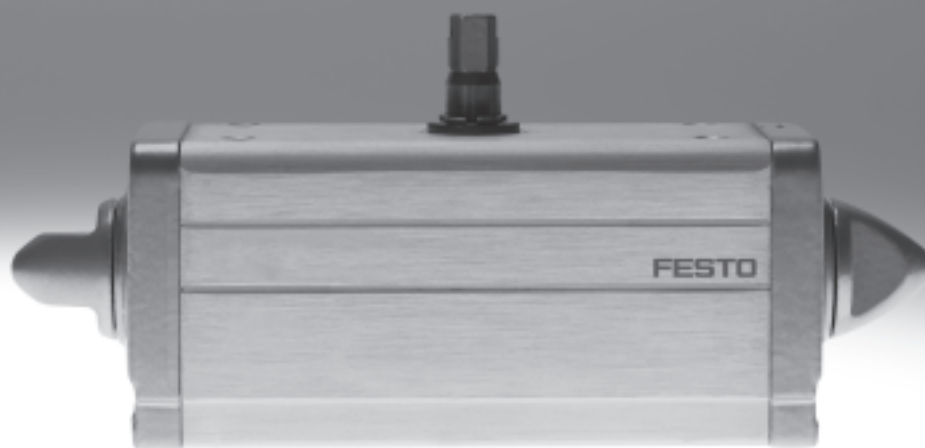


## Quarter turn actuators DAPS

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## Quarter turn actuators DAPS

Key features

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| General DAPS                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | → Page 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>-  - Size<br/>0008 ... 8000</li> <li>-  - Torque<br/>8 ... 8,000 Nm</li> <li>-  - Swivel angle<br/>0 ... 90°</li> </ul>        | <p>The quarter turn actuators DAPS are specially tailored to the requirements of the process industry. The torque is generated via a scotch yoke mechanism, which helps to overcome the valve's high breakaway torques. Given their robustness and graduated torques, the quarter turn actuators DAPS are predominantly used to control valves through which various media flow and whose angle of rotation is limited to 90°, e.g. ball valves and butterfly valves.</p> | <ul style="list-style-type: none"> <li>• Compact design</li> <li>• Torque characteristics adapted to the process valves</li> <li>• For the same housing size, the single-acting drive has half the torque of the double-acting drive</li> <li>• Low wearing thanks to the simple and robust mechanical system</li> <li>• Adjustable swivel angle</li> <li>• Selected types in accordance with ATEX directive for potentially explosive atmospheres<br/>→ <a href="http://www.festo.com/en/ex">www.festo.com/en/ex</a></li> </ul> | <ul style="list-style-type: none"> <li>• Port pattern to NAMUR VDI/VDE 3845 for attaching solenoid valves</li> </ul>    |
| Variant with handwheel DAPS MW                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | → Page 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>-  - Size<br/>0106 ... 1920</li> <li>-  - Torque<br/>106 ... 1920 Nm</li> <li>-  - Swivel angle<br/>0 ... 90°</li> </ul> | <p>The position of the process valve or actuator can be manually adjusted using the handwheel when the supply pressure is switched off. The handwheel therefore acts as a manual emergency override.</p>                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Low wearing thanks to the simple and robust mechanical system</li> <li>• Torque characteristics adapted to the process valves</li> <li>• Selected types in accordance with ATEX directive for potentially explosive atmospheres<br/>→ <a href="http://www.festo.com/en/ex">www.festo.com/en/ex</a></li> </ul>                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Port pattern to NAMUR VDI/VDE 3845 for attaching solenoid valves</li> </ul>  |
| Stainless steel variant DAPS CR                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | → Page 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>-  - Size<br/>0015 ... 0480</li> <li>-  - Torque<br/>15 ... 480 Nm</li> <li>-  - Swivel angle<br/>0 ... 90°</li> </ul>   | <p>Single-acting and double-acting quarter turn actuators DAPS in stainless steel are used for automating fittings with a 90° swivel angle. The single-acting variant comes in different spring strengths for different supply pressures.</p>                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Low wearing thanks to the simple and robust mechanical system</li> <li>• Torque characteristics adapted to the process valves</li> <li>• Selected types in accordance with ATEX directive for potentially explosive atmospheres<br/>→ <a href="http://www.festo.com/en/ex">www.festo.com/en/ex</a></li> </ul>                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Port pattern to NAMUR VDI/VDE 3845 for attaching solenoid valves</li> </ul>  |

## Quarter turn actuators DAPS, double-acting

Product range overview

**FESTO**

| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |     |              |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Connection                                                                         | F03 | F03 | F04 | F04 | F05 | F05 | F05 | F07 | F07 | Shaft height |
| Square                                                                             | V11 | V11 | V11 | V14 | V11 | V14 | V17 | V14 | V17 |              |
| DAPS-0008-...-F03                                                                  | ■   | –   | –   | –   | –   | –   | –   | –   | –   | 20           |
| DAPS-0015-...-F03                                                                  | –   | ■   | –   | –   | –   | –   | –   | –   | –   | 20           |
| DAPS-0015-...-F04                                                                  | –   | –   | ■   | –   | –   | –   | –   | –   | –   | 20           |
| DAPS-0030-...-F0305                                                                | –   | ■   | –   | –   | ■   | –   | –   | –   | –   | 20           |
| DAPS-0030-...-F04                                                                  | –   | –   | ■   | –   | –   | –   | –   | –   | –   | 20           |
| DAPS-0060-...-F04                                                                  | –   | –   | –   | ■   | –   | –   | –   | –   | –   | 20           |
| DAPS-0060-...-F0507                                                                | –   | –   | –   | –   | –   | ■   | –   | ■   | –   | 20           |
| DAPS-0106-...-F0507                                                                | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 20           |
| Hole pattern for NAMUR accessories                                                 | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |              |
|                                                                                    | 30  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  |              |

| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |     |     |     |              |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Connection                                                                         | F07 | F10 | F10 | F12 | F12 | F12 | F14 | F14 | F16 | F16 | F25 | Shaft height |
| Square                                                                             | V22 | V22 | V27 | V27 | V36 | V46 | V36 | V46 | V46 | V46 | V55 |              |
| DAPS-0180-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0240-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0360-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0480-...-F1012                                                                | –   | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0720-...-F1012                                                                | –   | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0960-...-F12                                                                  | –   | –   | –   | –   | ■   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-0960-...-F14                                                                  | –   | –   | –   | –   | –   | –   | ■   | –   | –   | –   | –   | 30           |
| DAPS-1440-...-F12                                                                  | –   | –   | –   | –   | ■   | –   | –   | –   | –   | –   | –   | 30           |
| DAPS-1440-...-F14                                                                  | –   | –   | –   | –   | –   | –   | ■   | –   | –   | –   | –   | 30           |
| DAPS-1920-...-F14                                                                  | –   | –   | –   | –   | –   | –   | –   | ■   | –   | –   | –   | 30           |
| DAPS-1920-...-F1216                                                                | –   | –   | –   | –   | –   | ■   | –   | –   | ■   | –   | –   | 30           |
| DAPS-2880-...-F16                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   | –   | 30           |
| DAPS-3840-...-F16                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   | –   | 30           |
| DAPS-5760-...-F25                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   | 30           |
| DAPS-8000-...-R-F25                                                                | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   | 30           |
| Hole pattern for NAMUR accessories                                                 | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |              |
|                                                                                    | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 130 | 130 |              |

# Quarter turn actuators DAPS, single-acting

Product range overview

**FESTO**

| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |              |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Connection                                                                         | F03 | F04 | F04 | F05 | F05 | F05 | F07 | F07 | Shaft height |
| Square                                                                             | V11 | V11 | V14 | V11 | V14 | V17 | V14 | V17 |              |
| DAPS-0015-...-F0305                                                                | ■   | –   | –   | ■   | –   | –   | –   | –   | 20           |
| DAPS-0015-...-F04                                                                  | –   | ■   | –   | –   | –   | –   | –   | –   | 20           |
| DAPS-0030-...-F04                                                                  | –   | –   | ■   | –   | –   | –   | –   | –   | 20           |
| DAPS-0030-...-F0507                                                                | –   | –   | –   | –   | ■   | –   | ■   | –   | 20           |
| DAPS-0053-...-F0507                                                                | –   | –   | –   | –   | –   | ■   | –   | ■   | 20           |
| Hole pattern for NAMUR accessories                                                 | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |              |
|                                                                                    | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  |              |

| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |     |     |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Connection                                                                         | F07 | F10 | F10 | F12 | F12 | F12 | F14 | F14 | F16 | F16 |
| Square                                                                             | V22 | V22 | V27 | V27 | V36 | V46 | V36 | V46 | V46 | V46 |
| DAPS-0090-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   |
| DAPS-0120-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   |
| DAPS-0180-...-F0710                                                                | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | –   |
| DAPS-0240-...-F1012                                                                | –   | –   | ■   | ■   | –   | –   | –   | –   | –   | –   |
| DAPS-0360-...-F1012                                                                | –   | –   | ■   | ■   | –   | –   | –   | –   | –   | –   |
| DAPS-0480-...-F12                                                                  | –   | –   | –   | –   | ■   | –   | –   | –   | –   | –   |
| DAPS-0480-...-F14                                                                  | –   | –   | –   | –   | –   | –   | ■   | –   | –   | –   |
| DAPS-0720-...-F12                                                                  | –   | –   | –   | –   | ■   | –   | –   | –   | –   | –   |
| DAPS-0720-...-F14                                                                  | –   | –   | –   | –   | –   | –   | ■   | –   | –   | –   |
| DAPS-0960-...-F14                                                                  | –   | –   | –   | –   | –   | –   | –   | ■   | –   | –   |
| DAPS-0960-...-F1216                                                                | –   | –   | –   | –   | –   | ■   | –   | –   | ■   | –   |
| DAPS-1440-...-F16                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-1920-...-F16                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-2880-...-F16                                                                  | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-4000-...-RS1-F25                                                              | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-4000-...-RS2-F25                                                              | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-4000-...-RS3-F25                                                              | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| DAPS-4000-...-RS4-F25                                                              | –   | –   | –   | –   | –   | –   | –   | –   | –   | ■   |
| Hole pattern for NAMUR accessories                                                 | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |
|                                                                                    | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 130 |

# Quarter turn actuators DAPS CR

Product range overview

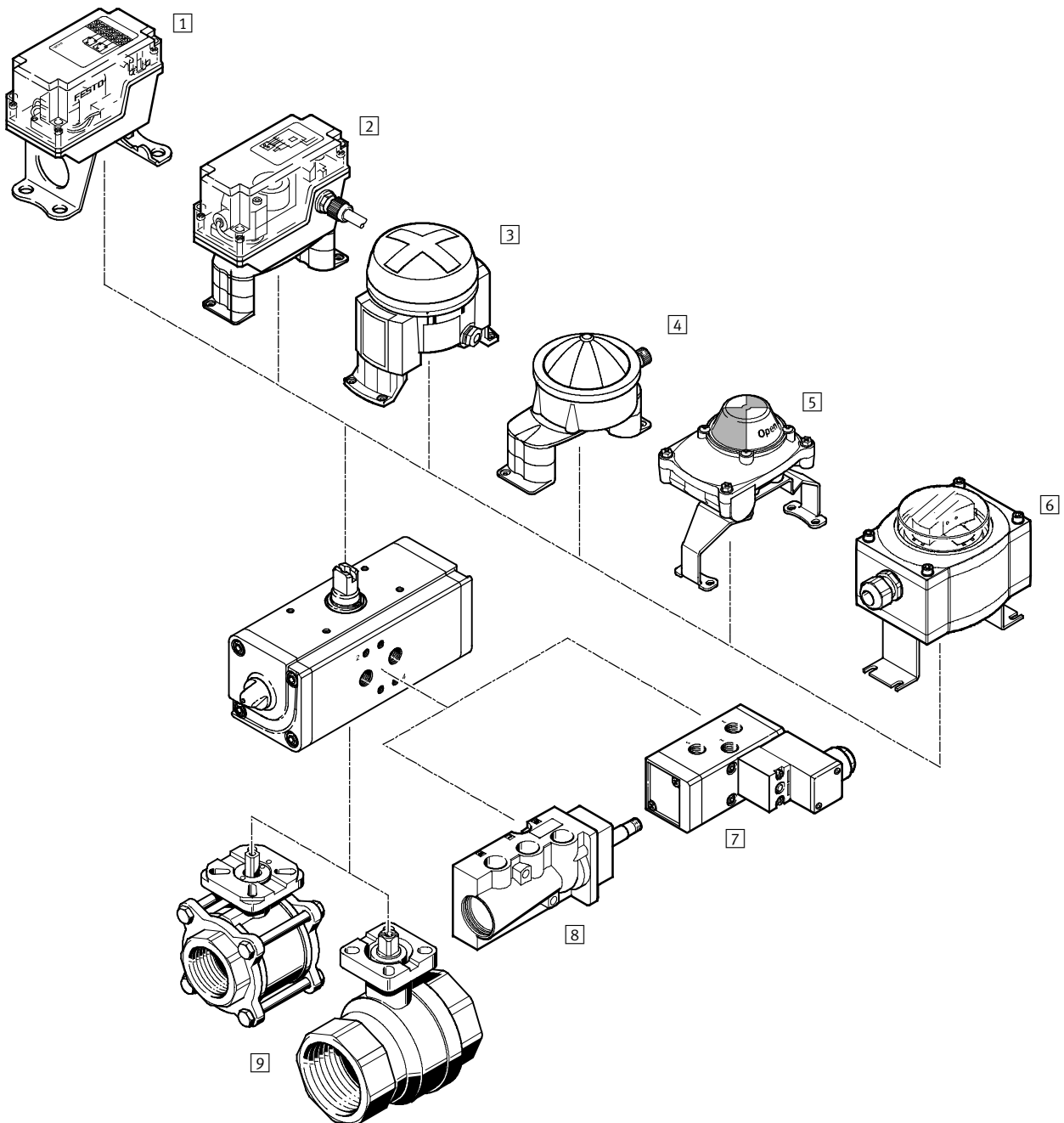
| <b>DAPS CR, double-acting</b>                                                      |     |     |     |     |     |     |     |     |     |     |              |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |     |     |              |
| Connection                                                                         | F03 | F03 | F05 | F05 | F05 | F07 | F07 | F07 | F10 | F10 | Shaft height |
| Square                                                                             | V09 | V11 | V11 | V14 | V17 | V14 | V17 | V22 | V17 | V22 |              |
| DAPS-0015-...-R-F03-CR                                                             | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0030-...-R-F03-CR                                                             | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0060-...-R-F0305-CR                                                           | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0120-...-R-F0507-CR                                                           | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | –   | 30 mm        |
| DAPS-0240-...-R-F0507-CR                                                           | –   | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | 30 mm        |
| DAPS-0480-...-R-F0710-CR                                                           | –   | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 30 mm        |
| Hole pattern for NAMUR accessories                                                 | 25  | 25  | 25  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |              |
|                                                                                    | 50  | 50  | 50  | 80  | 80  | 80  | 80  | 80  | 80  | 80  |              |

| <b>DAPS CR, single-acting</b>                                                      |     |     |     |     |     |     |     |     |     |     |              |
|------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Flange hole pattern – Connection dimensions to DIN ISO 5211 and NAMUR VDI/VDE 3845 |     |     |     |     |     |     |     |     |     |     |              |
| Connection                                                                         | F03 | F03 | F05 | F05 | F05 | F07 | F07 | F07 | F10 | F10 | Shaft height |
| Square                                                                             | V09 | V11 | V11 | V14 | V17 | V14 | V17 | V22 | V17 | V22 |              |
| DAPS-0015-...-RS1-F03-CR                                                           | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0015-...-RS2-F03-CR                                                           | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0015-...-RS3-F03-CR                                                           | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0015-...-RS4-F03-CR                                                           | ■   | –   | –   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0030-...-RS1-F03-CR                                                           | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0030-...-RS2-F03-CR                                                           | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0030-...-RS3-F03-CR                                                           | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0030-...-RS4-F03-CR                                                           | –   | ■   | ■   | –   | –   | –   | –   | –   | –   | –   | 20 mm        |
| DAPS-0060-...-RS1-F0305-CR                                                         | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | –   | 30 mm        |
| DAPS-0060-...-RS2-F0305-CR                                                         | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | –   | 30 mm        |
| DAPS-0060-...-RS3-F0305-CR                                                         | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | –   | 30 mm        |
| DAPS-0060-...-RS4-F0305-CR                                                         | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | –   | 30 mm        |
| DAPS-0120-...-RS1-F0507-CR                                                         | –   | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | 30 mm        |
| DAPS-0120-...-RS2-F0507-CR                                                         | –   | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | 30 mm        |
| DAPS-0120-...-RS3-F0507-CR                                                         | –   | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | 30 mm        |
| DAPS-0120-...-RS4-F0507-CR                                                         | –   | –   | –   | –   | ■   | –   | ■   | –   | –   | –   | 30 mm        |
| DAPS-0240-...-RS1-F0507-CR                                                         | –   | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 30 mm        |
| DAPS-0240-...-RS1-F0507-CR                                                         | –   | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 30 mm        |
| DAPS-0240-...-RS1-F0507-CR                                                         | –   | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 30 mm        |
| DAPS-0240-...-RS1-F0507-CR                                                         | –   | –   | –   | –   | –   | –   | –   | ■   | –   | ■   | 30 mm        |
| Hole pattern for NAMUR accessories                                                 | 25  | 25  | 25  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |              |
|                                                                                    | 50  | 50  | 50  | 80  | 80  | 80  | 80  | 80  | 80  | 80  |              |

# Quarter turn actuators DAPS

Peripherals overview

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## Quarter turn actuators DAPS

Peripherals overview

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| Mounting attachments and accessories |                                                                                                                                                                                            |                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                                      | Brief description                                                                                                                                                                          | → Page/Internet |
| 1 Limit switch attachment QH-DR-E    | Square design, pneumatic, electrical or inductive sensing                                                                                                                                  | qh-dr-e         |
| 2 Limit switch attachment DAPZ       | Square design<br>Electrical, electrical and explosion-proof or inductive sensing                                                                                                           | dapz            |
| 3 Limit switch attachment DAPZ       | Round design, variant AR<br>Electrical, inductive or inductive and explosion-proof sensing                                                                                                 | dapz            |
| 4 Limit switch attachment DAPZ       | Round design, variant RO<br>Electrical, inductive or inductive NAMUR sensing                                                                                                               | dapz            |
| 5 Limit switch attachment SRBF       | Square design, sensing via two mechanical switches                                                                                                                                         | srbf            |
| 6 Sensor box SRBP, SRAP              | SRBP, binary sensor box reports the open and closed position of the drive<br>SRAP, analogue sensor box continuously senses the entire swivel range and reports this back to the controller | srbp, srap      |
| 7 Solenoid valve MFH <sup>1)</sup>   | Basic valve with pilot control valve for F solenoid coil                                                                                                                                   | mfh             |
| Solenoid valve MN1H <sup>1)</sup>    | Basic valve with pilot control valve for N1 solenoid coil                                                                                                                                  | mn1h            |
| Solenoid valve MGTBH <sup>1)</sup>   | Basic valve with pilot control valve, solenoid coil and socket                                                                                                                             | mgtbh           |
| 8 Solenoid valve NVF3 <sup>1)</sup>  | For F solenoid coil and explosion-proof F solenoid coil                                                                                                                                    | nvf3            |
| 9 Ball valve VAPB                    | Brass or stainless steel, corrosion-resistant                                                                                                                                              | vapb            |

1) Direct mounting of solenoid valves only possible from size 0015 onwards

## Quarter turn actuators DAPS

Type codes

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|                                |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
|--------------------------------|----------------------------------|------|---|------|---|-----|---|---|---|---|---|-----|---|
|                                |                                  | DAPS | – | 0240 | – | 090 | – | R | S | 4 | – | F10 | – |
| <b>Type</b>                    |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| DAPS                           | Quarter turn actuator            |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>Size</b>                    |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| 0008                           | Nominal torque 8 Nm              |      |   |      |   |     |   |   |   |   |   |     |   |
| 0015                           | Nominal torque 15 Nm             |      |   |      |   |     |   |   |   |   |   |     |   |
| 0030                           | Nominal torque 30 Nm             |      |   |      |   |     |   |   |   |   |   |     |   |
| 0053                           | Nominal torque 53 Nm             |      |   |      |   |     |   |   |   |   |   |     |   |
| 0060                           | Nominal torque 60 Nm             |      |   |      |   |     |   |   |   |   |   |     |   |
| 0090                           | Nominal torque 90 Nm             |      |   |      |   |     |   |   |   |   |   |     |   |
| 0106                           | Nominal torque 106 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0120                           | Nominal torque 120 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0180                           | Nominal torque 180 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0240                           | Nominal torque 240 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0360                           | Nominal torque 360 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0480                           | Nominal torque 480 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0720                           | Nominal torque 720 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 0960                           | Nominal torque 960 Nm            |      |   |      |   |     |   |   |   |   |   |     |   |
| 1440                           | Nominal torque 1,440 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 1920                           | Nominal torque 1,920 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 2880                           | Nominal torque 2,880 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 3840                           | Nominal torque 3,840 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 4000                           | Nominal torque 4,000 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 5760                           | Nominal torque 5,760 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| 8000                           | Nominal torque 8,000 Nm          |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>Swivel angle</b>            |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| 090                            | 90°                              |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>Closing direction</b>       |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| R                              | Closes to right                  |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>Mode of operation</b>       |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
|                                | Double-acting                    |      |   |      |   |     |   |   |   |   |   |     |   |
| S                              | Single-acting                    |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>Spring strength</b>         |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| –                              | Not applicable for double-acting |      |   |      |   |     |   |   |   |   |   |     |   |
| 1                              | For connection pressure 2.8 bar  |      |   |      |   |     |   |   |   |   |   |     |   |
| 2                              | For connection pressure 3.5 bar  |      |   |      |   |     |   |   |   |   |   |     |   |
| 3                              | For connection pressure 4.2 bar  |      |   |      |   |     |   |   |   |   |   |     |   |
| 4                              | For connection pressure 5.6 bar  |      |   |      |   |     |   |   |   |   |   |     |   |
| <b>1st flange hole pattern</b> |                                  |      |   |      |   |     |   |   |   |   |   |     |   |
| F03                            | Flange hole pattern F03          |      |   |      |   |     |   |   |   |   |   |     |   |
| F04                            | Flange hole pattern F04          |      |   |      |   |     |   |   |   |   |   |     |   |
| F05                            | Flange hole pattern F05          |      |   |      |   |     |   |   |   |   |   |     |   |
| F07                            | Flange hole pattern F07          |      |   |      |   |     |   |   |   |   |   |     |   |
| F10                            | Flange hole pattern F10          |      |   |      |   |     |   |   |   |   |   |     |   |
| F12                            | Flange hole pattern F12          |      |   |      |   |     |   |   |   |   |   |     |   |
| F14                            | Flange hole pattern F14          |      |   |      |   |     |   |   |   |   |   |     |   |
| F16                            | Flange hole pattern F16          |      |   |      |   |     |   |   |   |   |   |     |   |
| F25                            | Flange hole pattern F25          |      |   |      |   |     |   |   |   |   |   |     |   |

## Quarter turn actuators DAPS

Type codes

|                                |                              |    |   |  |   |  |
|--------------------------------|------------------------------|----|---|--|---|--|
|                                |                              | 12 | – |  | – |  |
| <b>2nd flange hole pattern</b> |                              |    |   |  |   |  |
| 05                             | Flange hole pattern F05      |    |   |  |   |  |
| 07                             | Flange hole pattern F07      |    |   |  |   |  |
| 10                             | Flange hole pattern F10      |    |   |  |   |  |
| 12                             | Flange hole pattern F12      |    |   |  |   |  |
| 16                             | Flange hole pattern F16      |    |   |  |   |  |
| <b>Manual override</b>         |                              |    |   |  |   |  |
| MW                             | With handwheel               |    |   |  |   |  |
| <b>Temperature range</b>       |                              |    |   |  |   |  |
| –                              | Standard (–20 °C ... +80 °C) |    |   |  |   |  |
| T6                             | –50 °C ... +60 °C            |    |   |  |   |  |

## Quarter turn actuators DAPS CR

Type codes

**FESTO**

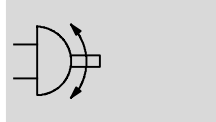
|                         |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-------------------------------------------------|------|---|------|---|-----|---|---|---|---|---|-----|---|----|---|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                         |                                                 | DAPS | - | 0015 | - | 090 | - | R | S | 4 | - | F03 | - | 05 | - | CR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Type                    |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DAPS                    | Quarter turn actuator for process automation    |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nominal torque in Nm    |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0015                    | 15 Nm                                           |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0030                    | 30 Nm                                           |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0060                    | 60 Nm                                           |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0120                    | 120 Nm                                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0240                    | 240 Nm                                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0480                    | 480 Nm                                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Swivel angle in degrees |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                      | 90°                                             |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Closing direction       |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R                       | Closes to right                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mode of operation       |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S                       | Single-acting                                   |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spring strength         |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                       | Spring strength for connection pressure 2.8 bar |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                       | Spring strength for connection pressure 3.5 bar |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                       | Spring strength for connection pressure 4.2 bar |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                       | Spring strength for connection pressure 5.6 bar |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1st flange hole pattern |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F03                     | Flange hole pattern 03                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F05                     | Flange hole pattern 05                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F07                     | Flange hole pattern 07                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2nd flange hole pattern |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05                      | Flange hole pattern 05                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07                      | Flange hole pattern 07                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                      | Flange hole pattern 10                          |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Special design          |                                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CR                      | Stainless steel                                 |      |   |      |   |     |   |   |   |   |   |     |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

### Function



Swivel angle  
0 ... 90°

Wearing parts kits  
→ 22



 Size  
0008 ... 8000

 Torque  
8 ... 8,000 Nm

| General technical data                  |                    |                 |                 |                 |                 |
|-----------------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
| Size                                    | 0008               | 0015 ... 0360   | 0480 ... 1920   | 2880 ... 5760   | 8000            |
| Pneumatic connection                    | G $\frac{1}{8}$    | G $\frac{1}{8}$ | G $\frac{1}{4}$ | G $\frac{3}{8}$ | G $\frac{3}{8}$ |
| Design                                  | Scotch yoke system |                 |                 |                 |                 |
| Mode of operation                       | Double-acting      |                 |                 |                 |                 |
| Mounting position                       | Any                |                 |                 |                 |                 |
| Position sensing                        | None               |                 |                 |                 |                 |
| Cushioning                              | No cushioning      |                 |                 |                 |                 |
| Swivel angle [°]                        | 90                 |                 |                 |                 |                 |
| End-position adjusting range at 0° [°]  | –                  | –               | –               | ±5              | ±5              |
| End-position adjusting range at 90° [°] | –                  | ±2              | ±2              | ±5              | ±5              |
| Closing direction                       | Closes to right    |                 |                 |                 |                 |

| Operating and environmental conditions       |                                                                                            |               |               |               |         |
|----------------------------------------------|--------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------|
| Size                                         | 0008                                                                                       | 0015 ... 0360 | 0480 ... 1920 | 2880 ... 5760 | 8000    |
| Operating pressure [bar]                     | 1 ... 8.4                                                                                  |               |               |               | 1 ... 7 |
| Nominal operating pressure [bar]             | 5.6                                                                                        |               |               |               |         |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |               |               |               |         |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |               |               |               |         |
| Ambient temperature [°C]                     | -20 ... +80                                                                                |               |               |               |         |
| Ambient temperature for variant T6 [°C]      | -                                                                                          | -50 ... +60   |               |               | -       |
| Corrosion resistance class CRC <sup>1)</sup> | 3                                                                                          |               |               |               |         |
| Connection to process valve as per standard  | ISO 5211                                                                                   |               |               |               |         |
| Valve connection as per standard             | VDI/VDE 3845 (NAMUR)                                                                       |               |               |               |         |

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature rating          | –20 °C ≤ Ta ≤ +60 °C                        |
| Explosion-proof temperature rating T6       | –50 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

## Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

| Air consumption [l/cycle] at 6 bar |      | Size      |       |
|------------------------------------|------|-----------|-------|
| Size                               |      | Size      |       |
| DAPS-0008                          | 0.4  | DAPS-0720 | 24.5  |
| DAPS-0015                          | 0.72 | DAPS-0960 | 48    |
| DAPS-0030                          | 1.44 | DAPS-1440 | 53.2  |
| DAPS-0060                          | 3    | DAPS-1920 | 96    |
| DAPS-0106                          | 5.04 | DAPS-2880 | 140   |
| DAPS-0180                          | 8.64 | DAPS-3840 | 170.1 |
| DAPS-0240                          | 12   | DAPS-5760 | 266   |
| DAPS-0360                          | 17.4 | DAPS-8000 | 300   |
| DAPS-0480                          | 24   |           |       |

| Weight [g] |       | Size      |         |
|------------|-------|-----------|---------|
| Size       |       | Size      |         |
| DAPS-0008  | 300   | DAPS-0720 | 12,000  |
| DAPS-0015  | 750   | DAPS-0960 | 17,400  |
| DAPS-0030  | 1,000 | DAPS-1440 | 23,000  |
| DAPS-0060  | 1,600 | DAPS-1920 | 32,000  |
| DAPS-0106  | 2,500 | DAPS-2880 | 56,000  |
| DAPS-0180  | 4,600 | DAPS-3840 | 49,000  |
| DAPS-0240  | 5,400 | DAPS-5760 | 86,000  |
| DAPS-0360  | 6,500 | DAPS-8000 | 106,000 |
| DAPS-0480  | 9,600 |           |         |

| Materials              |                                                     |                 |
|------------------------|-----------------------------------------------------|-----------------|
| Quarter turn actuators |                                                     | Material number |
| Housing                | Wrought aluminium alloy                             | –               |
| Cover                  | Wrought aluminium alloy                             | –               |
| Shaft                  | High-alloy steel                                    | 1.4305          |
| External screws        | High-alloy steel                                    | –               |
| Seals                  | FPM, NBR, PUR                                       | –               |
| Seals T6               | FVMQ, PTFE-reinforced                               | –               |
| Note on materials      | Contains PWIS (paint-wetting impairment substances) | –               |

## Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°] |                  |                          |         |         |         |       |         |         |         |
|-----------------------------------------------------------------------------------|------------------|--------------------------|---------|---------|---------|-------|---------|---------|---------|
| Size                                                                              | Swivel angle [°] | Operating pressure [bar] |         |         |         |       |         |         |         |
|                                                                                   |                  | 2.5                      | 3       | 4       | 5       | 5.6   | 6       | 7       | 8       |
| DAPS-0008                                                                         | 0                | 3.1                      | 3.8     | 5       | 6.3     | 7     | 7.5     | 8.8     | 10      |
|                                                                                   | 50               | 1.6                      | 1.9     | 2.5     | 3.1     | 3.5   | 3.8     | 4.4     | 5       |
|                                                                                   | 90               | 3.1                      | 3.8     | 5       | 6.3     | 7     | 7.5     | 8.8     | 10      |
| DAPS-0015                                                                         | 0                | 6.7                      | 8       | 10.7    | 13.4    | 15    | 16.1    | 18.8    | 21.4    |
|                                                                                   | 50               | 3.3                      | 4       | 5.4     | 6.7     | 7.5   | 8       | 9.4     | 10.7    |
|                                                                                   | 90               | 5                        | 6       | 8.1     | 10.1    | 11.3  | 12.1    | 14.1    | 16.1    |
| DAPS-0030                                                                         | 0                | 13.4                     | 16.1    | 21.4    | 26.8    | 30    | 32.1    | 37.5    | 42.9    |
|                                                                                   | 50               | 6.7                      | 8       | 10.7    | 13.4    | 15    | 16.1    | 18.8    | 21.4    |
|                                                                                   | 90               | 10                       | 12      | 16.1    | 20.1    | 22.5  | 24.1    | 28.1    | 32.1    |
| DAPS-0060                                                                         | 0                | 26.8                     | 32.1    | 42.9    | 53.6    | 60    | 64.3    | 75      | 85.7    |
|                                                                                   | 50               | 13.4                     | 16.1    | 21.4    | 26.8    | 30    | 32.1    | 37.5    | 42.9    |
|                                                                                   | 90               | 20.1                     | 24.1    | 32.1    | 40.2    | 45    | 48.2    | 56.3    | 64.3    |
| DAPS-0106                                                                         | 0                | 47.5                     | 57      | 76      | 95      | 106   | 114     | 133     | 151     |
|                                                                                   | 50               | 23.5                     | 28      | 38      | 47      | 53    | 57      | 66      | 76      |
|                                                                                   | 90               | 35.5                     | 43      | 57      | 71      | 80    | 86      | 100     | 114     |
| DAPS-0180                                                                         | 0                | 80.4                     | 96      | 128.4   | 160.8   | 180   | 193.2   | 225.6   | 264.8   |
|                                                                                   | 50               | 40.2                     | 48      | 64.8    | 80.4    | 90    | 96      | 112.8   | 128.4   |
|                                                                                   | 90               | 60.6                     | 72      | 97.2    | 121.2   | 135   | 145.2   | 169.2   | 193.2   |
| DAPS-0240                                                                         | 0                | 107.1                    | 128.6   | 171.4   | 214.3   | 240   | 257.1   | 300     | 342.9   |
|                                                                                   | 50               | 53.5                     | 64.3    | 85.7    | 107.1   | 120   | 128.6   | 150     | 171.4   |
|                                                                                   | 90               | 80.3                     | 96.4    | 128.6   | 160.7   | 180   | 192.9   | 225     | 257.1   |
| DAPS-0360                                                                         | 0                | 160.8                    | 192     | 256.8   | 321.6   | 360   | 386.4   | 451.2   | 513.6   |
|                                                                                   | 50               | 80.4                     | 96      | 129.6   | 160.8   | 180   | 192     | 225.6   | 264.8   |
|                                                                                   | 90               | 121.2                    | 144     | 194.4   | 242.4   | 270   | 290.4   | 338.4   | 386.4   |
| DAPS-0480                                                                         | 0                | 214.3                    | 257.1   | 342.9   | 428.6   | 480   | 514.3   | 600     | 685.7   |
|                                                                                   | 50               | 107.1                    | 128.6   | 171.4   | 214.3   | 240   | 257.1   | 300     | 342.9   |
|                                                                                   | 90               | 160.7                    | 192.9   | 257.1   | 321.4   | 360   | 358.7   | 450     | 514.3   |
| DAPS-0720                                                                         | 0                | 321.4                    | 384     | 513.6   | 643.2   | 720   | 772.8   | 902.4   | 1,027.2 |
|                                                                                   | 50               | 160.7                    | 192     | 259.2   | 321.6   | 360   | 384     | 451.2   | 529.6   |
|                                                                                   | 90               | 241                      | 288.1   | 388.8   | 484.8   | 540   | 580.8   | 676.8   | 772.8   |
| DAPS-0960                                                                         | 0                | 428.6                    | 514.3   | 685.7   | 857.1   | 960   | 1,028.6 | 1,200   | 1,371.4 |
|                                                                                   | 50               | 214.3                    | 257.1   | 342.9   | 428.6   | 480   | 514.3   | 600     | 685.7   |
|                                                                                   | 90               | 321.4                    | 385.7   | 514.3   | 642.9   | 720   | 771.4   | 900     | 1,028.6 |
| DAPS-1440                                                                         | 0                | 642.8                    | 768     | 1,027.2 | 1,286.4 | 1,440 | 1,545.6 | 1,804.8 | 2,057.4 |
|                                                                                   | 50               | 321.4                    | 384     | 518.4   | 643.2   | 720   | 768     | 902.4   | 1,059.2 |
|                                                                                   | 90               | 482.1                    | 576     | 777.6   | 969.9   | 1,080 | 1,161.6 | 1,353.6 | 1,545.6 |
| DAPS-1920                                                                         | 0                | 857.1                    | 1,028.6 | 1,371.4 | 1,714.3 | 1,920 | 2,057.1 | 2,400   | 2,742.9 |
|                                                                                   | 50               | 428.6                    | 514.3   | 685.8   | 857.1   | 960   | 1,028.6 | 1,200   | 1,371.4 |
|                                                                                   | 90               | 642.9                    | 771.4   | 1,028.6 | 1,285.7 | 1,440 | 1,542.9 | 1,800   | 2,057.1 |
| DAPS-2880                                                                         | 0                | 1,285                    | 1,542   | 2,057   | 2,571   | 2,880 | 3,085   | 3,600   | 4,114   |
|                                                                                   | 50               | 642                      | 771     | 1,028   | 1,285   | 1,440 | 1,542   | 1,800   | 2,057   |
|                                                                                   | 90               | 856                      | 1,028   | 1,371   | 1,741   | 1,920 | 2,056   | 2,400   | 2,742   |
| DAPS-3840                                                                         | 0                | 1,714                    | 2,057   | 2,743   | 3,428   | 3,840 | 4,114   | 4,800   | 5,485   |
|                                                                                   | 50               | 857                      | 1,028   | 1,371   | 1,714   | 1,920 | 2,057   | 2,400   | 2,742   |
|                                                                                   | 90               | 1,285                    | 1,543   | 2,057   | 2,571   | 2,880 | 3,085   | 3,600   | 4,114   |
| DAPS-5760                                                                         | 0                | 2,571                    | 3,085   | 4,114   | 5,142   | 5,760 | 6,171   | 7,200   | 8,228   |
|                                                                                   | 50               | 1,285                    | 1,542   | 2,057   | 2,571   | 2,880 | 3,085   | 3,600   | 4,141   |
|                                                                                   | 90               | 1,928                    | 2,313   | 3,085   | 3,856   | 4,320 | 4,628   | 5,400   | 6,171   |
| DAPS-8000                                                                         | 0                | 3,571.4                  | 4,285.7 | 5,714.3 | 7,142.9 | 8,000 | 8,571.4 | 10,000  | –       |
|                                                                                   | 50               | 1,785.7                  | 2,142.9 | 2,857.1 | 3,571.4 | 4,000 | 4,285.7 | 5,000   | –       |
|                                                                                   | 90               | 2,678.6                  | 3,214.3 | 4,285.7 | 5,357.1 | 6,000 | 6,428.6 | 7,500   | –       |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS, double-acting

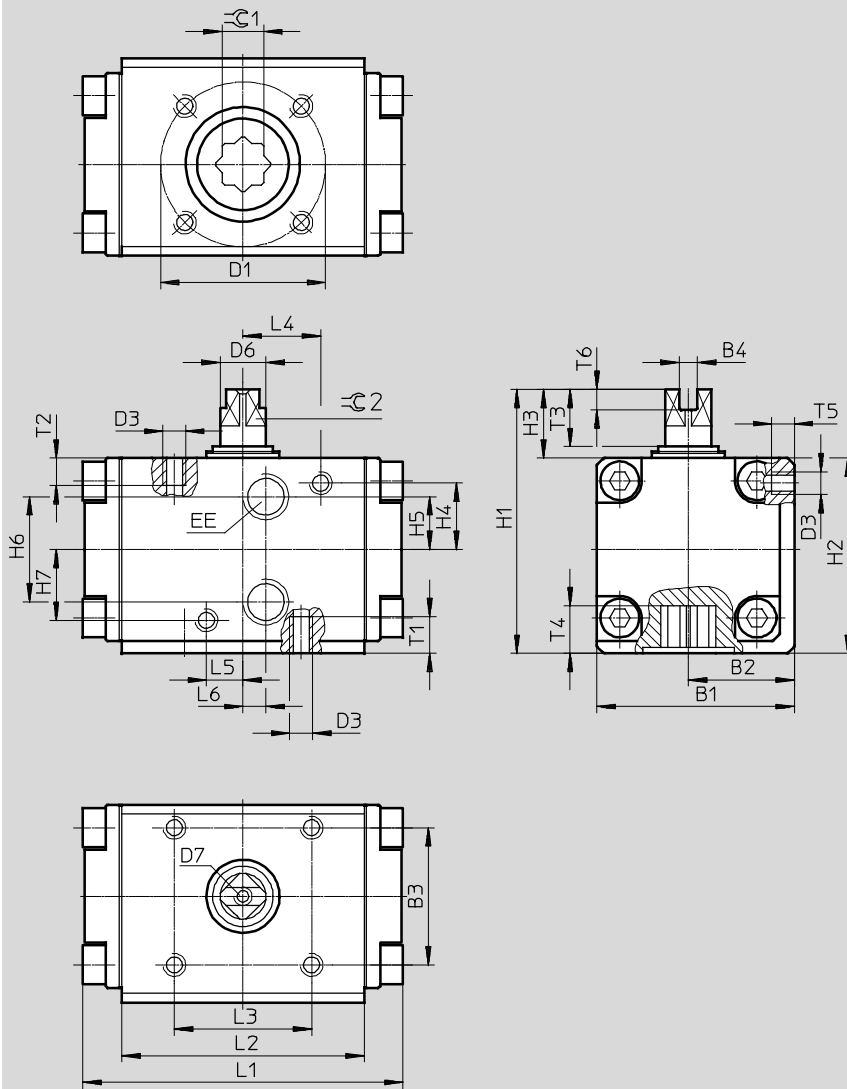
Technical data

**FESTO**

### Dimensions

Size 0008

Download CAD data → [www.festo.com](http://www.festo.com)



## Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

| Size         | B1   | B2   | B3 | B4<br>+0.1 | D1<br>Ø | D3 | D6<br>Ø | D7 | EE   | H1   | H2   | H3 | H4   | H5   | H6 |
|--------------|------|------|----|------------|---------|----|---------|----|------|------|------|----|------|------|----|
| DAPS-008-... | 43.2 | 23.2 | 30 | 4          | 36      | M5 | 10      | M6 | G1/8 | 57.7 | 42.7 | 15 | 14.5 | 11.5 | 23 |

| Size         | H7   | L1 | L2 | L3 | L4 | L5 | L6 | T1 | T2 | T3   | T4   | T5 | T6<br>+0.5 | ≡ 1<br>H11 | ≡ 2<br>h11 |
|--------------|------|----|----|----|----|----|----|----|----|------|------|----|------------|------------|------------|
| DAPS-008-... | 15.5 | 70 | 53 | 30 | 17 | 8  | 5  | 8  | 6  | 12.4 | 10.1 | 5  | 4.5        | 9          | 8          |

## Quarter turn actuators DAPS, double-acting

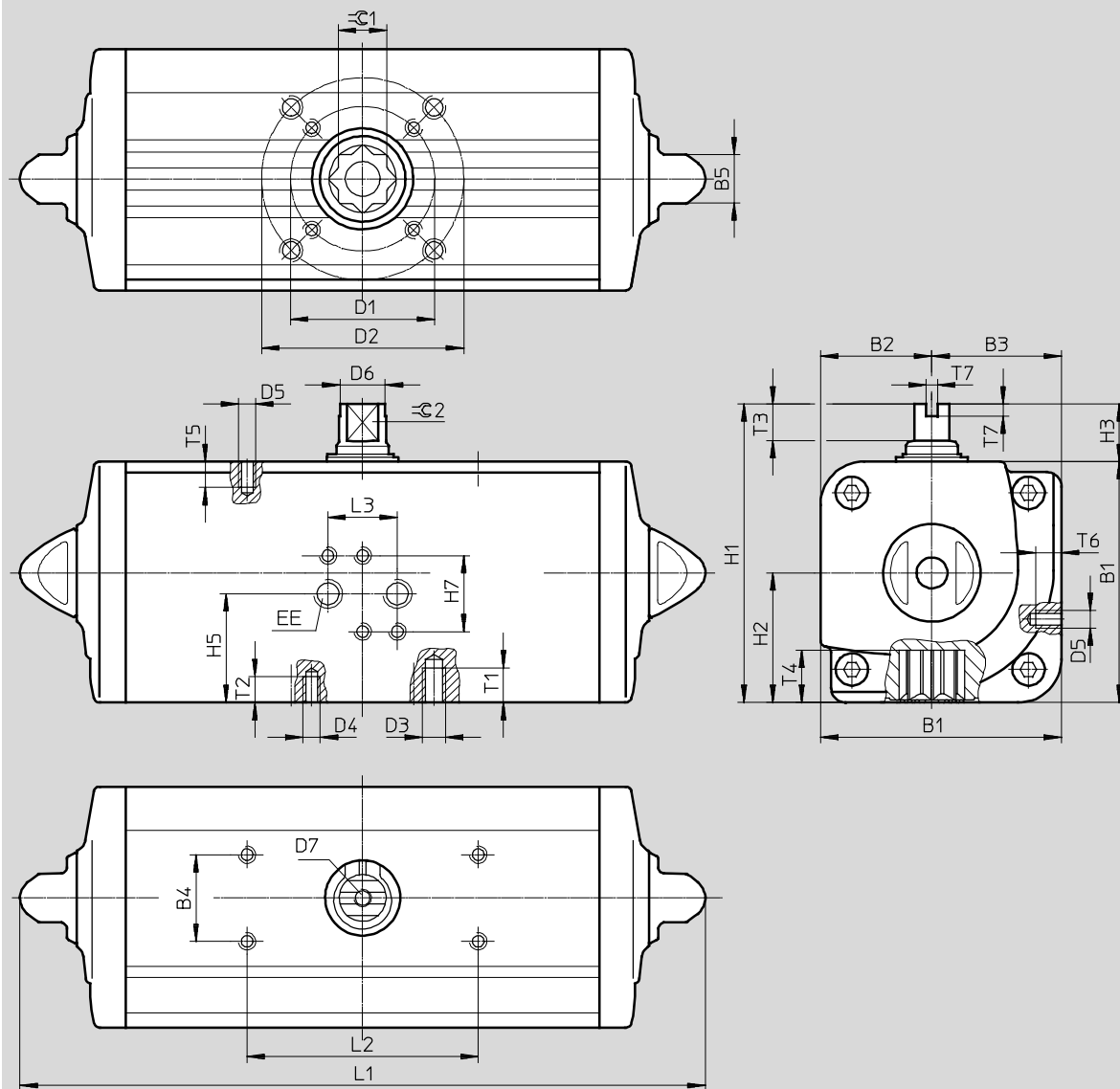
Technical data

**FESTO**

### Dimensions

Size 0015 ... 1920

Download CAD data → [www.festo.com](http://www.festo.com)



## Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

| Size                | B1    | B2   | B3   | B4 | B5 | D1<br>Ø<br>±0.1 | D2<br>Ø<br>±0.1 | D3  | D4 | D5 | D6<br>Ø | D7 | EE   | H1    | H2   |
|---------------------|-------|------|------|----|----|-----------------|-----------------|-----|----|----|---------|----|------|-------|------|
| DAPS-0015-...-F03   | 52.2  | 24.2 | 28   | 30 | 13 | 36              | –               | –   | M5 | M5 | 9.2     | M6 | G1/8 | 72.2  | 28   |
| DAPS-0015-...-F04   |       |      |      |    |    | 42              |                 |     | M5 |    |         |    |      |       |      |
| DAPS-0030-...-F0305 | 59.2  | 27.7 | 31.5 |    | 13 | 36              | 50              | M6  | M5 |    | 10.9    |    |      | 79.2  | 31.5 |
| DAPS-0030-...-F04   |       |      |      |    |    | 42              | –               | –   | M5 |    |         |    |      |       |      |
| DAPS-0060-...-F04   | 70.4  | 32.7 | 37.7 |    | 13 | 42              | –               | –   | M5 |    | 14.5    |    |      | 90.4  | 37.7 |
| DAPS-0060-...-F0507 |       |      |      |    |    | 50              | 70              | M8  | M6 |    |         |    |      |       |      |
| DAPS-0106-...-F0507 | 83.3  | 38.5 | 44.8 |    | 17 | 50              | 70              | M8  | M6 |    | 16.2    |    |      | 103.3 | 44.8 |
| DAPS-0180-...-F0710 | 107.5 | 51   | 56.5 |    | 22 | 70              | 102             | M10 | M8 |    | 20.2    |    |      | 137.5 | 56.5 |
| DAPS-0240-...-F0710 | 111.1 | 51   | 60.1 |    | 22 | 70              | 102             | M10 | M8 |    | 22.5    |    |      | 141.1 | 60.1 |
| DAPS-0360-...-F0710 | 118   | 56   | 62   |    | 22 | 70              | 102             | M10 | M8 |    | 25.5    |    |      | 148   | 62   |

| Size                | H3 | H5   | H7 | L1<br>±2 | L2 | L3 | T1 | T2 | T3 | T4   | T5 | T6 | T7 | ≈C 1 | ≈C 2 |
|---------------------|----|------|----|----------|----|----|----|----|----|------|----|----|----|------|------|
| DAPS-0015-...-F03   | 20 | 28.8 | 32 | 159      | 80 | 24 | –  | 8  | 10 | 13.2 | 6  | 7  | 4  | 11   | 8    |
| DAPS-0015-...-F04   |    |      |    |          |    |    |    | 8  |    |      |    |    |    |      |      |
| DAPS-0030-...-F0305 | 20 | 32.3 |    | 174      |    |    | 9  | 8  | 10 | 13.2 |    |    |    | 11   | 9    |
| DAPS-0030-...-F04   |    |      |    |          |    |    | –  | 8  |    |      |    |    |    |      |      |
| DAPS-0060-...-F04   | 20 | 37.7 |    | 198      |    |    | –  | 8  | 13 | 16.5 |    |    |    | 14   | 10   |
| DAPS-0060-...-F0507 |    |      |    |          |    |    | 12 | 9  |    |      |    |    |    |      |      |
| DAPS-0106-...-F0507 | 20 | 44.8 |    | 237.1    |    |    | 12 | 9  | 13 | 19.3 |    |    |    | 17   | 12   |
| DAPS-0180-...-F0710 | 30 | 56.5 |    | 289.9    |    |    | 15 | 12 | 16 | 24.8 |    |    |    | 22   | 15   |
| DAPS-0240-...-F0710 | 30 | 60.1 |    | 313.6    |    |    | 15 | 12 | 17 | 24.8 |    |    |    | 22   | 15   |
| DAPS-0360-...-F0710 | 30 | 62   |    | 339.3    |    |    | 15 | 12 | 19 | 24.3 |    |    |    | 22   | 19   |

| Size                | B1    | B2   | B3    | B4 | B5 | D1<br>Ø<br>±0.1 | D2<br>Ø<br>±0.1 | D3  | D4  | D5 | D6<br>Ø | D7 | EE | H1    | H2    |
|---------------------|-------|------|-------|----|----|-----------------|-----------------|-----|-----|----|---------|----|----|-------|-------|
| DAPS-0480-...-F1012 | 134.9 | 62   | 72.9  | 30 | 27 | 102             | 125             | M12 | M10 | M5 | 29      | M6 | G¼ | 164.9 | 72.9  |
| DAPS-0720-...-F1012 | 148   | 69.5 | 78.5  |    | 27 | 102             | 125             | M12 | M10 |    | 31.8    |    |    | 178   | 78.5  |
| DAPS-0960-...-F12   | 168   | 74.5 | 93.5  |    | 27 | 102             | 125             | M12 | M10 |    | 36.5    |    |    | 198   | 93.5  |
| DAPS-0960-...-F14   |       |      |       |    | 27 | 140             | –               | –   | M16 |    |         |    |    |       |       |
| DAPS-1440-...-F12   | 186   | 84.5 | 101.5 |    | 36 | 125             | –               | –   | M12 |    | 41      |    |    | 216   | 101.5 |
| DAPS-1440-...-F14   |       |      |       |    | 36 | 140             |                 |     | M16 |    |         |    |    |       |       |
| DAPS-1920-...-F14   | 207.7 | 93   | 114.7 |    | 36 | 140             | –               | –   | M16 |    | 46      |    |    | 237.7 | 114.7 |
| DAPS-1920-...-F1216 |       |      |       |    | 36 | 125             | 165             | M20 | M12 |    |         |    |    |       |       |

| Size                | H3 | H5   | H7 | L1    | L2 | L3 | T1 | T2 | T3   | T4   | T5 | T6 | T7 | ≈C 1 | ≈C 2 |  |  |  |  |  |  |
|---------------------|----|------|----|-------|----|----|----|----|------|------|----|----|----|------|------|--|--|--|--|--|--|
| DAPS-0480-...-F1012 | 30 | 57.4 | 32 | 387.7 | 80 | 24 | 18 | 15 | 19   | 29.5 | 6  | 7  | 4  | 27   | 19   |  |  |  |  |  |  |
| DAPS-0720-...-F1012 |    | 61.5 |    | 433   |    |    | 18 | 15 | 19.5 | 29.5 |    |    |    | 27   | 22   |  |  |  |  |  |  |
| DAPS-0960-...-F12   |    | 78   |    | 479.4 |    |    | 18 | 15 | 19.5 | 38.5 |    |    |    | 36   | 24   |  |  |  |  |  |  |
| DAPS-0960-...-F14   |    |      |    |       |    |    | –  | 24 |      |      |    |    |    |      |      |  |  |  |  |  |  |
| DAPS-1440-...-F12   |    | 86.5 |    | 567   |    |    | –  | 18 | 19.5 | 38.5 |    |    |    | 36   | 27   |  |  |  |  |  |  |
| DAPS-1440-...-F14   |    |      |    |       |    |    | –  | 24 |      |      |    |    |    |      |      |  |  |  |  |  |  |
| DAPS-1920-...-F14   |    | 99.2 |    | 601   |    |    | –  | 24 | 18.5 | 48.5 |    |    |    | 46   | 32   |  |  |  |  |  |  |
| DAPS-1920-...-F1216 |    |      |    |       |    |    | 30 | 18 |      |      |    |    |    |      |      |  |  |  |  |  |  |

## Quarter turn actuators DAPS, double-acting

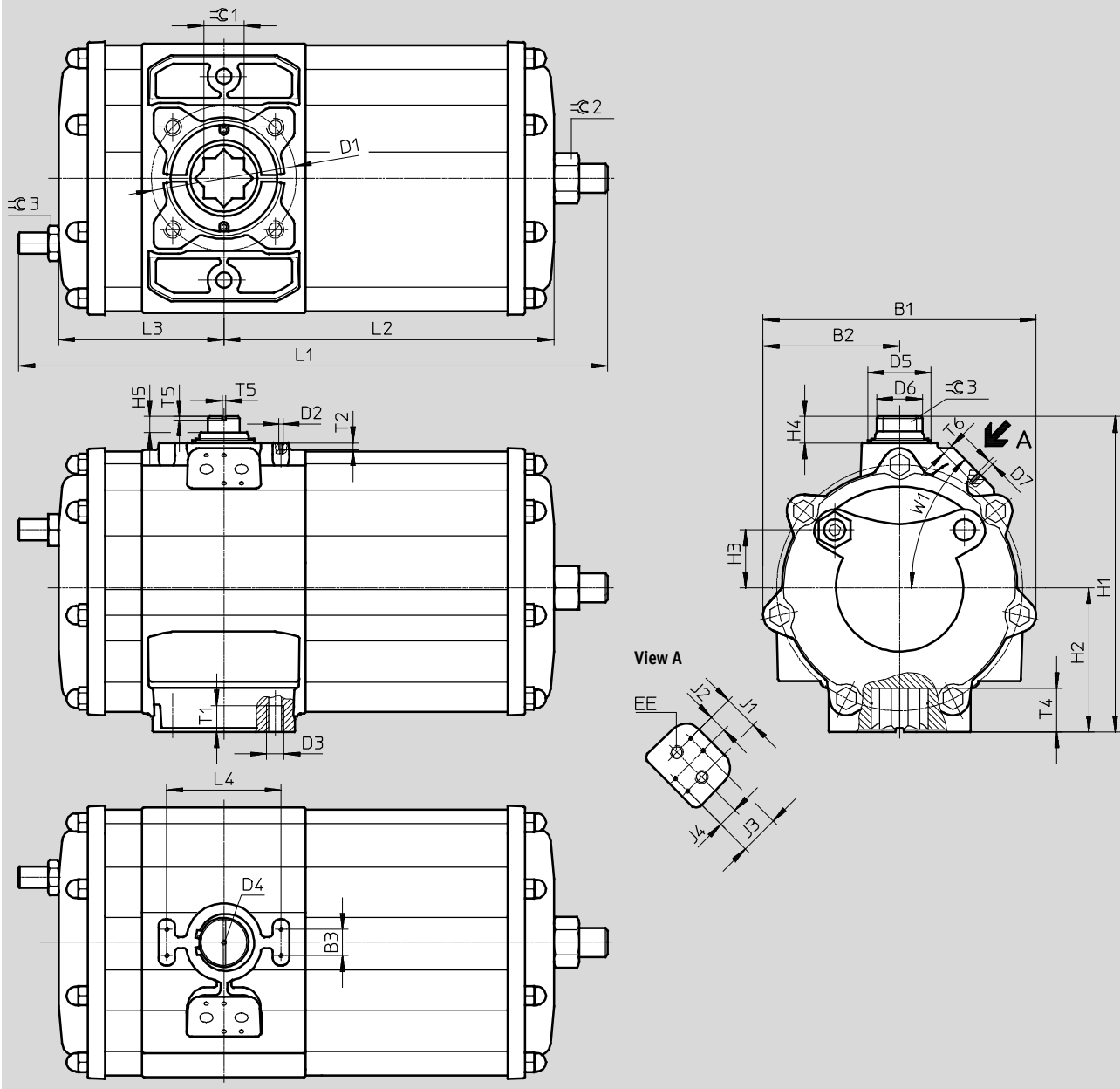
Technical data

**FESTO**

### Dimensions

Size 2880

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6<br>Ø | D7 | EE              | H1  | H2  | H3 | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|---------|----|-----------------|-----|-----|----|----|----|----|
| DAPS-2880-... | 311 | 155 | 30 | 165     | M5 | M20 | M6 | 72      | 52      | M6 | G $\frac{3}{8}$ | 359 | 164 | 66 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1<br>$\pm 2$ | L2  | L3  | L4  | T1 | T2 | T4<br>$\pm 0.8$ | T5 | T6 | W1  | $\varnothing 1$ | $\varnothing 2$ | $\varnothing 3$ |
|---------------|----|----|------|---------------|-----|-----|-----|----|----|-----------------|----|----|-----|-----------------|-----------------|-----------------|
| DAPS-2880-... | 20 | 45 | 22.5 | 667           | 372 | 188 | 130 | 30 | 8  | 49.5            | 4  | 10 | 45° | 46              | 50              | 36              |

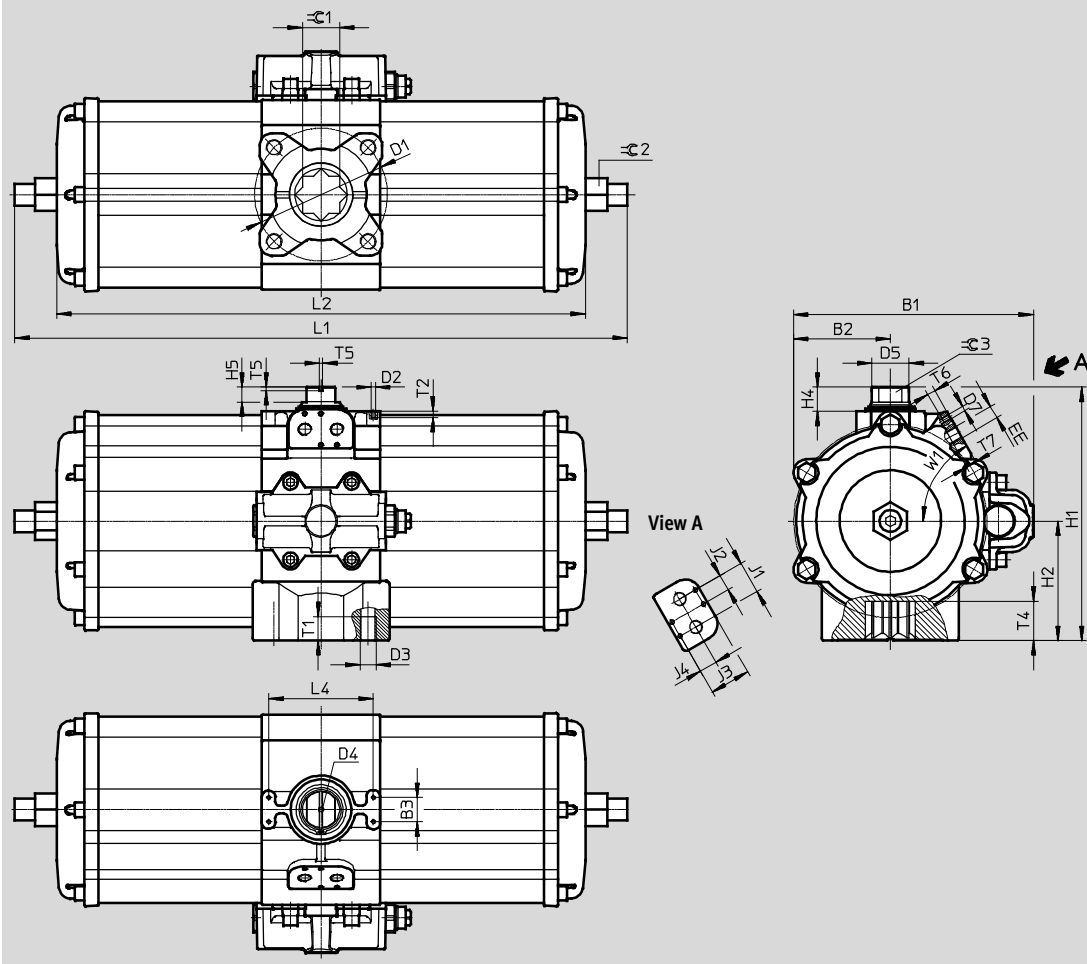
## Quarter turn actuators DAPS, double-acting

Technical data

### Dimensions

Size 3840

Download CAD data → [www.festo.com](http://www.festo.com)



| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D7 | EE              | H1  | H2    | H4 | H5   | J1 | J2 |
|---------------|-----|-----|----|---------|----|-----|----|---------|----|-----------------|-----|-------|----|------|----|----|
| DAPS-3840-... | 298 | 120 | 30 | 165     | M5 | M20 | M6 | 46      | M6 | G $\frac{3}{8}$ | 314 | 148.5 | 30 | 18.5 | 40 | 20 |

| Size          | J3 | J4   | L1<br>±2 | L2  | L4  | T1 | T2 | T4<br>±1 | T5 | T6 | T7 | W1  | ≈C 1 | ≈C 2 | ≈C 3 |
|---------------|----|------|----------|-----|-----|----|----|----------|----|----|----|-----|------|------|------|
| DAPS-3840-... | 45 | 22.5 | 765      | 614 | 130 | 30 | 8  | 49       | 4  | 10 | 13 | 60° | 46   | 41   | 32   |

## Quarter turn actuators DAPS, double-acting

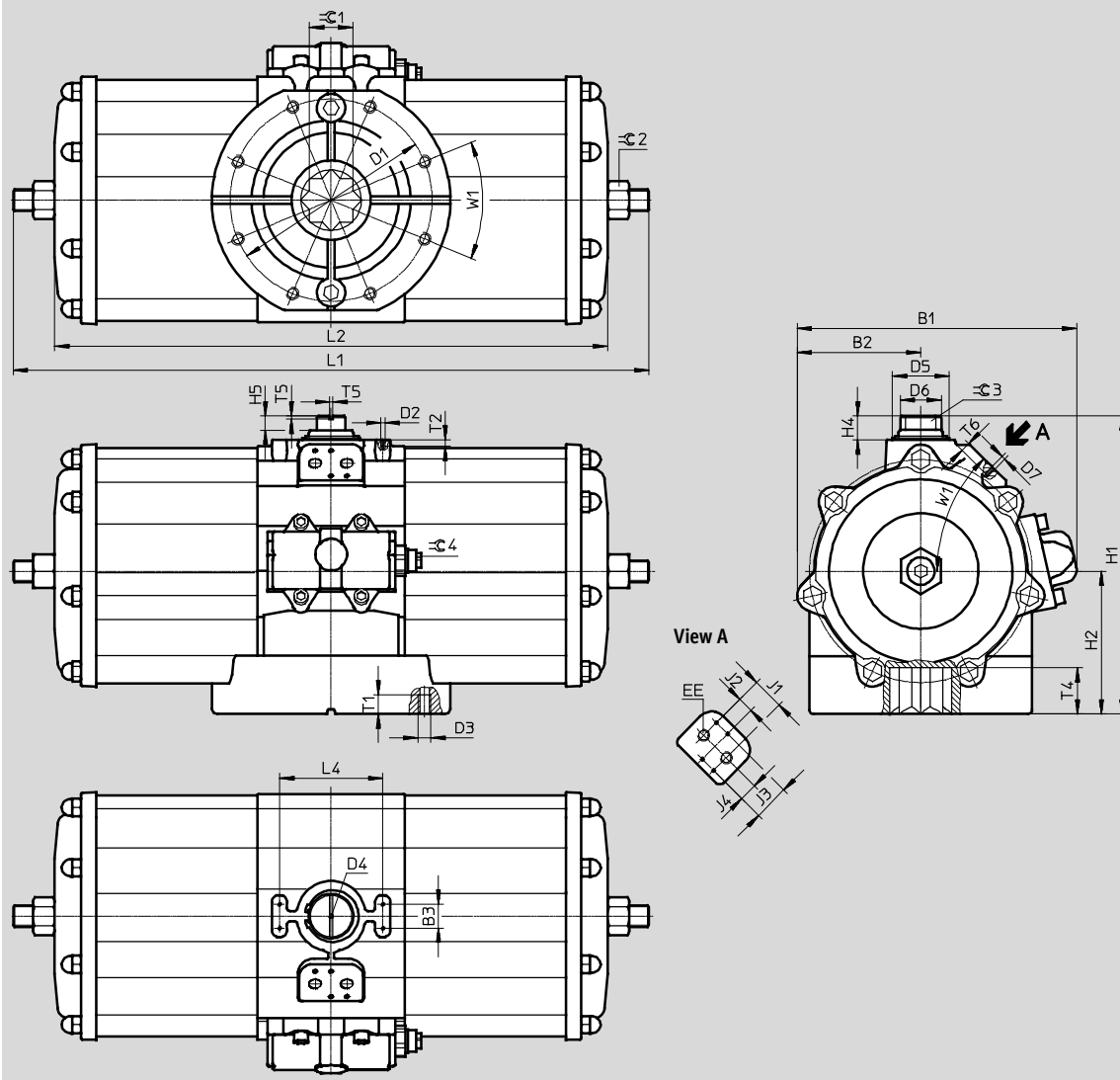
Technical data

**FESTO**

### Dimensions

Size 5760

Download CAD data → [www.festo.com](http://www.festo.com)



| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6 | D7 | EE              | H1  | H2  | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|----|----|-----------------|-----|-----|----|----|----|
| DAPS-5760-... | 361 | 155 | 30 | 254     | M5 | M16 | M6 | 72      | 52 | M6 | G $\frac{3}{8}$ | 374 | 179 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1<br>±2 | L2  | L4  | T1 | T2 | T4<br>±0.8 | T5 | T6 | W1  | ∠1 | ∠2 | ∠3 | ∠4 |
|---------------|----|----|------|----------|-----|-----|----|----|------------|----|----|-----|----|----|----|----|
| DAPS-5760-... | 20 | 45 | 22.5 | 885      | 744 | 130 | 24 | 8  | 58         | 4  | 10 | 45° | 55 | 50 | 36 | 15 |

