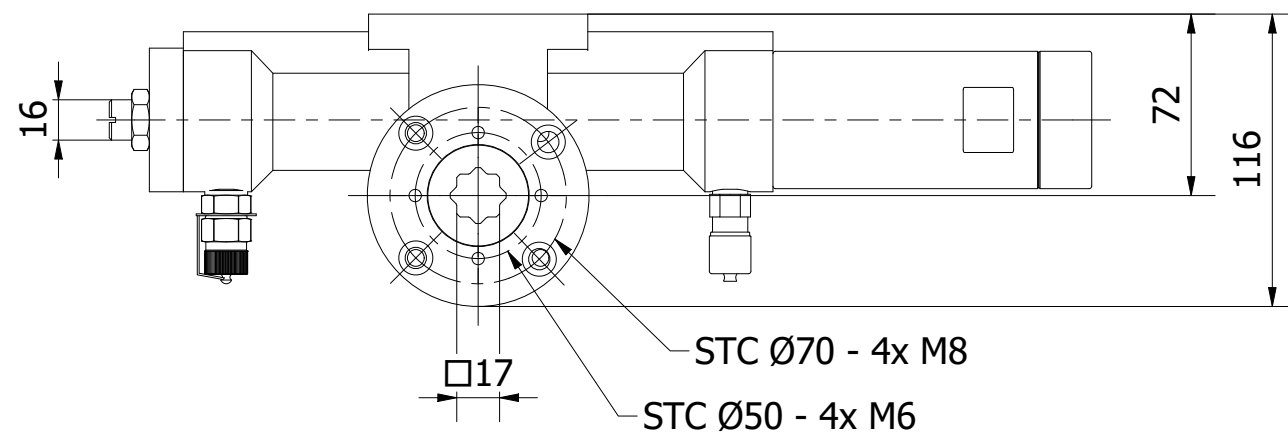
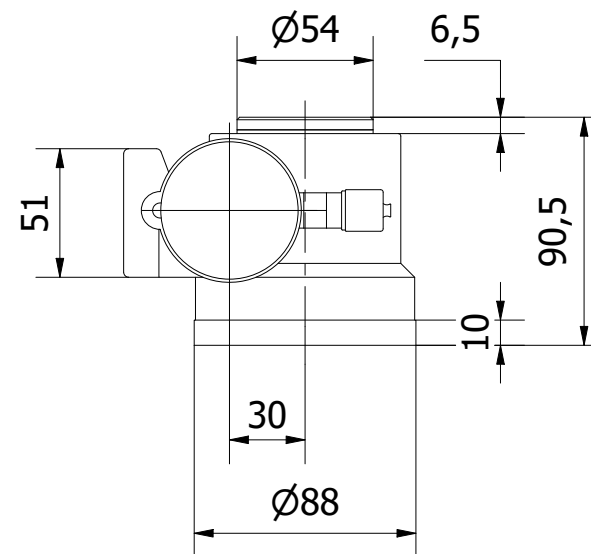
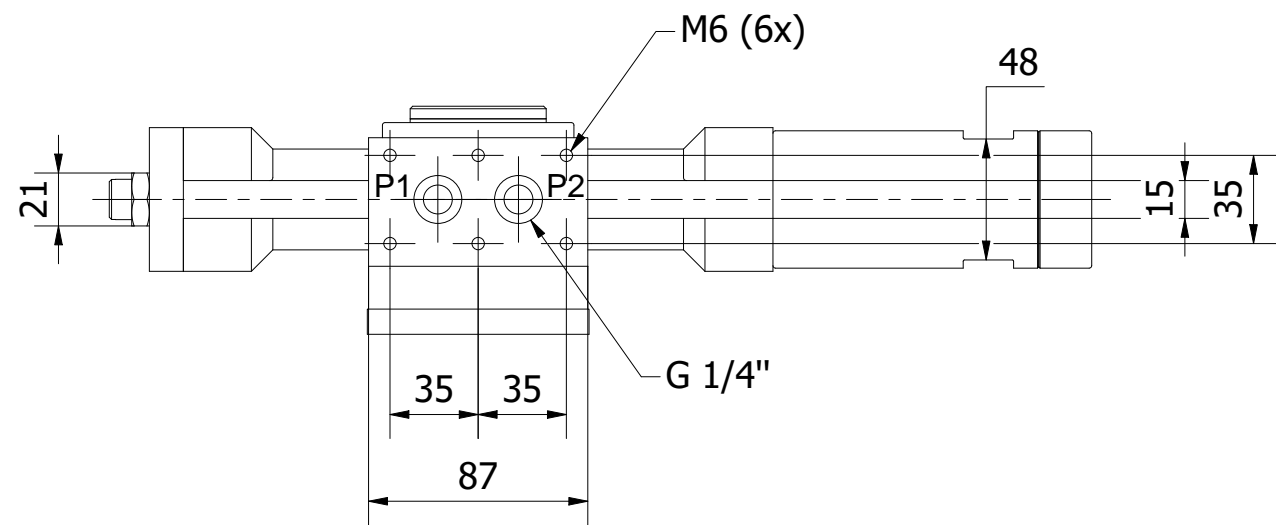
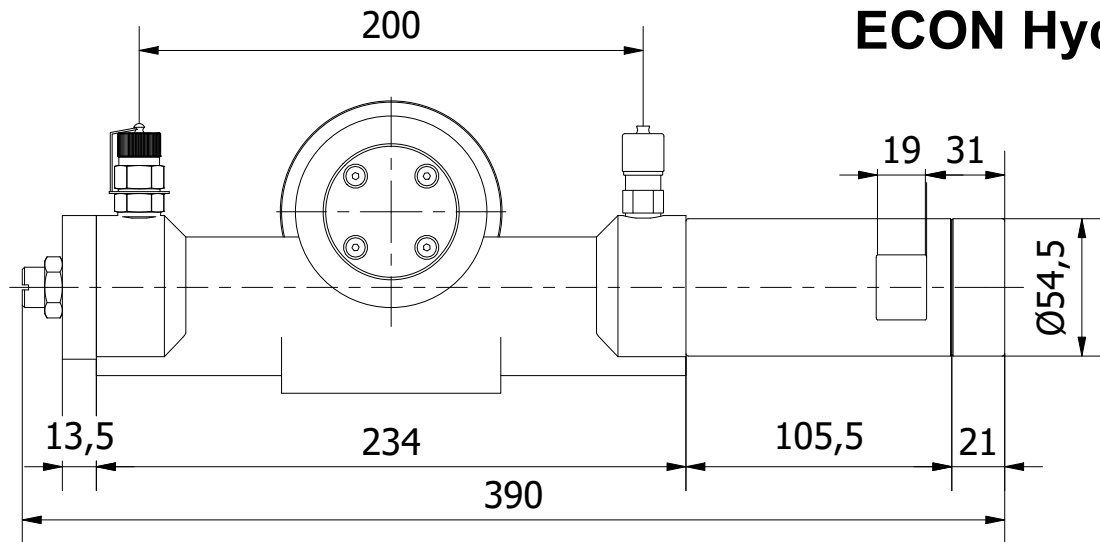
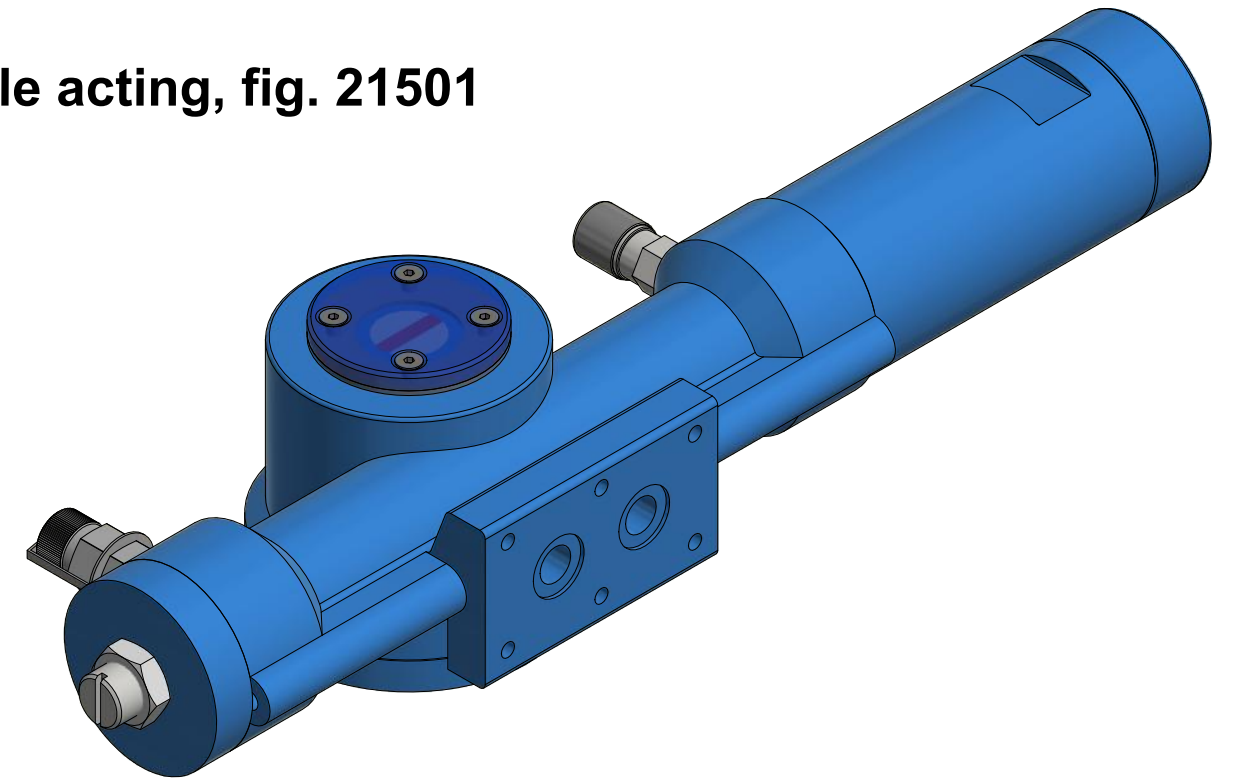


# ECON Hydraulic actuator, single acting, fig. 21501

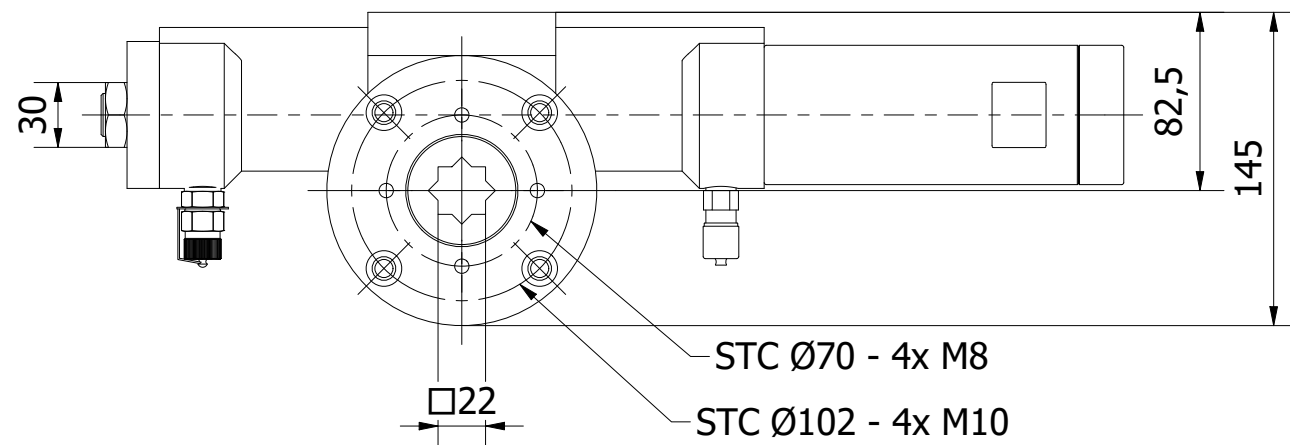
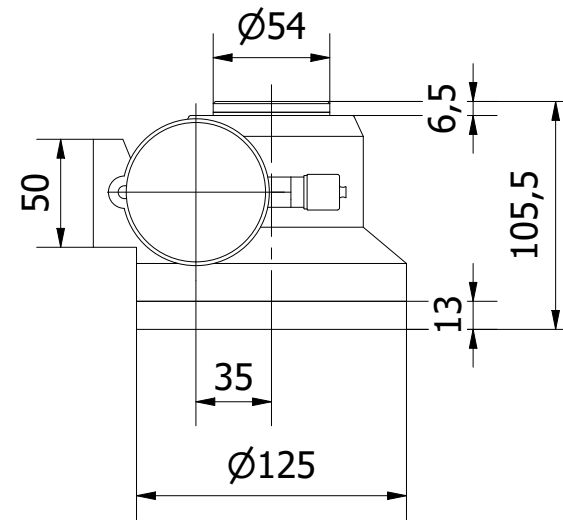
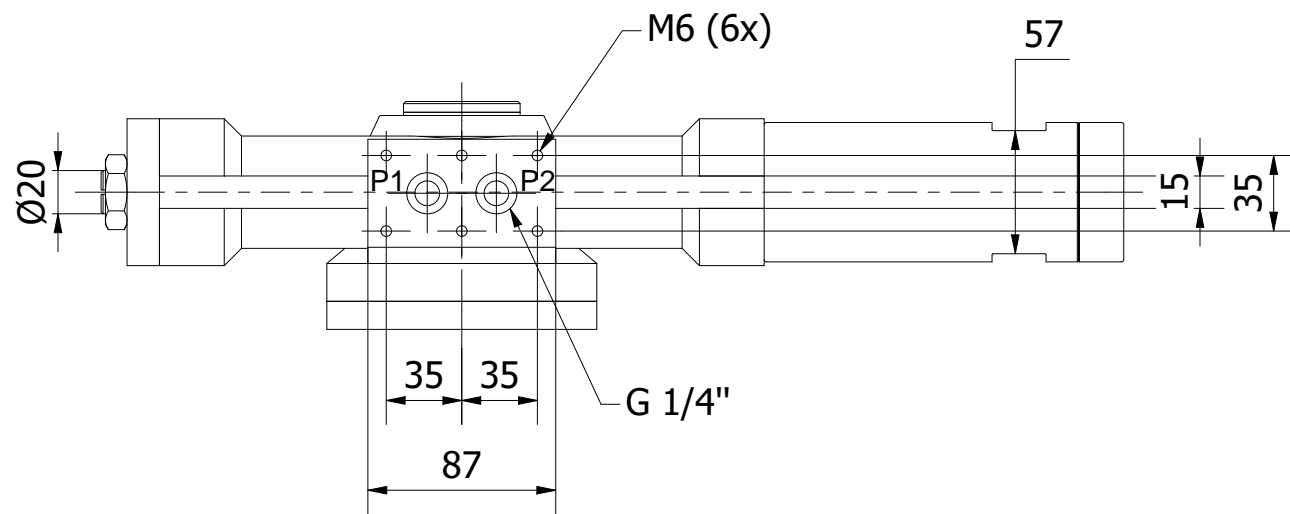
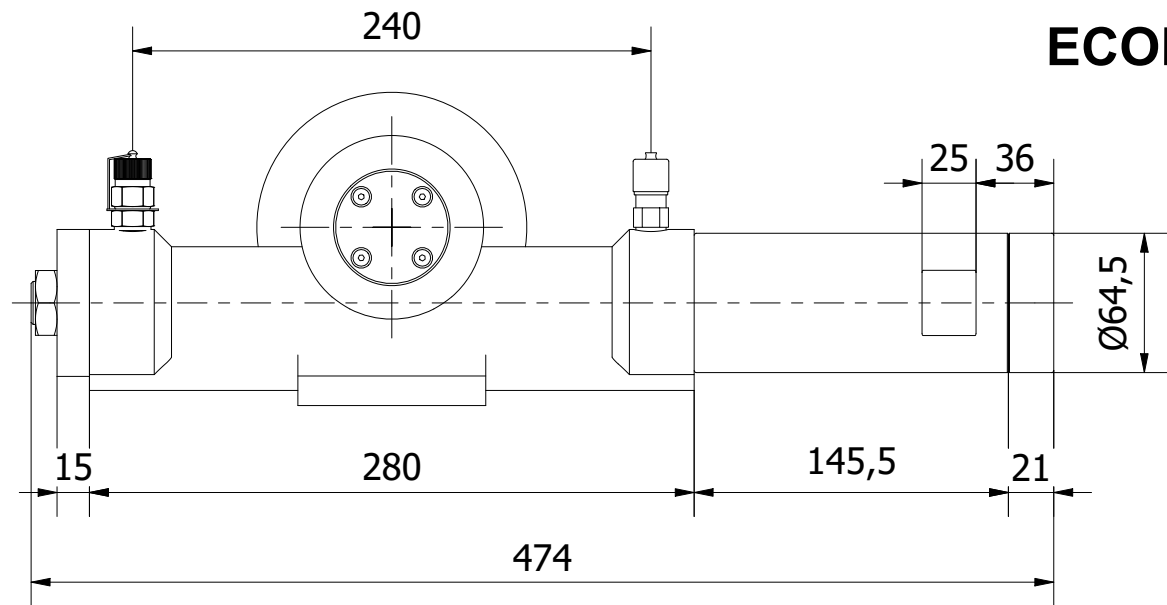
