

AIR TORQUE

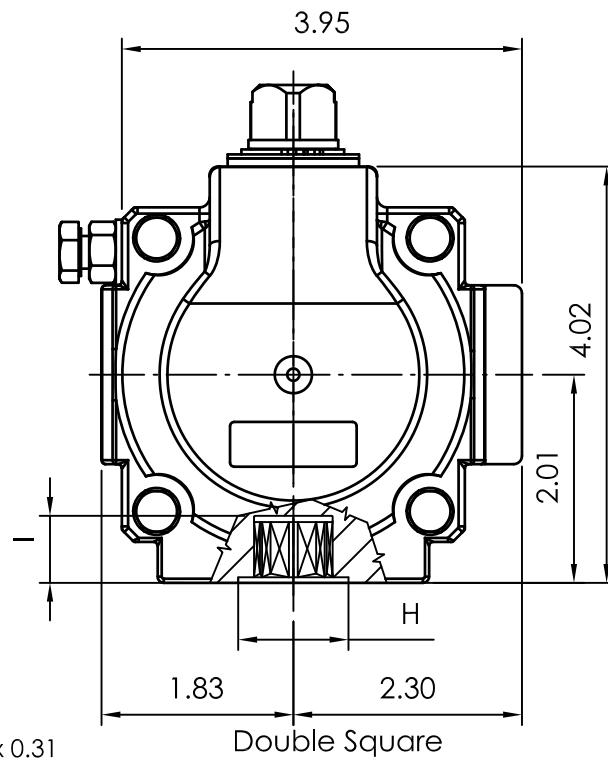
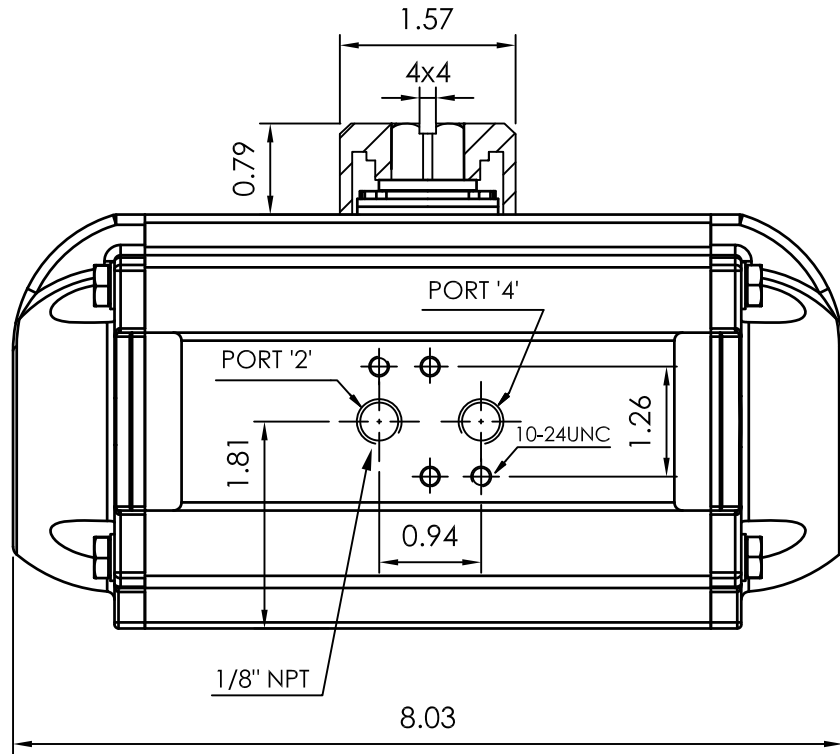
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Technical Data Sheet n° **PT200DU**
 Issued on: 12/04

