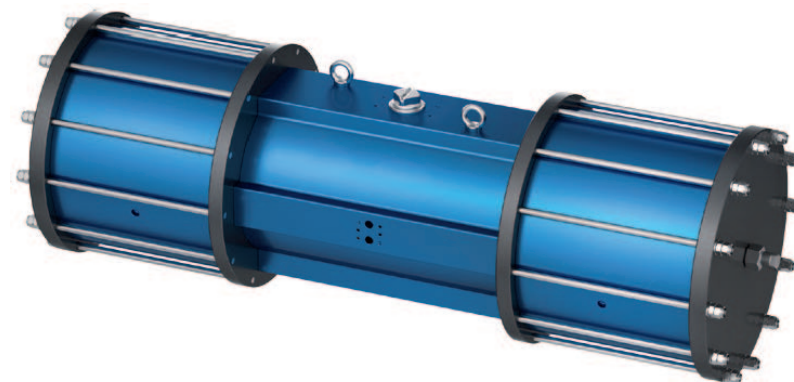


## DOUBLE-PISTON QUARTER TURN ACTUATORS

### TYPE SADP - M 180° **BR03C**

#### Technical Data

|                                     |  |
|-------------------------------------|--|
| <b>Design :</b>                     | Pneumatic double-piston 180° actuator with a 90° middle position   |
| <b>Design features :</b>            | Rack-and-pinion system, piston guide via guide rods  |
| <b>Angle of rotation :</b>          | Fixed rotation angle 0° to 180° (normal operation)<br>Spring fixed 90° middle position   |
| <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<br>ISO 51825-K2K-30  |
| <b>Seals :</b>                      | NBR-O-Rings, 70 Shore  |
| <b>Coatings :</b>                   | Housing anodized and colour sealed<br>End caps - CED Cathodic electrodeposition  |
| <b>Maintenance and inspection :</b> | AMG actuators are free of maintenance within the life time.<br>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><li>• the actuator is used in compliance with the intended use<br/>(see assembly and maintenance manual)</li></ul> |
| <b>Applied standard:</b>            | DIN EN ISO 5211, DIN EN 15714-3, VDI / VDE 3845, DIN 79  |



**SADP - M 180°**

AMG-**PESCH**®



AMG-**PESCH** GmbH  
Adam-Riese-Straße 1  
D - 50996 Köln  
Tel.: +49-(0) 22 36 - 89 16 - 0  
Fax: +49-(0) 22 36 - 89 16 - 73  
[info@amg-pesch.com](mailto:info@amg-pesch.com)  
[www.amg-pesch.com](http://www.amg-pesch.com)

# DOUBLE-PISTON QUARTER TURN ACTUATORS

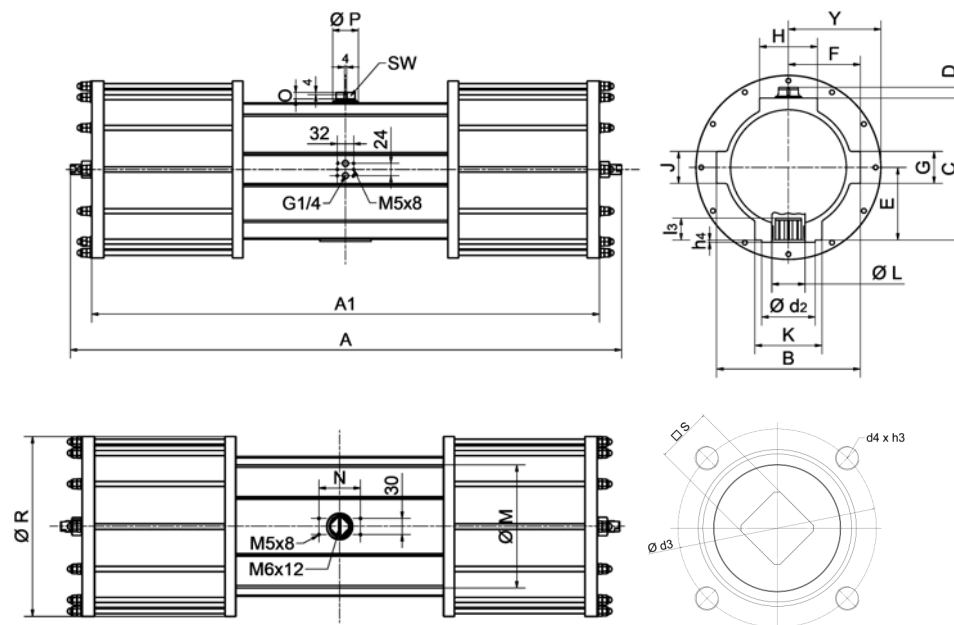
## TYPE SADF - M 180° **BR03C**

|                                      |     |
|--------------------------------------|-----|
| Size                                 | 25  |
| Weight [kg]                          |     |
| Type SADF - M                        | 42  |
| Stroke volume [dm³]                  |     |
| Type SADF - M                        | 6,5 |
| Operating times [sec.] <sup>1)</sup> |     |
| Type SADF - M <sup>2)</sup> OPEN     | 1,5 |
| Type SADF - M <sup>2)</sup> CLOSE    | 1,5 |

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

2) Type SADF-M with 26 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 |
| SADF-M 25 | -                   | -             | -   | 61  | 79  | 98      | 115 | 133   | 151 | 169     | 187 | 205   | 223 | 240     | 257 | 275   |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 12                  | 72            | 121 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 14                  | 85            | 141 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 16                  | 109           | 181 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 20                  | 121           | 202 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 22                  | 145           | 242 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 24                  | 157           | 262 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 28                  | 169           | 282 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 32                  | 193           | 322 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           | 34                  | 205           | 343 |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |
|           |                     |               |     |   |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |



|                                 |          |
|---------------------------------|----------|
| Design                          | SADF - M |
| Size                            | 25       |
| A                               | 741      |
| A1                              | 682      |
| B                               | 154,5    |
| C                               | 159      |
| D                               | 20       |
| E                               | 83       |
| F                               | 78,5     |
| G                               | 50       |
| H                               | 48       |
| K                               | 90       |
| Ø L                             | 38       |
| J                               | 44       |
| Ø M                             | 130      |
| N                               | 80       |
| O                               | 12       |
| Ø P                             | 30       |
| Ø R                             | 229      |
| Y                               | 110      |
| SW                              | 17       |
| Connection ISO 5211             | F07      |
| Ø d <sub>2</sub>                | 55       |
| Ø d <sub>3</sub>                | 70       |
| d <sub>4</sub> x h <sub>3</sub> | M8x13    |
| Number of screws                | 4        |
| h <sub>4</sub>                  | 3        |
| l <sub>3</sub>                  | 20       |
| s                               | 17       |

AMG-PESCH®



an ERIKS company

AMG-PESCH GmbH  
Adam-Riese-Straße 1  
D - 50996 Köln  
Tel.: +49-(0) 22 36 - 89 16 - 0  
Fax: +49-(0) 22 36 - 89 16 - 73  
[info@amg-pesch.com](mailto:info@amg-pesch.com)  
[www.amg-pesch.com](http://www.amg-pesch.com)