## Quarter turn actuators DAPS, double-acting

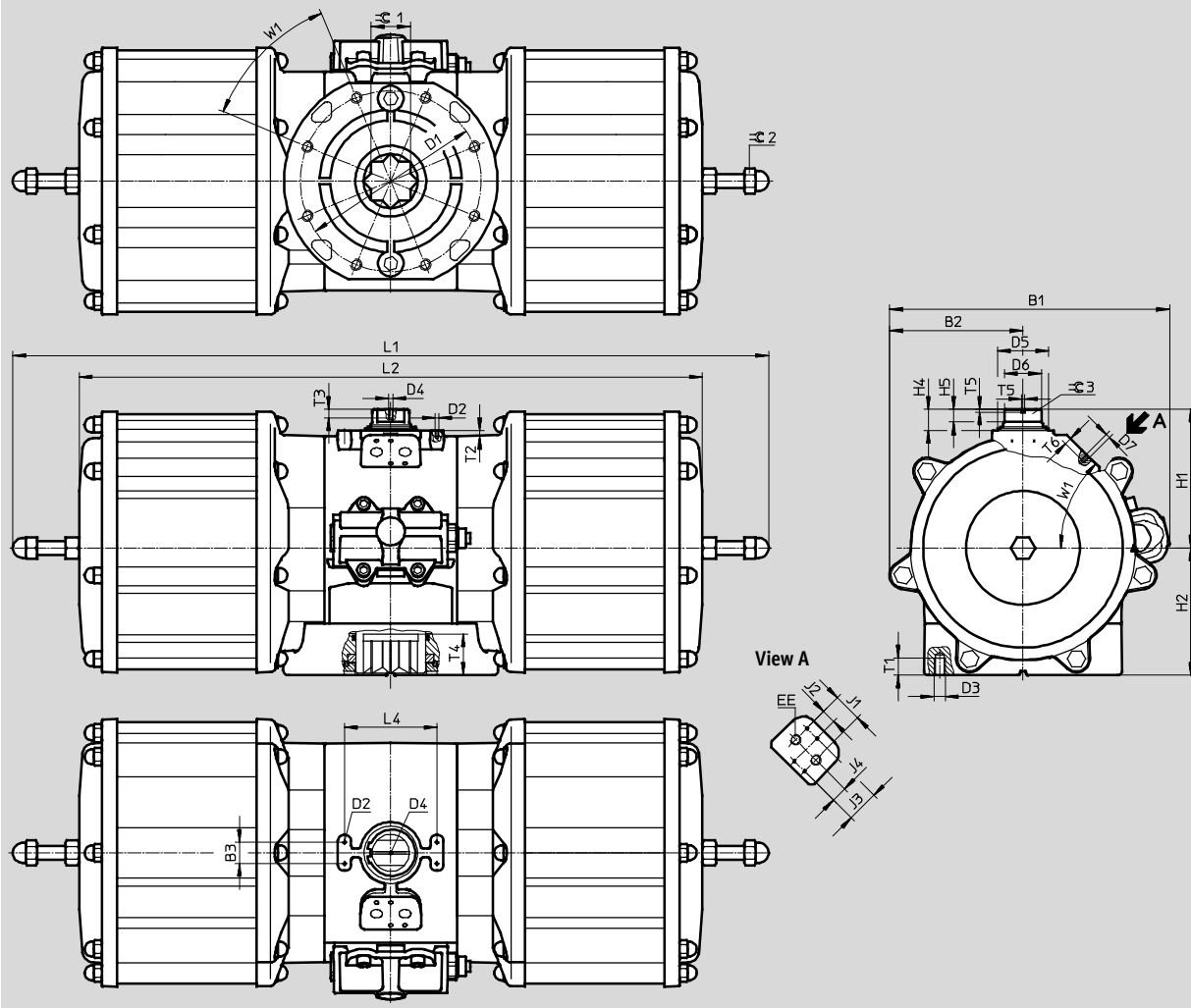
Technical data

**FESTO**

### Dimensions

Size 8000

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6<br>Ø | D7 | EE              | H1  | H2  | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|---------|----|-----------------|-----|-----|----|----|----|
| DAPS-8000-... | 394 | 188 | 30 | 254     | M5 | M16 | M6 | 72      | 52      | M6 | G $\frac{3}{8}$ | 195 | 179 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1    | L2  | L4  | T1 | T2 | T3 | T4 | T5 | T6 | W1  | ⌒ 1 | ⌒ 2 | ⌒ 3 |
|---------------|----|----|------|-------|-----|-----|----|----|----|----|----|----|-----|-----|-----|-----|
| DAPS-8000-... | 20 | 45 | 22.5 | 1,044 | 877 | 130 | 24 | 8  | 12 | 58 | 4  | 10 | 45° | 55  | 30  | 36  |

# Quarter turn actuators DAPS, double-acting

Technical data

**FESTO**

| Ordering data – Drives |                       |           |                       |
|------------------------|-----------------------|-----------|-----------------------|
| Part No.               | Type                  | Part No.  | Type                  |
| Size 0008              |                       | Size 0720 |                       |
| 549 666                | DAPS-0008-090-R-F03   | 549 667   | DAPS-0720-090-R-F1012 |
| Size 0015              |                       | Size 0960 |                       |
| 533 417                | DAPS-0015-090-R-F03   | 533 425   | DAPS-0960-090-R-F1012 |
| 533 475                | DAPS-0015-090-R-F04   | 533 478   | DAPS-0960-090-R-F14   |
| Size 0030              |                       | Size 1440 |                       |
| 533 418                | DAPS-0030-090-R-F0305 | 549 668   | DAPS-1440-090-R-F12   |
| 533 476                | DAPS-0030-090-R-F04   | 549 669   | DAPS-1440-090-R-F14   |
| Size 0060              |                       | Size 1920 |                       |
| 533 419                | DAPS-0060-090-R-F04   | 533 426   | DAPS-1920-090-R-F14   |
| 533 477                | DAPS-0060-090-R-F0507 | 533 479   | DAPS-1920-090-R-F1216 |
| Size 0106              |                       | Size 2880 |                       |
| 533 420                | DAPS-0106-090-R-F0507 | 549 670   | DAPS-2880-090-R-F16   |
| Size 0180              |                       | Size 3840 |                       |
| 533 421                | DAPS-0180-090-R-F0710 | 549 671   | DAPS-3840-090-R-F16   |
| Size 0240              |                       | Size 5760 |                       |
| 533 422                | DAPS-0240-090-R-F0710 | 549 672   | DAPS-5760-090-F25     |
| Size 0360              |                       | Size 8000 |                       |
| 533 423                | DAPS-0360-090-R-F0710 | 560 855   | DAPS-8000-090-R-F25   |
| Size 0480              |                       |           |                       |
| 533 424                | DAPS-0480-090-R-F1012 |           |                       |

| Ordering data – Wearing parts kits |                 |           |                 |
|------------------------------------|-----------------|-----------|-----------------|
| Part No.                           | Type            | Part No.  | Type            |
| Size 0015                          |                 | Size 0240 |                 |
| 397 470                            | DAPS-0015       | 397 475   | DAPS-0240/S0120 |
| Size 0030                          |                 | Size 0360 |                 |
| 397 471                            | DAPS-0030/S0015 | 397 476   | DAPS-0360/S0180 |
| Size 0060                          |                 | Size 0480 |                 |
| 397 472                            | DAPS-0060/S0030 | 397 477   | DAPS-0480/S0240 |
| Size 0106                          |                 | Size 0960 |                 |
| 397 473                            | DAPS-0106/S0053 | 397 478   | DAPS-0960/S0480 |
| Size 0180                          |                 | Size 1920 |                 |
| 397 474                            | DAPS-0180/S0090 | 397 479   | DAPS-1920/S0960 |

## Quarter turn actuators DAPS, double-acting

Technical data

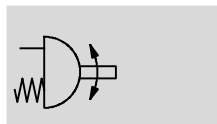
| Ordering data – Drives for variant T6 |                          | Part No. | Type |
|---------------------------------------|--------------------------|----------|------|
| Size 0015                             |                          |          |      |
| 553170                                | DAPS-0015-090-R-F03-T6   |          |      |
| 553171                                | DAPS-0015-090-R-F04-T6   |          |      |
| Size 0030                             |                          |          |      |
| 553172                                | DAPS-0030-090-R-F0305-T6 |          |      |
| 553173                                | DAPS-0030-090-R-F04-T6   |          |      |
| Size 0060                             |                          |          |      |
| 553174                                | DAPS-0060-090-R-F04-T6   |          |      |
| 553175                                | DAPS-0060-090-R-F0507-T6 |          |      |
| Size 0106                             |                          |          |      |
| 553176                                | DAPS-0106-090-R-F0507-T6 |          |      |
| Size 0180                             |                          |          |      |
| 553177                                | DAPS-0180-090-R-F0710-T6 |          |      |
| Size 0240                             |                          |          |      |
| 553178                                | DAPS-0240-090-R-F0710-T6 |          |      |
| Size 0360                             |                          |          |      |
| 553179                                | DAPS-0360-090-R-F0710-T6 |          |      |
| Size 0480                             |                          |          |      |
| 553180                                | DAPS-0480-090-R-F1012-T6 |          |      |
| Size 0720                             |                          |          |      |
| 553181                                | DAPS-0720-090-R-F1012-T6 |          |      |
| Size 0960                             |                          |          |      |
| 553182                                | DAPS-0960-090-R-F12-T6   |          |      |
| 553183                                | DAPS-0960-090-R-F14-T6   |          |      |
| Size 1440                             |                          |          |      |
| 553184                                | DAPS-1440-090-R-F12-T6   |          |      |
| 553185                                | DAPS-1440-090-R-F14-T6   |          |      |
| Size 1920                             |                          |          |      |
| 553186                                | DAPS-1920-090-R-F14-T6   |          |      |
| 553187                                | DAPS-1920-090-R-F1216-T6 |          |      |
| Size 2880                             |                          |          |      |
| 553188                                | DAPS-2880-090-R-F16-T6   |          |      |
| Size 3840                             |                          |          |      |
| 553189                                | DAPS-3840-090-R-F16-T6   |          |      |
| Size 5760                             |                          |          |      |
| 553190                                | DAPS-5760-090-R-F25-T6   |          |      |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

### Function



Swivel angle  
0 ... 90°

Wearing parts kits  
→ 37



Size  
0015 ... 4000

Torque  
15 ... 4000 Nm

| General technical data                      |                                        |               |               |            |
|---------------------------------------------|----------------------------------------|---------------|---------------|------------|
| Size                                        | 0015 ... 0180                          | 0240 ... 0960 | 1440 ... 1920 | 2880, 4000 |
| Pneumatic connection                        | G1/8                                   | G1/4          | G3/8          | G3/8       |
| Design                                      | Scotch yoke system                     |               |               |            |
| Mode of operation                           | Single-acting                          |               |               |            |
| Mounting position                           | Any                                    |               |               |            |
| Position sensing                            | None                                   |               |               |            |
| Cushioning                                  | No cushioning                          |               |               |            |
| Swivel angle [°]                            | 90                                     |               |               |            |
| End-position adjusting range at 0° [°]      | –                                      | –             | –             | ±5         |
| End-position adjusting range at 90° [°]     | ±2                                     | ±2            | ±2            | ±5         |
| Note regarding end-position adjusting range | One end position optionally adjustable |               |               |            |
| Closing direction                           | Closes to the right                    |               |               |            |

| Operating and environmental conditions       |                                                                                            |  |
|----------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Operating pressure <sup>1)</sup> [bar]       | 2.8 ... 8.4                                                                                |  |
| Nominal operating pressure [bar]             | 5.6                                                                                        |  |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |  |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |  |
| Ambient temperature [°C]                     | –20 ... +80                                                                                |  |
| Ambient temperature for variant T6 [°C]      | –50 ... +60                                                                                |  |
| Corrosion resistance class CRC <sup>2)</sup> | 3                                                                                          |  |
| Connection to process valve as per standard  | ISO 5211                                                                                   |  |
| Valve connection as per standard             | VDI/VDE 3845 (NAMUR)                                                                       |  |

1) Minimum operating pressures vary for single-acting rotary actuators depending upon spring quantity

2) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature rating          | –20 °C ≤ Ta ≤ +60 °C                        |
| Explosion-proof temperature rating T6       | –50 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

## Quarter turn actuators DAPS, single-acting

Technical data

| Air consumption [l/cycle] at 6 bar |       | Weight [g] |         |
|------------------------------------|-------|------------|---------|
| Size                               |       | Size       |         |
| DAPS-0015                          | 0.72  | DAPS-0015  | 1,200   |
| DAPS-0030                          | 1.44  | DAPS-0030  | 1,950   |
| DAPS-0053                          | 2.16  | DAPS-0053  | 3,000   |
| DAPS-0090                          | 4.32  | DAPS-0090  | 5,900   |
| DAPS-0120                          | 6     | DAPS-0120  | 6,800   |
| DAPS-0180                          | 8.64  | DAPS-0180  | 8,900   |
| DAPS-0240                          | 12    | DAPS-0240  | 11,800  |
| DAPS-0360                          | 14    | DAPS-0360  | 16,500  |
| DAPS-0480                          | 24    | DAPS-0480  | 22,700  |
| DAPS-0720                          | 29.4  | DAPS-0720  | 33,000  |
| DAPS-0960                          | 48    | DAPS-0960  | 42,000  |
| DAPS-1440                          | 77    | DAPS-1440  | 74,000  |
| DAPS-1920                          | 87.5  | DAPS-1920  | 67,000  |
| DAPS-2880                          | 147   | DAPS-2880  | 117,000 |
| DAPS-4000                          | 174.6 | DAPS-4000  | 183,000 |

| Materials         |                                                     | Material number |
|-------------------|-----------------------------------------------------|-----------------|
| Housing           | Wrought aluminium alloy                             | –               |
| Cover             | Wrought aluminium alloy                             | –               |
| Shaft             | High-alloy steel                                    | 1.4305          |
| External screws   | High-alloy steel                                    | –               |
| Seals             | FPM, NBR, PUR                                       | –               |
| Seals T6          | FVMQ, PTFE-reinforced                               | –               |
| Note on materials | Contains PWIS (paint-wetting impairment substances) | –               |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
|----------------------------------------------------------------------------------------------------|--------------------|-------|-------|--------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |       |       | Operating pressure [bar] |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
|                                                                                                    |                    |       |       | 2.5                      |      |      | 2.8  |      |      | 3     |       |       | 3.5   |       |      | 4.2  |       |       |
|                                                                                                    | 0°                 | 50°   | 90°   | 0°                       | 50°  | 90°  | 0°   | 50°  | 90°  | 0°    | 50°   | 90°   | 0°    | 50°   | 90°  | 0°   | 50°   | 90°   |
| <b>DAPS-0015</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 5.0                | 3.7   | 7.5   | 6.2                      | 2.9  | 3.7  | 7.5  | 3.7  | 5    | 8.4   | 4.2   | 5.9   | 10.6  | 5.6   | 8.1  | 13.8 | 7.4   | 11.3  |
| 2                                                                                                  | 6.3                | 4.7   | 9.4   | –                        | –    | –    | –    | –    | –    | 7.2   | 3.3   | 4     | 9.4   | 4.7   | 6.3  | 12.6 | 6.5   | 9.4   |
| 3                                                                                                  | 7.5                | 5.6   | 11.3  | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 8.2   | 3.7   | 4.4  | 11.3 | 5.6   | 7.5   |
| 4                                                                                                  | 10.0               | 7.5   | 15    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0030</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 10.0               | 7.5   | 15    | 12.3                     | 5.9  | 7.3  | 15   | 7.5  | 10   | 16.8  | 8.6   | 11.8  | 21.3  | 11.3  | 16.3 | 27.5 | 15    | 22.5  |
| 2                                                                                                  | 12.5               | 9.4   | 18.8  | –                        | –    | –    | –    | –    | –    | 14.3  | 6.7   | 8     | 18.8  | 9.4   | 12.5 | 25.1 | 13.2  | 18.8  |
| 3                                                                                                  | 15.0               | 11.3  | 22.5  | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 16.3  | 7.5   | 8.8  | 22.5 | 11.3  | 15    |
| 4                                                                                                  | 20.0               | 15    | 30    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0053</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 17.5               | 13    | 26.5  | 21.8                     | 10.2 | 12.8 | 26.5 | 13   | 17.5 | 29.6  | 14.9  | 20.6  | 37.5  | 19.5  | 28.5 | 48.5 | 26    | 39.5  |
| 2                                                                                                  | 22                 | 16.5  | 33    | –                        | –    | –    | –    | –    | –    | 25.1  | 11.8  | 14.1  | 33    | 16.5  | 22   | 44   | 23.1  | 33    |
| 3                                                                                                  | 26                 | 19.5  | 40    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 29    | 13    | 15   | 40   | 19.5  | 26    |
| 4                                                                                                  | 35                 | 26    | 53    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0090</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 30                 | 22.5  | 45    | 37                       | 17.7 | 22   | 45   | 22.5 | 30   | 50.4  | 25.7  | 35.4  | 63.8  | 33.8  | 48.8 | 82.5 | 45    | 67.5  |
| 2                                                                                                  | 37.5               | 28.1  | 56.3  | –                        | –    | –    | –    | –    | –    | 42.9  | 20.1  | 24.1  | 56.3  | 28.1  | 37.5 | 75.1 | 39.4  | 56.3  |
| 3                                                                                                  | 45                 | 33.9  | 67.5  | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 48.8  | 22.6  | 26.3 | 67.5 | 33.9  | 45    |
| 4                                                                                                  | 60                 | 45    | 90    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0120</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 40                 | 30    | 60    | 49.3                     | 23.6 | 29.3 | 60   | 30   | 40   | 67.1  | 34.3  | 47.1  | 85    | 45    | 65   | 110  | 60    | 90    |
| 2                                                                                                  | 50                 | 37.5  | 75    | –                        | –    | –    | –    | –    | –    | 57.1  | 26.8  | 32.1  | 75    | 37.5  | 50   | 100  | 52.5  | 75    |
| 3                                                                                                  | 60                 | 45    | 90    | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 65    | 30    | 35   | 90   | 45    | 60    |
| 4                                                                                                  | 80                 | 60    | 120   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0180</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 60                 | 45    | 90    | 73.9                     | 35.4 | 43.9 | 90   | 45   | 60   | 100.7 | 51.4  | 70.7  | 127.5 | 67.5  | 97.5 | 165  | 90    | 135   |
| 2                                                                                                  | 75                 | 56.3  | 112.5 | –                        | –    | –    | –    | –    | –    | 85.7  | 40.2  | 48.2  | 112.5 | 56.3  | 75   | 150  | 78.8  | 112.5 |
| 3                                                                                                  | 90                 | 67.5  | 135   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 97.5  | 45    | 52.5 | 135  | 67.5  | 90    |
| 4                                                                                                  | 120                | 90    | 180   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0240</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 80                 | 60    | 120   | 98.6                     | 47.1 | 58.6 | 120  | 60   | 80   | 134.3 | 68.6  | 94.3  | 170   | 90    | 130  | 220  | 120   | 180   |
| 2                                                                                                  | 100                | 75    | 150   | –                        | –    | –    | –    | –    | –    | 114.3 | 53.6  | 64.3  | 150   | 75    | 100  | 200  | 105   | 150   |
| 3                                                                                                  | 120                | 90    | 180   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 130   | 60    | 70   | 180  | 90    | 120   |
| 4                                                                                                  | 160                | 120   | 240   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |
| <b>DAPS-0360</b>                                                                                   |                    |       |       |                          |      |      |      |      |      |       |       |       |       |       |      |      |       |       |
| 1                                                                                                  | 120                | 90    | 180   | 147.9                    | 70.7 | 87.9 | 180  | 90   | 120  | 201.4 | 102.9 | 141.1 | 255   | 135   | 195  | 330  | 180   | 270   |
| 2                                                                                                  | 150                | 112.5 | 225   | –                        | –    | –    | –    | –    | –    | 171.4 | 80.4  | 96.4  | 225   | 112.5 | 150  | 300  | 157.5 | 225   |
| 3                                                                                                  | 180                | 135   | 270   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | 195   | 90    | 105  | 270  | 135   | 180   |
| 4                                                                                                  | 240                | 180   | 360   | –                        | –    | –    | –    | –    | –    | –     | –     | –     | –     | –     | –    | –    | –     | –     |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|----------------------------------------------------------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Spring strength                                                                                    | Operating pressure [bar] |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|                                                                                                    | 5                        |       |       | 5.6   |       |       | 6     |       |       | 7     |       |      | 8     |       |       |
|                                                                                                    | 0°                       | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°  | 0°    | 50°   | 90°   |
| <b>DAPS-0015</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 16.1                     | 8.7   | 13    | 18.8  | 10.3  | 15.7  | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 14.9                     | 7.7   | 11.1  | 17.6  | 9.3   | 13.8  | 19.4  | 10.4  | 15.6  | 23.8  | 13.1  | 20   | 28.3  | 15.7  | 24.5  |
| 4                                                                                                  | 12.3                     | 5.9   | 7.3   | 15    | 7.5   | 10    | 16.8  | 8.6   | 11.8  | 21.3  | 11.3  | 16.3 | 25.7  | 13.9  | 20.7  |
| <b>DAPS-0030</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 32.2                     | 17.5  | 25.9  | 37.6  | 20.7  | 31.3  | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 29.6                     | 15.6  | 22.1  | 35    | 18.8  | 27.5  | 38.6  | 21    | 31.1  | 47.5  | 26.4  | 40   | 56.4  | 31.7  | 48.9  |
| 4                                                                                                  | 24.6                     | 11.8  | 14.6  | 30    | 15    | 20    | 33.6  | 17.1  | 23.6  | 42.5  | 22.5  | 32.5 | 51.4  | 27.9  | 41.4  |
| <b>DAPS-0053</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 56.6                     | 30.6  | 45.6  | 66    | 36.3  | 55    | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 52.6                     | 26.9  | 38.6  | 62    | 32.5  | 48    | 68.3  | 36.2  | 54.3  | 84    | 45.5  | 70   | 99.7  | 54.8  | 85.7  |
| 4                                                                                                  | 43.6                     | 20.4  | 25.6  | 53    | 26    | 35    | 59.3  | 29.7  | 41.3  | 75    | 39    | 57   | 90    | 48.3  | 72.7  |
| <b>DAPS-0090</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 96.5                     | 52.2  | 77.7  | 112.6 | 61.9  | 93.8  | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 88.9                     | 46.8  | 66.4  | 105   | 56.5  | 82.5  | 115.7 | 63    | 93.2  | 142.5 | 79.1  | 120  | 169.3 | 95.2  | 146.8 |
| 4                                                                                                  | 73.9                     | 35.4  | 43.9  | 90    | 45    | 60    | 100.7 | 51.4  | 70.7  | 127.5 | 67.5  | 97.5 | 154.3 | 83.6  | 124.3 |
| <b>DAPS-0120</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 128.6                    | 69.6  | 103.6 | 150   | 82.5  | 125   | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 118.6                    | 62.1  | 88.6  | 140   | 75    | 110   | 154.3 | 83.6  | 124.3 | 190   | 105   | 160  | 225.7 | 126.4 | 195.7 |
| 4                                                                                                  | 98.6                     | 47.1  | 58.6  | 120   | 60    | 80    | 134.4 | 68.6  | 94.3  | 170   | 90    | 130  | 205.7 | 111.4 | 165.7 |
| <b>DAPS-0180</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 192.9                    | 104.5 | 155.4 | 225   | 123.8 | 187.5 | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 177.9                    | 93.2  | 132.9 | 210   | 112.5 | 165   | 231.4 | 125.4 | 186.4 | 285   | 157.5 | 240  | 338.6 | 189.6 | 293.6 |
| 4                                                                                                  | 147.9                    | 70.7  | 87.9  | 180   | 90    | 120   | 201.4 | 102.9 | 141.4 | 255   | 135   | 195  | 308.6 | 167.6 | 284.6 |
| <b>DAPS-0240</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 257.1                    | 139.3 | 207.1 | 300   | 165   | 250   | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 237.1                    | 124.3 | 177.1 | 280   | 150   | 220   | 308.6 | 167.1 | 248.6 | 380   | 210   | 320  | 451.4 | 252.9 | 391.4 |
| 4                                                                                                  | 197.1                    | 94.3  | 117.1 | 240   | 120   | 160   | 268.6 | 137.1 | 188.6 | 340   | 180   | 260  | 411.4 | 222.9 | 331.4 |
| <b>DAPS-0360</b>                                                                                   |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 2                                                                                                  | 385.7                    | 208.9 | 310.7 | 450   | 247.5 | 375   | –     | –     | –     | –     | –     | –    | –     | –     | –     |
| 3                                                                                                  | 355.7                    | 186.4 | 265.7 | 420   | 225   | 330   | 462.9 | 250.7 | 372.9 | 570   | 315   | 480  | 677.1 | 379.3 | 587.1 |
| 4                                                                                                  | 295.7                    | 141.4 | 175.7 | 360   | 180   | 240   | 402.9 | 205.7 | 282.9 | 510   | 270   | 390  | 617.1 | 334.3 | 497.1 |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------|--------------------|-------|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |       |       | Operating pressure [bar] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                                                                                    |                    |       |       | 2.5                      |       |       | 2.8   |       |       | 3     |       |       | 3.5   |       |       | 4.2   |       |       |
|                                                                                                    | 0°                 | 50°   | 90°   | 0°                       | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   |
| <b>DAPS-0480</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 160                | 120   | 240   | 197.1                    | 94.3  | 117.1 | 240   | 120   | 160   | 268.6 | 137.1 | 188.6 | 340   | 180   | 260   | 440   | 240   | 360   |
| 2                                                                                                  | 200                | 150   | 300   | –                        | –     | –     | –     | –     | –     | 228.6 | 107.1 | 128.6 | 300   | 150   | 200   | 400   | 210   | 300   |
| 3                                                                                                  | 240                | 180   | 360   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 260   | 120   | 140   | 360   | 180   | 240   |
| 4                                                                                                  | 320                | 240   | 480   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-0720</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 240                | 180   | 360   | 295.7                    | 141.4 | 175.7 | 360   | 180   | 240   | 402.9 | 205.7 | 282.9 | 510   | 270   | 390   | 660   | 360   | 540   |
| 2                                                                                                  | 300                | 225   | 450   | –                        | –     | –     | –     | –     | –     | 342.9 | 160.7 | 192.9 | 450   | 225   | 300   | 600   | 315   | 450   |
| 3                                                                                                  | 360                | 270   | 540   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 390   | 180   | 210   | 540   | 270   | 360   |
| 4                                                                                                  | 480                | 360   | 720   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-0960</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 320                | 240   | 480   | 394.3                    | 188.6 | 234.3 | 480   | 240   | 320   | 537.1 | 274.3 | 377.1 | 680   | 360   | 520   | 880   | 480   | 720   |
| 2                                                                                                  | 400                | 300   | 600   | –                        | –     | –     | –     | –     | –     | 457.1 | 214.3 | 257.1 | 600   | 300   | 400   | 800   | 420   | 600   |
| 3                                                                                                  | 480                | 360   | 720   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 520   | 240   | 280   | 720   | 360   | 480   |
| 4                                                                                                  | 640                | 480   | 960   | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-1440</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 480                | 360   | 720   | 591                      | 282   | 351   | 720   | 360   | 480   | 805   | 411   | 565   | 1,020 | 540   | 780   | 1,320 | 720   | 1,080 |
| 2                                                                                                  | 600                | 450   | 900   | –                        | –     | –     | –     | –     | –     | 685   | 321   | 385   | 900   | 450   | 600   | 1,200 | 630   | 900   |
| 3                                                                                                  | 720                | 540   | 1,080 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 780   | 360   | 420   | 1,080 | 540   | 720   |
| 4                                                                                                  | 960                | 720   | 1,440 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-1920</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 640                | 480   | 960   | 778                      | 377   | 468   | 960   | 480   | 640   | 1,074 | 548   | 754   | 1,360 | 720   | 1,040 | 1,760 | 960   | 1,440 |
| 2                                                                                                  | 800                | 600   | 1,200 | –                        | –     | –     | –     | –     | –     | 914   | 428   | 514   | 1,200 | 600   | 800   | 1,600 | 840   | 1,200 |
| 3                                                                                                  | 960                | 720   | 1,440 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 1,040 | 480   | 560   | 1,440 | 720   | 960   |
| 4                                                                                                  | 1,280              | 960   | 1,920 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-2880</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 960                | 720   | 1,440 | 1,183                    | 566   | 703   | 1,440 | 720   | 960   | 1,611 | 823   | 1,131 | 2,040 | 1,080 | 1,560 | 2,640 | 1,440 | 2,160 |
| 2                                                                                                  | 1,200              | 900   | 1,800 | –                        | –     | –     | –     | –     | –     | 1,370 | 643   | 771   | 1,800 | 900   | 1,200 | 2,400 | 1,260 | 1,800 |
| 3                                                                                                  | 1,440              | 1,080 | 2,160 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 1,560 | 720   | 840   | 2,160 | 1,080 | 1,440 |
| 4                                                                                                  | 1,920              | 1,440 | 2,880 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |
| <b>DAPS-4000</b>                                                                                   |                    |       |       |                          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                                                                                                  | 1,333              | 1,000 | 2,000 | 1,524                    | 714   | 857   | 2,000 | 1,000 | 1,333 | 2,238 | 1,143 | 1,571 | 2,833 | 1,500 | 2,166 | 3,666 | 2,000 | 2,999 |
| 2                                                                                                  | 1,666              | 1,250 | 2,500 | –                        | –     | –     | –     | –     | –     | 1,905 | 893   | 1,071 | 2,500 | 1,250 | 1,666 | 3,333 | 1,750 | 2,499 |
| 3                                                                                                  | 1,999              | 1,500 | 3,000 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | 2,167 | 1,000 | 1,166 | 3,000 | 1,500 | 1,999 |
| 4                                                                                                  | 2,666              | 2,000 | 4,000 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     | –     |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
|----------------------------------------------------------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|---------|---------|---------|
| Spring strength                                                                                    | Operating pressure [bar] |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
|                                                                                                    | 5                        |       |       | 5.6   |       |       | 6       |       |       | 7     |       |       | 8       |         |         |
|                                                                                                    | 0°                       | 50°   | 90°   | 0°    | 50°   | 90°   | 0°      | 50°   | 90°   | 0°    | 50°   | 90°   | 0°      | 50°     | 90°     |
| <b>DAPS-0480</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 514.3                    | 278.6 | 414.3 | 600   | 330   | 500   | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 474.3                    | 248.6 | 354.3 | 560   | 300   | 440   | 617.1   | 334.3 | 497.1 | 760   | 420   | 640   | 902.9   | 505.7   | 782.9   |
| 4                                                                                                  | 394.3                    | 118.6 | 234.3 | 480   | 240   | 320   | 537.1   | 274.3 | 377.1 | 680   | 360   | 520   | 822.9   | 445.7   | 662.9   |
| <b>DAPS-0720</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 771.4                    | 417.9 | 621.4 | 900   | 495   | 750   | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 711.4                    | 372.9 | 531.4 | 840   | 450   | 660   | 925.7   | 501.4 | 745.7 | 1,140 | 630   | 960   | 1,354   | 758.6   | 1,174   |
| 4                                                                                                  | 591.4                    | 282.9 | 351.4 | 720   | 360   | 480   | 805.7   | 411.4 | 565.7 | 1,020 | 540   | 780   | 1,234   | 668.6   | 994.3   |
| <b>DAPS-0960</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 1,028.6                  | 557.1 | 828.6 | 1,200 | 660   | 1,000 | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 948.6                    | 497.1 | 708.6 | 1,120 | 600   | 880   | 1,234.3 | 668.6 | 994.3 | 1,520 | 840   | 1,280 | 1,805.7 | 1,011.4 | 1,565.7 |
| 4                                                                                                  | 788.6                    | 377.1 | 468.6 | 960   | 480   | 640   | 1,074.3 | 548.6 | 754.3 | 1,360 | 720   | 1,040 | 1,645.7 | 891.4   | 1,325.7 |
| <b>DAPS-1440</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 1,542                    | 835   | 1,242 | 1,800 | 990   | 1,500 | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 1,422                    | 745   | 1,062 | 1,680 | 900   | 1,320 | 1,851   | 1,002 | 1,491 | 2,280 | 1,260 | 1,920 | 2,708   | 1,517   | 2,348   |
| 4                                                                                                  | 1,182                    | 565   | 702   | 1,440 | 720   | 960   | 1,611   | 822   | 1,131 | 2,040 | 1,080 | 1,560 | 2,468   | 1,337   | 1,988   |
| <b>DAPS-1920</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 2,057                    | 1,114 | 1,657 | 2,400 | 1,320 | 2,000 | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 1,897                    | 994   | 1,417 | 2,240 | 1,200 | 1,760 | 2,468   | 1,337 | 1,988 | 3,040 | 1,680 | 2,560 | 3,611   | 2,022   | 3,131   |
| 4                                                                                                  | 1,577                    | 754   | 937   | 1,920 | 960   | 1,280 | 2,148   | 1,097 | 1,508 | 2,720 | 1,440 | 2,080 | 3,291   | 1,782   | 2,651   |
| <b>DAPS-2880</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 3,085                    | 1,671 | 2,485 | 3,600 | 1,980 | 3,000 | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 2,845                    | 1,491 | 2,125 | 3,360 | 1,800 | 2,640 | 3,702   | 2,006 | 2,982 | 4,560 | 2,520 | 3,840 | 5,417   | 3,034   | 4,697   |
| 4                                                                                                  | 2,365                    | 1,131 | 1,405 | 2,880 | 1,440 | 1,920 | 3,222   | 1,645 | 2,262 | 4,080 | 2,160 | 3,120 | 4,937   | 2,674   | 3,977   |
| <b>DAPS-4000</b>                                                                                   |                          |       |       |       |       |       |         |       |       |       |       |       |         |         |         |
| 1                                                                                                  | –                        |       |       | –     |       |       | –       |       |       | –     |       |       | –       |         |         |
| 2                                                                                                  | 4,285                    | 2,321 | 3,451 | 5,000 | 2,750 | 4,166 | –       |       |       | –     |       |       | –       |         |         |
| 3                                                                                                  | 3,952                    | 2,071 | 2,951 | 4,666 | 2,500 | 3,665 | 5,143   | 2,786 | 4,141 | 6,333 | 3,500 | 5,332 | 7,523   | 4,214   | 6,522   |
| 4                                                                                                  | 3,286                    | 1,571 | 1,952 | 4,000 | 2,000 | 2,666 | 4,476   | 2,286 | 3,142 | 5,666 | 3,000 | 4,332 | 6,857   | 3,714   | 5,523   |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS, single-acting