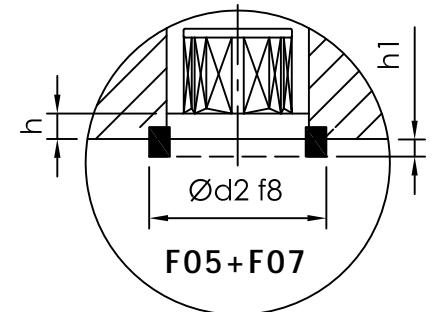
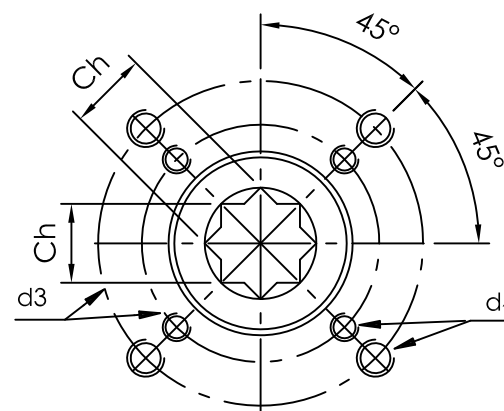
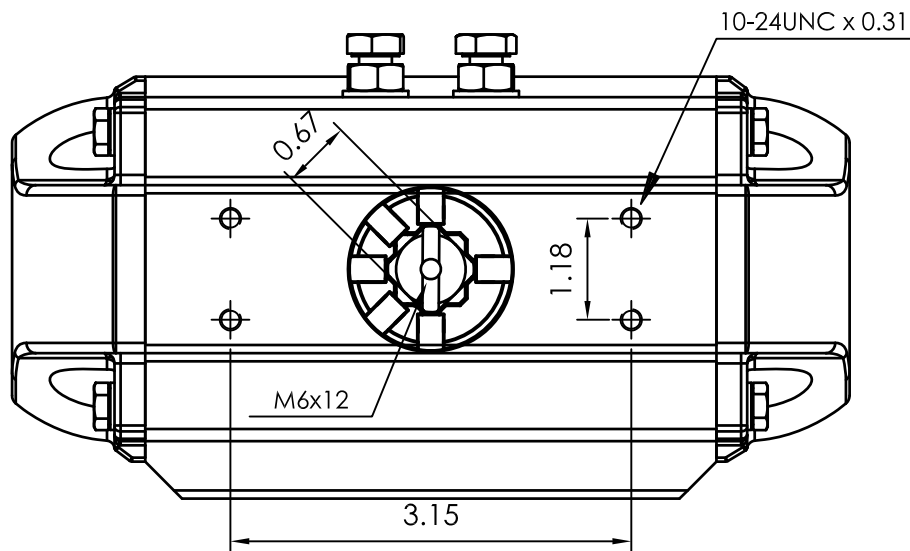
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Model PT200
DA and SR - 90°

Dimensions in inch



| Flange Dimensions | |
|----------------------|---------------------------------------|
| ISO 5211 | F05 + F07 |
| d2 f8 | 1,38 (Only F05) |
| d3 | 1,97 + 2,76 |
| d4 | 1/4-20UNC x 0,35 5/16-18UNC x 0,47 |
| H | 1.38 |
| Ch | 0.67 |
| l min. | 0.63 |
| h min. | 0.06 |
| h1 | 0.08 |
| Pressure connection | N1 |
| Ancillary Attachment | AA1 |



Spigot available only on request

| TYPE | OUTPUT TORQUE FOR DOUBLE ACTING IN INCH-LBS | | | | | | | | WEIGHT (LBS) | | | | | | | | | |
|----------|---|-----|--------|-----|--------|-----|--------|-----|--------------|-----|--------|-----|---------|-----|---------|-----|------|--|
| | 40 Psi | | 50 Psi | | 60 Psi | | 70 Psi | | 80 Psi | | 90 Psi | | 100 Psi | | 116 Psi | | | |
| Pressure | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 6,53 | |
| D | 284.0 | | 355.0 | | 426.0 | | 497.0 | | 568.0 | | 639.0 | | 710.0 | | 824.0 | | | |

