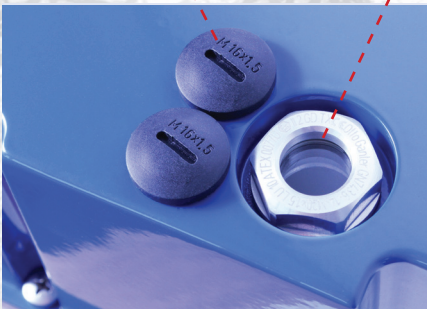


# PSF-M-EX

The explosion-proof linear actuator with manual override

Manual operation of the actuator is also possible in hazardous environment

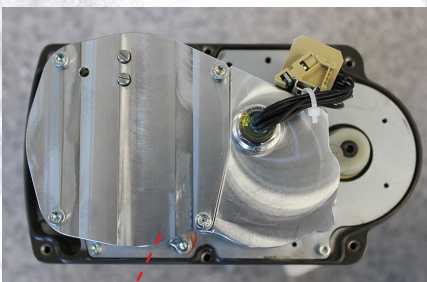


Inspection glass to show LED signals in hazardous environment

Explosion-proof terminals

**Brushless DC motor (BLDC)**  
Controller with integrated positioner function. Status display and automatic commissioning

Contactless, non-wearing travel detection with **Hall sensor** for exact positioning