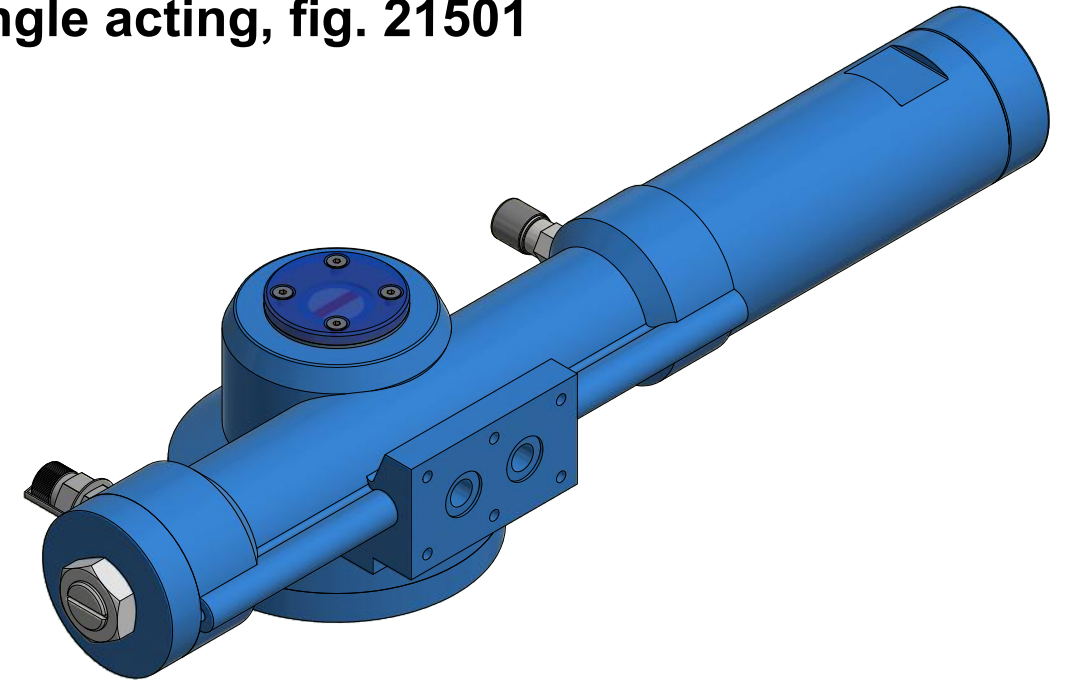


### Technical Data ESR-1:

Design Pressure: 135 bar  
 Gas Spring Closing Torque: 84 Nm  
 Opening Torque: 86 Nm at 135 bar  
 90° Opening Torque: 63 Nm at 135 bar  
 Connection: Flange F05 + F07 (DIN-EN-ISO 5211)  
 Insert DSQ, maximum size #17mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0,027 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 10 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used.  
 Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup> (cSt.).  
 These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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# ECON Hydraulic actuator, single acting, fig. 21501

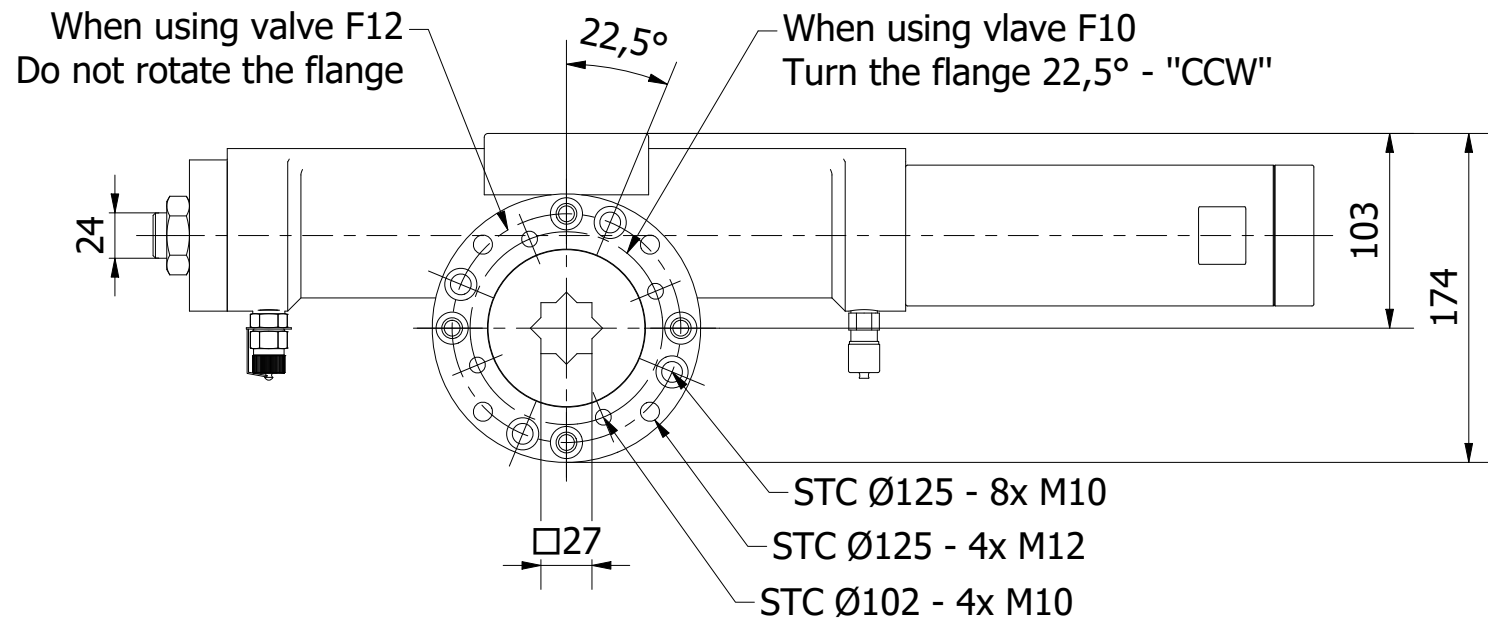
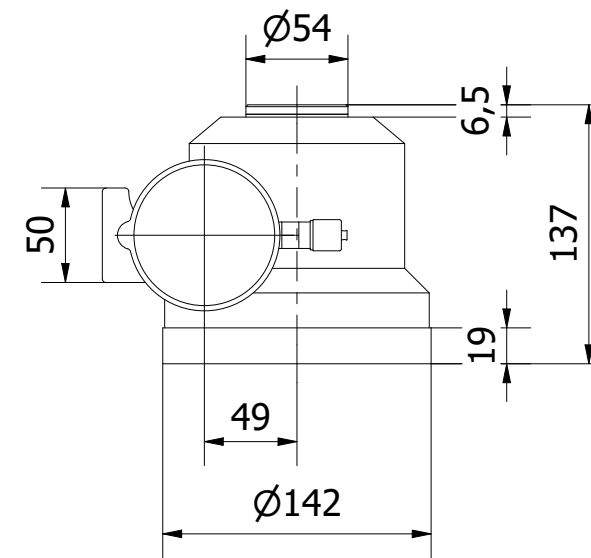
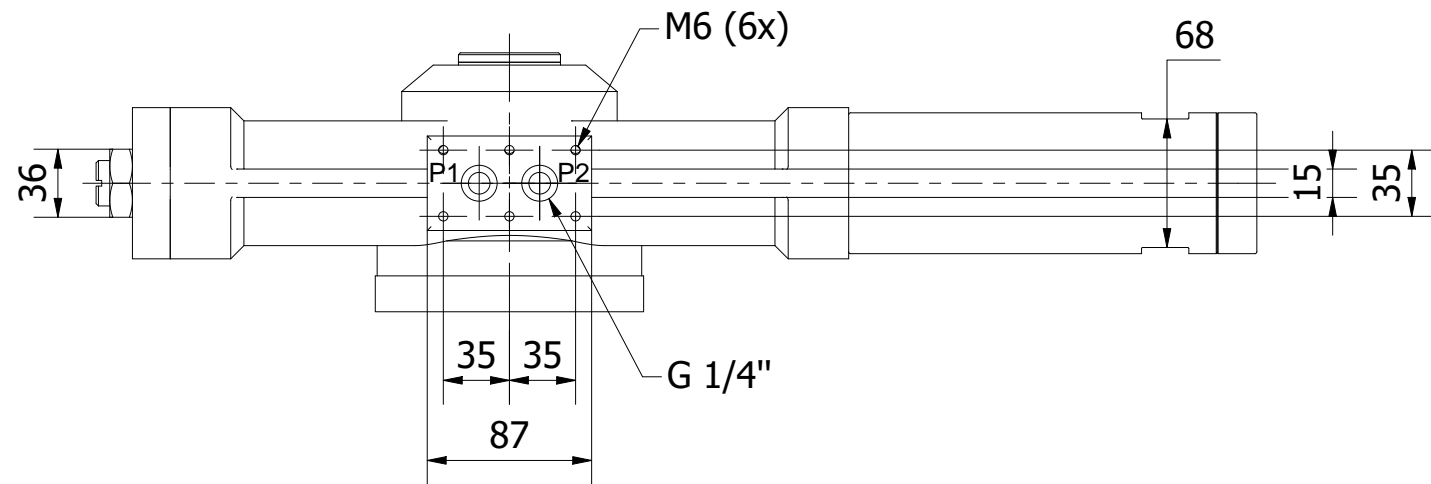
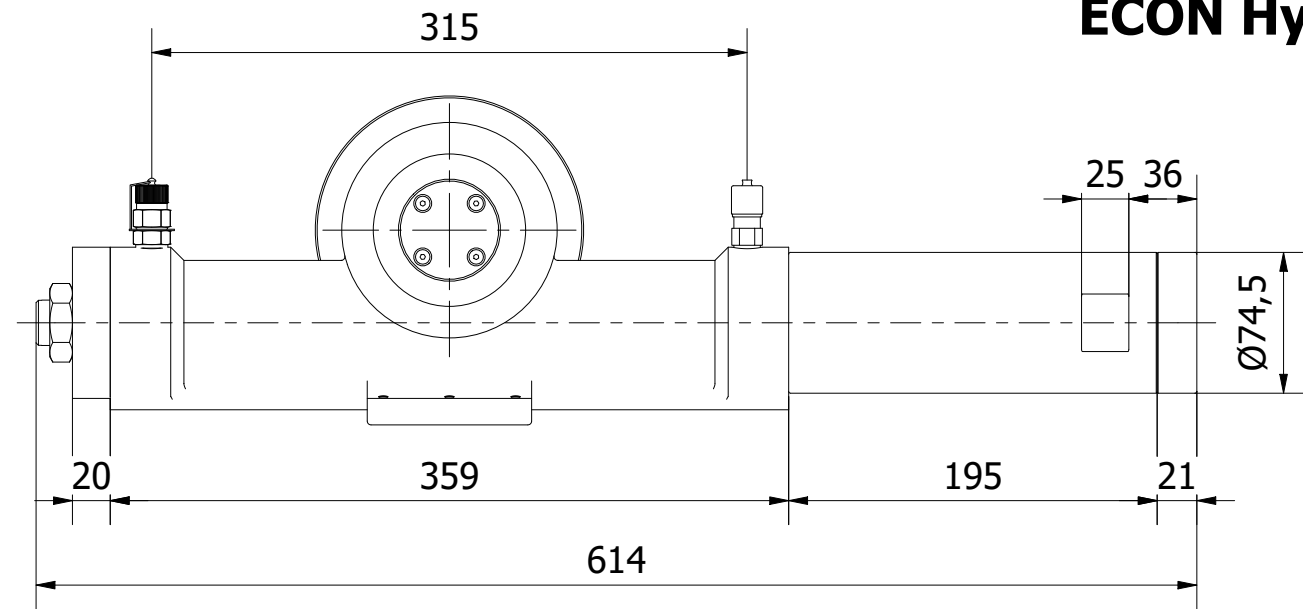
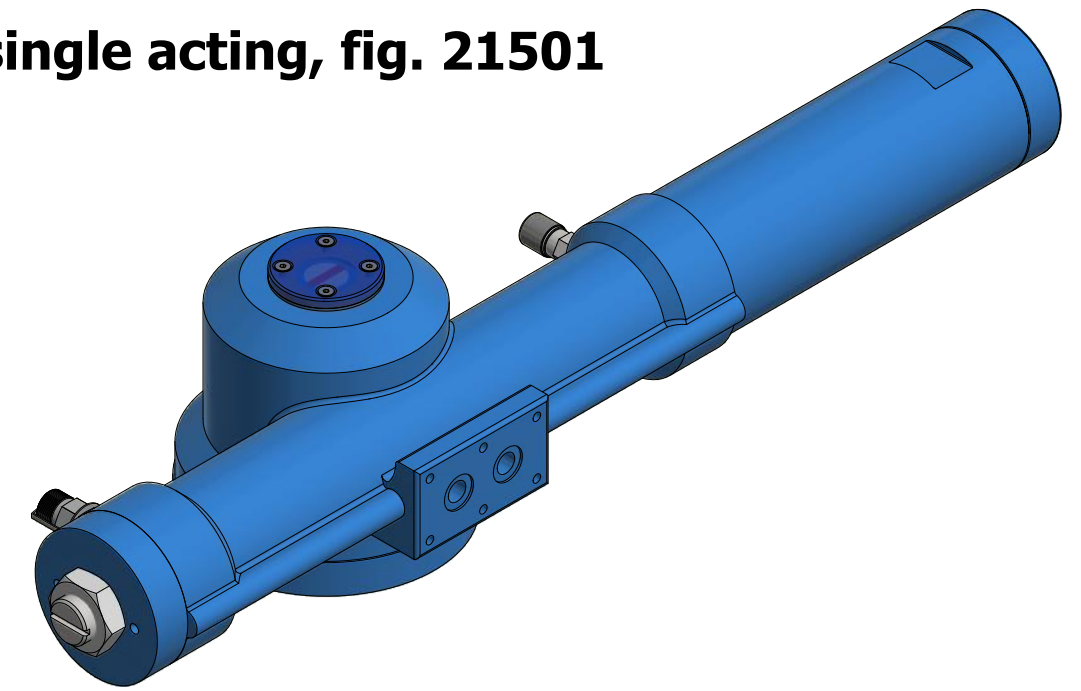


## Technical Data ESR-2:

Design Pressure: 135 bar  
 Gas Spring Closing Torque: 185 Nm  
 Opening Torque: 193 Nm at 135 bar  