| TYPE | OUTPUT TORQUE FOR SPRING RETURN IN INCH-LBS | | | | | | | | | | | | | | Spring stroke | | WEIGHT (LBS) | | |
|----------|---|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|-------|---------------|-------|--------------|-------|------|
| | 40 Psi | | 50 Psi | | 60 Psi | | 70 Psi | | 80 Psi | | 90 Psi | | 100 Psi | | 116 Psi | | | 90° | 0° |
| Pressure | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | Start | End | |
| S 05 | 186.0 | 131.0 | 257.0 | 202.0 | 328.0 | 273.0 | 399.0 | 344.0 | 470.0 | 415.0 | 541.0 | 486.0 | 612.0 | 557.0 | 725.9 | 670.5 | 153.0 | 97.8 | 6.90 |
| S 06 | 167.0 | 100.0 | 238.0 | 171.0 | 309.0 | 242.0 | 380.0 | 313.0 | 451.0 | 384.0 | 522.0 | 455.0 | 593.0 | 526.0 | 706.3 | 639.9 | 184.0 | 117.0 | 6.98 |
| S 07 | 147.0 | 70.0 | 218.0 | 141.0 | 289.0 | 212.0 | 360.0 | 283.0 | 431.0 | 354.0 | 502.0 | 425.0 | 573.0 | 496.0 | 687.0 | 609.0 | 214.0 | 137.0 | 7.05 |
| S 08 | | | 198.0 | 110.0 | 269.0 | 181.0 | 340.0 | 252.0 | 412.0 | 323.0 | 483.0 | 394.0 | 554.0 | 465.0 | 667.0 | 579.0 | 245.0 | 157.0 | 7.13 |
| S 09 | | | 178.9 | 79.3 | 250.0 | 150.0 | 321.0 | 221.0 | 392.0 | 292.0 | 463.0 | 363.0 | 534.0 | 434.0 | 648.0 | 548.0 | 276.0 | 176.0 | 7.20 |
| S 10 | | | | | 230.4 | 119.7 | 301.0 | 191.0 | 372.0 | 262.0 | 443.0 | 333.0 | 514.0 | 404.0 | 628.0 | 517.0 | 306.0 | 196.0 | 7.28 |
| S 11 | | | | | | | 281.8 | 160.1 | 353.0 | 231.0 | 424.0 | 302.0 | 495.0 | 373.0 | 608.0 | 487.0 | 337.0 | 215.0 | 7.35 |
| S 12 | | | | | | | | | 333.3 | 200.4 | 404.3 | 271.4 | 475.0 | 342.0 | 589.0 | 456.0 | 368.0 | 235.0 | 7.43 |

| Max. Pressure | Rotation | Screw stroke Adjustment | Chamber φ (inch) | Air Volume (in³) | | Moving Time (Sec.) (A) | | Operating Temperature (°F) (B) | | |
|---------------|--------------------------|------------------------------|------------------|------------------|---------|------------------------|------------------|--------------------------------|------------------------------|------------------------------------|
| | | | | Opening | Closing | Opening | Closing | STD (standard) | HT (high temperature) | LT (low temperature) |
| 116 Psi | 90° ±4° at 0° and 90° | For 1° adj. need 1/6 Turn | 2,95 | 18,9 | 29,9 | D 0,30 S 0,40 | D 0,35 S 0,50 | NBR "O" ring - 4 to + 176 | FPM "O" ring + 5 to + 300 | Silicone "O" ring - 40 to + 176 |

Notes:

- (A) The above indicated moving time of the actuator, are obtained in the following test conditions:
 (1) Room Temperature, (2) Actuator Stroke 90°, (3) Solenoid Valve with Orifice Of 4 mm and a flow capacity Qn 400 L/min., (4) Inside pipe diameter 8 mm, (5) Medium clean air, (6) Air supply pressure 5,5 bar (79,75 Psi), (7) Actuator without external resistance load. **Cautions: obviously on the field applications when one or more of the above parameter are different, the moving time will be different.**
- (B) For HT (high temperature) and LT (low temperature) services, a special Lubricant is requested. Please contact Air Torque factory.

Operating Medium:

The operating medium must be free of dust and oil. The maximum particle size must not exceed 30µm (ISO 8573 Part1, Class5). In order to prevent water condensation and/or solidification – ice, when actuator work below 0°C (32°F) – the operating medium must have a dew point equal to -20°C (-4°F) or, at least 10°C below the ambient temperature (ISO 8573 Part1, Class3).

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