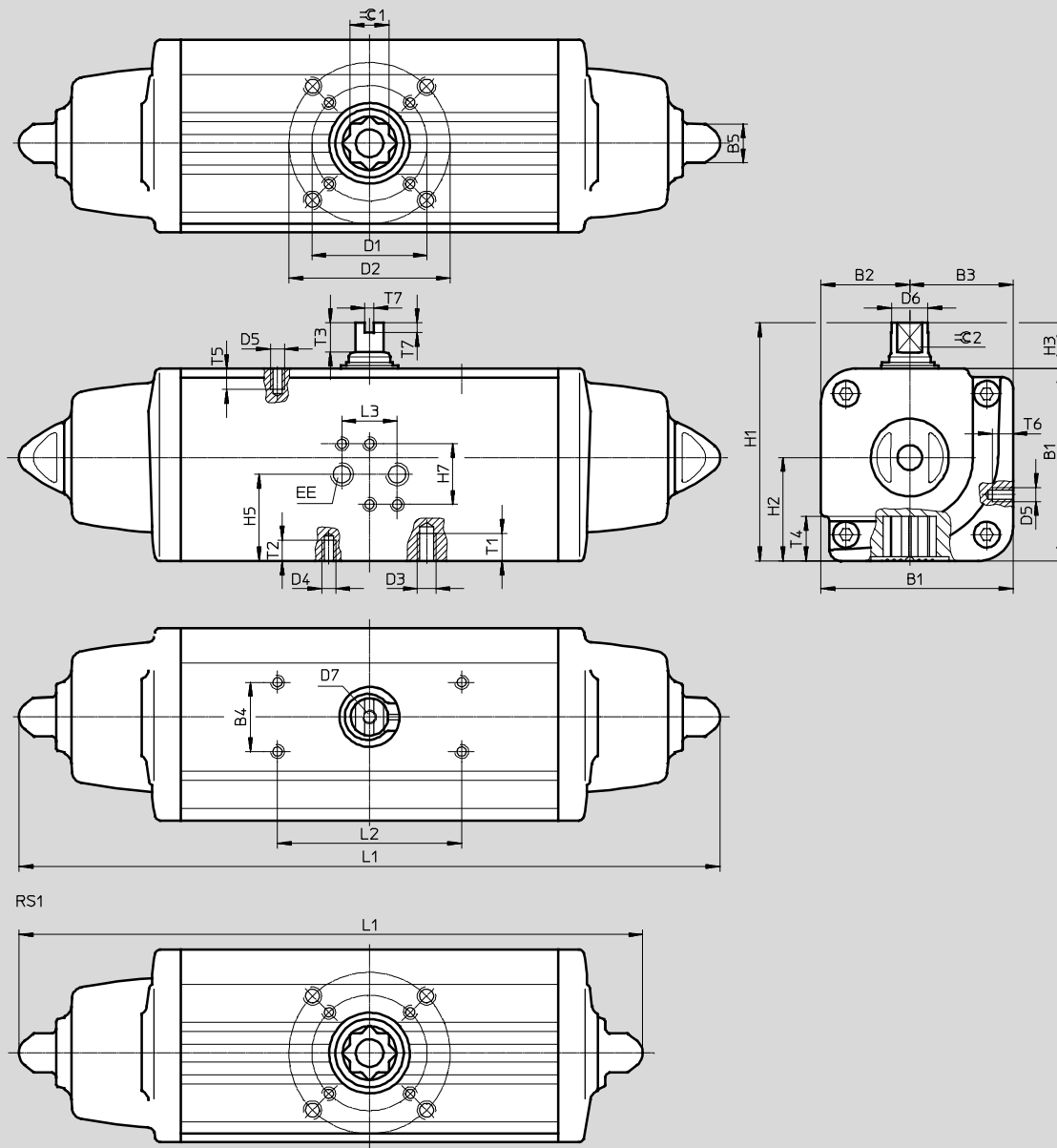
Technical data

**FESTO**

### Dimensions

Size 0015 ... 0960

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## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Size                 | B1    | B2   | B3   | B4 | B5 | D1<br>Ø<br>±0.1 | D2<br>Ø<br>±0.1 | D3  | D4 | D5 | D6<br>Ø | D7 | EE   | H1    | H2   | H3 |
|----------------------|-------|------|------|----|----|-----------------|-----------------|-----|----|----|---------|----|------|-------|------|----|
| DAPS-0015-....-F0305 | 59.2  | 27.7 | 31.5 | 30 | 13 | 36              | 50              | M6  | M5 | M5 | 10.9    | M6 | G1/8 | 79.2  | 31.5 | 20 |
| DAPS-0015-....-F04   |       |      |      |    | 13 | 42              | –               | –   |    |    |         |    |      |       |      |    |
| DAPS-0030-....-F04   | 70.4  | 32.7 | 37.7 |    | 13 | 42              | –               | –   | M5 |    | 14.5    |    |      |       |      |    |
| DAPS-0030-....-F0507 |       |      |      |    | 13 | 50              | 70              | M8  | M6 |    |         |    |      |       |      |    |
| DAPS-0053-....-F0507 | 83.3  | 38.5 | 44.8 |    | 17 | 50              | 70              | M8  | M6 |    | 16.2    |    |      | 103.3 | 44.8 | 20 |
| DAPS-0090-....-F0710 | 107.5 | 51   | 56.5 |    | 22 | 70              | 102             | M10 | M8 |    | 20.2    |    |      | 137.5 | 56.5 | 30 |
| DAPS-0120-....-F0710 | 111.1 | 51   | 60.1 |    | 22 | 70              | 102             | M10 | M8 |    | 22.5    |    |      | 141.1 | 60.1 | 30 |
| DAPS-0180-....-F0710 | 118   | 56   | 62   |    | 22 | 70              | 102             | M10 | M8 |    | 25.5    |    |      | 148   | 62   | 30 |

| Size                | H5   | H7 | L1    |        | L2 | L3 | T1 | T2 | T3 | T4   | T5 | T6 | T7 | ⊆ 1 | ⊆ 2 |
|---------------------|------|----|-------|--------|----|----|----|----|----|------|----|----|----|-----|-----|
|                     |      |    | RS1   | RS ... |    |    |    |    |    |      |    |    |    |     |     |
| DAPS-0015-...-F0305 | 32.3 | 32 | 203.8 | 233.3  | 80 | 24 | 9  | 8  | 10 | 13.2 | 6  | 7  | 4  | 11  | 9   |
| DAPS-0015-...-F04   |      |    |       |        |    |    | –  |    |    |      |    |    |    |     |     |
| DAPS-0030-...-F04   | 37.7 |    | 228.5 | 259    |    |    | –  | 8  | 13 | 16.5 |    |    |    | 14  | 10  |
| DAPS-0030-...-F0507 |      |    |       |        |    |    | 12 | 9  |    |      |    |    |    |     |     |
| DAPS-0053-...-F0507 | 44.8 |    | 270.7 | 304.3  |    |    | 12 | 9  | 13 | 19.3 |    |    |    | 17  | 12  |
| DAPS-0090-...-F0710 | 56.5 |    | 341.8 | 393.7  |    |    | 15 | 12 | 16 | 24.8 |    |    |    | 22  | 15  |
| DAPS-0120-...-F0710 | 60.1 |    | 361.6 | 409.6  |    |    | 15 | 12 | 17 | 24.8 |    |    |    | 22  | 15  |
| DAPS-0180-...-F0710 | 62   |    | 406.6 | 474    |    |    | 15 | 12 | 19 | 24.3 |    |    |    | 22  | 19  |

| Size                | B1    | B2   | B3    | B4 | B5 | D1<br>Ø | D2<br>Ø | D3  | D4  | D5 | D6<br>Ø | D7 | EE | H1    | H2    | H3 |
|---------------------|-------|------|-------|----|----|---------|---------|-----|-----|----|---------|----|----|-------|-------|----|
| DAPS-0240-...-F1012 | 134.9 | 62   | 72.9  | 30 | 27 | 102     | 125     | M12 | M10 | M5 | 29      | M6 | G¼ | 164.9 | 72.9  | 30 |
| DAPS-0360-...-F1012 | 148   | 69.5 | 78.5  |    | 27 | 102     | 125     | M12 | M10 |    | 31.8    |    |    | 178   | 78.5  |    |
| DAPS-0480-...-F1012 | 168   | 74.5 | 93.5  |    | 27 | 102     | 125     | M12 | M10 |    | 36.5    |    |    | 198   | 93.5  |    |
| DAPS-0480-...-F14   |       |      |       |    | 27 | 140     | –       | –   | M16 |    |         |    |    |       |       |    |
| DAPS-0720-...-F12   | 186   | 84.5 | 101.5 |    | 36 | 125     | –       | –   | M12 |    | 41      |    |    | 216   | 101.5 |    |
| DAPS-0720-...-F14   |       |      |       |    | 36 | 140     |         |     | M16 |    |         |    |    |       |       |    |
| DAPS-0960-...-F14   | 207.7 | 93   | 114.7 |    | 36 | 140     | –       | –   | M16 |    | 46      |    |    | 237.7 | 114.7 |    |
| DAPS-0960-...-F1216 |       |      |       |    | 36 | 125     | 165     | M20 | M12 |    |         |    |    |       |       |    |

| Size                | H5   | H7 | L1    |       | L2 | L3 | T1 | T2 | T3   | T4   | T5 | T6 | T7 | ≈C1 | ≈C2 |
|---------------------|------|----|-------|-------|----|----|----|----|------|------|----|----|----|-----|-----|
|                     |      |    | RS1   | RS... |    |    |    |    |      |      |    |    |    |     |     |
| DAPS-0240-...-F1012 | 57.4 | 32 | 454   | 520.5 | 80 | 24 | 18 | 15 | 19   | 29.5 | 6  | 7  | 4  | 27  | 19  |
| DAPS-0360-...-F1012 | 61.5 |    | 523   | 613   |    |    | 18 | 15 | 19.5 | 29.5 |    |    |    | 27  | 22  |
| DAPS-0480-...-F1012 | 78   |    | 563.8 | 648.2 |    |    | 18 | 15 | 19.5 | 38.5 |    |    |    | 36  | 24  |
| DAPS-0480-...-F14   |      |    |       |       |    |    | –  | 24 |      |      |    |    |    |     |     |
| DAPS-0720-...-F12   | 86.5 |    | 683   | 798   |    |    | –  | 18 | 19.5 | 38.5 |    |    |    | 36  | 27  |
| DAPS-0720-...-F14   |      |    |       |       |    |    | –  | 24 |      |      |    |    |    |     |     |
| DAPS-0960-...-F14   | 99.2 |    | 714.4 | 828   |    |    | –  | 24 | 18.5 | 48.5 |    |    |    | 46  | 32  |
| DAPS-0960-...-F1216 |      |    |       |       |    |    | 30 | 18 |      |      |    |    |    |     |     |

## Quarter turn actuators DAPS, single-acting

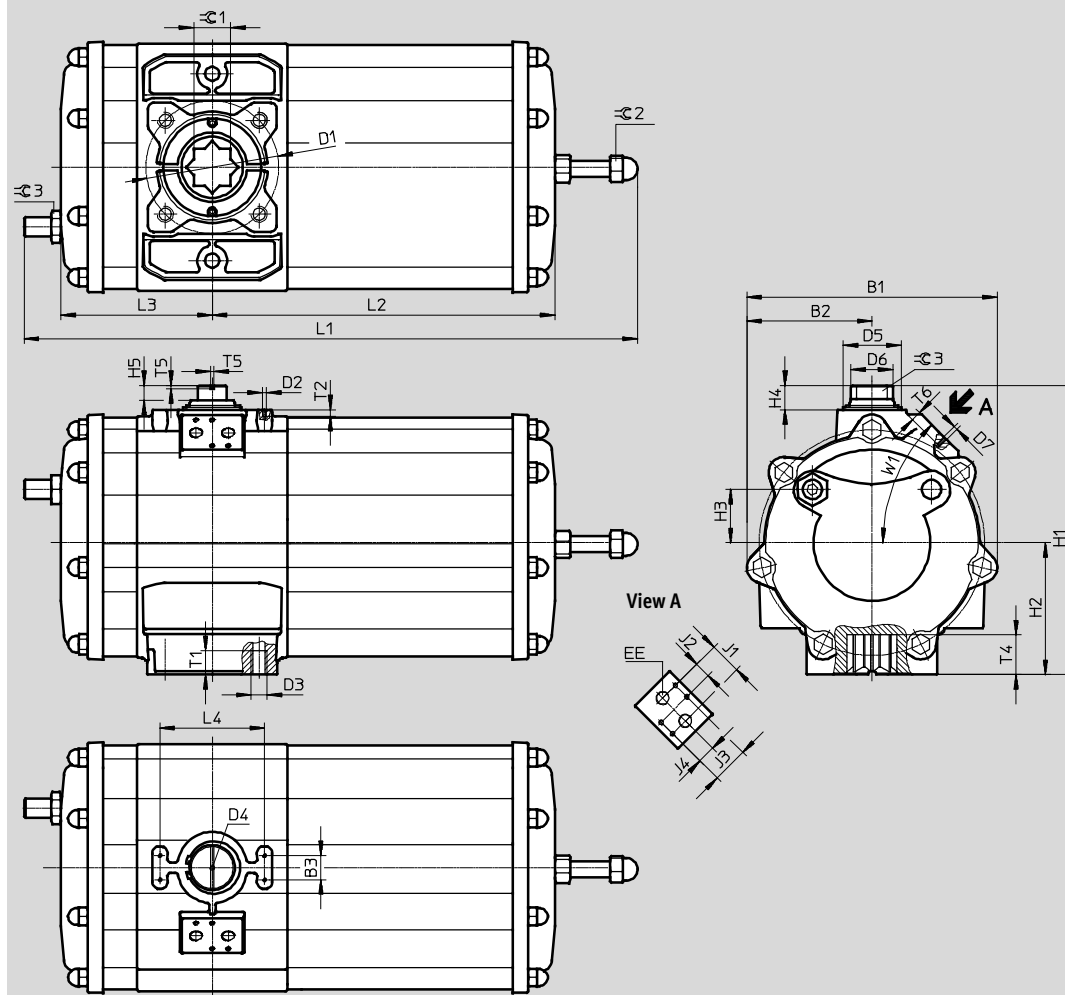
Technical data

**FESTO**

### Dimensions

Size 1440

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6<br>Ø | D7 | EE   | H1  | H2  | H3 | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|---------|----|------|-----|-----|----|----|----|----|
| DAPS-1440-... | 311 | 155 | 30 | 165     | M5 | M20 | M6 | 72      | 52      | M6 | G3/8 | 359 | 164 | 66 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1<br>±3 | L2  | L3  | L4  | T1 | T2 | T4<br>±0.8 | T5 | T6 | W1  | ≈C 1 | ≈C 2 | ≈C 3 |
|---------------|----|----|------|----------|-----|-----|-----|----|----|------------|----|----|-----|------|------|------|
| DAPS-1440-... | 20 | 45 | 22.5 | 834      | 498 | 188 | 130 | 30 | 8  | 49.5       | 4  | 10 | 45° | 46   | 30   | 36   |

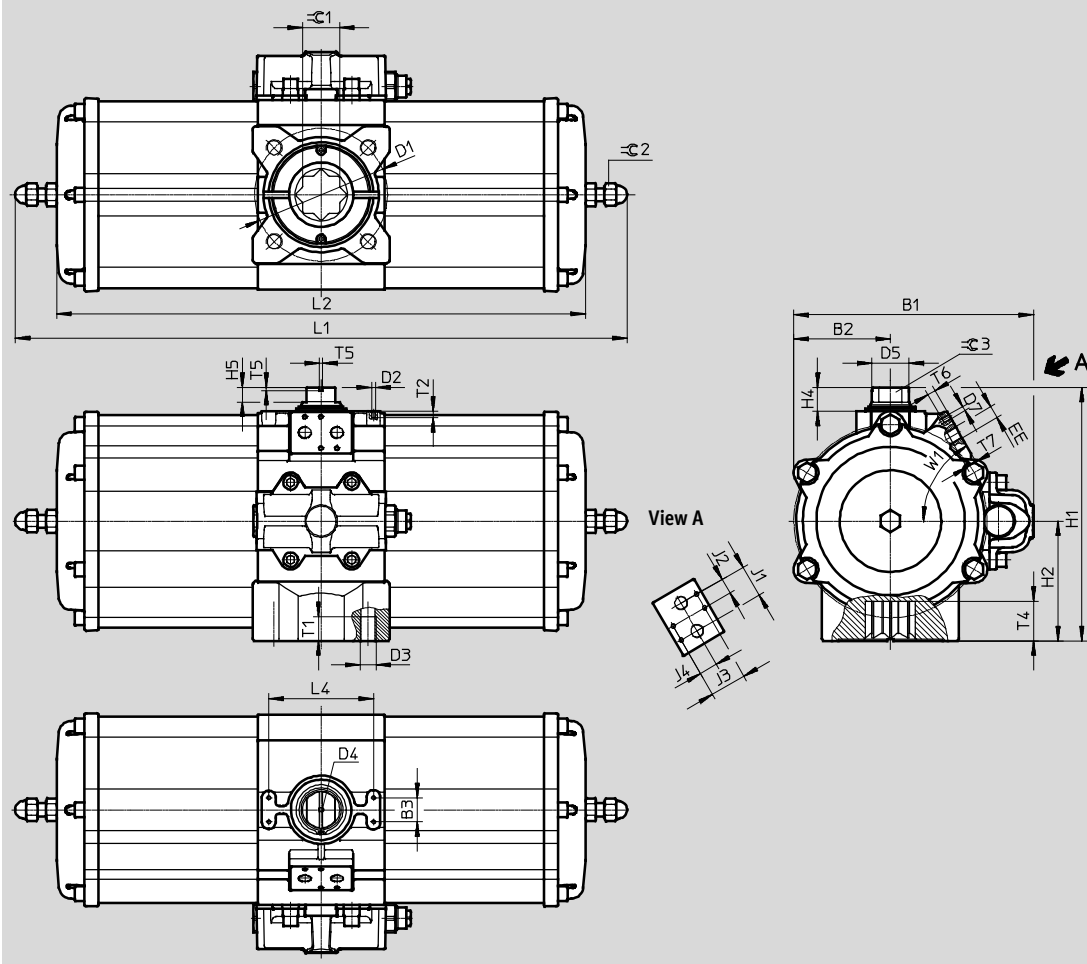
## Quarter turn actuators DAPS, single-acting

Technical data

### Dimensions

Size 1920

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D7 | EE              | H1  | H2    | H4 | H5   | J1 | J2 |
|---------------|-----|-----|----|---------|----|-----|----|---------|----|-----------------|-----|-------|----|------|----|----|
| DAPS-1920-... | 298 | 120 | 30 | 165     | M5 | M20 | M6 | 46      | M6 | G $\frac{3}{8}$ | 314 | 148.5 | 30 | 18.5 | 40 | 20 |

| Size          | J3 | J4   | L1<br>±3 | L2  | L4  | T1 | T2 | T4<br>±1 | T5 | T6 | T7 | W1  | ≈C 1 | ≈C 2 | ≈C 3 |
|---------------|----|------|----------|-----|-----|----|----|----------|----|----|----|-----|------|------|------|
| DAPS-1920-... | 45 | 22.5 | 1001     | 857 | 130 | 30 | 8  | 49       | 4  | 10 | 13 | 60° | 46   | 24   | 32   |

## Quarter turn actuators DAPS, single-acting

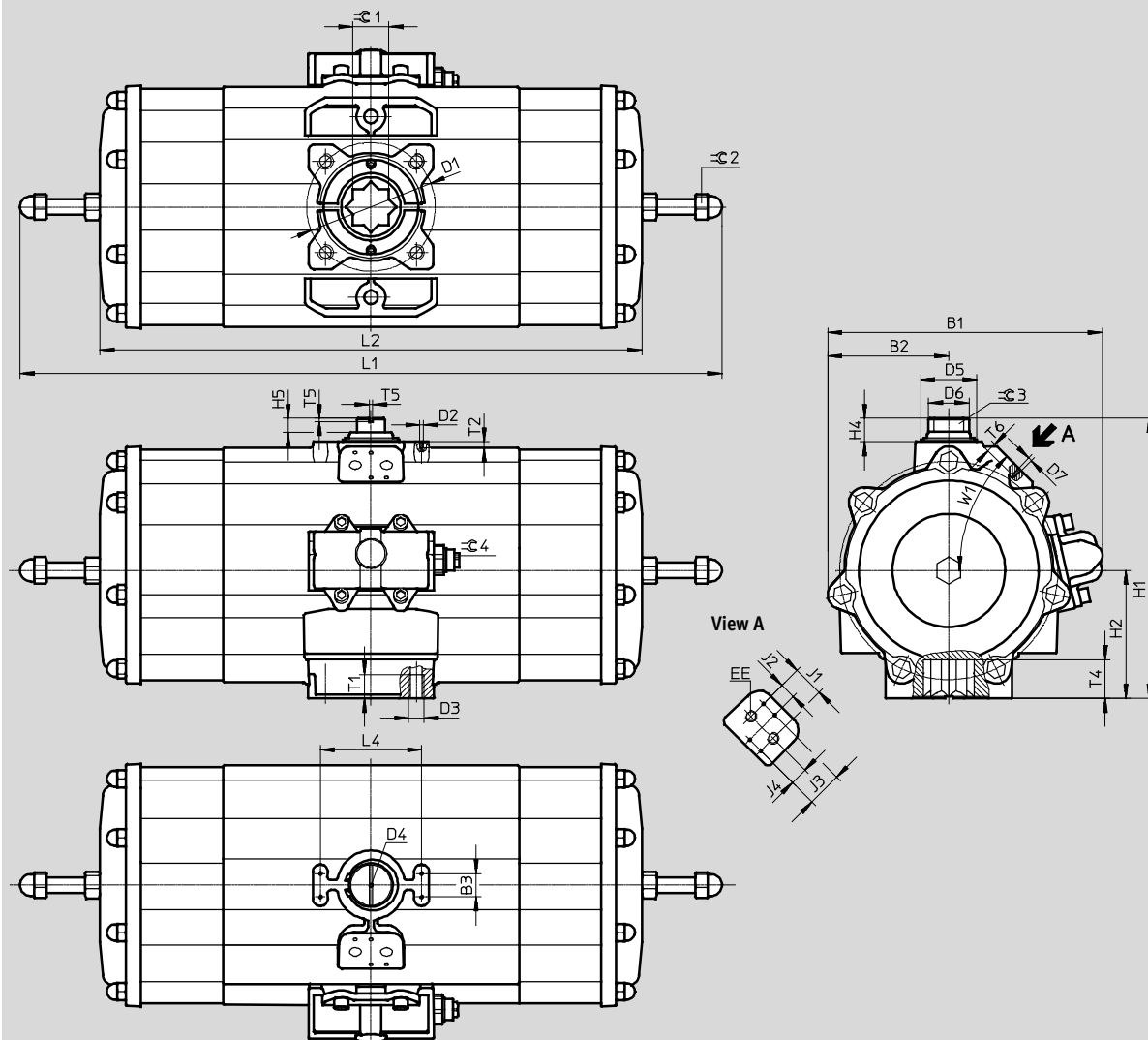
Technical data

**FESTO**

### Dimensions

Size 2880

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6<br>Ø | D7 | EE   | H1  | H2  | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|---------|----|------|-----|-----|----|----|----|
| DAPS-2880-... | 361 | 155 | 30 | 165     | M5 | M20 | M6 | 72      | 52      | M6 | G3/8 | 359 | 164 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1<br>±3 | L2  | L4  | T1 | T2 | T4   | T5 | T6 | W1  | ⊙ 1 | ⊙ 2 | ⊙ 3 | ⊙ 4 |
|---------------|----|----|------|----------|-----|-----|----|----|------|----|----|-----|-----|-----|-----|-----|
| DAPS-2880-... | 20 | 45 | 22.5 | 1,201    | 996 | 130 | 30 | 8  | 49.5 | 4  | 10 | 45° | 46  | 30  | 36  | 15  |

## Quarter turn actuators DAPS, single-acting

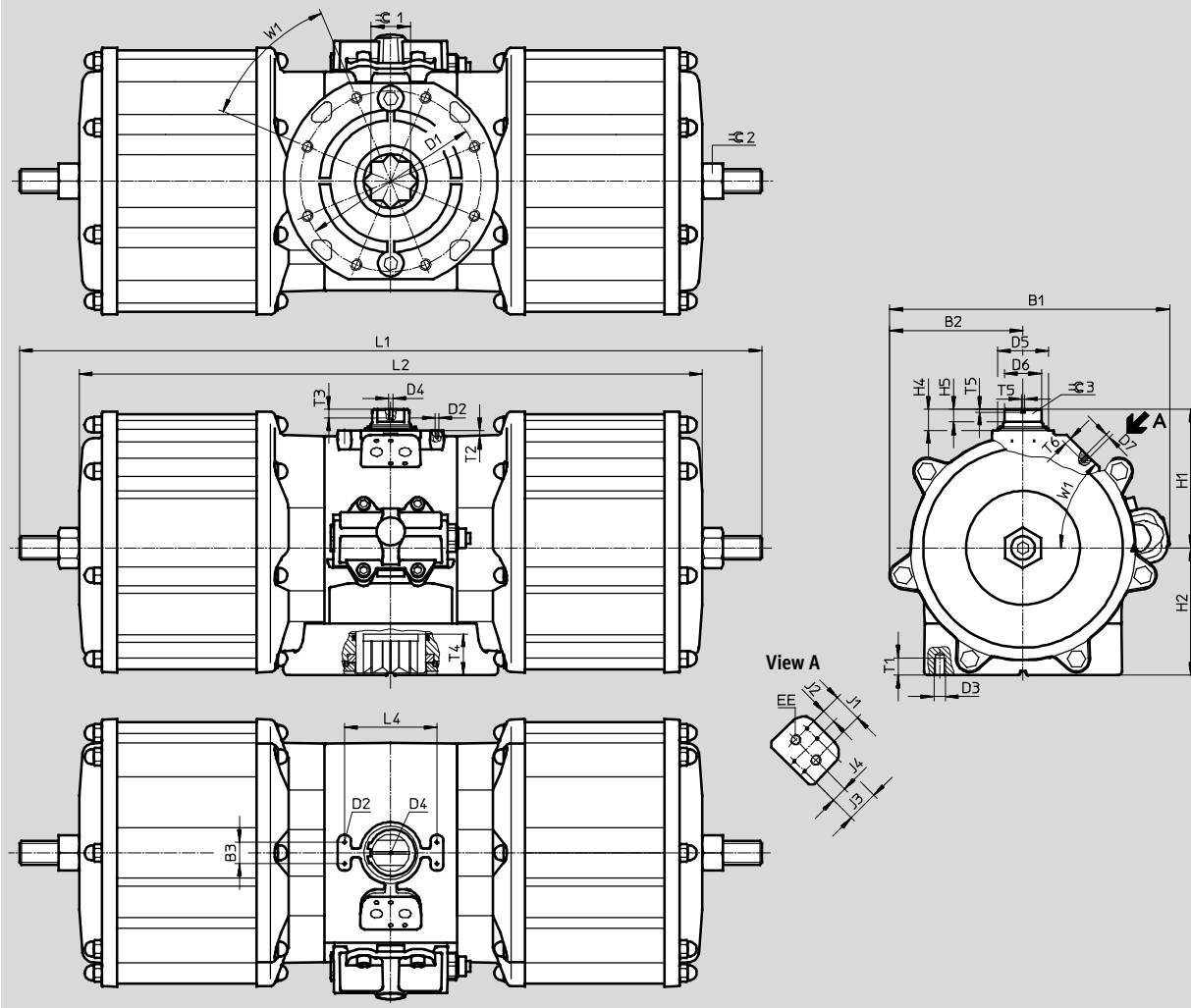
Technical data

**FESTO**

### Dimensions

Size 4000

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| Size          | B1  | B2  | B3 | D1<br>Ø | D2 | D3  | D4 | D5<br>Ø | D6<br>Ø | D7 | EE                            | H1  | H2  | H4 | H5 | J1 |
|---------------|-----|-----|----|---------|----|-----|----|---------|---------|----|-------------------------------|-----|-----|----|----|----|
| DAPS-4000-... | 394 | 188 | 30 | 254     | M5 | M16 | M6 | 72      | 52      | M6 | G <sup>3</sup> / <sub>8</sub> | 195 | 179 | 30 | 18 | 40 |

| Size          | J2 | J3 | J4   | L1    | L2    | L4  | T1 | T2 | T3 | T4 | T5 | T6 | W1  | ⌀ 1 | ⌀ 2 | ⌀ 3 |
|---------------|----|----|------|-------|-------|-----|----|----|----|----|----|----|-----|-----|-----|-----|
| DAPS-4000-... | 20 | 45 | 22.5 | 1,370 | 1,184 | 130 | 24 | 8  | 12 | 58 | 4  | 10 | 45° | 55  | 50  | 36  |

# Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Ordering data |                         |  |           |                         |  |
|---------------|-------------------------|--|-----------|-------------------------|--|
| Part No.      | Type                    |  | Part No.  | Type                    |  |
| Size 0015     |                         |  | Size 0480 |                         |  |
| 533 427       | DAPS-0015-090-RS1-F0305 |  | 533 455   | DAPS-0480-090-RS1-F1012 |  |
| 533 480       | DAPS-0015-090-RS1-F04   |  | 533 488   | DAPS-0480-090-RS1-F14   |  |
| 533 428       | DAPS-0015-090-RS2-F0305 |  | 533 456   | DAPS-0480-090-RS2-F1012 |  |
| 533 481       | DAPS-0015-090-RS2-F04   |  | 533 489   | DAPS-0480-090-RS2-F14   |  |
| 533 429       | DAPS-0015-090-RS3-F0305 |  | 533 457   | DAPS-0480-090-RS3-F1012 |  |
| 533 482       | DAPS-0015-090-RS3-F04   |  | 533 490   | DAPS-0480-090-RS3-F14   |  |
| 533 430       | DAPS-0015-090-RS4-F0305 |  | 533 458   | DAPS-0480-090-RS4-F1012 |  |
| 533 483       | DAPS-0015-090-RS4-F04   |  | 533 491   | DAPS-0480-090-RS4-F14   |  |
| Size 0030     |                         |  | Size 0720 |                         |  |
| 533 431       | DAPS-0030-090-RS1-F04   |  | 549 677   | DAPS-0720-090-RS1-F12   |  |
| 533 484       | DAPS-0030-090-RS1-F0507 |  | 549 681   | DAPS-0720-090-RS1-F14   |  |
| 533 432       | DAPS-0030-090-RS2-F04   |  | 549 678   | DAPS-0720-090-RS2-F12   |  |
| 533 485       | DAPS-0030-090-RS2-F0507 |  | 549 682   | DAPS-0720-090-RS2-F14   |  |
| 533 433       | DAPS-0030-090-RS3-F04   |  | 549 679   | DAPS-0720-090-RS3-F12   |  |
| 533 486       | DAPS-0030-090-RS3-F0507 |  | 549 683   | DAPS-0720-090-RS3-F14   |  |
| 533 434       | DAPS-0030-090-RS4-F04   |  | 549 680   | DAPS-0720-090-RS4-F12   |  |
| 533 487       | DAPS-0030-090-RS4-F0507 |  | 549 684   | DAPS-0720-090-RS4-F14   |  |
| Size 0053     |                         |  | Size 0960 |                         |  |
| 533 435       | DAPS-0053-090-RS1-F0507 |  | 533 459   | DAPS-0960-090-RS1-F14   |  |
| 533 436       | DAPS-0053-090-RS2-F0507 |  | 533 492   | DAPS-0960-090-RS1-F1216 |  |
| 533 437       | DAPS-0053-090-RS3-F0507 |  | 533 460   | DAPS-0960-090-RS2-F14   |  |
| 533 438       | DAPS-0053-090-RS4-F0507 |  | 533 493   | DAPS-0960-090-RS2-F1216 |  |
| Size 0090     |                         |  | 533 461   | DAPS-0960-090-RS3-F14   |  |
| 533 439       | DAPS-0090-090-RS1-F0710 |  | 533 494   | DAPS-0960-090-RS3-F1216 |  |
| 533 440       | DAPS-0090-090-RS2-F0710 |  | 533 462   | DAPS-0960-090-RS4-F14   |  |
| 533 441       | DAPS-0090-090-RS3-F0710 |  | 533 495   | DAPS-0960-090-RS4-F1216 |  |
| 533 442       | DAPS-0090-090-RS4-F0710 |  | Size 1440 |                         |  |
| Size 0120     |                         |  | 549 685   | DAPS-1440-090-RS1-F16   |  |
| 533 443       | DAPS-0120-090-RS1-F0710 |  | 549 686   | DAPS-1440-090-RS2-F16   |  |
| 533 444       | DAPS-0120-090-RS2-F0710 |  | 549 687   | DAPS-1440-090-RS3-F16   |  |
| 533 445       | DAPS-0120-090-RS3-F0710 |  | 549 688   | DAPS-1440-090-RS4-F16   |  |
| 533 446       | DAPS-0120-090-RS4-F0710 |  | Size 1920 |                         |  |
| Size 0180     |                         |  | 549 689   | DAPS-1920-090-RS1-F16   |  |
| 533 447       | DAPS-0180-090-RS1-F0710 |  | 549 690   | DAPS-1920-090-RS2-F16   |  |
| 533 448       | DAPS-0180-090-RS2-F0710 |  | 549 691   | DAPS-1920-090-RS3-F16   |  |
| 533 449       | DAPS-0180-090-RS3-F0710 |  | 549 692   | DAPS-1920-090-RS4-F16   |  |
| 533 450       | DAPS-0180-090-RS4-F0710 |  | Size 2880 |                         |  |
| Size 0240     |                         |  | 549 693   | DAPS-2880-090-RS1-F16   |  |
| 533 451       | DAPS-0240-090-RS1-F1012 |  | 549 694   | DAPS-2880-090-RS2-F16   |  |
| 533 452       | DAPS-0240-090-RS2-F1012 |  | 549 695   | DAPS-2880-090-RS3-F16   |  |
| 533 453       | DAPS-0240-090-RS3-F1012 |  | 549 696   | DAPS-2880-090-RS4-F16   |  |
| 533 454       | DAPS-0240-090-RS4-F1012 |  | Size 4000 |                         |  |
| Size 0360     |                         |  | 560 856   | DAPS-4000-090-RS1-F25   |  |
| 549 673       | DAPS-0360-090-RS1-F1012 |  | 561 694   | DAPS-4000-090-RS2-F25   |  |
| 549 674       | DAPS-0360-090-RS2-F1012 |  | 561 695   | DAPS-4000-090-RS3-F25   |  |
| 549 675       | DAPS-0360-090-RS3-F1012 |  | 561 696   | DAPS-4000-090-RS4-F25   |  |
| 549 676       | DAPS-0360-090-RS4-F1012 |  |           |                         |  |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

| Ordering data – Wearing parts kits |                 |           |                 |
|------------------------------------|-----------------|-----------|-----------------|
| Part No.                           | Type            | Part No.  | Type            |
| Size 0015                          |                 | Size 0180 |                 |
| 397 471                            | DAPS-0030/S0015 | 397 476   | DAPS-0360/S0180 |
| Size 0030                          |                 | Size 0240 |                 |
| 397 472                            | DAPS-0060/S0030 | 397 477   | DAPS-0480/S0240 |
| Size 0053                          |                 | Size 0480 |                 |
| 397 473                            | DAPS-0106/S0053 | 397 478   | DAPS-0960/S0480 |
| Size 0090                          |                 | Size 0960 |                 |
| 397 474                            | DAPS-0180/S0090 | 397 479   | DAPS-1920/S0960 |
| Size 0120                          |                 |           |                 |
| 397 475                            | DAPS-0240/S0120 |           |                 |

## Quarter turn actuators DAPS, single-acting

Technical data

**FESTO**

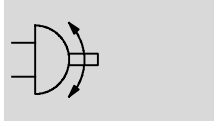
| Ordering data – Drives for variant T6 |                            | Part No. | Type |
|---------------------------------------|----------------------------|----------|------|
| Size 0015                             |                            |          |      |
| 553191                                | DAPS-0015-090-RS2-F0305-T6 |          |      |
| 553192                                | DAPS-0015-090-RS2-F04-T6   |          |      |
| 553210                                | DAPS-0015-090-RS3-F0305-T6 |          |      |
| 553211                                | DAPS-0015-090-RS3-F04-T6   |          |      |
| 553229                                | DAPS-0015-090-RS4-F0305-T6 |          |      |
| 553230                                | DAPS-0015-090-RS4-F04-T6   |          |      |
| Size 0030                             |                            |          |      |
| 553193                                | DAPS-0030-090-RS2-F04-T6   |          |      |
| 553194                                | DAPS-0030-090-RS2-F0507-T6 |          |      |
| 553212                                | DAPS-0030-090-RS3-F04-T6   |          |      |
| 553213                                | DAPS-0030-090-RS3-F0507-T6 |          |      |
| 553231                                | DAPS-0030-090-RS4-F04-T6   |          |      |
| 553232                                | DAPS-0030-090-RS4-F0507-T6 |          |      |
| Size 0053                             |                            |          |      |
| 553195                                | DAPS-0053-090-RS2-F0507-T6 |          |      |
| 553214                                | DAPS-0053-090-RS3-F0507-T6 |          |      |
| 553233                                | DAPS-0053-090-RS4-F0507-T6 |          |      |
| Size 0090                             |                            |          |      |
| 553196                                | DAPS-0090-090-RS2-F0710-T6 |          |      |
| 553215                                | DAPS-0090-090-RS3-F0710-T6 |          |      |
| 553234                                | DAPS-0090-090-RS4-F0710-T6 |          |      |
| Size 0120                             |                            |          |      |
| 553197                                | DAPS-0120-090-RS2-F0710-T6 |          |      |
| 553216                                | DAPS-0120-090-RS3-F0710-T6 |          |      |
| 553235                                | DAPS-0120-090-RS4-F0710-T6 |          |      |
| Size 0180                             |                            |          |      |
| 553198                                | DAPS-0180-090-RS2-F0710-T6 |          |      |
| 553217                                | DAPS-0180-090-RS3-F0710-T6 |          |      |
| 553236                                | DAPS-0180-090-RS4-F0710-T6 |          |      |
| Size 0240                             |                            |          |      |
| 553199                                | DAPS-0240-090-RS2-F1012-T6 |          |      |
| 553218                                | DAPS-0240-090-RS3-F1012-T6 |          |      |
| 553237                                | DAPS-0240-090-RS4-F1012-T6 |          |      |
| Size 0360                             |                            |          |      |
| 553200                                | DAPS-0360-090-RS2-F1012-T6 |          |      |
| 553219                                | DAPS-0360-090-RS3-F1012-T6 |          |      |
| 553238                                | DAPS-0360-090-RS4-F1012-T6 |          |      |
| Size 0480                             |                            |          |      |
| 553201                                | DAPS-0480-090-RS2-F12-T6   |          |      |
| 553202                                | DAPS-0480-090-RS2-F14-T6   |          |      |
| 553220                                | DAPS-0480-090-RS3-F12-T6   |          |      |
| 553221                                | DAPS-0480-090-RS3-F14-T6   |          |      |
| 553239                                | DAPS-0480-090-RS4-F12-T6   |          |      |
| 553240                                | DAPS-0480-090-RS4-F14-T6   |          |      |
| Size 0720                             |                            |          |      |
| 553203                                | DAPS-0720-090-RS2-F12-T6   |          |      |
| 553204                                | DAPS-0720-090-RS2-F14-T6   |          |      |
| 553222                                | DAPS-0720-090-RS3-F12-T6   |          |      |
| 553223                                | DAPS-0720-090-RS3-F14-T6   |          |      |
| 553241                                | DAPS-0720-090-RS4-F12-T6   |          |      |
| 553242                                | DAPS-0720-090-RS4-F14-T6   |          |      |
| Size 0960                             |                            |          |      |
| 553205                                | DAPS-0960-090-RS2-F14-T6   |          |      |
| 553206                                | DAPS-0960-090-RS2-F1216-T6 |          |      |
| 553224                                | DAPS-0960-090-RS3-F14-T6   |          |      |
| 553225                                | DAPS-0960-090-RS3-F1216-T6 |          |      |
| 553243                                | DAPS-0960-090-RS4-F14-T6   |          |      |
| 553244                                | DAPS-0960-090-RS4-F1216-T6 |          |      |
| Size 1440                             |                            |          |      |
| 553207                                | DAPS-1440-090-RS2-F16-T6   |          |      |
| 553245                                | DAPS-1440-090-RS4-F16-T6   |          |      |
| Size 1920                             |                            |          |      |
| 553208                                | DAPS-1920-090-RS2-F16-T6   |          |      |
| 553227                                | DAPS-1920-090-RS3-F16-T6   |          |      |
| 553246                                | DAPS-1920-090-RS4-F16-T6   |          |      |
| Size 2880                             |                            |          |      |
| 553209                                | DAPS-2880-090-RS2-F16-T6   |          |      |
| 553228                                | DAPS-2880-090-RS3-F16-T6   |          |      |
| 553247                                | DAPS-2880-090-RS4-F16-T6   |          |      |

## Quarter turn actuators DAPS CR, double-acting

Technical data

**FESTO**

### Function



 Swivel angle  
0 ... 90°

 Size  
0015 ... 0480

 Torque  
15 ... 480 Nm



| General technical data |                    |      |      |      |      |      |
|------------------------|--------------------|------|------|------|------|------|
| Size                   | 0015               | 0030 | 0060 | 0120 | 0240 | 0480 |
| Pneumatic connection   | G $\frac{1}{8}$    |      |      |      |      |      |
| Design                 | Scotch yoke system |      |      |      |      |      |
| Mode of operation      | Double-acting      |      |      |      |      |      |
| Mounting position      | Any                |      |      |      |      |      |
| Position sensing       | None               |      |      |      |      |      |
| Cushioning             | No cushioning      |      |      |      |      |      |
| Swivel angle [°]       | 90                 |      |      |      |      |      |
| Closing direction      | Closes to right    |      |      |      |      |      |

| Operating and environmental conditions       |                                                                                            |      |      |      |      |      |
|----------------------------------------------|--------------------------------------------------------------------------------------------|------|------|------|------|------|
| Size                                         | 0015                                                                                       | 0030 | 0060 | 0120 | 0240 | 0480 |
| Operating pressure [bar]                     | 2.5 ... 8.4                                                                                |      |      |      |      |      |
| Nominal operating pressure [bar]             | 5.6                                                                                        |      |      |      |      |      |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |      |      |      |      |      |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |      |      |      |      |      |
| Ambient temperature [°C]                     | -20 ... +80                                                                                |      |      |      |      |      |
| Corrosion resistance class CRC <sup>1)</sup> | 3                                                                                          |      |      |      |      |      |
| Connection to process valve as per standard  | - ISO 5211                                                                                 |      |      |      |      |      |
| Valve connection as per standard             | - VDI/VDE 3845 (NAMUR)                                                                     |      |      |      |      |      |

1) Corrosion resistance class 3 according to Festo standard 940 070  
Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature rating          | -20 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

## Quarter turn actuators DAPS CR, double-acting

Technical data

**FESTO**

| Air consumption [l/cycle 0°-90°-0°] at 6 bar |     |           |      |
|----------------------------------------------|-----|-----------|------|
| Size                                         |     | Size      |      |
| DAPS-0015                                    | 0.5 | DAPS-0720 | 3.6  |
| DAPS-0030                                    | 0.9 | DAPS-0960 | 7.1  |
| DAPS-0060                                    | 1.7 | DAPS-1440 | 14.3 |

| Weight [g] |       |           |       |
|------------|-------|-----------|-------|
| Size       |       | Size      |       |
| DAPS-0015  | 800   | DAPS-0120 | 3,300 |
| DAPS-0030  | 1,200 | DAPS-0240 | 5,600 |
| DAPS-0060  | 1,800 | DAPS-0480 | 9,500 |

| Materials              |                                                                     |                 |
|------------------------|---------------------------------------------------------------------|-----------------|
| Quarter turn actuators |                                                                     | Material number |
| Housing                | High-alloy stainless steel                                          | 1.4408          |
| Cover                  | High-alloy stainless steel                                          | 1.4408          |
| Shaft                  | High-alloy stainless steel                                          | 1.4301          |
| External screws        | High-alloy stainless steel                                          | –               |
| Seals                  | FPM, NBR, PUR                                                       | –               |
| Note on materials      | Contains PWIS (paint-wetting impairment substances), RoHS-compliant | –               |

| Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°] |                  |                          |       |       |       |      |       |       |       |
|-----------------------------------------------------------------------------------|------------------|--------------------------|-------|-------|-------|------|-------|-------|-------|
| Size                                                                              | Swivel angle [°] | Operating pressure [bar] |       |       |       |      |       |       |       |
|                                                                                   |                  | 2.5                      | 3     | 4     | 5     | 5.6  | 6     | 7     | 8     |
| DAPS-0015                                                                         | 0                | 6.7                      | 8     | 10.7  | 13.4  | 15   | 16.1  | 18.8  | 21.4  |
|                                                                                   | 50               | 3.3                      | 4     | 5.4   | 6.7   | 7.5  | 8     | 9.4   | 10.7  |
|                                                                                   | 90               | 5                        | 6.1   | 8.1   | 10.1  | 11.3 | 12.1  | 14.1  | 16.1  |
| DAPS-0030                                                                         | 0                | 13.4                     | 16.1  | 21.4  | 26.8  | 30   | 32.1  | 37.5  | 42.9  |
|                                                                                   | 50               | 6.7                      | 8     | 10.7  | 13.4  | 15   | 16.1  | 18.8  | 21.4  |
|                                                                                   | 90               | 10                       | 12.1  | 16.1  | 20.1  | 22.5 | 24.1  | 28.1  | 32.1  |
| DAPS-0060                                                                         | 0                | 26.8                     | 32.1  | 42.9  | 53.6  | 60   | 64.3  | 75    | 85.7  |
|                                                                                   | 50               | 13.4                     | 16.1  | 21.4  | 26.8  | 30   | 32.1  | 37.5  | 42.9  |
|                                                                                   | 90               | 20.1                     | 24.1  | 32.1  | 40.2  | 45   | 48.2  | 56.3  | 64.3  |
| DAPS-0120                                                                         | 0                | 53.6                     | 64.3  | 85.7  | 107.1 | 120  | 128.6 | 150   | 171.4 |
|                                                                                   | 50               | 26.8                     | 32.1  | 42.9  | 53.6  | 60   | 64.3  | 75    | 85.7  |
|                                                                                   | 90               | 40.2                     | 48.2  | 64.3  | 80.4  | 90   | 96.4  | 112.5 | 128.6 |
| DAPS-0240                                                                         | 0                | 107.1                    | 128.6 | 171.4 | 214.3 | 240  | 257.1 | 300   | 342.9 |
|                                                                                   | 50               | 53.6                     | 64.3  | 85.7  | 107.1 | 120  | 128.6 | 150   | 171.4 |
|                                                                                   | 90               | 80.4                     | 96.4  | 128.6 | 160.7 | 180  | 192.9 | 225   | 257.1 |
| DAPS-0480                                                                         | 0                | 214.3                    | 257.1 | 342.9 | 428.6 | 480  | 514.3 | 600   | 685.7 |
|                                                                                   | 50               | 107.1                    | 128.6 | 171.4 | 214.3 | 240  | 257.1 | 300   | 342.9 |
|                                                                                   | 90               | 160.7                    | 192.9 | 257.1 | 321.4 | 360  | 385.7 | 450   | 514.3 |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS CR, double-acting

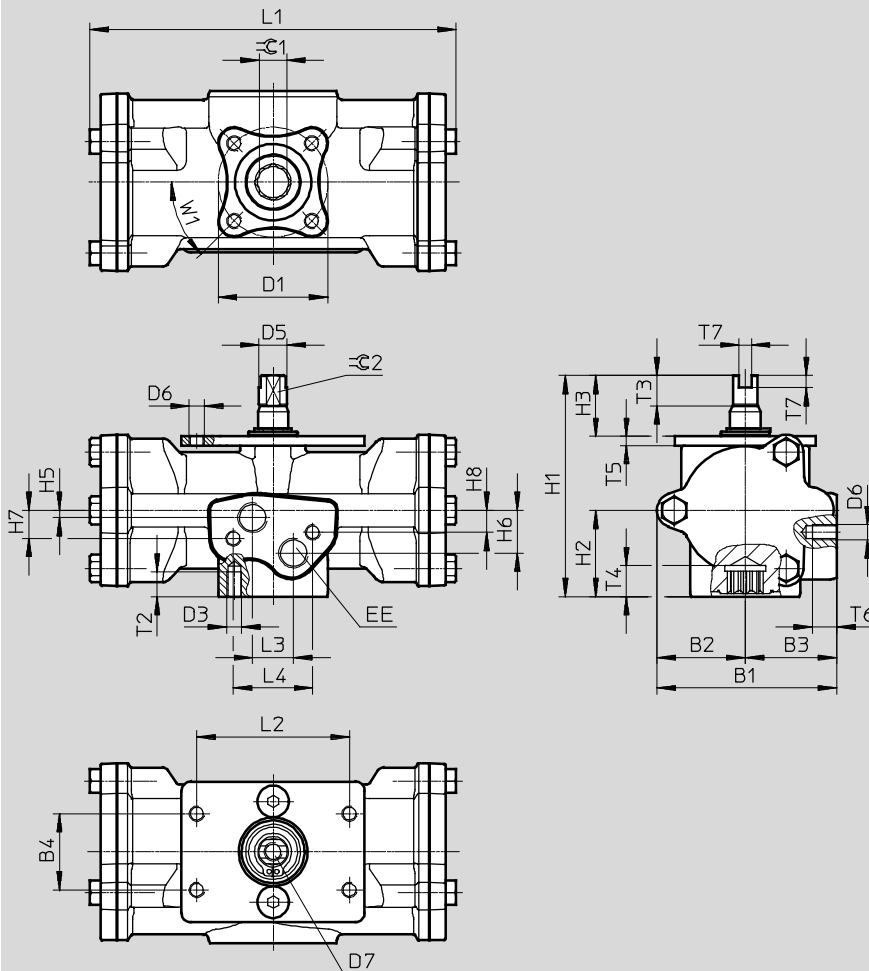
Technical data

**FESTO**

### Dimensions

DAPS-...-090-R-F03-CR

Download CAD data → [www.festo.com](http://www.festo.com)



| Size                   | B1   | B2   | B3 | B4 | D1 | D3 | D5   | D6 | D7 | EE              | H1   | H2   | H3 | H5  | H6 |
|------------------------|------|------|----|----|----|----|------|----|----|-----------------|------|------|----|-----|----|
| DAPS-0015-090-R-F03-CR | 59   | 29   | 30 | 25 | 36 | M5 | 9.2  | M5 | M6 | G $\frac{1}{8}$ | 72.4 | 28.2 | 20 | 2.4 | 14 |
| DAPS-0030-090-R-F03-CR | 68.1 | 34.1 | 34 | 25 | 36 | M5 | 10.9 | M5 | M6 | G $\frac{1}{8}$ | 80.4 | 32.7 | 20 | 3   | 16 |

| Size                   | H7   | H8  | L1    | L2 | L3   | L4 | T2 | T3 | T4   | T5 | T6 | T7 | ⌀ 1 | ⌀ 2 | W1  |
|------------------------|------|-----|-------|----|------|----|----|----|------|----|----|----|-----|-----|-----|
|                        |      |     | ±2    |    |      |    |    |    | ±0.4 |    |    |    | H11 | h11 |     |
| DAPS-0015-090-R-F03-CR | 9.2  | 7.2 | 120   | 50 | 13.4 | 26 | 8  | 10 | 10.1 | 3  | 8  | 4  | 9   | 8   | 45° |
| DAPS-0030-090-R-F03-CR | 10.5 | 8.5 | 134.6 | 50 | 12   | 26 | 8  | 10 | 10.2 | 3  | 8  | 4  | 9   | 9   | 45° |

## Quarter turn actuators DAPS CR, double-acting

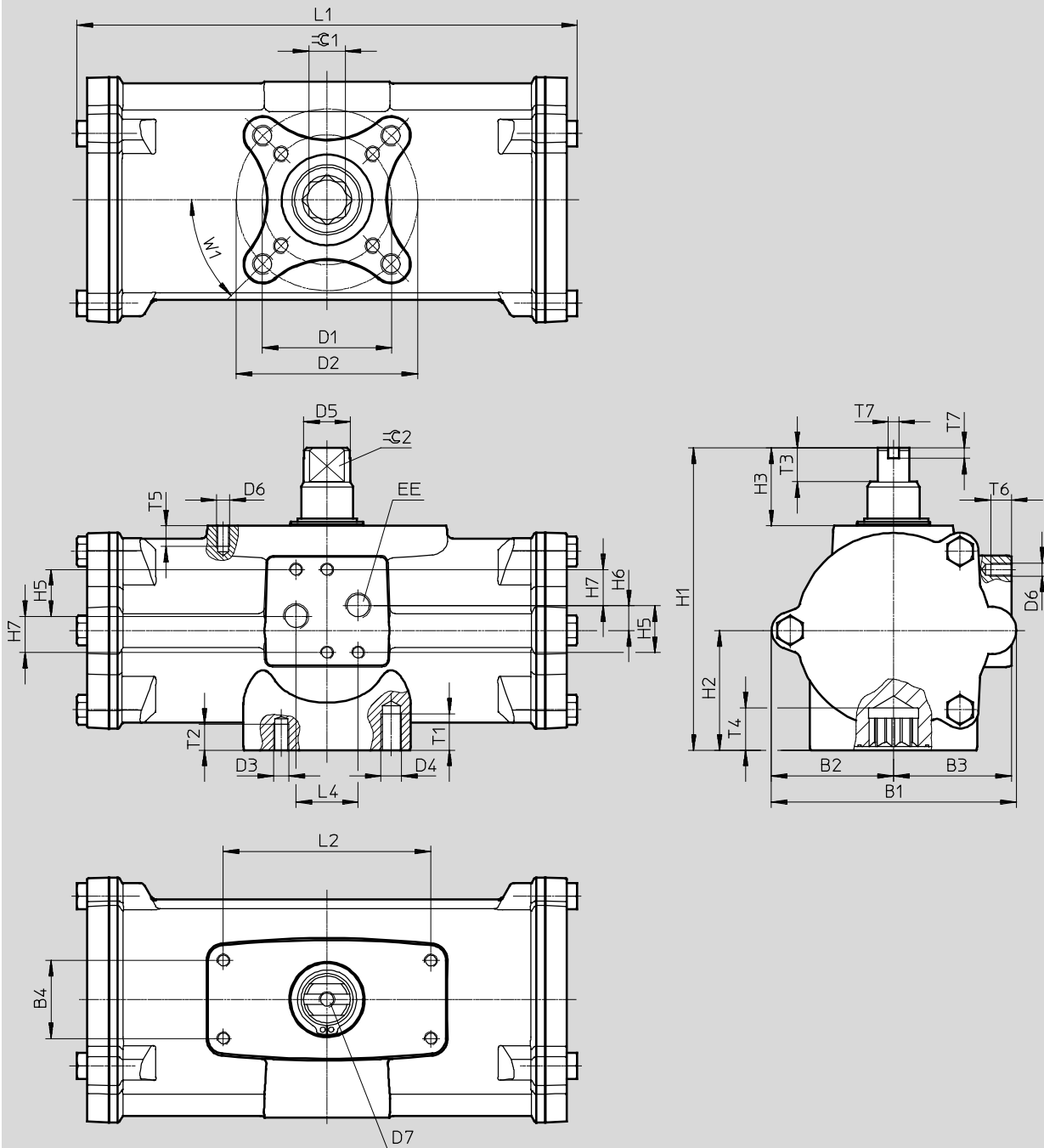
Technical data

**FESTO**

### Dimensions

DAPS-...-090-R-...-CR

Download CAD data → [www.festo.com](http://www.festo.com)



# Quarter turn actuators DAPS CR, double-acting

Technical data

| Size                     | B1    | B2   | B3   | B4 | D1<br>Ø<br>±0.1 | D2<br>Ø<br>±0.1 | D3 | D4  | D5<br>Ø | D6 | D7 | EE   | H1    | H2   | H3 | H5 |
|--------------------------|-------|------|------|----|-----------------|-----------------|----|-----|---------|----|----|------|-------|------|----|----|
| DAPS-0060-...-R-F0305-CR | 80.3  | 41.1 | 39.2 | 25 | 36              | 50              | M5 | M6  | 14.5    | M5 | M6 | G1/8 | 92.4  | 37.6 | 20 | 18 |
| DAPS-0120-...-R-F0507-CR | 94.4  | 47   | 45.5 | 30 | 50              | 70              | M6 | M8  | 18      | M5 | M6 | G1/8 | 116.5 | 46.1 | 30 | 18 |
| DAPS-240-...-R-F0507-CR  | 117   | 60.2 | 54.5 | 30 | 50              | 70              | M6 | M8  | 22.5    | M5 | M6 | G1/8 | 136.4 | 56.1 | 30 | 18 |
| DAPS-480-...-R-F0710-CR  | 139.7 | 71   | 67   | 30 | 70              | 102             | M8 | M10 | 29      | M5 | M6 | G1/8 | 160   | 68   | 30 | 18 |

| Size                     | H6  | H7 | L1<br>±2 | L2 | L4 | T1 | T2 | T3 | T4<br>±0.4 | T5 | T6 | T7 | ≈C 1<br>H11 | ≈C 2<br>h11 | W1  |
|--------------------------|-----|----|----------|----|----|----|----|----|------------|----|----|----|-------------|-------------|-----|
| DAPS-0060-...-R-F0305-CR | 9.6 | 14 | 158.4    | 50 | 24 | 10 | 8  | 13 | 12.1       | 8  | 8  | 4  | 11          | 10          | 45° |
| DAPS-0120-...-R-F0507-CR | 9.6 | 14 | 192.9    | 80 | 24 | 14 | 10 | 13 | 16.3       | 8  | 8  | 4  | 14          | 12          | 45° |
| DAPS-240-...-R-F0507-CR  | 10  | 14 | 246.7    | 80 | 24 | 14 | 10 | 17 | 19.3       | 8  | 8  | 4  | 17          | 15          | 45° |
| DAPS-480-...-R-F0710-CR  | 10  | 14 | 298.4    | 80 | 24 | 16 | 14 | 19 | 24.3       | 8  | 8  | 4  | 22          | 19          | 45° |

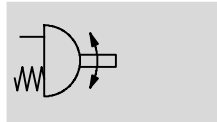
| Ordering data |                                 |               |                                 |
|---------------|---------------------------------|---------------|---------------------------------|
| Part No.      | Type                            | Part No.      | Type                            |
| Size 0015     |                                 | Size 0120     |                                 |
| <b>552869</b> | <b>DAPS-0015-090-R-F03-CR</b>   | <b>552872</b> | <b>DAPS-0120-090-R-F0507-CR</b> |
| Size 0030     |                                 | Size 0240     |                                 |
| <b>552870</b> | <b>DAPS-0030-090-R-F03-CR</b>   | <b>552873</b> | <b>DAPS-0240-090-R-F0507-CR</b> |
| Size 0060     |                                 | Size 0480     |                                 |
| <b>552871</b> | <b>DAPS-0060-090-R-F0305-CR</b> | <b>552874</b> | <b>DAPS-0480-090-R-F0710-CR</b> |

## Quarter turn actuators DAPS CR, single-acting

Technical data

**FESTO**

### Function



Swivel angle  
0 ... 90°

Size  
0015 ... 0240

Torque  
15 ... 240 Nm



| General technical data |                    |      |      |      |      |
|------------------------|--------------------|------|------|------|------|
| Size                   | 0015               | 0030 | 0060 | 0120 | 0240 |
| Pneumatic connection   | G1/8               |      |      |      |      |
| Design                 | Scotch yoke system |      |      |      |      |
| Mode of operation      | Single-acting      |      |      |      |      |
| Mounting position      | Any                |      |      |      |      |
| Position sensing       | None               |      |      |      |      |
| Cushioning             | No cushioning      |      |      |      |      |
| Swivel angle [°]       | 90                 |      |      |      |      |
| Closing direction      | Closes to right    |      |      |      |      |

| Operating and environmental conditions       |                                                                                            |      |                      |      |      |
|----------------------------------------------|--------------------------------------------------------------------------------------------|------|----------------------|------|------|
| Size                                         | 0015                                                                                       | 0030 | 0060                 | 0120 | 0240 |
| Nominal operating pressure [bar]             | 5.6                                                                                        |      |                      |      |      |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |      |                      |      |      |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |      |                      |      |      |
| Ambient temperature [°C]                     | -20 ... +80                                                                                |      |                      |      |      |
| Corrosion resistance class CRC <sup>1)</sup> | 3                                                                                          |      |                      |      |      |
| Connection to process valve as per standard  | -                                                                                          |      | ISO 5211             |      |      |
| Valve connection as per standard             | -                                                                                          |      | VDI/VDE 3845 (NAMUR) |      |      |

1) Corrosion resistance class 3 according to Festo standard 940 070  
Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature rating          | -20 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

# Quarter turn actuators DAPS CR, single-acting

Technical data

| Pressure ranges [bar]      |                     |                    |                            |                     |                    |
|----------------------------|---------------------|--------------------|----------------------------|---------------------|--------------------|
| Type                       | Connection pressure | Operating pressure | Type                       | Connection pressure | Operating pressure |
| Size 0015                  |                     |                    | Size 0120                  |                     |                    |
| DAPS-0015-090-RS1-F03-CR   | 2.8                 | 2.8 ... 8.4        | DAPS-0120-090-RS1-F0507-CR | 2.8                 | 2.8 ... 8.4        |
| DAPS-0015-090-RS2-F03-CR   | 3.5                 | 3.5 ... 8.4        | DAPS-0120-090-RS2-F0507-CR | 3.5                 | 3.5 ... 8.4        |
| DAPS-0015-090-RS3-F03-CR   | 4.2                 | 4.2 ... 8.4        | DAPS-0120-090-RS3-F0507-CR | 4.2                 | 4.2 ... 8.4        |
| DAPS-0015-090-RS4-F03-CR   | 5.6                 | 5.6 ... 8.4        | DAPS-0120-090-RS4-F0507-CR | 5.6                 | 5.6 ... 8.4        |
| Size 0030                  |                     |                    | Size 0240                  |                     |                    |
| DAPS-0030-090-RS1-F0305-CR | 2.8                 | 2.8 ... 8.4        | DAPS-0240-090-RS1-F0710-CR | 2.8                 | 2.8 ... 8.4        |
| DAPS-0030-090-RS2-F0305-CR | 3.5                 | 3.5 ... 8.4        | DAPS-0240-090-RS2-F0710-CR | 3.5                 | 3.5 ... 8.4        |
| DAPS-0030-090-RS3-F0305-CR | 4.2                 | 4.2 ... 8.4        | DAPS-0240-090-RS3-F0710-CR | 4.2                 | 4.2 ... 8.4        |
| DAPS-0030-090-RS4-F0305-CR | 5.6                 | 5.6 ... 8.4        | DAPS-0240-090-RS4-F0710-CR | 5.6                 | 5.6 ... 8.4        |
| Size 0060                  |                     |                    |                            |                     |                    |
| DAPS-0060-090-RS1-F0507-CR | 2.8                 | 2.8 ... 8.4        |                            |                     |                    |
| DAPS-0060-090-RS2-F0507-CR | 3.5                 | 3.5 ... 8.4        |                            |                     |                    |
| DAPS-0060-090-RS3-F0507-CR | 4.2                 | 4.2 ... 8.4        |                            |                     |                    |
| DAPS-0060-090-RS4-F0507-CR | 5.6                 | 5.6 ... 8.4        |                            |                     |                    |

| Air consumption [l/cycle] at 6 bar |     |  |           |     |
|------------------------------------|-----|--|-----------|-----|
| Size                               |     |  | Size      |     |
| DAPS-0015                          | 0.5 |  | DAPS-0120 | 4.2 |
| DAPS-0030                          | 1   |  | DAPS-0240 | 8.3 |
| DAPS-0060                          | 2   |  |           |     |

| Weight [g] |       |  |           |        |
|------------|-------|--|-----------|--------|
| Size       |       |  | Size      |        |
| DAPS-0015  | 1,600 |  | DAPS-0120 | 7,600  |
| DAPS-0030  | 2,400 |  | DAPS-0240 | 12,900 |
| DAPS-0060  | 4,500 |  |           |        |

| Materials              |                                                                     |                 |
|------------------------|---------------------------------------------------------------------|-----------------|
| Quarter turn actuators |                                                                     | Material number |
| Housing                | High-alloy stainless steel                                          | 1.4408          |
| Cover                  | High-alloy stainless steel                                          | 1.4408          |
| Shaft                  | High-alloy stainless steel                                          | 1.4301          |
| External screws        | High-alloy stainless steel                                          | –               |
| Seals                  | FPM, NBR, PUR                                                       | –               |
| Note on materials      | Contains PWIS (paint-wetting impairment substances), RoHS-compliant | –               |