 90° Opening Torque: 140 Nm at 135 bar  
 Connection: Flange F07 + F10 (DIN-EN-ISO 5211)  
 Insert DSQ, maximum size #22mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0,060 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 17 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used. Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup>/s (cSt.). These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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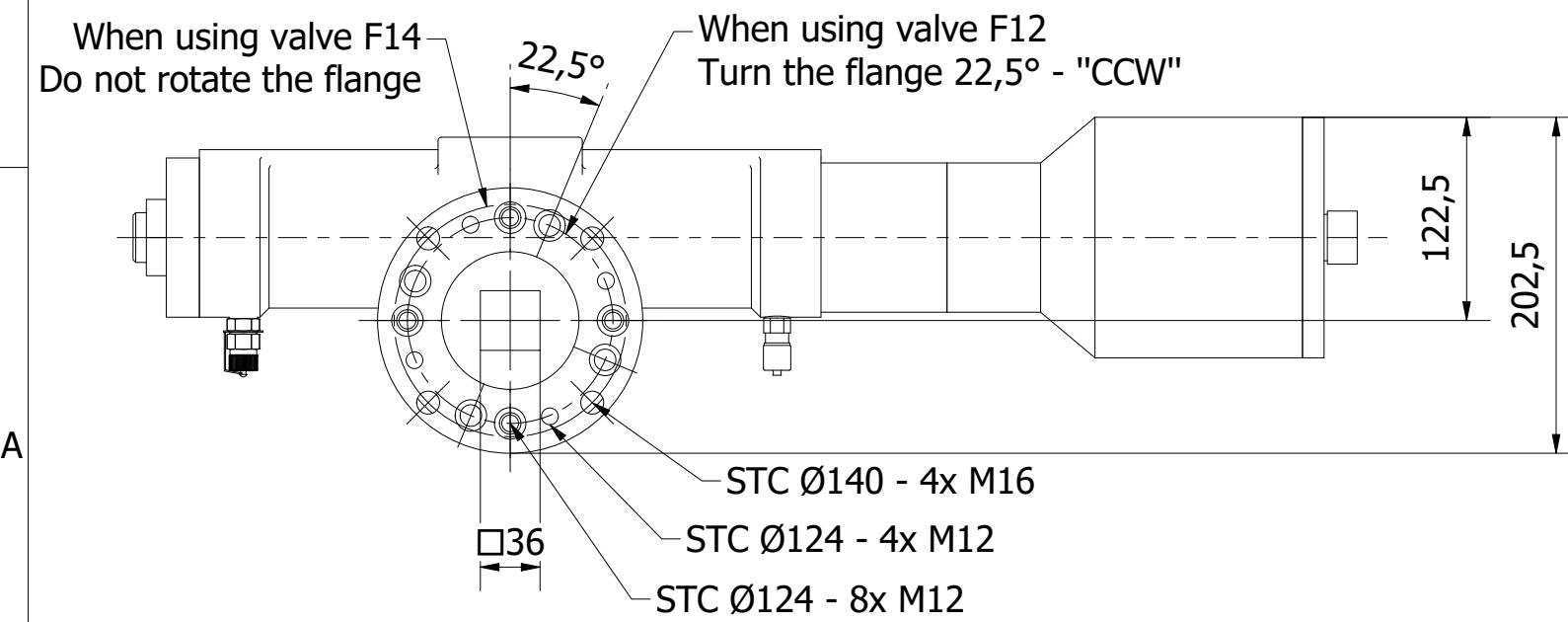
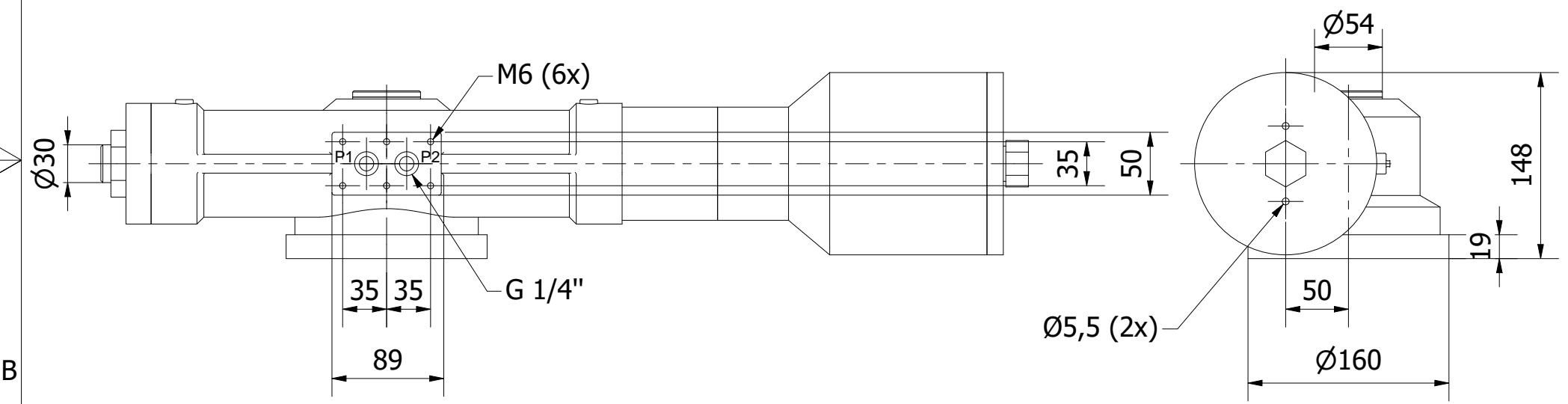
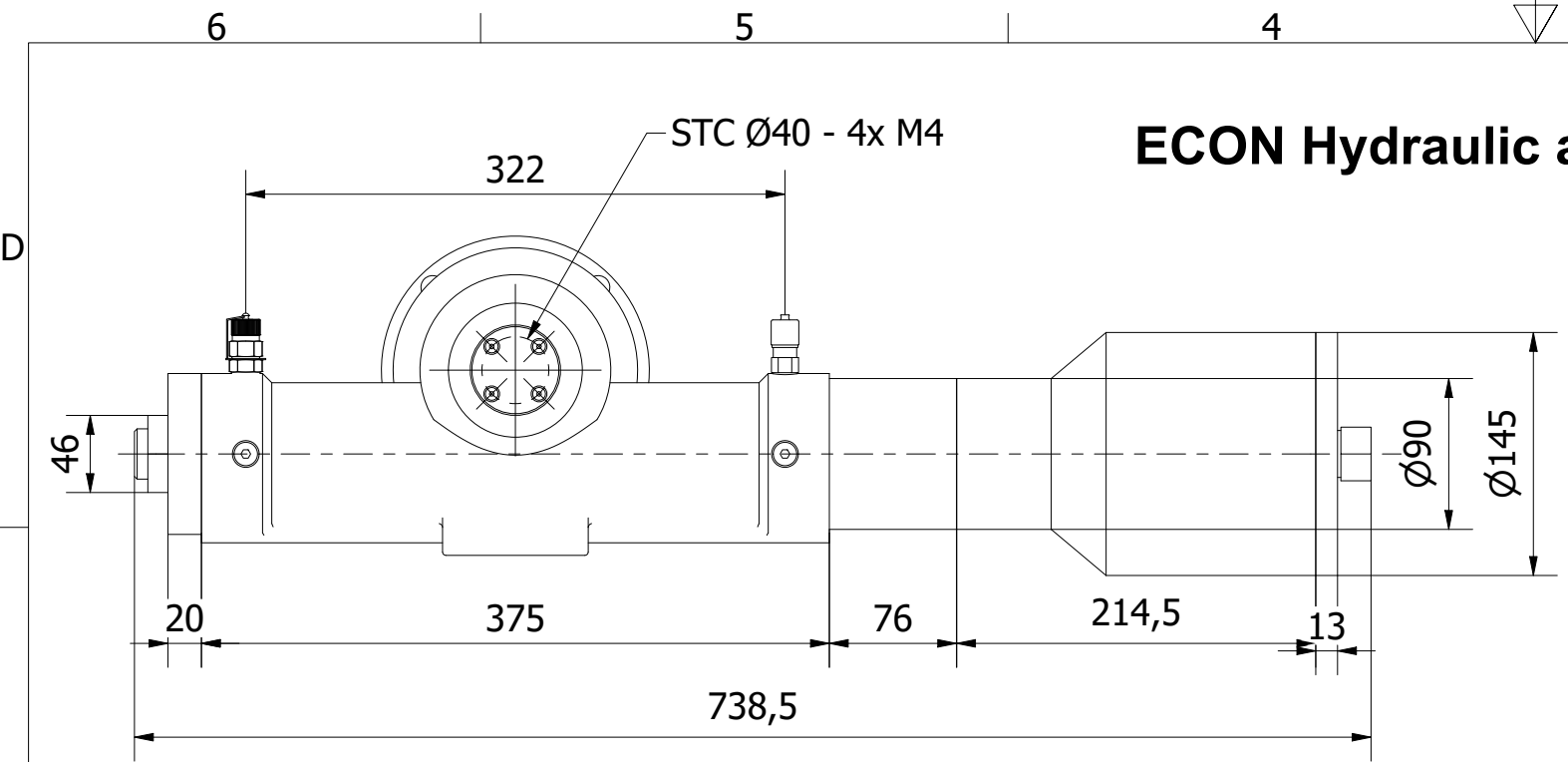