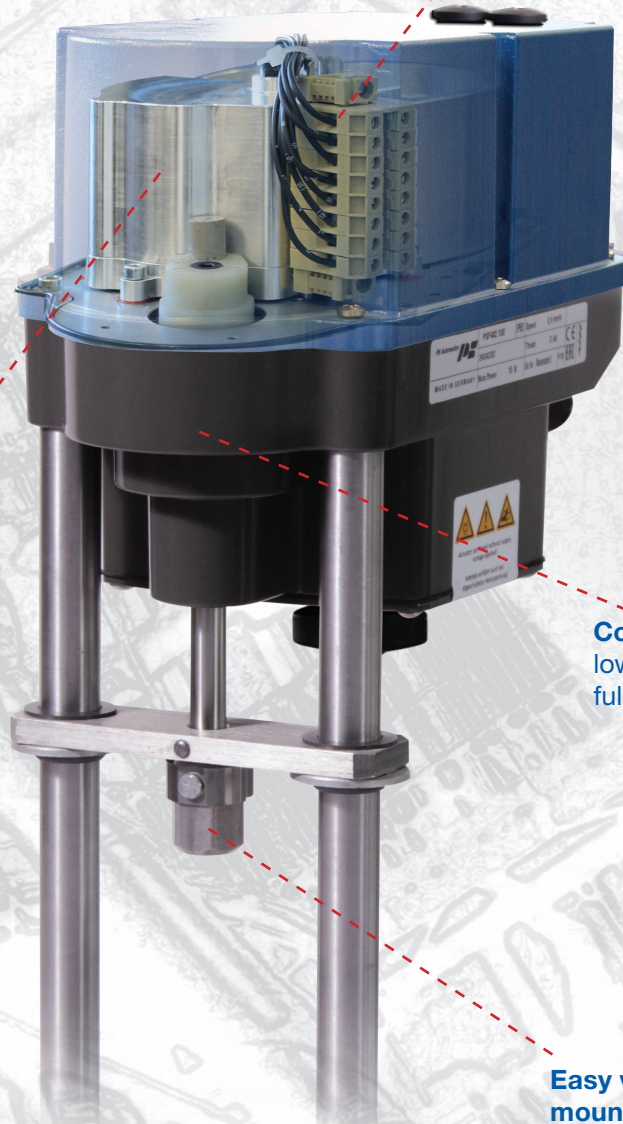


**Pressure-tight casing** for applications in Zone 1, 2, 21, 22

**Compact design** with low installation height, full aluminium housing

**Easy valve mounting**

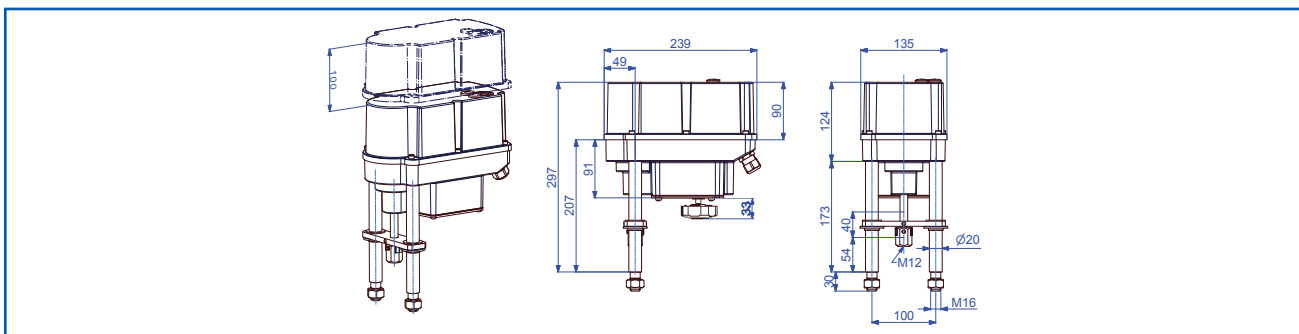
**Manual operation** with handwheel



## Technical Data

|                                 |      | PSF-M401-EX   | PSF-M402-EX | PSF-M405-EX |
|---------------------------------|------|---|-------------|-------------|
| Device category                 |      | II 2G   II 2D   |             |             |
| EU Type Examination Certificate |      | TPS 22 ATEX 110398 0002 X                                 |             |             |
| ATEX directive gases            |      | Ex db eb IIC T6/T4 Gb   Ex h db eb IIC T6/T4 Gb           |             |             |
| ATEX directive dusts            |      | Ex tb IIIC T80°C/T100°C Db   Ex h tb IIIC T80°C/T100°C Db |             |             |
| IECEX CoC                       |      | IECEX TPS 22.0019X  |             |             |
| IECEX directive gases           |      | Ex db eb IIC T6/T4 Gb                                     |             |             |
| IECEX directive dusts           |      | Ex tb IIIC T80°C/T100°C Db                                |             |             |
| Thrust                          | kN   | 1   | 2           | 5           |
| Stroke                          | mm   | max. 40   |             | max. 50     |
| Pillar distance                 | mm   | 100   |             |             |
| Manual override                 |      | electrically via 2 push buttons or handwheel              |             |             |
| Velocity (adjustable)           | mm/s | 0.5 / 0.75 / 1.0  |             |             |
| Power Supply                    |      | 24 VAC/DC, 100 - 240 VAC                                  |             |             |
| Motor protection                |      | Electronic motor current monitoring with safety cut-off   |             |             |
| Duty cycle as per IEC 60034-1,8 |      | S2 30 min / S4 1200c/h - 50% ED                           |             |             |
| Permitted ambient temperature   |      | -10°C ≤ Ta ≤ +40°C (T6) / +60°C (T4)                      |             |             |
| Internal fault monitoring       |      | Thrust, set value, temperature, power supply              |             |             |
| Binary control                  |      | 24 - 230 VAC for ON/OFF service                           |             |             |
| Set value and feedback          |      | 0-20 mA, 4-20 mA, 0-10 V, 2-10 V selectable               |             |             |
| Mounting Position               |      | Any position, except cover pointing downwards             |             |             |
| Conduit entries                 |      | 2 pcs. M 20 x 1.5 / 1 pc. M 16 x 1.5                      |             |             |
| Enclosure acc. to EN 60529      |      | IP65 (IP67 optional)                                      |             |             |
| Cover material                  |      | High quality aluminium die casting, powder-coated         |             |             |
| Gear case material              |      | High quality aluminium die casting, powder-coated         |             |             |
| Pillar material                 |      | Steel 1.4104  |             |             |

## Dimensions



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