## Quarter turn actuators DAPS CR, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------------|------|------|--------------------------|------|------|-----|-----|-----|-------|------|------|------|------|------|------|------|------|
| Spring strength                                                                                    | Spring torque [Nm] |      |      | Operating pressure [bar] |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
|                                                                                                    |                    |      |      | 2.5                      |      |      | 2.8 |     |     | 3     |      |      | 3.5  |      |      | 4.2  |      |      |
|                                                                                                    | 0°                 | 50°  | 90°  | 0°                       | 50°  | 90°  | 0°  | 50° | 90° | 0°    | 50°  | 90°  | 0°   | 50°  | 90°  | 0°   | 50°  | 90°  |
| <b>DAPS-0015</b>                                                                                   |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
| 1                                                                                                  | 5.0                | 3.7  | 7.5  | 6.2                      | 2.9  | 3.7  | 7.5 | 3.7 | 5   | 8.4   | 4.2  | 5.9  | 10.6 | 5.6  | 8.1  | 13.8 | 7.4  | 11.3 |
| 2                                                                                                  | 6.3                | 4.7  | 9.4  | –                        | –    | –    | –   | –   | –   | 7.2   | 3.3  | 4    | 9.4  | 4.7  | 6.3  | 12.6 | 6.5  | 9.4  |
| 3                                                                                                  | 7.5                | 5.6  | 11.3 | –                        | –    | –    | –   | –   | –   | –     | –    | –    | 8.2  | 3.7  | 4.4  | 11.3 | 5.6  | 7.5  |
| 4                                                                                                  | 10.0               | 7.5  | 15   | –                        | –    | –    | –   | –   | –   | –     | –    | –    | –    | –    | –    | –    | –    | –    |
| <b>DAPS-0030</b>                                                                                   |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
| 1                                                                                                  | 10.0               | 7.5  | 15   | 12.3                     | 5.9  | 7.3  | 15  | 7.5 | 10  | 16.8  | 8.6  | 11.8 | 21.3 | 11.3 | 16.3 | 27.5 | 15   | 22.5 |
| 2                                                                                                  | 12.5               | 9.4  | 18.8 | –                        | –    | –    | –   | –   | –   | 14.3  | 6.7  | 8    | 18.8 | 9.4  | 12.5 | 25.1 | 13.2 | 18.8 |
| 3                                                                                                  | 15.0               | 11.3 | 22.5 | –                        | –    | –    | –   | –   | –   | –     | –    | –    | 16.3 | 7.5  | 8.8  | 22.5 | 11.3 | 15   |
| 4                                                                                                  | 20.0               | 15   | 30   | –                        | –    | –    | –   | –   | –   | –     | –    | –    | –    | –    | –    | –    | –    | –    |
| <b>DAPS-0060</b>                                                                                   |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
| 1                                                                                                  | 20                 | 15   | 30   | 24.6                     | 11.8 | 14.6 | 30  | 15  | 20  | 33.6  | 17.1 | 23.6 | 42.5 | 22.5 | 32.5 | 55   | 30   | 45   |
| 2                                                                                                  | 25                 | 18.8 | 37.5 | –                        | –    | –    | –   | –   | –   | 28.6  | 13.4 | 16.1 | 37.5 | 18.8 | 25   | 50   | 26.3 | 37.5 |
| 3                                                                                                  | 30                 | 22.5 | 45   | –                        | –    | –    | –   | –   | –   | –     | –    | –    | 32.5 | 15   | 17.5 | 45   | 22.5 | 30   |
| 4                                                                                                  | 40                 | 30   | 60   | –                        | –    | –    | –   | –   | –   | –     | –    | –    | –    | –    | –    | –    | –    | –    |
| <b>DAPS-0120</b>                                                                                   |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
| 1                                                                                                  | 40                 | 30   | 60   | 49.3                     | 23.6 | 29.3 | 60  | 30  | 40  | 67.1  | 34.3 | 47.1 | 85   | 45   | 65   | 110  | 60   | 90   |
| 2                                                                                                  | 50                 | 37.5 | 75   | –                        | –    | –    | –   | –   | –   | 57.1  | 26.8 | 32.1 | 75   | 37.5 | 50   | 100  | 52.5 | 75   |
| 3                                                                                                  | 60                 | 45   | 90   | –                        | –    | –    | –   | –   | –   | –     | –    | –    | 65   | 30   | 35   | 90   | 45   | 60   |
| 4                                                                                                  | 80                 | 60   | 120  | –                        | –    | –    | –   | –   | –   | –     | –    | –    | –    | –    | –    | –    | –    | –    |
| <b>DAPS-0240</b>                                                                                   |                    |      |      |                          |      |      |     |     |     |       |      |      |      |      |      |      |      |      |
| 1                                                                                                  | 80                 | 60   | 120  | 98.6                     | 47.1 | 58.6 | 120 | 60  | 80  | 134.3 | 68.6 | 94.3 | 170  | 90   | 130  | 220  | 120  | 180  |
| 2                                                                                                  | 100                | 75   | 150  | –                        | –    | –    | –   | –   | –   | 114.3 | 53.6 | 64.3 | 150  | 75   | 100  | 200  | 105  | 150  |
| 3                                                                                                  | 120                | 90   | 180  | –                        | –    | –    | –   | –   | –   | –     | –    | –    | 130  | 60   | 70   | 180  | 90   | 120  |
| 4                                                                                                  | 160                | 120  | 240  | –                        | –    | –    | –   | –   | –   | –     | –    | –    | –    | –    | –    | –    | –    | –    |

## Quarter turn actuators DAPS CR, single-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
|----------------------------------------------------------------------------------------------------|--------------------|------|------|--------------------------|-------|-------|------|------|------|-------|-------|-------|------|------|------|-------|-------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |      |      | Operating pressure [bar] |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
|                                                                                                    |                    |      |      | 5                        |       |       | 5.6  |      |      | 6     |       |       | 7    |      |      | 8     |       |       |
|                                                                                                    | 0°                 | 50°  | 90°  | 0°                       | 50°   | 90°   | 0°   | 50°  | 90°  | 0°    | 50°   | 90°   | 0°   | 50°  | 90°  | 0°    | 50°   | 90°   |
| <b>DAPS-0015</b>                                                                                   |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
| 1                                                                                                  | 5.0                | 3.7  | 7.5  | –                        |       |       | –    |      |      | –     |       |       | –    |      |      | –     |       |       |
| 2                                                                                                  | 6.3                | 4.7  | 9.4  | 16.1                     | 8.7   | 13    | 18.8 | 10.3 | 15.7 | –     |       |       | –    |      |      | –     |       |       |
| 3                                                                                                  | 7.5                | 5.6  | 11.3 | 14.9                     | 7.7   | 11.1  | 17.6 | 9.3  | 13.8 | 19.4  | 10.4  | 15.6  | 23.8 | 13.1 | 20   | 28.3  | 15.7  | 24.5  |
| 4                                                                                                  | 10.0               | 7.5  | 15   | 12.3                     | 5.9   | 7.3   | 15   | 7.5  | 10   | 16.8  | 8.6   | 11.8  | 21.3 | 11.3 | 16.3 | 25.7  | 13.9  | 20.7  |
| <b>DAPS-0030</b>                                                                                   |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
| 1                                                                                                  | 10.0               | 7.5  | 15   | –                        |       |       | –    |      |      | –     |       |       | –    |      |      | –     |       |       |
| 2                                                                                                  | 12.5               | 9.4  | 18.8 | 32.2                     | 17.5  | 25.9  | 37.6 | 20.7 | 31.3 | –     |       |       | –    |      |      | –     |       |       |
| 3                                                                                                  | 15.0               | 11.3 | 22.5 | 29.6                     | 15.6  | 22.1  | 35   | 18.8 | 27.5 | 38.6  | 21    | 31.1  | 47.5 | 26.4 | 40   | 56.4  | 31.7  | 48.9  |
| 4                                                                                                  | 20.0               | 15   | 30   | 24.6                     | 11.8  | 14.6  | 30   | 15   | 20   | 33.6  | 17.1  | 23.6  | 42.5 | 22.5 | 32.5 | 51.4  | 27.9  | 41.4  |
| <b>DAPS-0060</b>                                                                                   |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
| 1                                                                                                  | 20                 | 15   | 30   | –                        |       |       | –    |      |      | –     |       |       | –    |      |      | –     |       |       |
| 2                                                                                                  | 25                 | 18.8 | 37.5 | 64.3                     | 34.9  | 51.8  | 75   | 41.4 | 62.5 | –     |       |       | –    |      |      | –     |       |       |
| 3                                                                                                  | 30                 | 22.5 | 45   | 59.3                     | 31.1  | 44.3  | 70   | 37.5 | 55   | 77.1  | 41.8  | 62.1  | 95   | 52.5 | 80   | 112.9 | 63.2  | 97.9  |
| 4                                                                                                  | 40                 | 30   | 60   | 49.3                     | 23.6  | 29.3  | 60   | 30   | 40   | 67.1  | 34.3  | 47.1  | 85   | 45   | 65   | 102.9 | 55.7  | 82.9  |
| <b>DAPS-0120</b>                                                                                   |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
| 1                                                                                                  | 40                 | 30   | 60   | –                        |       |       | –    |      |      | –     |       |       | –    |      |      | –     |       |       |
| 2                                                                                                  | 50                 | 37.5 | 75   | 128.6                    | 69.6  | 103.6 | 150  | 82.5 | 125  | –     |       |       | –    |      |      | –     |       |       |
| 3                                                                                                  | 60                 | 45   | 90   | 118.6                    | 62.1  | 88.6  | 140  | 75   | 110  | 154.3 | 83.6  | 124.3 | 190  | 105  | 160  | 225.7 | 126.4 | 195.7 |
| 4                                                                                                  | 80                 | 60   | 120  | 98.6                     | 47.1  | 58.6  | 120  | 60   | 80   | 134.3 | 68.6  | 94.3  | 170  | 90   | 130  | 205.7 | 111.4 | 165.7 |
| <b>DAPS-0240</b>                                                                                   |                    |      |      |                          |       |       |      |      |      |       |       |       |      |      |      |       |       |       |
| 1                                                                                                  | 80                 | 60   | 120  | –                        |       |       | –    |      |      | –     |       |       | –    |      |      | –     |       |       |
| 2                                                                                                  | 100                | 75   | 150  | 257.1                    | 139.3 | 207.1 | 300  | 165  | 250  | –     |       |       | –    |      |      | –     |       |       |
| 3                                                                                                  | 120                | 90   | 180  | 237.1                    | 124.3 | 177.1 | 280  | 150  | 220  | 308.6 | 167.1 | 248.6 | 380  | 210  | 320  | 451.4 | 252.9 | 391.4 |
| 4                                                                                                  | 160                | 120  | 240  | 197.1                    | 94.3  | 117.1 | 240  | 120  | 160  | 268.6 | 137.1 | 188.6 | 340  | 180  | 260  | 411.4 | 222.9 | 331.4 |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS CR, single-acting

Technical data

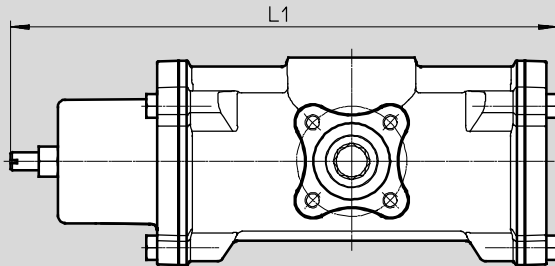
**FESTO**

### Dimensions

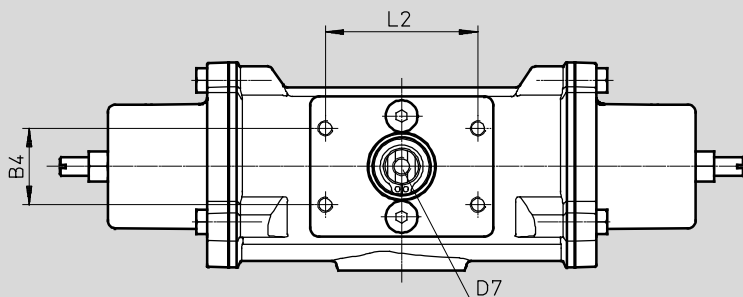
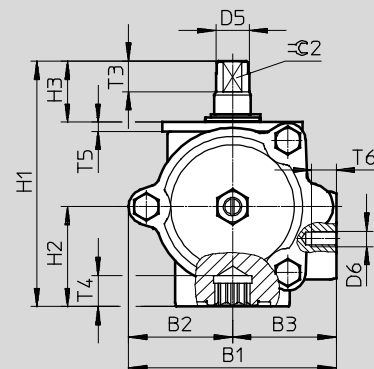
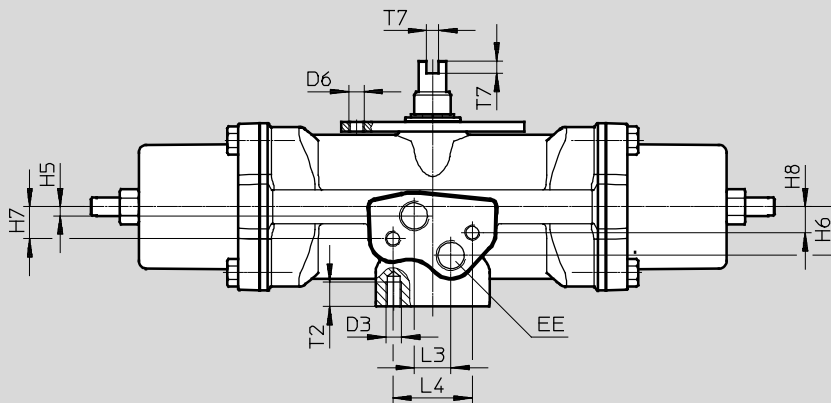
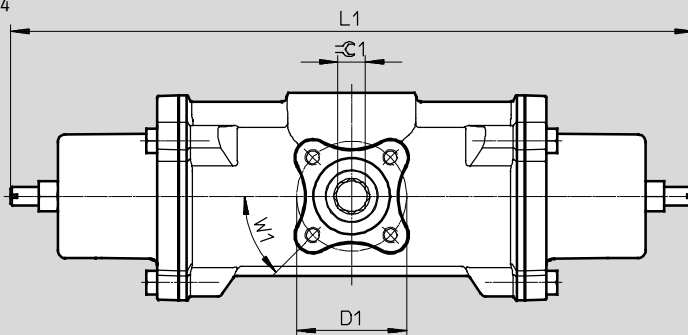
DAPS-0015-090-...-F03-CR

Download CAD data → [www.festo.com](http://www.festo.com)

RS 1



RS 2 ... RS 4



## Quarter turn actuators DAPS CR, single-acting

Technical data

| Size                    | B1   | B2   | B3 | B4 | D1<br>Ø | D3 | D5<br>Ø | D6 | D7 | EE              | H1   | H2   | H3 | H5 | H6 | H7   |
|-------------------------|------|------|----|----|---------|----|---------|----|----|-----------------|------|------|----|----|----|------|
| DAPS-0015-090-RS-F03-CR | 68.1 | 34.1 | 34 | 25 | 36      | M5 | 10.9    | M5 | M6 | G $\frac{1}{8}$ | 80.4 | 32.7 | 20 | 3  | 16 | 10.5 |

| Size                    | H8  | L1<br>±2 |               | L2 | L3 | L4 | T2 | T3 | T4<br>±0.4 | T5 | T6 | T7 | ≈C 1 | ≈C 2 | W1  |
|-------------------------|-----|----------|---------------|----|----|----|----|----|------------|----|----|----|------|------|-----|
|                         |     | RS 1     | RS 2 ... RS 4 |    |    |    |    |    |            |    |    |    | H11  | h11  |     |
| DAPS-0015-090-RS-F03-CR | 8.5 | 179      | 224           | 50 | 12 | 26 | 8  | 10 | 10.2       | 3  | 8  | 4  | 9    | 9    | 45° |

## Quarter turn actuators DAPS CR, single-acting

Technical data

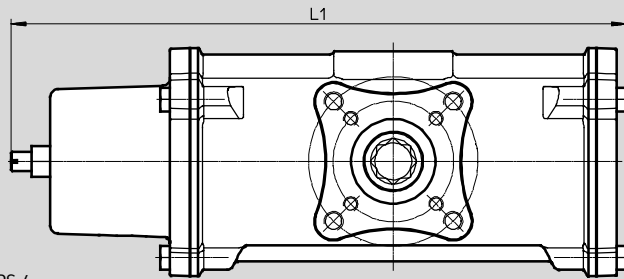
**FESTO**

### Dimensions

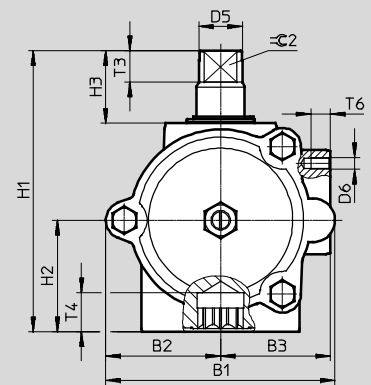
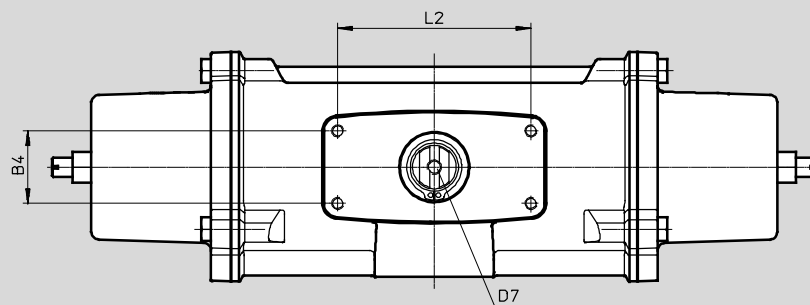
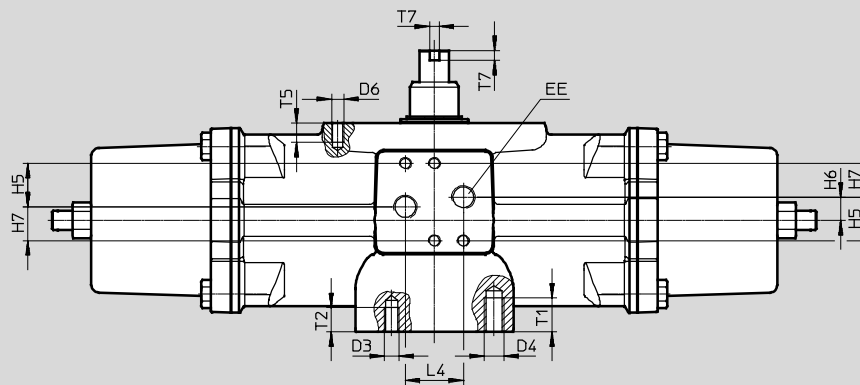
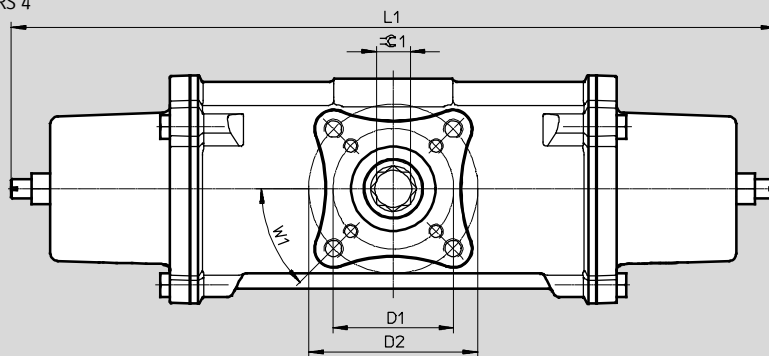
DAPS-...-090-...-CR

Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

RS 1



RS 2 ... RS 4



## Quarter turn actuators DAPS CR, single-acting

Technical data

**FESTO**

| Size                     | B1    | B2   | B3   | B4 | D1<br>Ø | D2<br>Ø | D3 | D4  | D5<br>Ø | D6 | D7 | EE              | H1    | H2   | H3 | H5 |
|--------------------------|-------|------|------|----|---------|---------|----|-----|---------|----|----|-----------------|-------|------|----|----|
| DAPS-0030- ... -F0305-CR | 80.3  | 41.1 | 39.2 | 25 | 36      | 50      | M5 | M6  | 14.5    | M5 | M6 | G $\frac{1}{8}$ | 92.4  | 37.6 | 20 | 18 |
| DAPS-0060- ... -F0507-CR | 94.4  | 47   | 45.5 | 30 | 50      | 70      | M6 | M8  | 18      | M5 | M6 | G $\frac{1}{8}$ | 116.4 | 46.2 | 30 | 18 |
| DAPS-0120- ... -F0507-CR | 117   | 60.2 | 54.5 | 30 | 50      | 70      | M6 | M8  | 22.5    | M5 | M6 | G $\frac{1}{8}$ | 136.4 | 56.1 | 30 | 18 |
| DAPS-0240- ... -F0710-CR | 139.7 | 70.9 | 67   | 30 | 70      | 102     | M8 | M10 | 29      | M5 | M6 | G $\frac{1}{8}$ | 160   | 67.9 | 30 | 18 |

| Size                     | H6  | H7 | L1<br>±2 |               | L2 | L4 | T1 | T2 | T3 | T4<br>±0.4 | T5 | T6 | T7 | ≈ 1 | ≈ 2 | W1  |
|--------------------------|-----|----|----------|---------------|----|----|----|----|----|------------|----|----|----|-----|-----|-----|
|                          |     |    | RS 1     | RS 2 ... RS 4 |    |    |    |    |    |            |    |    |    | H11 | h11 |     |
| DAPS-0030- ... -F0305-CR | 9.6 | 14 | 202.3    | 246.2         | 50 | 24 | 10 | 8  | 13 | 12.1       | 8  | 8  | 4  | 11  | 10  | 45° |
| DAPS-0060- ... -F0507-CR | 9.5 | 14 | 254.7    | 316.5         | 80 | 24 | 14 | 10 | 13 | 16.3       | 8  | 8  | 4  | 14  | 12  | 45° |
| DAPS-0120- ... -F0507-CR | 10  | 14 | 311.5    | 376.2         | 80 | 24 | 14 | 10 | 17 | 19.3       | 8  | 8  | 4  | 17  | 15  | 45° |
| DAPS-0240- ... -F0710-CR | 10  | 14 | 381      | 464           | 80 | 24 | 16 | 14 | 19 | 24.3       | 8  | 8  | 4  | 22  | 19  | 45° |

| Ordering data |                            |           |                            |
|---------------|----------------------------|-----------|----------------------------|
| Part No.      | Type                       | Part No.  | Type                       |
| Size 0015     |                            | Size 0120 |                            |
| 552875        | DAPS-0015-090-RS1-F03-CR   | 552887    | DAPS-0120-090-RS1-F0507-CR |
| 552876        | DAPS-0015-090-RS2-F03-CR   | 552888    | DAPS-0120-090-RS2-F0507-CR |
| 552877        | DAPS-0015-090-RS3-F03-CR   | 552889    | DAPS-0120-090-RS3-F0507-CR |
| 552878        | DAPS-0015-090-RS4-F03-CR   | 552890    | DAPS-0120-090-RS4-F0507-CR |
| Size 0030     |                            | Size 0240 |                            |
| 552879        | DAPS-0030-090-RS1-F0305-CR | 552891    | DAPS-0240-090-RS1-F0710-CR |
| 552880        | DAPS-0030-090-RS2-F0305-CR | 552892    | DAPS-0240-090-RS2-F0710-CR |
| 552881        | DAPS-0030-090-RS3-F0305-CR | 552893    | DAPS-0240-090-RS3-F0710-CR |
| 552882        | DAPS-0030-090-RS4-F0305-CR | 552894    | DAPS-0240-090-RS4-F0710-CR |
| Size 0060     |                            |           |                            |
| 552883        | DAPS-0060-090-RS1-F0507-CR |           |                            |
| 552884        | DAPS-0060-090-RS2-F0507-CR |           |                            |
| 552885        | DAPS-0060-090-RS3-F0507-CR |           |                            |
| 552886        | DAPS-0060-090-RS4-F0507-CR |           |                            |

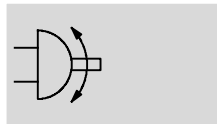
**New**  
**DAPS with handwheel**

## Quarter turn actuators DAPS with handwheel, double-acting

Technical data

**FESTO**

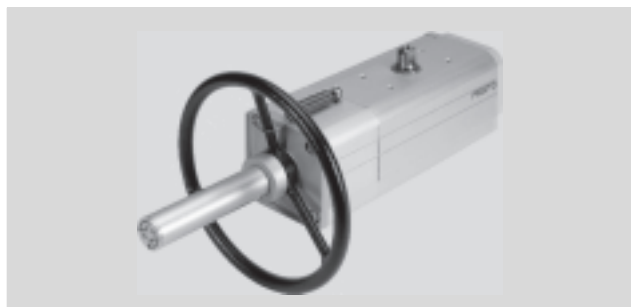
Function



-  - Swivel angle  
0 ... 90°

-  - Size  
0106 ... 1920

-  - Torque  
0106 ... 1,920 Nm



| General technical data             |                     |      |      |      |      |
|------------------------------------|---------------------|------|------|------|------|
| Size                               | 0106                | 0180 | 0240 | 0360 | 0480 |
| Pneumatic connection               | G1/8                |      |      |      | G1/4 |
| Shaft connection depth             | 19.3                | 24.8 | 24.8 | 24.3 | 29.5 |
| End-position adjusting range at 0° | -1 ... 9            |      |      |      |      |
| Design                             | Scotch yoke system  |      |      |      |      |
| Mode of operation                  | Double-acting       |      |      |      |      |
| Mounting position                  | Any                 |      |      |      |      |
| Position sensing                   | None                |      |      |      |      |
| Cushioning                         | No cushioning       |      |      |      |      |
| Swivel angle [°]                   | 90                  |      |      |      |      |
| Closing direction                  | Closes to the right |      |      |      |      |

| Size                               | 0720                | 0960 | 1440 | 1920 |
|------------------------------------|---------------------|------|------|------|
| Pneumatic connection               | G1/4                |      |      |      |
| Shaft connection depth             | 29.5                | 38.5 | 38.5 | 48.5 |
| End-position adjusting range at 0° | -1 ... 9            |      |      |      |
| Design                             | Scotch yoke system  |      |      |      |
| Mode of operation                  | Double-acting       |      |      |      |
| Mounting position                  | Any                 |      |      |      |
| Position sensing                   | None                |      |      |      |
| Cushioning                         | No cushioning       |      |      |      |
| Swivel angle [°]                   | 90                  |      |      |      |
| Closing direction                  | Closes to the right |      |      |      |

## Quarter turn actuators DAPS with handwheel, double-acting

**FESTO**

Technical data

| Operating and environmental conditions       |       |                                                                                            |      |      |           |
|----------------------------------------------|-------|--------------------------------------------------------------------------------------------|------|------|-----------|
| Size                                         |       | 0106                                                                                       | 0180 | 0240 | 0360 0480 |
| Operating pressure <sup>1)</sup>             | [bar] | 1 ... 8.4                                                                                  |      |      |           |
| Nominal operating pressure                   | [bar] | 5.6                                                                                        |      |      |           |
| Operating medium                             |       | Compressed air in accordance with ISO 8573-1:2010 [7:4:4]                                  |      |      |           |
| Note on operating/pilot medium               |       | Lubricated operation possible (in which case lubricated operation will always be required) |      |      |           |
| Ambient temperature                          | [°C]  | -20 ... 80                                                                                 |      |      |           |
| Ambient temperature for variant T6           | [°C]  | -50 ... 60                                                                                 |      |      |           |
| Corrosion resistance class CRC <sup>2)</sup> |       | 2                                                                                          |      |      |           |
| Connection to process valve as per standard  |       | ISO 5211                                                                                   |      |      |           |
| Valve connection conforms to standard        |       | VDI/VDE 3845 (NAMUR)                                                                       |      |      |           |

| Size                                         |       | 0720                                                                                       | 0960 | 1440 | 1920 |
|----------------------------------------------|-------|--------------------------------------------------------------------------------------------|------|------|------|
| Operating pressure <sup>1)</sup>             | [bar] | 1 ... 8.4                                                                                  |      |      |      |
| Nominal operating pressure                   | [bar] | 5.6                                                                                        |      |      |      |
| Operating medium                             |       | Compressed air in accordance with ISO 8573-1:2010 [7:4:4]                                  |      |      |      |
| Note on operating/pilot medium               |       | Lubricated operation possible (in which case lubricated operation will always be required) |      |      |      |
| Ambient temperature                          | [°C]  | -20 ... 80                                                                                 |      |      |      |
| Ambient temperature for variant T6           | [°C]  | -50 ... 60                                                                                 |      |      |      |
| Corrosion resistance class CRC <sup>2)</sup> |       | 2                                                                                          |      |      |      |
| Connection to process valve as per standard  |       | ISO 5211                                                                                   |      |      |      |
| Valve connection conforms to standard        |       | VDI/VDE 3845 (NAMUR)                                                                       |      |      |      |

1) Operating pressure for variant T6 3...8.4 bar

2) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature                 | -20 °C ≤ Ta ≤ +60 °C                        |
| Explosion-proof temperature [T6]            | -50 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

## Quarter turn actuators DAPS with handwheel, double-acting

**FESTO**

Technical data

| Air consumption [l/cycle 0°-90°-0°] at 6 bar |      |      |      |
|----------------------------------------------|------|------|------|
| Size                                         |      | Size |      |
| 0106                                         | 4.2  | 0720 | 27.6 |
| 0180                                         | 7.2  | 0960 | 36.3 |
| 0240                                         | 9.9  | 1440 | 58.2 |
| 0360                                         | 8.3  | 1920 | 77.4 |
| 0480                                         | 19.2 |      |      |

| Weight [g] |        |      |        |
|------------|--------|------|--------|
| Size       |        | Size |        |
| 0106       | 4,000  | 0720 | 17,800 |
| 0180       | 6,000  | 0960 | 23,800 |
| 0240       | 8,000  | 1440 | 33,600 |
| 0360       | 10,200 | 1920 | 43,000 |
| 0480       | 13,200 |      |        |

| Materials              |                              |                 |
|------------------------|------------------------------|-----------------|
| Quarter turn actuators |                              | Material number |
| Housing                | Wrought aluminium alloy      | –               |
| Cover                  | Wrought aluminium alloy      | –               |
|                        | [T6] Wrought aluminium alloy | –               |
| Shaft                  | High-alloy steel             | 1.4305          |
| Screws                 | High-alloy steel             | –               |
| Seals                  | NBR, PUR, FPM                | –               |
|                        | [T6] PTFE reinforced, FVMQ   | –               |
| Note on materials      | RoHS-compliant               | –               |

## Quarter turn actuators DAPS with handwheel, double-acting

Technical data

**FESTO**

| Actual torque [Nm] as a function of operating pressure [bar] and swivel angle [°] |                  |                          |         |         |         |       |         |       |         |
|-----------------------------------------------------------------------------------|------------------|--------------------------|---------|---------|---------|-------|---------|-------|---------|
| Size                                                                              | Swivel angle [°] | Operating pressure [bar] |         |         |         |       |         |       |         |
|                                                                                   |                  | 2.5                      | 3       | 4       | 5       | 5.6   | 6       | 7     | 8       |
| DAPS-0106                                                                         | 0°               | 47.3                     | 56.8    | 75.7    | 94.6    | 106   | 113.6   | 132.5 | 151.4   |
|                                                                                   | 50°              | 23.7                     | 28.4    | 37.9    | 47.3    | 53    | 56.8    | 66.3  | 75.7    |
|                                                                                   | 90°              | 35.7                     | 72.9    | 57.1    | 71.4    | 80    | 85.7    | 100   | 114.3   |
| DAPS-0180                                                                         | 0°               | 80.4                     | 96.4    | 128.6   | 160.7   | 180   | 192.9   | 225   | 257.1   |
|                                                                                   | 50°              | 40.2                     | 48.2    | 64.3    | 80.4    | 90    | 96.4    | 112.5 | 128.6   |
|                                                                                   | 90°              | 60.3                     | 72.3    | 96.4    | 120.5   | 135   | 144.6   | 168.8 | 192.9   |
| DAPS-0240                                                                         | 0°               | 107.1                    | 128.6   | 171.4   | 214.3   | 240   | 257.1   | 300   | 342.9   |
|                                                                                   | 50°              | 53.6                     | 64.3    | 85.7    | 107.1   | 120   | 128.6   | 150   | 171.4   |
|                                                                                   | 90°              | 80.4                     | 96.4    | 128.6   | 160.7   | 180   | 192.9   | 225   | 257.1   |
| DAPS-0360                                                                         | 0°               | 160.7                    | 192.9   | 257.1   | 321.4   | 360   | 385.7   | 450   | 514.3   |
|                                                                                   | 50°              | 80.4                     | 96.4    | 128.6   | 160.7   | 180   | 192.9   | 225   | 257.1   |
|                                                                                   | 90°              | 120.5                    | 144.6   | 192.9   | 241.1   | 270   | 289.3   | 337.5 | 385.7   |
| DAPS-0480                                                                         | 0°               | 214.3                    | 257.1   | 342.9   | 428.6   | 480   | 514.3   | 600   | 685.7   |
|                                                                                   | 50°              | 107.1                    | 128.6   | 171.4   | 214.3   | 240   | 257.1   | 300   | 342.9   |
|                                                                                   | 90°              | 160.7                    | 192.9   | 257.1   | 321.4   | 360   | 385.7   | 450   | 514.3   |
| DAPS-0720                                                                         | 0°               | 321.4                    | 385.7   | 514.3   | 642.9   | 720   | 771.4   | 900   | 1,028.6 |
|                                                                                   | 50°              | 160.7                    | 192.9   | 257.1   | 321.4   | 360   | 385.7   | 450   | 514.3   |
|                                                                                   | 90°              | 241.1                    | 289.3   | 385.7   | 482.1   | 540   | 578.6   | 675   | 771.4   |
| DAPS-0960                                                                         | 0°               | 428.6                    | 514.3   | 685.7   | 857.1   | 960   | 1,028.6 | 1,200 | 1,371.4 |
|                                                                                   | 50°              | 214.3                    | 257.1   | 342.9   | 428.6   | 480   | 514.3   | 600   | 685.7   |
|                                                                                   | 90°              | 321.4                    | 385.7   | 514.3   | 642.9   | 720   | 771.4   | 900   | 1,028.6 |
| DAPS-1440                                                                         | 0°               | 642.9                    | 771.4   | 1,028.6 | 1,285.7 | 1,440 | 1,542.9 | 1,800 | 2,057.1 |
|                                                                                   | 50°              | 321.4                    | 385.7   | 514.3   | 642.9   | 720   | 771.4   | 900   | 1,028.6 |
|                                                                                   | 90°              | 482.1                    | 578.6   | 771.4   | 964.3   | 1,080 | 1,157.1 | 1,350 | 1,542.9 |
| DAPS-1920                                                                         | 0°               | 857.1                    | 1,028.6 | 1,371.4 | 1,714.3 | 1,920 | 2,057.1 | 2,400 | 2,742.9 |
|                                                                                   | 50°              | 428.6                    | 514.3   | 685.7   | 857.1   | 960   | 1,028.6 | 1,200 | 1,371.4 |
|                                                                                   | 90°              | 642.9                    | 771.4   | 1,028.6 | 1,285.7 | 1,440 | 1,542.9 | 1,800 | 2,057.1 |