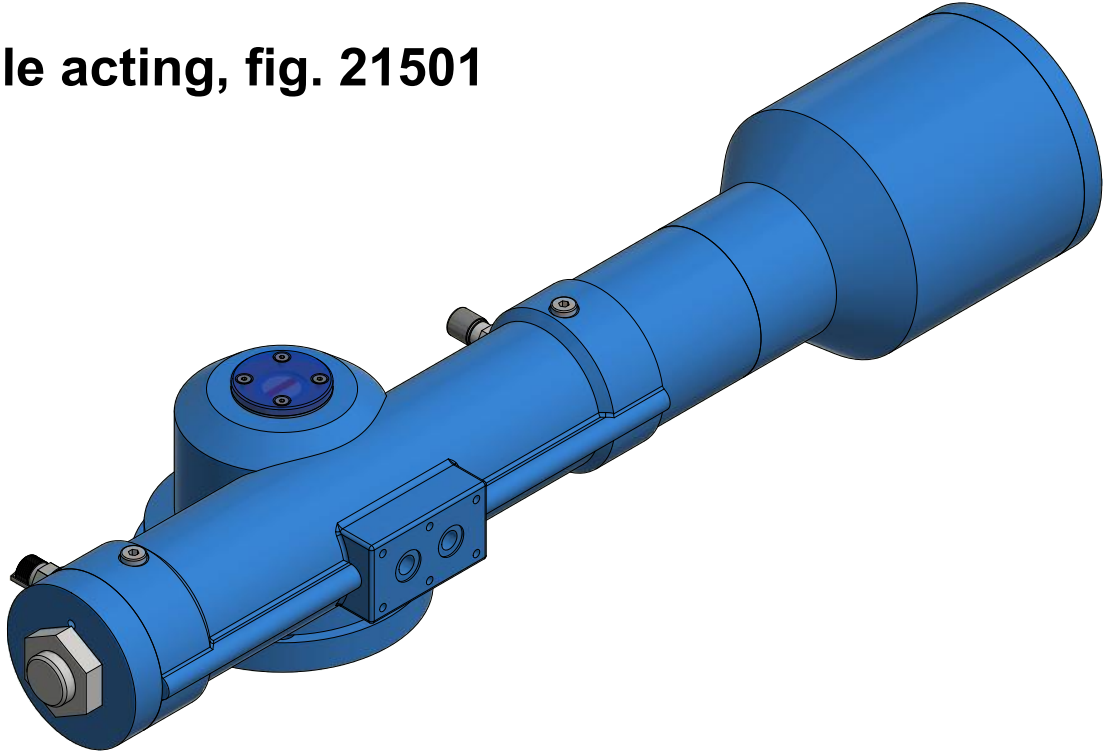
# ECON Hydraulic actuator , single acting, fig. 21501



**Technical Data ESR-3:**  
 Design Pressure: 135 bar  
 Gas Spring Closing Torque: 400 Nm  
 Opening Torque: 428 Nm at 135 bar  
 90° Opening Torque: 308 Nm at 135 bar  
 Connection: Flange F10 + F12 (DIN-EN-ISO 5211)  
 Insert DSQ, maximum size #27mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0,131 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 27 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used.  
 Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup> (cSt.).  
