodized and colour sealed End caps - CED Cathodic electrodeposition
<b>Maintenance and inspection :</b>	AMG actuators are free of maintenance within the life time. Provided that: the actuator is properly mounted the operating medium used is clean and non-aggressive the actuator is operated under normal ambient conditions the actuator is used in compliance with the intended use (see assembly and maintenance manual)
<b>Applied standard:</b>	DIN EN ISO 5211, DIN EN 15714-3, VDI / VDE 3845, DIN 79
<b>Options:</b>	extended angle of rotation 180° Ambient temperature up to +100°C Ambient temperature down to -40°C Sealing elements made of FKM (viton) or alternatively fluorosilicone Tailor made mounting kits and dimensioning acc. to customer requirements Variable cycle times (fast / slow) Variable sens of rotation (clockwise / counterclockwise) Coating options: Hard-Coat, chemical nickelplating, plastic coating, special lacquer



**SAF**



**SAD**



AMG-PESCH GmbH  
Adam-Riese-Straße 1  
D - 50996 Cologne  
Tel.: +49-(0) 22 36 - 89 16 - 0  
Fax: +49-(0) 22 36 - 89 16 - 56  
[info@amg-pesch.com](mailto:info@amg-pesch.com)  
[www.amg-pesch.com](http://www.amg-pesch.com)

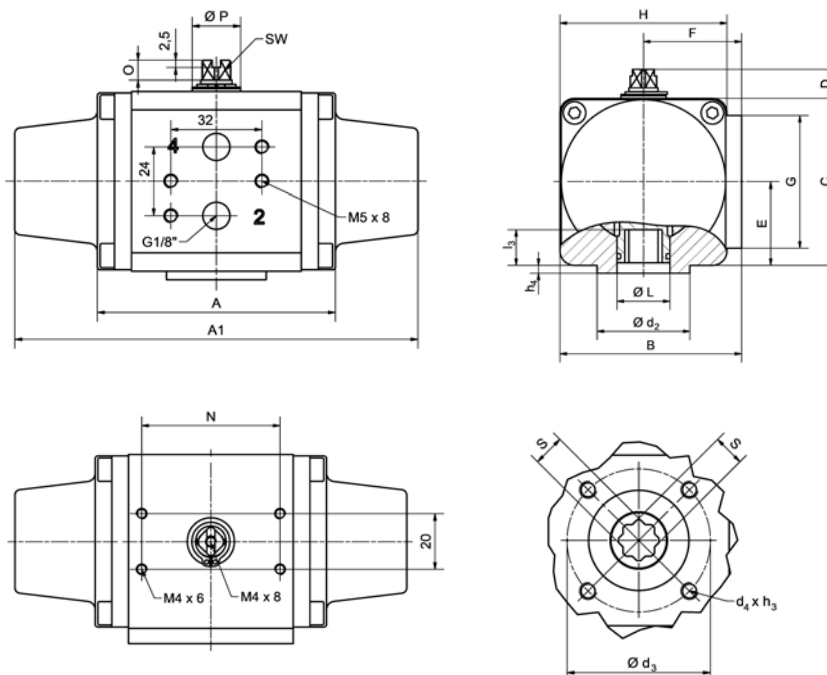
# DOUBLE-PISTON QUARTER TURN ACTUATORS

## TYPE SAD / SAF **BR03** 90°

Size	05
Weight [kg]	
Type SAD	0,7
Type SAF	0,9
Stroke volume [dm <sup>3</sup> ]	
Type SAD	0,05
Type SAF	0,05
Operating times [sec.] <sup>1)</sup>	
Type SAD OPEN	0,1
Type SAD CLOSE	0,1
Type SAF <sup>2)</sup> OPEN	0,1
Type SAF <sup>2)</sup> CLOSE	0,1

1) operating times at 4,5 bar air pressure supply without load (standard values)

2) Type SAF with 2 (4 bar) springs



Type	number of springs n	spring-torque		air torque Ma [Nm] at operating pressure pe [bar]																											
				Ms [Nm]		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	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
SAD 05	-	-	-	4,5	5,8	7,2	8,5	9,8	11,1	12,5	13,8	15,1	16,5	17,8	19,1	20,4															
SAF 05	2 (4 bar)	3,6	6,0					1,2	3,6	2,5	4,9	3,8	6,2	5,1	7,5	6,5	8,9	7,8	10,2	9,1	11,5	10,5	12,9	11,8	14,2	13,1	15,5	14,4	16,8		
	2 (5 bar)	4,4	7,8							0,7	4,1	2,0	5,4	3,3	6,7	4,7	8,1	6,0	9,4	7,3	10,7	8,7	12,1	10,0	13,4	11,3	14,7	12,6	16,0		
	2 (6 bar)	5,0	9,5									0,3	4,8	1,6	6,1	3,0	7,5	4,3	8,8	5,6	10,1	7,0	11,5	8,3	12,8	9,6	14,1	10,9	15,4		

Design	SAD / SAF
Size	05
A (double-acting)	84
A1 (single-acting)	142
B	69
C	63
D	11
E	32
F	37
G	50
H	63
K	-
Ø L	20
J	-
Ø M	-
N	50
O	7
Ø P	17
SW	8
Connection ISO 5211	F05
Ø d <sub>2</sub>	35
Ø d <sub>3</sub>	50
d <sub>4</sub> x h <sub>3</sub>	M6x10
Number of screws	4
h <sub>4</sub>	3
l <sub>3</sub>	12,5
s	11