Torque for size at 5.6 bar and swivel angle 0°

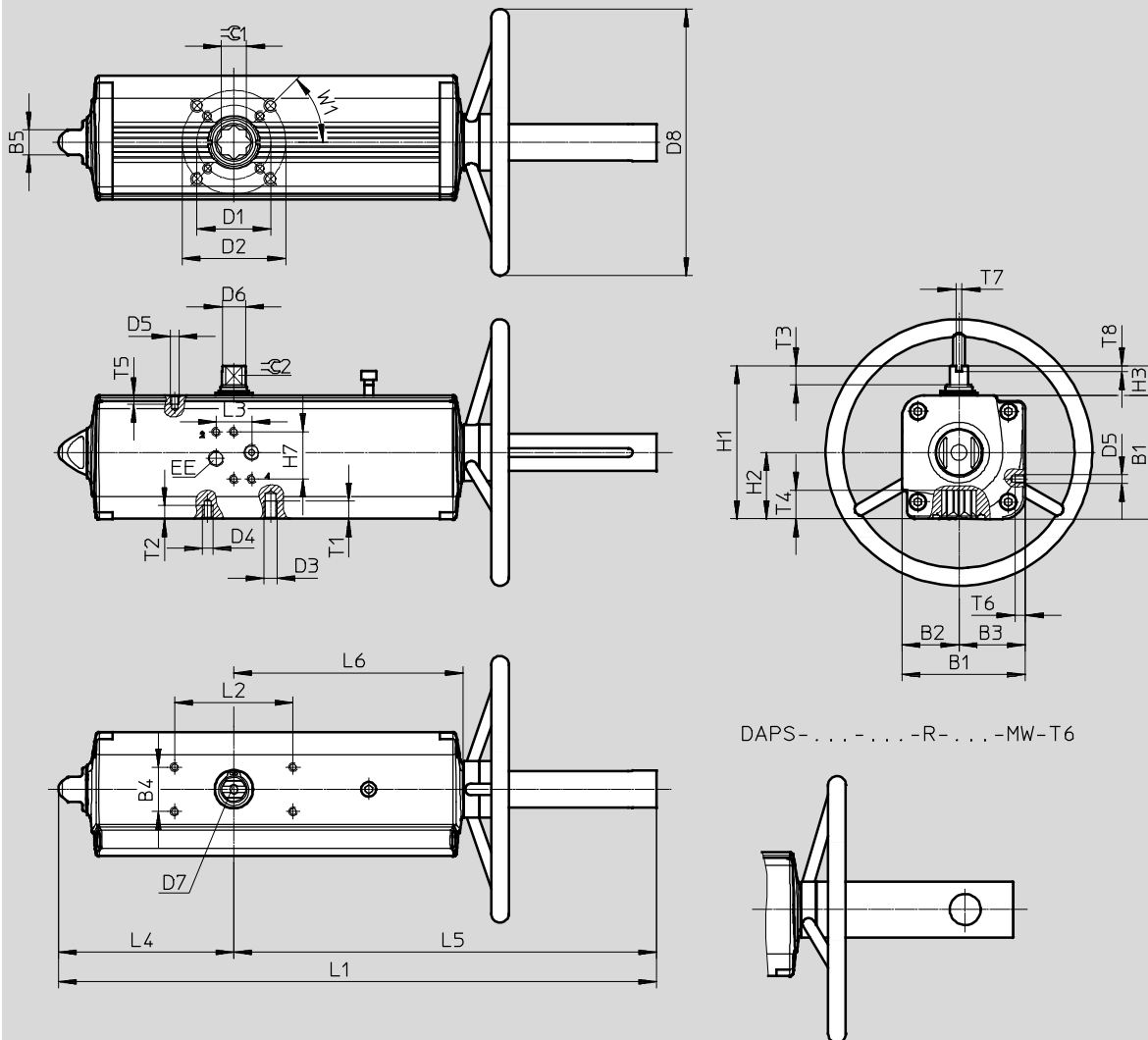
## Quarter turn actuators DAPS with handwheel, double-acting

Technical data

**FESTO**

### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



## Quarter turn actuators DAPS with handwheel, double-acting

Technical data

**FESTO**

| Size                    | B1    | B2   | B3    | B4 | B5 | D1  | D2  | D3  | D4  | D5 | D6   | D7    |
|-------------------------|-------|------|-------|----|----|-----|-----|-----|-----|----|------|-------|
|                         | ±0.4  |      |       |    |    | Ø   | Ø   |     |     |    | Ø    |       |
| DAPS-0106-...-F0507-... | 83.3  | 38.5 | 44.8  | 30 | 17 | 50  | 70  | M8  | M6  | M5 | 16.2 | M6x12 |
| DAPS-0180-...-F0710-... | 107.5 | 51   | 56.5  | 30 | 22 | 70  | 102 | M10 | M8  | M5 | 20.2 | M6x12 |
| DAPS-0240-...-F0710-... | 111.1 | 51   | 60.1  | 30 | 22 | 70  | 102 | M10 | M8  | M5 | 22.5 | M6x12 |
| DAPS-0360-...-F0710-... | 118   | 56   | 62    | 30 | 22 | 70  | 102 | M10 | M8  | M5 | 25.5 | M6x12 |
| DAPS-0480-...-F1012-... | 134.9 | 62   | 72.9  | 30 | 27 | 102 | 125 | M12 | M10 | M5 | 29   | M6x12 |
| DAPS-0720-...-F1012-... | 148   | 69.5 | 78.5  | 30 | 27 | 102 | 125 | M12 | M10 | M5 | 31.8 | M6x12 |
| DAPS-0960-...-F1012-... | 168   | 74.5 | 93.5  | 30 | 27 | 102 | 125 | M12 | M10 | M5 | 36.5 | M6x12 |
| DAPS-0960-...-F14-...   | 168   | 74.5 | 93.5  | 30 | 27 | –   | 140 | M16 | –   | M5 | 36.5 | M6x12 |
| DAPS-1440-...-F12-...   | 186   | 84.5 | 101.5 | 30 | 36 | –   | 125 | M12 | –   | M5 | 41   | M6x12 |
| DAPS-1440-...-F14-...   | 186   | 84.5 | 101.5 | 30 | 36 | –   | 140 | M16 | –   | M5 | 41   | M6x12 |
| DAPS-1920-...-F14-...   | 207.7 | 93   | 114.7 | 30 | 36 | –   | 140 | M16 | –   | M5 | 46   | M6x12 |
| DAPS-1920-...-F1216-... | 207.7 | 93   | 114.7 | 30 | 36 | 125 | 165 | M20 | M12 | M5 | 46   | M6x12 |

| Size                    | D8  | EE              | H1    | H2    | H3     | H7 | L1    | L2 | L3 | L4    | L5    | L6    |
|-------------------------|-----|-----------------|-------|-------|--------|----|-------|----|----|-------|-------|-------|
|                         | Ø   |                 |       |       |        |    | ±2    |    |    |       |       |       |
| DAPS-0106-...-F0507-... | 180 | G $\frac{1}{8}$ | 103.3 | 44.8  | 20±0.4 | 32 | 403.9 | 80 | 24 | 118.5 | 285.4 | 154.8 |
| DAPS-0180-...-F0710-... | 220 | G $\frac{1}{8}$ | 137.5 | 56.5  | 30±0.4 | 32 | 493.2 | 80 | 24 | 144.9 | 348.3 | 183.5 |
| DAPS-0240-...-F0710-... | 220 | G $\frac{1}{8}$ | 141.1 | 60.1  | 30±0.4 | 32 | 520.6 | 80 | 24 | 156.8 | 363.9 | 199.1 |
| DAPS-0360-...-F0710-... | 300 | G $\frac{1}{8}$ | 148   | 62    | 30±0.4 | 32 | 578.8 | 80 | 24 | 169.6 | 409.1 | 220.8 |
| DAPS-0480-...-F1012-... | 300 | G $\frac{1}{4}$ | 164.9 | 72.9  | 30±0.4 | 32 | 618.8 | 80 | 24 | 193.8 | 425   | 236.4 |
| DAPS-0720-...-F1012-... | 350 | G $\frac{1}{4}$ | 178   | 78.5  | 30±0.4 | 32 | 732.8 | 80 | 24 | 216.6 | 516.2 | 282.3 |
| DAPS-0960-...-F1012-... | 350 | G $\frac{1}{4}$ | 198   | 93.5  | 30±0.5 | 32 | 770.2 | 80 | 24 | 239.7 | 530.5 | 297.1 |
| DAPS-0960-...-F14-...   | 350 | G $\frac{1}{4}$ | 198   | 93.5  | 30±0.5 | 32 | 770.2 | 80 | 24 | 239.7 | 530.5 | 297.1 |
| DAPS-1440-...-F12-...   | 400 | G $\frac{1}{4}$ | 216   | 101.5 | 30±0.5 | 32 | 936.9 | 80 | 24 | 283.5 | 653.4 | 365.6 |
| DAPS-1440-...-F14-...   | 400 | G $\frac{1}{4}$ | 216   | 101.5 | 30±0.5 | 32 | 936.9 | 80 | 24 | 283.5 | 653.4 | 365.6 |
| DAPS-1920-...-F14-...   | 400 | G $\frac{1}{4}$ | 237.7 | 114.7 | 30±0.8 | 32 | 970.3 | 80 | 24 | 300.4 | 670   | 382.9 |
| DAPS-1920-...-F1216-... | 400 | G $\frac{1}{4}$ | 237.7 | 114.7 | 30±0.8 | 32 | 970.3 | 80 | 24 | 300.4 | 670   | 382.9 |

| Size                    | T1 | T2 | T3   | T4       | T5 | T6 | T7   | T8   | ≈C 1 | ≈C 2 | W1  |
|-------------------------|----|----|------|----------|----|----|------|------|------|------|-----|
|                         |    |    |      |          |    |    | +0.1 | +0.3 | H11  | h11  |     |
| DAPS-0106-...-F0507-... | 12 | 9  | 13   | 19.3±0.4 | 6  | 7  | 4    | 4    | 17   | 12   | 45° |
| DAPS-0180-...-F0710-... | 15 | 12 | 16   | 24.8±0.4 | 6  | 7  | 4    | 4    | 22   | 15   | 45° |
| DAPS-0240-...-F0710-... | 15 | 12 | 17   | 24.8±0.4 | 6  | 7  | 4    | 4    | 22   | 15   | 45° |
| DAPS-0360-...-F0710-... | 15 | 12 | 19   | 24.3±0.4 | 6  | 7  | 4    | 4    | 22   | 19   | 45° |
| DAPS-0480-...-F1012-... | 18 | 15 | 19   | 29.5±0.4 | 6  | 7  | 4    | 4    | 27   | 19   | 45° |
| DAPS-0720-...-F1012-... | 18 | 15 | 19.5 | 29.5±0.4 | 6  | 7  | 4    | 4    | 27   | 22   | 45° |
| DAPS-0960-...-F1012-... | 18 | 15 | 19.5 | 38.5±0.5 | 6  | 7  | 4    | 4    | 36   | 24   | 45° |
| DAPS-0960-...-F14-...   | 24 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4    | 4    | 36   | 24   | 45° |
| DAPS-1440-...-F12-...   | 18 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4    | 4    | 36   | 27   | 45° |
| DAPS-1440-...-F14-...   | 24 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4    | 4    | 36   | 27   | 45° |
| DAPS-1920-...-F14-...   | 24 | –  | 18.5 | 48.5±0.8 | 6  | 7  | 4    | 4    | 46   | 32   | 45° |
| DAPS-1920-...-F1216-... | 30 | 18 | 18.5 | 48.5±0.8 | 6  | 7  | 4    | 4    | 46   | 32   | 45° |

## Quarter turn actuators DAPS with handwheel, double-acting

**FESTO**

Technical data

| Ordering data – Double-acting |                          | Part No. | Type |
|-------------------------------|--------------------------|----------|------|
| Size 0106                     |                          |          |      |
| 8005002                       | DAPS-0106-090-R-F0507-MW |          |      |
| Size 0180                     |                          |          |      |
| 8005003                       | DAPS-0180-090-R-F0710-MW |          |      |
| Size 0240                     |                          |          |      |
| 8005004                       | DAPS-0240-090-R-F0710-MW |          |      |
| Size 0360                     |                          |          |      |
| 8005005                       | DAPS-0360-090-R-F0710-MW |          |      |
| Size 0480                     |                          |          |      |
| 8005006                       | DAPS-0480-090-R-F1012-MW |          |      |
| Size 0720                     |                          |          |      |
| 8005007                       | DAPS-0720-090-R-F1012-MW |          |      |

| Part No.  | Type                     |
|-----------|--------------------------|
| Size 0960 |                          |
| 8005008   | DAPS-0960-090-R-F1012-MW |
| 8005009   | DAPS-0960-090-R-F14-MW   |
| Size 1440 |                          |
| 8005010   | DAPS-1440-090-R-F12-MW   |
| 8005011   | DAPS-1440-090-R-F14-MW   |
| Size 1920 |                          |
| 8005013   | DAPS-1920-090-R-F1216-MW |
| 8005012   | DAPS-1920-090-R-F14-MW   |

| Ordering data – Double-acting T6 |                             | Part No. | Type |
|----------------------------------|-----------------------------|----------|------|
| Size 0106                        |                             |          |      |
| 8005014                          | DAPS-0106-090-R-F0507-MW-T6 |          |      |
| Size 0180                        |                             |          |      |
| 8005015                          | DAPS-0180-090-R-F0710-MW-T6 |          |      |
| Size 0240                        |                             |          |      |
| 8005016                          | DAPS-0240-090-R-F0710-MW-T6 |          |      |
| Size 0360                        |                             |          |      |
| 8005017                          | DAPS-0360-090-R-F0710-MW-T6 |          |      |
| Size 0480                        |                             |          |      |
| 8005018                          | DAPS-0480-090-R-F1012-MW-T6 |          |      |
| Size 0720                        |                             |          |      |
| 8005019                          | DAPS-0720-090-R-F1012-MW-T6 |          |      |

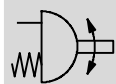
| Part No.  | Type                        |
|-----------|-----------------------------|
| Size 0960 |                             |
| 8005020   | DAPS-0960-090-R-F1012-MW-T6 |
| 8005021   | DAPS-0960-090-R-F14-MW-T6   |
| Size 1440 |                             |
| 8005022   | DAPS-1440-090-R-F12-MW-T6   |
| 8005023   | DAPS-1440-090-R-F14-MW-T6   |
| Size 1920 |                             |
| 8005024   | DAPS-1920-090-R-F14-MW-T6   |
| 8005025   | DAPS-1920-090-R-F1216-MW-T6 |

## Quarter turn actuators DAPS with handwheel, single-acting

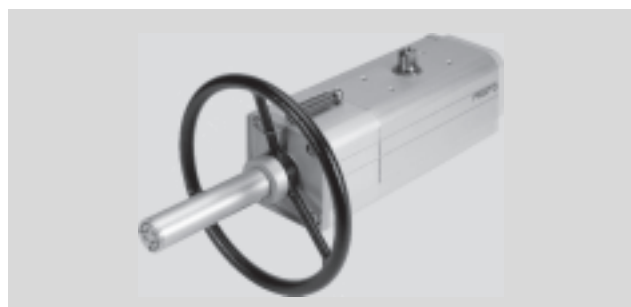
Technical data

**FESTO**

### Function



 Swivel angle  
0 ... 90°



-  Size  
0053 ... 0960
-  Torque  
0053 ... 0960 Nm

| General technical data                          |                                        |      |      |      |                 |
|-------------------------------------------------|----------------------------------------|------|------|------|-----------------|
| Size                                            | 0053                                   | 0090 | 0120 | 0180 | 0240            |
| Pneumatic connection                            | G $\frac{1}{8}$                        |      |      |      | G $\frac{1}{4}$ |
| Shaft connection depth [mm]                     | 19.3                                   | 24.8 | 24.8 | 24.3 | 29.5            |
| End-position adjusting range at 0°              | -1 ... 9                               |      |      |      |                 |
| End-position adjusting range at 90°             | -81 ... 91                             |      |      |      |                 |
| Note regarding the end-position adjusting range | Optionally one end position adjustable |      |      |      |                 |
| Design                                          | Scotch yoke system                     |      |      |      |                 |
| Mode of operation                               | Single-acting                          |      |      |      |                 |
| Mounting position                               | Any                                    |      |      |      |                 |
| Position sensing                                | None                                   |      |      |      |                 |
| Cushioning                                      | No cushioning                          |      |      |      |                 |
| Swivel angle [°]                                | 90                                     |      |      |      |                 |
| Closing direction                               | Closes to the right                    |      |      |      |                 |

| Size                                            | 0360                                   | 0480 | 0720 | 0960 |
|-------------------------------------------------|----------------------------------------|------|------|------|
| Pneumatic connection                            | G $\frac{1}{4}$                        |      |      |      |
| Shaft connection depth [mm]                     | 29.5                                   | 38.5 | 38.5 | 48.5 |
| End-position adjusting range at 0°              | -1 ... 9                               |      |      |      |
| End-position adjusting range at 90°             | -81 ... 91                             |      |      |      |
| Note regarding the end-position adjusting range | Optionally one end position adjustable |      |      |      |
| Design                                          | Scotch yoke system                     |      |      |      |
| Mode of operation                               | Single-acting                          |      |      |      |
| Mounting position                               | Any                                    |      |      |      |
| Position sensing                                | None                                   |      |      |      |
| Cushioning                                      | No cushioning                          |      |      |      |
| Swivel angle [°]                                | 90                                     |      |      |      |
| Closing direction                               | Closes to the right                    |      |      |      |

## Quarter turn actuators DAPS with handwheel, single-acting

Technical data

**FESTO**

| Operating and environmental conditions       |                                                                                            |      |      |      |      |
|----------------------------------------------|--------------------------------------------------------------------------------------------|------|------|------|------|
| Size                                         | 0053                                                                                       | 0090 | 0120 | 0180 | 0240 |
| Nominal operating pressure [bar]             | 5.6                                                                                        |      |      |      |      |
| Operating medium                             | Compressed air in accordance with ISO 8573-1:2010 [7:4:4]                                  |      |      |      |      |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |      |      |      |      |
| Ambient temperature [°C]                     | -20 ... 80                                                                                 |      |      |      |      |
| Corrosion resistance class CRC <sup>1)</sup> | 2                                                                                          |      |      |      |      |
| Connection to process valve as per standard  | ISO 5211                                                                                   |      |      |      |      |
| Valve connection conforms to standard        | VDI/VDE 3845 (NAMUR)                                                                       |      |      |      |      |

| Size                                         | 0360                                                                                       | 0480 | 0720 | 0960 |
|----------------------------------------------|--------------------------------------------------------------------------------------------|------|------|------|
| Nominal operating pressure [bar]             | 5.6                                                                                        |      |      |      |
| Operating medium                             | Compressed air in accordance with ISO 8573-1:2010 [7:4:4]                                  |      |      |      |
| Note on operating/pilot medium               | Lubricated operation possible (in which case lubricated operation will always be required) |      |      |      |
| Ambient temperature [°C]                     | -20 ... 80                                                                                 |      |      |      |
| Corrosion resistance class CRC <sup>1)</sup> | 2                                                                                          |      |      |      |
| Connection to process valve as per standard  | ISO 5211                                                                                   |      |      |      |
| Valve connection conforms to standard        | VDI/VDE 3845 (NAMUR)                                                                       |      |      |      |

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

| ATEX                                        |                                             |
|---------------------------------------------|---------------------------------------------|
| ATEX category for gas                       | II 2G                                       |
| Explosion ignition protection type for gas  | c TX X                                      |
| ATEX category for dust                      | II 2D                                       |
| Explosion ignition protection type for dust | c TX X                                      |
| Explosion-proof temperature                 | -20 °C ≤ Ta ≤ +60 °C                        |
| CE marking (see declaration of conformity)  | To EU Explosion Protection Directive (ATEX) |

| Materials              |                         |                 |
|------------------------|-------------------------|-----------------|
| Quarter turn actuators |                         | Material number |
| Housing                | Wrought aluminium alloy | –               |
| Cover                  | Wrought aluminium alloy | –               |
| Shaft                  | High-alloy steel        | 1.4305          |
| External screws        | High-alloy steel        | –               |
| Seals                  | FPM, NBR, PUR           | –               |
| Note on materials      | RoHS-compliant          | –               |

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

Technical data

| Pressure ranges [bar]      |                     |                    |                            |                     |                    |
|----------------------------|---------------------|--------------------|----------------------------|---------------------|--------------------|
| Type                       | Connection pressure | Operating pressure | Type                       | Connection pressure | Operating pressure |
| Size 0053                  |                     |                    | Size 0480                  |                     |                    |
| DAPS-0053-090-RS1-F0507-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0480-090-RS1-F1012-MW | 2.8                 | 2.8 ... 8.4        |
| DAPS-0053-090-RS2-F0507-MW | 3.5                 | 3.5 ... 8.4        | DAPS-0480-090-RS1-F14-MW   | 2.8                 | 2.8 ... 8.4        |
| DAPS-0053-090-RS3-F0507-MW | 4.2                 | 4.2 ... 8.4        | DAPS-0480-090-RS2-F1012-MW | 3.5                 | 3.5 ... 8.4        |
| DAPS-0053-090-RS4-F0507-MW | 5.6                 | 5.6 ... 8.4        | DAPS-0480-090-RS2-F14-MW   | 3.5                 | 3.5 ... 8.4        |
| Size 0090                  |                     |                    | DAPS-0480-090-RS3-F1012-MW | 4.2                 | 4.2 ... 8.4        |
| DAPS-0090-090-RS1-F0710-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0480-090-RS3-F14-MW   | 4.2                 | 4.2 ... 8.4        |
| DAPS-0090-090-RS2-F0710-MW | 3.5                 | 3.5 ... 8.4        | DAPS-0480-090-RS4-F1012-MW | 5.6                 | 5.6 ... 8.4        |
| DAPS-0090-090-RS3-F0710-MW | 4.2                 | 4.2 ... 8.4        | DAPS-0480-090-RS4-F14-MW   | 5.6                 | 5.6 ... 8.4        |
| DAPS-0090-090-RS4-F0710-MW | 5.6                 | 5.6 ... 8.4        | Size 0720                  |                     |                    |
| Size 0120                  |                     |                    | DAPS-0720-090-RS1-F12-MW   | 2.8                 | 2.8 ... 8.4        |
| DAPS-0120-090-RS1-F0710-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0720-090-RS1-F14-MW   | 2.8                 | 2.8 ... 8.4        |
| DAPS-0120-090-RS2-F0710-MW | 3.5                 | 3.5 ... 8.4        | DAPS-0720-090-RS2-F12-MW   | 3.5                 | 3.5 ... 8.4        |
| DAPS-0120-090-RS3-F0710-MW | 4.2                 | 4.2 ... 8.4        | DAPS-0720-090-RS2-F14-MW   | 3.5                 | 3.5 ... 8.4        |
| DAPS-0120-090-RS4-F0710-MW | 5.6                 | 5.6 ... 8.4        | DAPS-0720-090-RS3-F12-MW   | 4.2                 | 4.2 ... 8.4        |
| Size 0180                  |                     |                    | DAPS-0720-090-RS3-F14-MW   | 4.2                 | 4.2 ... 8.4        |
| DAPS-0180-090-RS1-F0710-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0720-090-RS4-F12-MW   | 5.6                 | 5.6 ... 8.4        |
| DAPS-0180-090-RS2-F0710-MW | 3.5                 | 3.5 ... 8.4        | DAPS-0720-090-RS4-F14-MW   | 5.6                 | 5.6 ... 8.4        |
| DAPS-0180-090-RS3-F0710-MW | 4.2                 | 4.2 ... 8.4        | Size 0960                  |                     |                    |
| DAPS-0180-090-RS4-F0710-MW | 5.6                 | 5.6 ... 8.4        | DAPS-0960-090-RS1-F1216-MW | 2.8                 | 2.8 ... 8.4        |
| Size 0240                  |                     |                    | DAPS-0960-090-RS1-F14-MW   | 2.8                 | 2.8 ... 8.4        |
| DAPS-0240-090-RS1-F1012-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0960-090-RS2-F1216-MW | 3.5                 | 3.5 ... 8.4        |
| DAPS-0240-090-RS2-F1012-MW | 3.5                 | 3.5 ... 8.4        | DAPS-0960-090-RS2-F14-MW   | 3.5                 | 3.5 ... 8.4        |
| DAPS-0240-090-RS3-F1012-MW | 4.2                 | 4.2 ... 8.4        | DAPS-0960-090-RS3-F1216-MW | 4.2                 | 4.2 ... 8.4        |
| DAPS-0240-090-RS4-F1012-MW | 5.6                 | 5.6 ... 8.4        | DAPS-0960-090-RS3-F14-MW   | 4.2                 | 4.2 ... 8.4        |
| Size 0360                  |                     |                    | DAPS-0960-090-RS4-F1216-MW | 5.6                 | 5.6 ... 8.4        |
| DAPS-0360-090-RS1-F1012-MW | 2.8                 | 2.8 ... 8.4        | DAPS-0960-090-RS4-F14-MW   | 5.6                 | 5.6 ... 8.4        |
| DAPS-0360-090-RS2-F1012-MW | 3.5                 | 3.5 ... 8.4        |                            |                     |                    |
| DAPS-0360-090-RS3-F1012-MW | 4.2                 | 4.2 ... 8.4        |                            |                     |                    |
| DAPS-0360-090-RS4-F1012-MW | 5.6                 | 5.6 ... 8.4        |                            |                     |                    |

| Air consumption [l/cycle 0°-90°-0°] at 6 bar |     |      |      |
|----------------------------------------------|-----|------|------|
| Size                                         |     | Size |      |
| 0053                                         | 1.8 | 0360 | 12   |
| 0090                                         | 3.3 | 0480 | 16.8 |
| 0120                                         | 4.8 | 0720 | 25.2 |
| 0180                                         | 6   | 0960 | 35.4 |
| 0240                                         | 9   |      |      |

| Weight [g] |        |      |        |
|------------|--------|------|--------|
| Size       |        | Size |        |
| 0053       | 4,500  | 0360 | 19,500 |
| 0090       | 6,800  | 0480 | 28,100 |
| 0120       | 9,000  | 0720 | 38,800 |
| 0180       | 11,700 | 0960 | 50,600 |
| 0240       | 15,200 |      |        |

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

Technical data

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
|----------------------------------------------------------------------------------------------------|--------------------|------|-------|--------------------------|------|------|------|------|------|-------|------|------|-------|------|------|------|------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |      |       | Operating pressure [bar] |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
|                                                                                                    |                    |      |       | 2.5                      |      |      | 2.8  |      |      | 3     |      |      | 3.5   |      |      | 4.2  |      |       |
|                                                                                                    | 0°                 | 50°  | 90°   | 0°                       | 50°  | 90°  | 0°   | 50°  | 90°  | 0°    | 50°  | 90°  | 0°    | 50°  | 90°  | 0°   | 50°  | 90°   |
| <b>DAPS-0053</b>                                                                                   |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
| 1                                                                                                  | 17.5               | 13   | 26.5  | 20.2                     | 9.3  | 11.2 | 26.5 | 13   | 17.5 | 29.6  | 14.9 | 20.6 | 37.5  | 19.5 | 28.5 | 48.5 | 26   | 39.5  |
| 2                                                                                                  | 22                 | 16.5 | 33    | –                        | –    | –    | –    | –    | –    | 25.1  | 11.8 | 14.1 | 33    | 16.5 | 22   | 44   | 23.1 | 33    |
| 3                                                                                                  | 26                 | 19.5 | 40    | –                        | –    | –    | –    | –    | –    | –     | –    | –    | 29    | 13   | 15   | 40   | 19.5 | 26    |
| 4                                                                                                  | 35                 | 26   | 53    | –                        | –    | –    | –    | –    | –    | –     | –    | –    | –     | –    | –    | –    | –    | –     |
| <b>DAPS-0090</b>                                                                                   |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
| 1                                                                                                  | 30                 | 22.5 | 45    | 34.3                     | 16.1 | 19.3 | 45   | 22.5 | 30   | 50.4  | 25.7 | 35.4 | 63.8  | 33.8 | 48.8 | 82.5 | 45   | 67.5  |
| 2                                                                                                  | 37.5               | 28.1 | 56.3  | –                        | –    | –    | –    | –    | –    | 42.9  | 20.1 | 24.1 | 56.3  | 28.1 | 37.5 | 75.1 | 39.4 | 56.3  |
| 3                                                                                                  | 45                 | 33.9 | 67.5  | –                        | –    | –    | –    | –    | –    | –     | –    | –    | 48.8  | 22.6 | 26.3 | 67.5 | 33.9 | 45    |
| 4                                                                                                  | 60                 | 45   | 90    | –                        | –    | –    | –    | –    | –    | –     | –    | –    | –     | –    | –    | –    | –    | –     |
| <b>DAPS-0120</b>                                                                                   |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
| 1                                                                                                  | 40                 | 30   | 60    | 45.7                     | 21.4 | 25.7 | 60   | 30   | 40   | 67.1  | 34.3 | 47.1 | 85    | 45   | 65   | 110  | 60   | 90    |
| 2                                                                                                  | 50                 | 37.5 | 75    | –                        | –    | –    | –    | –    | –    | 57.1  | 26.8 | 32.1 | 75    | 37.5 | 50   | 100  | 52.5 | 75    |
| 3                                                                                                  | 60                 | 45   | 90    | –                        | –    | –    | –    | –    | –    | –     | –    | –    | 65    | 30   | 35   | 90   | 45   | 60    |
| 4                                                                                                  | 80                 | 60   | 120   | –                        | –    | –    | –    | –    | –    | –     | –    | –    | –     | –    | –    | –    | –    | –     |
| <b>DAPS-0180</b>                                                                                   |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
| 1                                                                                                  | 60                 | 45   | 90    | 68.6                     | 32.1 | 38.6 | 90   | 45   | 60   | 100.7 | 51.4 | 70.7 | 127.5 | 67.5 | 97.5 | 165  | 90   | 135   |
| 2                                                                                                  | 75                 | 56.3 | 112.5 | –                        | –    | –    | –    | –    | –    | 85.7  | 40.2 | 48.2 | 112.5 | 56.3 | 75   | 150  | 78.8 | 112.5 |
| 3                                                                                                  | 90                 | 67.5 | 135   | –                        | –    | –    | –    | –    | –    | –     | –    | –    | 97.5  | 45   | 52.5 | 135  | 67.5 | 90    |
| 4                                                                                                  | 120                | 90   | 180   | –                        | –    | –    | –    | –    | –    | –     | –    | –    | –     | –    | –    | –    | –    | –     |
| <b>DAPS-0240</b>                                                                                   |                    |      |       |                          |      |      |      |      |      |       |      |      |       |      |      |      |      |       |
| 1                                                                                                  | 80                 | 60   | 120   | 91.4                     | 42.9 | 51.4 | 120  | 60   | 80   | 134.3 | 68.6 | 94.3 | 170   | 90   | 130  | 220  | 120  | 180   |
| 2                                                                                                  | 100                | 75   | 150   | –                        | –    | –    | –    | –    | –    | 114.3 | 53.6 | 64.3 | 150   | 75   | 100  | 200  | 105  | 150   |
| 3                                                                                                  | 120                | 90   | 180   | –                        | –    | –    | –    | –    | –    | –     | –    | –    | 130   | 60   | 70   | 180  | 90   | 120   |
| 4                                                                                                  | 160                | 120  | 240   | –                        | –    | –    | –    | –    | –    | –     | –    | –    | –     | –    | –    | –    | –    | –     |