 These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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# ECON Hydraulic actuator, single acting, fig. 21501



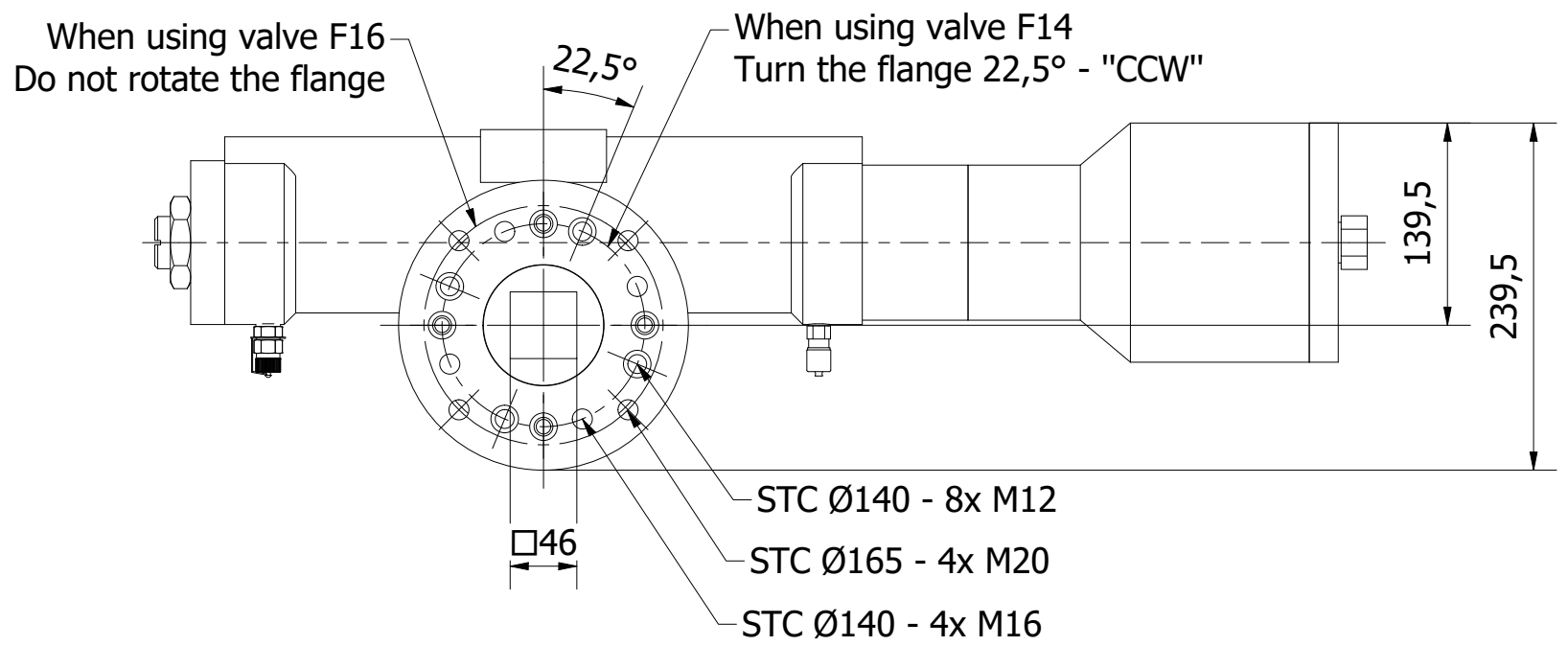
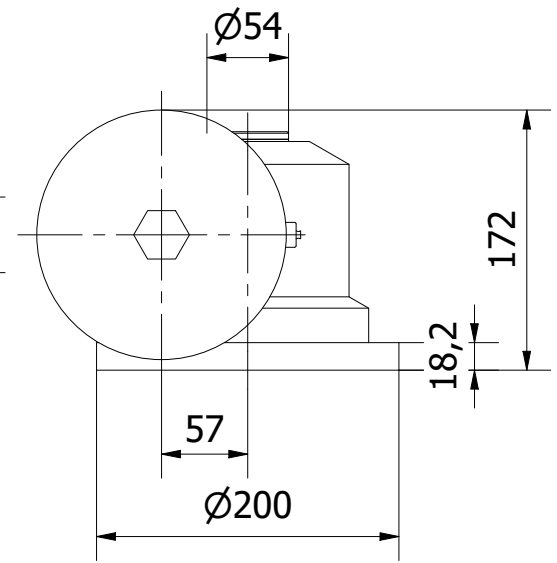
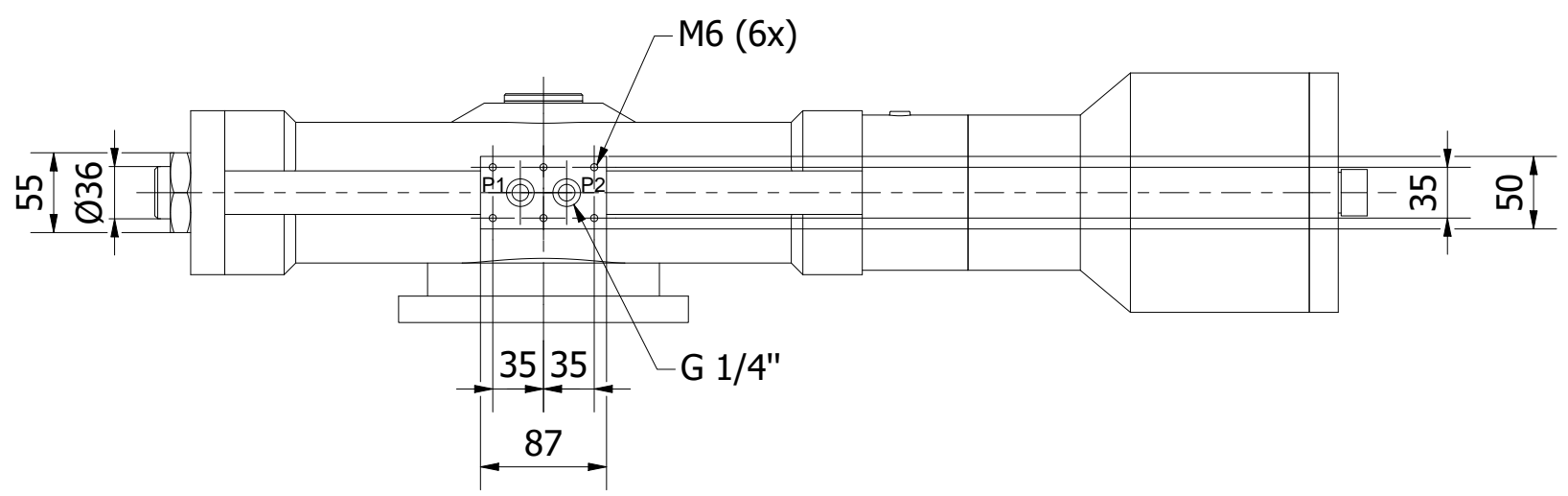
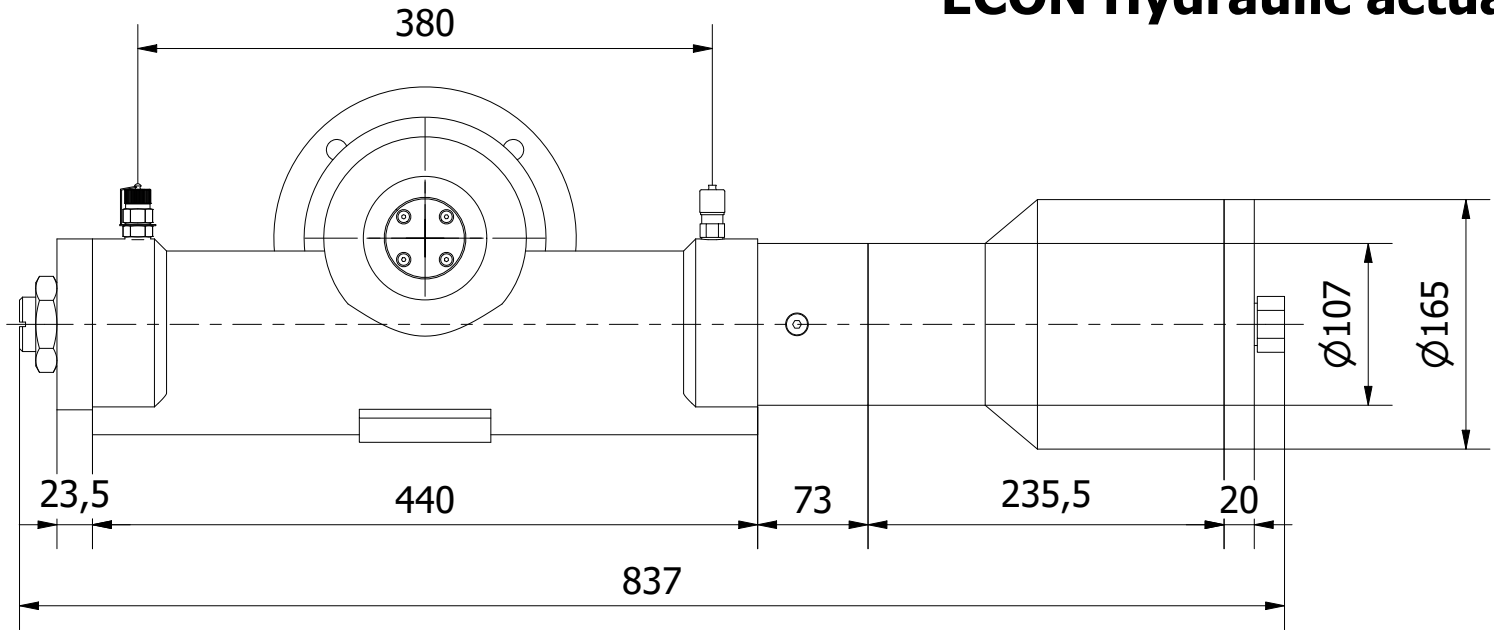
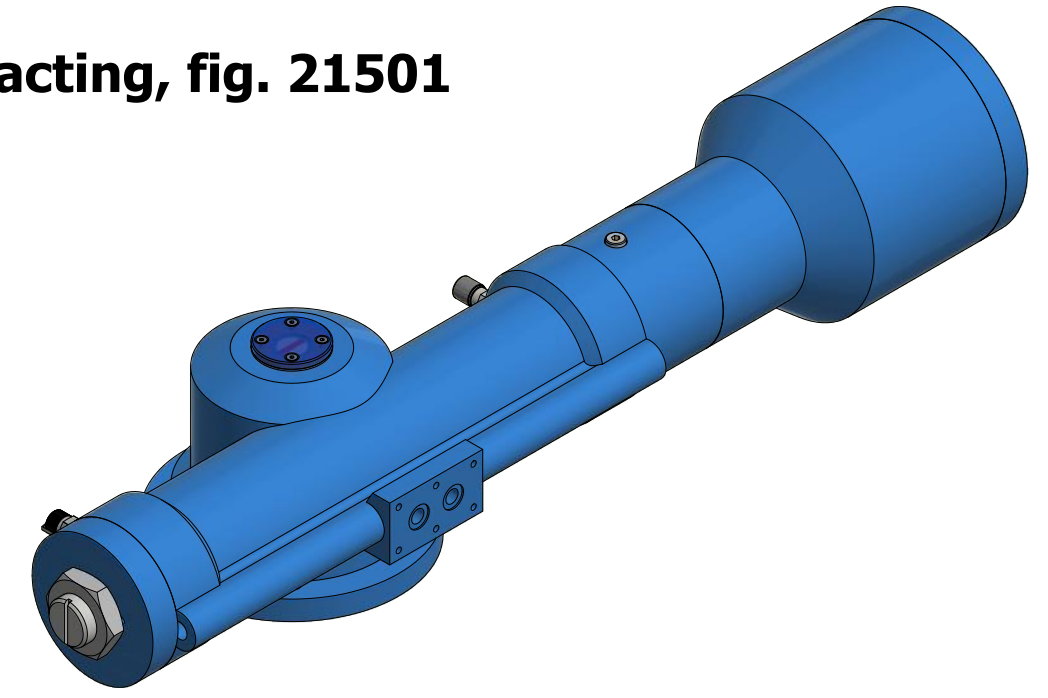
**Technical Data ESR-4:**  
 Design Pressure: 135 bar  
 Gas Spring Closing Torque: 670 Nm  
 Opening Torque: 718 Nm at 135 bar  
 90° Opening Torque: 518 Nm at 135 bar  
 Connection: Flange F12 + F14 (DIN-EN-ISO 5211)  
 Insert SQ, maximum size #36mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0,189 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 46 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used. Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup> (cSt.). These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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# ECON Hydraulic actuator, single acting, fig. 21501