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

Technical data

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|----------------------------------------------------------------------------------------------------|--------------------|------|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |      |       | Operating pressure [bar] |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|                                                                                                    |                    |      |       | 5                        |       |       | 5.6   |       |       | 6     |       |       | 7     |       |      | 8     |       |       |
|                                                                                                    | 0°                 | 50°  | 90°   | 0°                       | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°  | 0°    | 50°   | 90°   |
| <b>DAPS-0053</b>                                                                                   |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | 17.5               | 13   | 26.5  | –                        |       |       | –     |       |       | –     |       |       | –     |       |      | –     |       |       |
| 2                                                                                                  | 22                 | 16.5 | 33    | 56.6                     | 30.6  | 45.6  | 66    | 36.3  | 55    | –     |       |       | –     |       |      | –     |       |       |
| 3                                                                                                  | 26                 | 19.5 | 40    | 52.6                     | 26.9  | 38.6  | 62    | 32.5  | 48    | 68.3  | 36.2  | 54.3  | 84    | 45.5  | 70   | 99.7  | 54.8  | 85.7  |
| 4                                                                                                  | 35                 | 26   | 53    | 43.6                     | 20.4  | 25.6  | 53    | 26    | 35    | 59.3  | 29.7  | 41.3  | 75    | 39    | 57   | 90.7  | 48.3  | 72.7  |
| <b>DAPS-0090</b>                                                                                   |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | 30                 | 22.5 | 45    | –                        |       |       | –     |       |       | –     |       |       | –     |       |      | –     |       |       |
| 2                                                                                                  | 37.5               | 28.1 | 56.3  | 96.5                     | 52.2  | 77.7  | 112.6 | 61.9  | 93.8  | –     |       |       | –     |       |      | –     |       |       |
| 3                                                                                                  | 45                 | 33.9 | 67.5  | 88.9                     | 46.8  | 66.4  | 105   | 56.5  | 82.5  | 115.7 | 63    | 93.2  | 142.5 | 79.1  | 120  | 169.3 | 95.2  | 146.8 |
| 4                                                                                                  | 60                 | 45   | 90    | 73.9                     | 35.4  | 43.9  | 90    | 45    | 60    | 100.7 | 51.4  | 70.7  | 127.5 | 67.5  | 97.5 | 154.3 | 83.6  | 124.3 |
| <b>DAPS-0120</b>                                                                                   |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | 40                 | 30   | 60    | –                        |       |       | –     |       |       | –     |       |       | –     |       |      | –     |       |       |
| 2                                                                                                  | 50                 | 37.5 | 75    | 128.6                    | 69.6  | 103.6 | 150   | 82.5  | 125   | –     |       |       | –     |       |      | –     |       |       |
| 3                                                                                                  | 60                 | 45   | 90    | 118.6                    | 62.1  | 88.6  | 140   | 75    | 110   | 154.3 | 83.6  | 124.3 | 190   | 105   | 160  | 225.7 | 126.4 | 195.7 |
| 4                                                                                                  | 80                 | 60   | 120   | 98.6                     | 47.1  | 58.6  | 120   | 60    | 80    | 134.3 | 68.6  | 94.3  | 170   | 90    | 130  | 205.7 | 111.4 | 165.7 |
| <b>DAPS-0180</b>                                                                                   |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | 60                 | 45   | 90    | –                        |       |       | –     |       |       | –     |       |       | –     |       |      | –     |       |       |
| 2                                                                                                  | 75                 | 56.3 | 112.5 | 192.9                    | 104.5 | 155.4 | 225   | 123.8 | 187.5 | –     |       |       | –     |       |      | –     |       |       |
| 3                                                                                                  | 90                 | 67.5 | 135   | 177.9                    | 93.2  | 132.9 | 210   | 112.5 | 165   | 231.4 | 125.4 | 186.4 | 285   | 157.5 | 240  | 338.6 | 189.6 | 293.6 |
| 4                                                                                                  | 120                | 90   | 180   | 147.9                    | 70.7  | 87.9  | 180   | 90    | 120   | 201.4 | 102.9 | 141.4 | 255   | 135   | 195  | 308.6 | 167.1 | 248.6 |
| <b>DAPS-0240</b>                                                                                   |                    |      |       |                          |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
| 1                                                                                                  | 80                 | 60   | 120   | –                        |       |       | –     |       |       | –     |       |       | –     |       |      | –     |       |       |
| 2                                                                                                  | 100                | 75   | 150   | 257.1                    | 139.3 | 207.1 | 300   | 165   | 250   | –     |       |       | –     |       |      | –     |       |       |
| 3                                                                                                  | 120                | 90   | 180   | 237.1                    | 124.3 | 177.1 | 280   | 150   | 220   | 308.6 | 167.1 | 248.6 | 380   | 210   | 320  | 451.4 | 252.9 | 391.4 |
| 4                                                                                                  | 160                | 120  | 240   | 197.1                    | 94.3  | 117.1 | 240   | 120   | 160   | 268.6 | 137.1 | 188.6 | 340   | 180   | 260  | 411.4 | 222.9 | 331.4 |

Torque for size at 5.6 bar and swivel angle 0°

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

Technical data

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |       |     |                          |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
|----------------------------------------------------------------------------------------------------|--------------------|-------|-----|--------------------------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-----|-----|-------|-----|
| Spring strength                                                                                    | Spring torque [Nm] |       |     | Operating pressure [bar] |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
|                                                                                                    |                    |       |     | 2.5                      |       |       | 2.8 |     |     | 3     |       |       | 3.5 |       |     | 4.2 |       |     |
|                                                                                                    | 0°                 | 50°   | 90° | 0°                       | 50°   | 90°   | 0°  | 50° | 90° | 0°    | 50°   | 90°   | 0°  | 50°   | 90° | 0°  | 50°   | 90° |
| <b>DAPS-0360</b>                                                                                   |                    |       |     |                          |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
| 1                                                                                                  | 120                | 90    | 180 | 137.1                    | 64.3  | 77.1  | 180 | 90  | 120 | 201.4 | 102.9 | 141.4 | 255 | 135   | 195 | 330 | 180   | 270 |
| 2                                                                                                  | 150                | 112.5 | 225 | –                        | –     | –     | –   | –   | –   | 171.4 | 80.4  | 96.4  | 225 | 112.5 | 150 | 300 | 157.5 | 225 |
| 3                                                                                                  | 180                | 135   | 270 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | 195 | 90    | 105 | 270 | 135   | 180 |
| 4                                                                                                  | 240                | 180   | 360 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | –   | –     | –   | –   | –     | –   |
| <b>DAPS-0480</b>                                                                                   |                    |       |     |                          |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
| 1                                                                                                  | 160                | 120   | 240 | 182.9                    | 85.7  | 102.9 | 240 | 120 | 160 | 268.6 | 137.1 | 188.6 | 340 | 180   | 260 | 440 | 240   | 360 |
| 2                                                                                                  | 200                | 150   | 300 | –                        | –     | –     | –   | –   | –   | 228.6 | 107.1 | 128.6 | 300 | 150   | 200 | 400 | 210   | 300 |
| 3                                                                                                  | 240                | 180   | 360 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | 260 | 120   | 140 | 360 | 180   | 240 |
| 4                                                                                                  | 320                | 240   | 480 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | –   | –     | –   | –   | –     | –   |
| <b>DAPS-0720</b>                                                                                   |                    |       |     |                          |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
| 1                                                                                                  | 240                | 180   | 360 | 274.3                    | 128.6 | 154.3 | 360 | 180 | 240 | 402.9 | 205.7 | 282.9 | 510 | 270   | 390 | 660 | 360   | 540 |
| 2                                                                                                  | 300                | 225   | 450 | –                        | –     | –     | –   | –   | –   | 342.9 | 160.7 | 192.9 | 450 | 225   | 300 | 600 | 315   | 450 |
| 3                                                                                                  | 360                | 270   | 540 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | 390 | 180   | 210 | 540 | 270   | 360 |
| 4                                                                                                  | 480                | 360   | 720 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | –   | –     | –   | –   | –     | –   |
| <b>DAPS-0960</b>                                                                                   |                    |       |     |                          |       |       |     |     |     |       |       |       |     |       |     |     |       |     |
| 1                                                                                                  | 320                | 240   | 480 | 366                      | 171   | 206   | 480 | 240 | 320 | 537   | 274   | 377   | 680 | 360   | 520 | 880 | 480   | 720 |
| 2                                                                                                  | 400                | 300   | 600 | –                        | –     | –     | –   | –   | –   | 457   | 214   | 257   | 600 | 300   | 400 | 800 | 420   | 600 |
| 3                                                                                                  | 480                | 360   | 720 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | 520 | 240   | 280 | 720 | 360   | 480 |
| 4                                                                                                  | 640                | 480   | 960 | –                        | –     | –     | –   | –   | –   | –     | –     | –     | –   | –     | –   | –   | –     | –   |

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

Technical data

| Actual torque [Nm] as a function of operating pressure [bar], spring strength and swivel angle [°] |                    |       |     |                          |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
|----------------------------------------------------------------------------------------------------|--------------------|-------|-----|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|
| Spring strength                                                                                    | Spring torque [Nm] |       |     | Operating pressure [bar] |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
|                                                                                                    |                    |       |     | 5                        |       |       | 5.6   |       |       | 6     |       |       | 7     |     |       | 8     |       |       |
|                                                                                                    | 0°                 | 50°   | 90° | 0°                       | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50° | 90°   | 0°    | 50°   | 90°   |
| <b>DAPS-0360</b>                                                                                   |                    |       |     |                          |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
| 1                                                                                                  | 120                | 90    | 180 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 2                                                                                                  | 150                | 112.5 | 225 | 385.7                    | 208.9 | 310.7 | 450   | 247.5 | 375   | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 3                                                                                                  | 180                | 135   | 270 | 355.7                    | 186.4 | 265.7 | 420   | 225   | 330   | 462.9 | 250.7 | 372.9 | 570   | 315 | 480   | 677.1 | 379.3 | 587.1 |
| 4                                                                                                  | 240                | 180   | 360 | 295.7                    | 141.4 | 175.7 | 360   | 180   | 240   | 402.9 | 205.7 | 282.9 | 510   | 270 | 390   | 617.1 | 334.3 | 497.1 |
| <b>DAPS-0480</b>                                                                                   |                    |       |     |                          |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
| 1                                                                                                  | 160                | 120   | 240 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 2                                                                                                  | 200                | 150   | 300 | 514.3                    | 278.6 | 414.3 | 600   | 330   | 500   | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 3                                                                                                  | 240                | 180   | 360 | 474.3                    | 248.6 | 354.3 | 560   | 300   | 440   | 617.1 | 334.3 | 497.1 | 760   | 420 | 640   | 902.9 | 505.7 | 782.9 |
| 4                                                                                                  | 320                | 240   | 480 | 394.3                    | 188.6 | 234.3 | 480   | 240   | 320   | 537.1 | 274.3 | 377.1 | 680   | 360 | 520   | 822.9 | 445.7 | 662.9 |
| <b>DAPS-0720</b>                                                                                   |                    |       |     |                          |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
| 1                                                                                                  | 240                | 180   | 360 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 2                                                                                                  | 300                | 225   | 450 | 771.4                    | 417.9 | 621.4 | 900   | 495   | 750   | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 3                                                                                                  | 360                | 270   | 540 | 711.4                    | 372.9 | 531.4 | 840   | 450   | 660   | 925.7 | 501.4 | 745.7 | 1,140 | 630 | 960   | 1,354 | 758.6 | 1,174 |
| 4                                                                                                  | 480                | 360   | 720 | 591.4                    | 282.9 | 351.4 | 720   | 360   | 480   | 805.7 | 411.4 | 565.7 | 1,020 | 540 | 780   | 1,234 | 668.6 | 994.3 |
| <b>DAPS-0960</b>                                                                                   |                    |       |     |                          |       |       |       |       |       |       |       |       |       |     |       |       |       |       |
| 1                                                                                                  | 320                | 240   | 480 | –                        | –     | –     | –     | –     | –     | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 2                                                                                                  | 400                | 300   | 600 | 1,029                    | 557   | 829   | 1,200 | 660   | 1,000 | –     | –     | –     | –     | –   | –     | –     | –     | –     |
| 3                                                                                                  | 480                | 360   | 720 | 949                      | 497   | 709   | 1,120 | 600   | 880   | 1,234 | 669   | 994   | 1,520 | 840 | 1,280 | 1,806 | 1,011 | 1,566 |
| 4                                                                                                  | 640                | 480   | 960 | 789                      | 377   | 469   | 960   | 480   | 640   | 1,074 | 549   | 754   | 1,360 | 720 | 1,040 | 1,646 | 891   | 1,326 |

Torque for size at 5.6 bar and swivel angle 0°

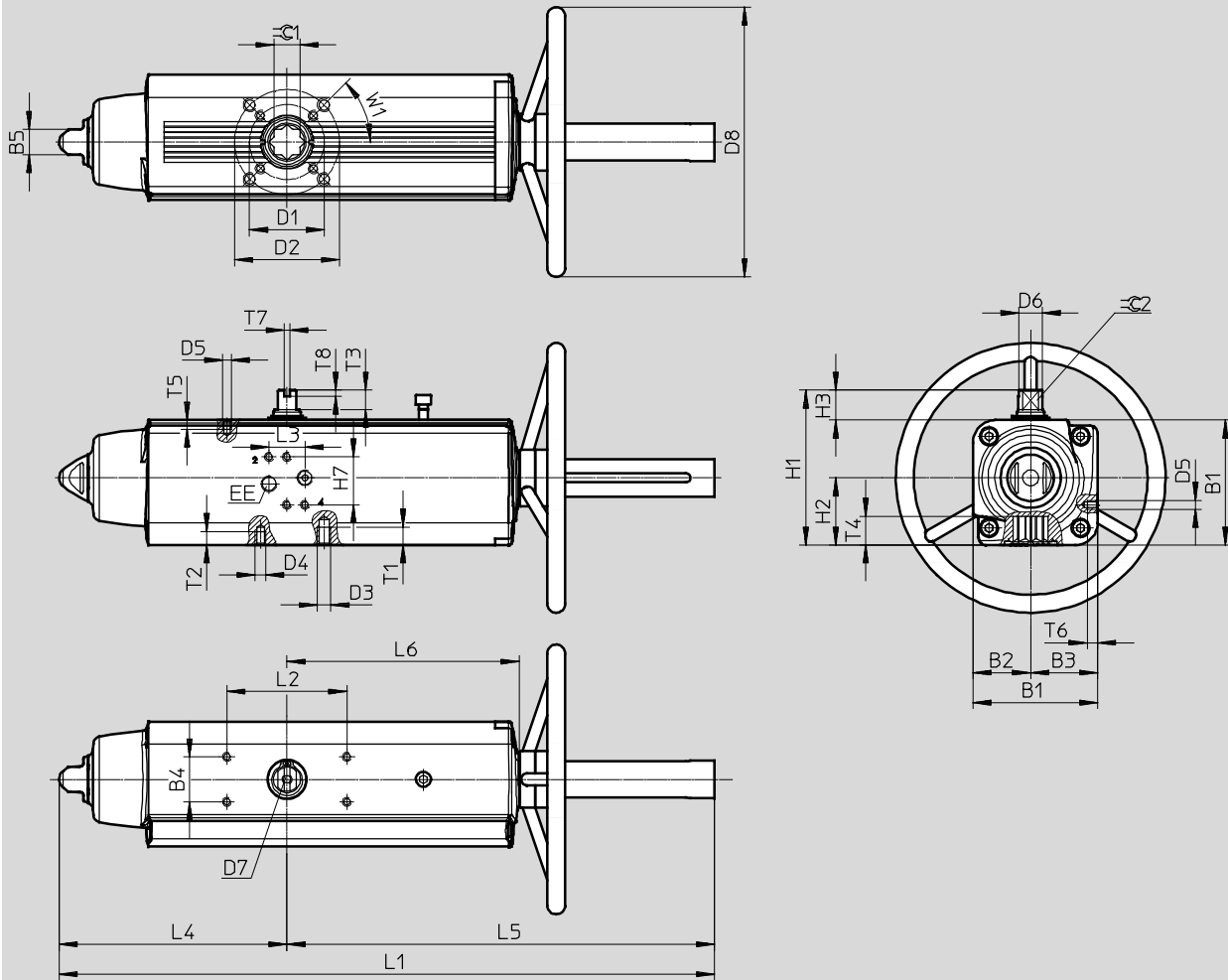
## Quarter turn actuators DAPS with handwheel, single-acting

Technical data

**FESTO**

### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



## Quarter turn actuators DAPS with handwheel, single-acting

Technical data

**FESTO**

| Size                    | B1<br>±0.4 | B2   | B3    | B4 | B5 | D1<br>Ø | D2<br>Ø | D3  | D4  | D5 | D6<br>Ø | D7    |
|-------------------------|------------|------|-------|----|----|---------|---------|-----|-----|----|---------|-------|
| DAPS-0053-...-F0507-... | 83.3       | 38.5 | 44.8  | 30 | 17 | 50      | 70      | M8  | M6  | M5 | 16.2    | M6x12 |
| DAPS-0090-...-F0710-... | 107.5      | 51   | 56.5  | 30 | 22 | 70      | 102     | M10 | M8  | M5 | 20.2    | M6x12 |
| DAPS-0120-...-F0710-... | 111.1      | 51   | 60.1  | 30 | 22 | 70      | 102     | M10 | M8  | M5 | 22.5    | M6x12 |
| DAPS-0180-...-F0710-... | 118        | 56   | 62    | 30 | 22 | 70      | 102     | M10 | M8  | M5 | 25.5    | M6x12 |
| DAPS-0240-...-F1012-... | 134.9      | 62   | 72.9  | 30 | 27 | 102     | 125     | M12 | M10 | M5 | 29      | M6x12 |
| DAPS-0360-...-F1012-... | 148        | 69.5 | 78.5  | 30 | 27 | 102     | 125     | M12 | M10 | M5 | 31.8    | M6x12 |
| DAPS-0480-...-F1012-... | 168        | 74.5 | 93.5  | 30 | 27 | 102     | 125     | M12 | M10 | M5 | 36.5    | M6x12 |
| DAPS-0480-...-F14-...   | 168        | 74.5 | 93.5  | 30 | 27 | –       | 140     | M16 | –   | M5 | 36.5    | M6x12 |
| DAPS-0720-...-F12-...   | 186        | 84.5 | 101.5 | 30 | 36 | –       | 125     | M12 | –   | M5 | 41      | M6x12 |
| DAPS-0720-...-F14-...   | 186        | 84.5 | 101.5 | 30 | 36 | –       | 140     | M16 | –   | M5 | 41      | M6x12 |
| DAPS-0960-...-F14-...   | 207.7      | 93   | 114.7 | 30 | 36 | –       | 140     | M16 | –   | M5 | 46      | M6x12 |
| DAPS-0960-...-F1216-... | 207.7      | 93   | 114.7 | 30 | 36 | 125     | 165     | M20 | M12 | M5 | 46      | M6x12 |

| Size                    | D8<br>Ø | EE              | H1    | H2    | H3     | H7 | L1<br>±2 | L2 | L3 | L4    | L5    | L6    |
|-------------------------|---------|-----------------|-------|-------|--------|----|----------|----|----|-------|-------|-------|
| DAPS-0053-...-F0507-... | 180     | G $\frac{1}{8}$ | 103.3 | 44.8  | 20±0.4 | 32 | 437.5    | 80 | 24 | 152.1 | 285.4 | 154.8 |
| DAPS-0090-...-F0710-... | 220     | G $\frac{1}{8}$ | 137.5 | 56.5  | 30±0.4 | 32 | 545.1    | 80 | 24 | 196.8 | 348.3 | 183.5 |
| DAPS-0120-...-F0710-... | 220     | G $\frac{1}{8}$ | 141.1 | 60.1  | 30±0.4 | 32 | 568.6    | 80 | 24 | 204.8 | 363.9 | 199.1 |
| DAPS-0180-...-F0710-... | 300     | G $\frac{1}{8}$ | 148   | 62    | 30±0.4 | 32 | 646.1    | 80 | 24 | 237   | 409.1 | 220.8 |
| DAPS-0240-...-F1012-... | 300     | G $\frac{1}{4}$ | 164.9 | 72.9  | 30±0.4 | 32 | 685.2    | 80 | 24 | 260.2 | 425   | 236.4 |
| DAPS-0360-...-F1012-... | 350     | G $\frac{1}{4}$ | 178   | 78.5  | 30±0.4 | 32 | 822.8    | 80 | 24 | 306.6 | 516.2 | 282.3 |
| DAPS-0480-...-F1012-... | 350     | G $\frac{1}{4}$ | 198   | 93.5  | 30±0.5 | 32 | 854.6    | 80 | 24 | 324.1 | 530.5 | 297.1 |
| DAPS-0480-...-F14-...   | 350     | G $\frac{1}{4}$ | 198   | 93.5  | 30±0.5 | 32 | 854.6    | 80 | 24 | 324.1 | 530.5 | 297.1 |
| DAPS-0720-...-F12-...   | 400     | G $\frac{1}{4}$ | 216   | 101.5 | 30±0.5 | 32 | 1,052.4  | 80 | 24 | 399   | 653.4 | 365.6 |
| DAPS-0720-...-F14-...   | 400     | G $\frac{1}{4}$ | 216   | 101.5 | 30±0.4 | 32 | 1,052.4  | 80 | 24 | 399   | 653.4 | 365.6 |
| DAPS-0960-...-F14-...   | 400     | G $\frac{1}{4}$ | 237.7 | 114.7 | 30±0.8 | 32 | 1,084    | 80 | 24 | 414   | 670   | 382.9 |
| DAPS-0960-...-F1216-... | 400     | G $\frac{1}{4}$ | 237.7 | 114.7 | 30±0.8 | 32 | 1,084    | 80 | 24 | 414   | 670   | 382.9 |

| Size                    | T1 | T2 | T3   | T4       | T5 | T6 | T7<br>+0.1 | T8<br>+0.3 | ≈C 1<br>H11 | ≈C 2<br>h11 | W1  |
|-------------------------|----|----|------|----------|----|----|------------|------------|-------------|-------------|-----|
| DAPS-0053-...-F0507-... | 12 | 9  | 13   | 19.3±0.4 | 6  | 7  | 4          | 4          | 17          | 12          | 45° |
| DAPS-0090-...-F0710-... | 15 | 12 | 16   | 24.8±0.4 | 6  | 7  | 4          | 4          | 22          | 15          | 45° |
| DAPS-0120-...-F0710-... | 15 | 12 | 17   | 24.8±0.4 | 6  | 7  | 4          | 4          | 22          | 15          | 45° |
| DAPS-0180-...-F0710-... | 15 | 12 | 19   | 24.3±0.4 | 6  | 7  | 4          | 4          | 22          | 19          | 45° |
| DAPS-0240-...-F1012-... | 18 | 15 | 19   | 29.5±0.4 | 6  | 7  | 4          | 4          | 27          | 19          | 45° |
| DAPS-0360-...-F1012-... | 18 | 15 | 19.5 | 29.5±0.4 | 6  | 7  | 4          | 4          | 27          | 22          | 45° |
| DAPS-0480-...-F1012-... | 18 | 15 | 19.5 | 38.5±0.5 | 6  | 7  | 4          | 4          | 36          | 24          | 45° |
| DAPS-0480-...-F14-...   | 24 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4          | 4          | 36          | 24          | 45° |
| DAPS-0720-...-F12-...   | 18 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4          | 4          | 36          | 27          | 45° |
| DAPS-0720-...-F14-...   | 24 | –  | 19.5 | 38.5±0.5 | 6  | 7  | 4          | 4          | 36          | 27          | 45° |
| DAPS-0960-...-F14-...   | 24 | –  | 18.5 | 48.5±0.8 | 6  | 7  | 4          | 4          | 46          | 32          | 45° |
| DAPS-0960-...-F1216-... | 30 | 18 | 18.5 | 48.5±0.8 | 6  | 7  | 4          | 4          | 46          | 32          | 45° |

## Quarter turn actuators DAPS with handwheel, single-acting

**FESTO**

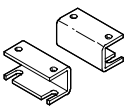
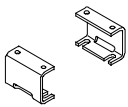
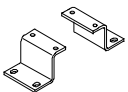
Technical data

| Ordering data – Single-acting |                            | Part No. | Type |
|-------------------------------|----------------------------|----------|------|
| Size 0053                     |                            |          |      |
| 8005026                       | DAPS-0053-090-RS1-F0507-MW |          |      |
| 8005027                       | DAPS-0053-090-RS2-F0507-MW |          |      |
| 8005028                       | DAPS-0053-090-RS3-F0507-MW |          |      |
| 8005029                       | DAPS-0053-090-RS4-F0507-MW |          |      |
| Size 0090                     |                            |          |      |
| 8005030                       | DAPS-0090-090-RS1-F0710-MW |          |      |
| 8005031                       | DAPS-0090-090-RS2-F0710-MW |          |      |
| 8005032                       | DAPS-0090-090-RS3-F0710-MW |          |      |
| 8005033                       | DAPS-0090-090-RS4-F0710-MW |          |      |
| Size 0120                     |                            |          |      |
| 8005034                       | DAPS-0120-090-RS1-F0710-MW |          |      |
| 8005035                       | DAPS-0120-090-RS2-F0710-MW |          |      |
| 8005036                       | DAPS-0120-090-RS3-F0710-MW |          |      |
| 8005037                       | DAPS-0120-090-RS4-F0710-MW |          |      |
| Size 0180                     |                            |          |      |
| 8005038                       | DAPS-0180-090-RS1-F0710-MW |          |      |
| 8005039                       | DAPS-0180-090-RS2-F0710-MW |          |      |
| 8005040                       | DAPS-0180-090-RS3-F0710-MW |          |      |
| 8005041                       | DAPS-0180-090-RS4-F0710-MW |          |      |
| Size 0240                     |                            |          |      |
| 8005042                       | DAPS-0240-090-RS1-F1012-MW |          |      |
| 8005043                       | DAPS-0240-090-RS2-F1012-MW |          |      |
| 8005044                       | DAPS-0240-090-RS3-F1012-MW |          |      |
| 8005045                       | DAPS-0240-090-RS4-F1012-MW |          |      |
| Size 0360                     |                            |          |      |
| 8005046                       | DAPS-0360-090-RS1-F1012-MW |          |      |
| 8005047                       | DAPS-0360-090-RS2-F1012-MW |          |      |
| 8005048                       | DAPS-0360-090-RS3-F1012-MW |          |      |
| 8005049                       | DAPS-0360-090-RS4-F1012-MW |          |      |
| Size 0480                     |                            |          |      |
| 8005050                       | DAPS-0480-090-RS1-F1012-MW |          |      |
| 8005051                       | DAPS-0480-090-RS1-F14-MW   |          |      |
| 8005052                       | DAPS-0480-090-RS2-F1012-MW |          |      |
| 8005053                       | DAPS-0480-090-RS2-F14-MW   |          |      |
| 8005054                       | DAPS-0480-090-RS3-F1012-MW |          |      |
| 8005055                       | DAPS-0480-090-RS3-F14-MW   |          |      |
| 8005056                       | DAPS-0480-090-RS4-F1012-MW |          |      |
| 8005057                       | DAPS-0480-090-RS4-F14-MW   |          |      |
| Size 0720                     |                            |          |      |
| 8005058                       | DAPS-0720-090-RS1-F12-MW   |          |      |
| 8005059                       | DAPS-0720-090-RS1-F14-MW   |          |      |
| 8005060                       | DAPS-0720-090-RS2-F12-MW   |          |      |
| 8005061                       | DAPS-0720-090-RS2-F14-MW   |          |      |
| 8005062                       | DAPS-0720-090-RS3-F12-MW   |          |      |
| 8005063                       | DAPS-0720-090-RS3-F14-MW   |          |      |
| 8005064                       | DAPS-0720-090-RS4-F12-MW   |          |      |
| 8005065                       | DAPS-0720-090-RS4-F14-MW   |          |      |
| Size 0960                     |                            |          |      |
| 8005067                       | DAPS-0960-090-RS1-F1216-MW |          |      |
| 8005066                       | DAPS-0960-090-RS1-F14-MW   |          |      |
| 8005069                       | DAPS-0960-090-RS2-F1216-MW |          |      |
| 8005068                       | DAPS-0960-090-RS2-F14-MW   |          |      |
| 8005071                       | DAPS-0960-090-RS3-F1216-MW |          |      |
| 8005070                       | DAPS-0960-090-RS3-F14-MW   |          |      |
| 8005073                       | DAPS-0960-090-RS4-F1216-MW |          |      |
| 8005072                       | DAPS-0960-090-RS4-F14-MW   |          |      |

# Quarter turn actuators DAPS

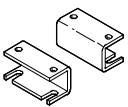
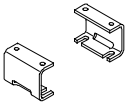
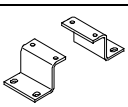
Accessories

**FESTO**

| Ordering data – Adapter kits for mounting the sensor boxes SRBP, SRAP               |                       |                 |                   |          |               |
|-------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------|----------|---------------|
|                                                                                     | Size                  | Dimensions [mm] | CRC <sup>1)</sup> | Part No. | Type          |
| <b>DAPS – Double-acting</b>                                                         |                       |                 |                   |          |               |
|    | DAPS-0015- ... -F03   | 20x30x80        | 3                 | 568275   | DASB-P1-HA-SB |
|                                                                                     | DAPS-0015- ... -F04   |                 |                   |          |               |
|                                                                                     | DAPS-0030- ... -F0305 |                 |                   |          |               |
|                                                                                     | DAPS-0030- ... -F04   |                 |                   |          |               |
|                                                                                     | DAPS-0060- ... -F04   |                 |                   |          |               |
|                                                                                     | DAPS-0060- ... -F0507 |                 |                   |          |               |
|                                                                                     | DAPS-0106- ... -F0507 |                 |                   |          |               |
|    | DAPS-0180- ... -F0710 | 30x30x80        | 3                 | 572418   | DASB-P1-HB-SB |
|                                                                                     | DAPS-0240- ... -F0710 |                 |                   |          |               |
|                                                                                     | DAPS-0360- ... -F0710 |                 |                   |          |               |
|                                                                                     | DAPS-0480- ... -F1012 |                 |                   |          |               |
|                                                                                     | DAPS-0720- ... -F1012 |                 |                   |          |               |
|                                                                                     | DAPS-0960- ... -F12   |                 |                   |          |               |
|                                                                                     | DAPS-0960- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-1440- ... -F12   |                 |                   |          |               |
|                                                                                     | DAPS-1440- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-1920- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-1920- ... -F1216 |                 |                   |          |               |
|                                                                                     | DAPS-2880- ... -F16   |                 |                   |          |               |
|                                                                                     | DAPS-3840- ... -F16   |                 |                   |          |               |
|                                                                                     | DAPS-5760- ... -F25   |                 |                   |          |               |
|  | DAPS-8000- ... -F25   | 30x30x130       | 3                 | 572419   | DASB-P1-HC-SB |
|                                                                                     |                       |                 |                   |          |               |
|                                                                                     |                       |                 |                   |          |               |
|                                                                                     |                       |                 |                   |          |               |

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

| Ordering data – Adapter kits for mounting the sensor boxes SRBP, SRAP               |                       |                 |                   |          |               |
|-------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------|----------|---------------|
|                                                                                     | Size                  | Dimensions [mm] | CRC <sup>1)</sup> | Part No. | Type          |
| <b>DAPS – Single-acting</b>                                                         |                       |                 |                   |          |               |
|  | DAPS-0015- ... -F0305 | 20x30x80        | 3                 | 568275   | DASB-P1-HA-SB |
|                                                                                     | DAPS-0015- ... -F04   |                 |                   |          |               |
|                                                                                     | DAPS-0030- ... -F04   |                 |                   |          |               |
|                                                                                     | DAPS-0030- ... -F0507 |                 |                   |          |               |
|                                                                                     | DAPS-0053- ... -F0507 |                 |                   |          |               |
|  | DAPS-0090- ... -F0710 | 30x30x80        | 3                 | 572418   | DASB-P1-HB-SB |
|                                                                                     | DAPS-0120- ... -F0710 |                 |                   |          |               |
|                                                                                     | DAPS-0180- ... -F0710 |                 |                   |          |               |
|                                                                                     | DAPS-0240- ... -F1012 |                 |                   |          |               |
|                                                                                     | DAPS-0360- ... -F1012 |                 |                   |          |               |
|                                                                                     | DAPS-0480- ... -F12   |                 |                   |          |               |
|                                                                                     | DAPS-0480- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-0720- ... -F12   |                 |                   |          |               |
|                                                                                     | DAPS-0720- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-0960- ... -F14   |                 |                   |          |               |
|                                                                                     | DAPS-0960- ... -F1216 |                 |                   |          |               |
|                                                                                     |                       |                 |                   |          |               |
|  | DAPS-1440- ... -F16   | 30x30x130       | 3                 | 572419   | DASB-P1-HC-SB |
|                                                                                     | DAPS-1920- ... -F16   |                 |                   |          |               |
|                                                                                     | DAPS-2880- ... -F16   |                 |                   |          |               |
|                                                                                     | DAPS-4000- ... -F25   |                 |                   |          |               |

1) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.