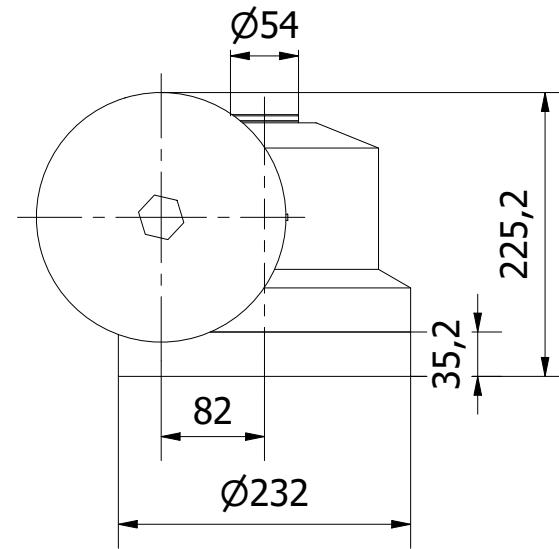
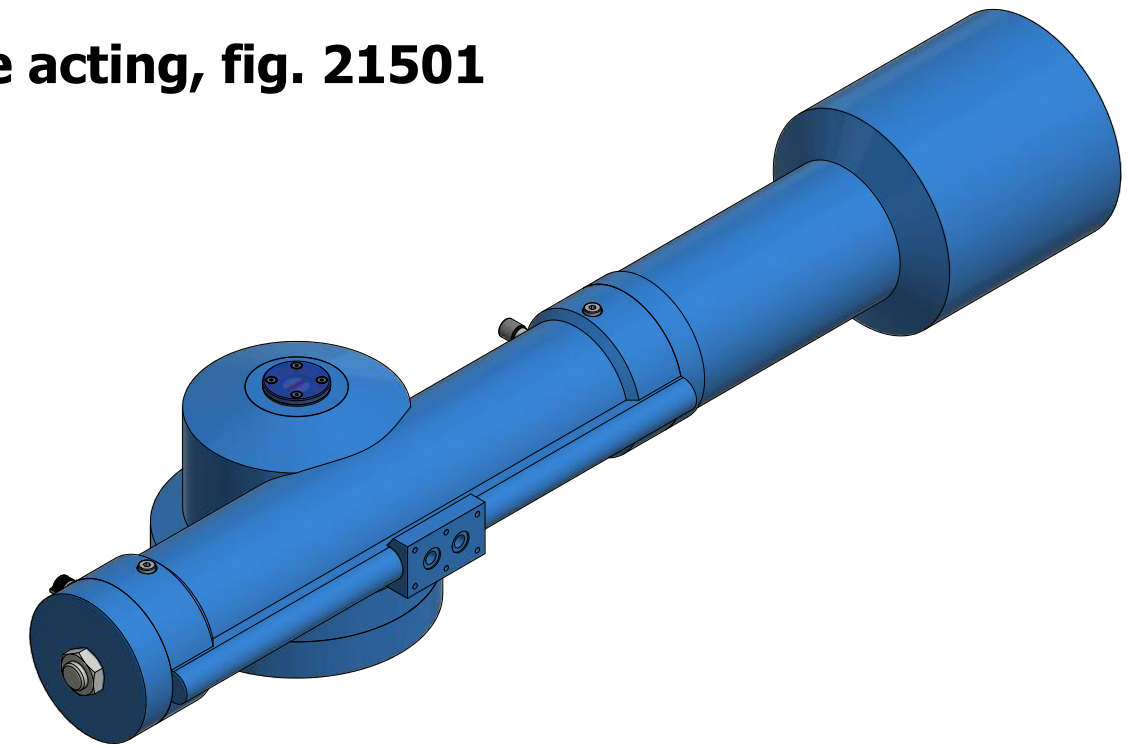
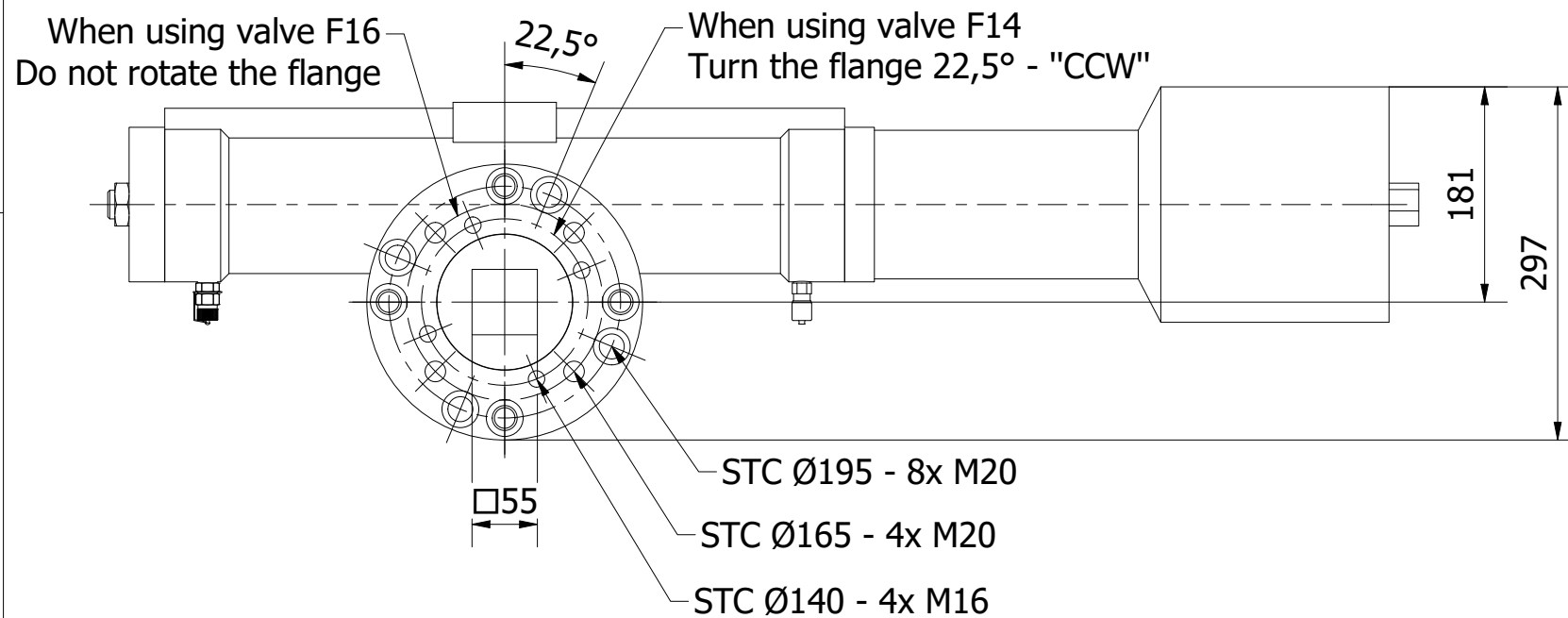
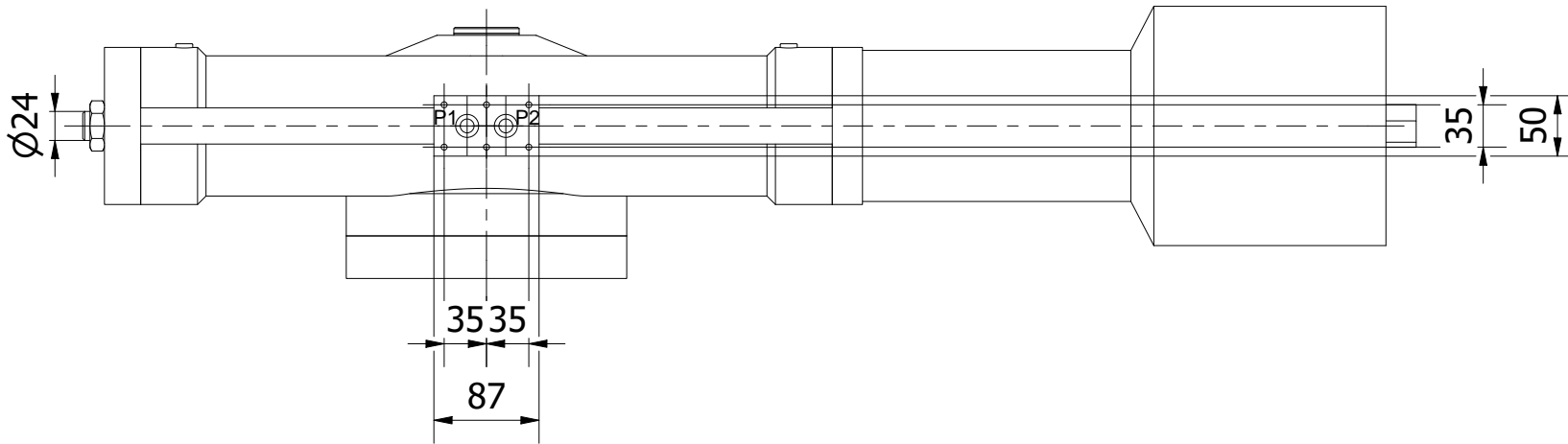
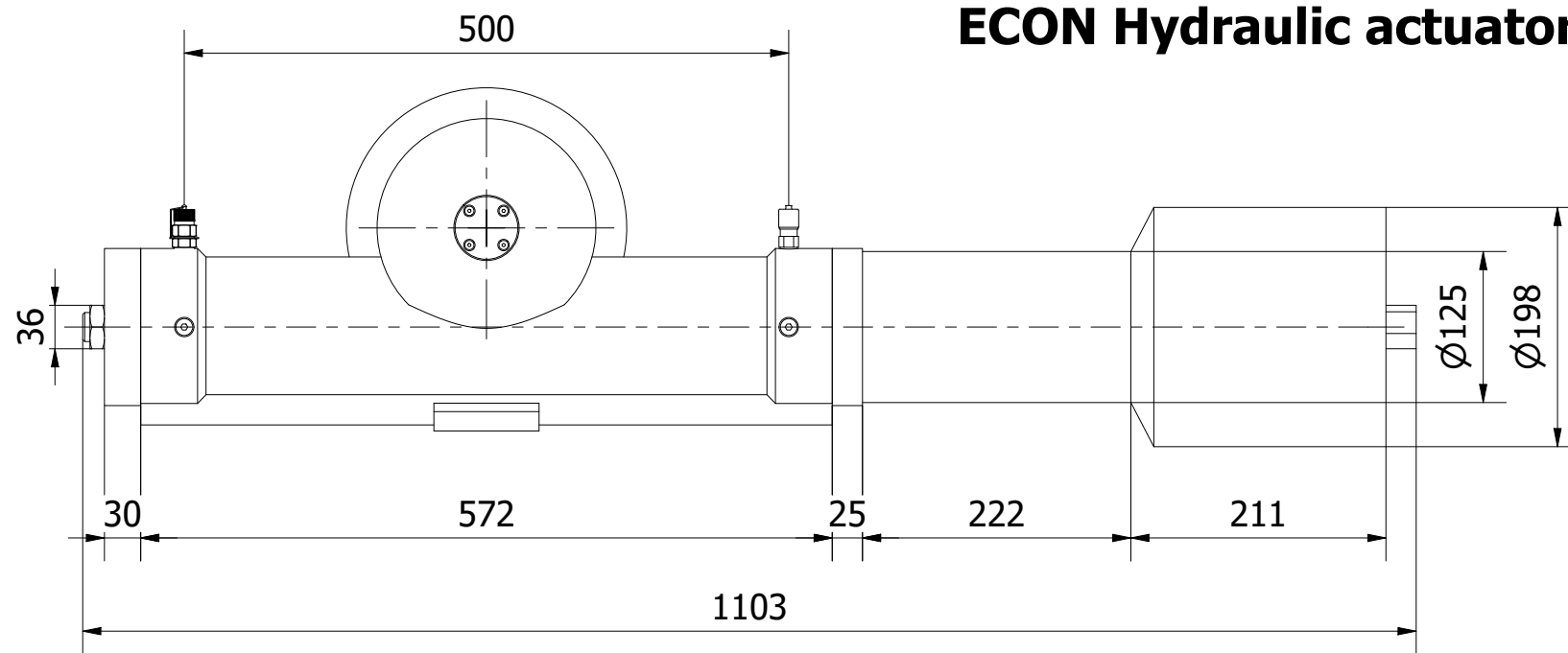
**Technical Data ESR-5:**  
 Design Pressure: 135 bar  
 Gas Spring Closing Torque: 1040 Nm  
 Opening Torque: 1120 Nm at 135 bar  
 90° Opening Torque: 800 Nm at 135 bar  
 Connection: Flange F14 + F16 (DIN-EN-ISO 5211)  
 Insert SQ, maximum size #46mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0.338 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 59 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used. Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup> (cSt.). These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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# ECON Hydraulic actuator, single acting, fig. 21501



**Technical Data ESR-6:**  
 Design Pressure: 135 bar  
 Gas Spring Closing Torque: 2140 Nm  
 Opening Torque: 2315 Nm at 135 bar  
 90° Opening Torque: 1655 Nm at 135 bar  
 Connection: Flange F14 + F16 (DIN-EN-ISO 5211)  
 Insert SQ, maximum size #46mm  
 P1: Open (Rotation counter clockwise seen from above)  
 P2: Close (Spring closed)  
 Rotation Angle: closed 90° +/- 5°, open 92°  
 Oil Displacement at 90°: 0.707 dm<sup>3</sup>  
 Temperature Range: -20°C - +80°C  
 Weight: 116 kg  
 Mineral Oils according to the group HLP DIN 51524/Part 2 and VDMA Sheet 24318 have to be used. Care must be taken to ensure their viscosity is between 15 mm<sup>2</sup>/s (cSt.) and 200 mm<sup>2</sup> (cSt.). These conditions are suitable for oil between HLP16 and HLP46, depending on the temperature.

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