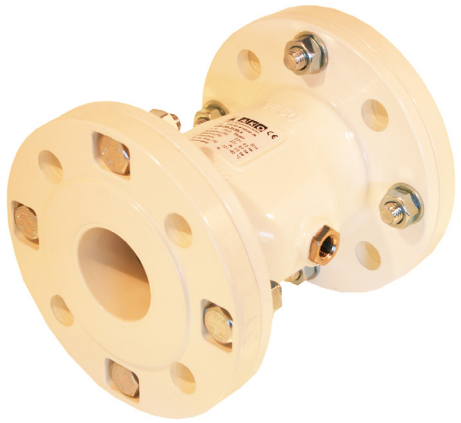
# PNEUMATIC PINCH VALVE

## TYPE 3800

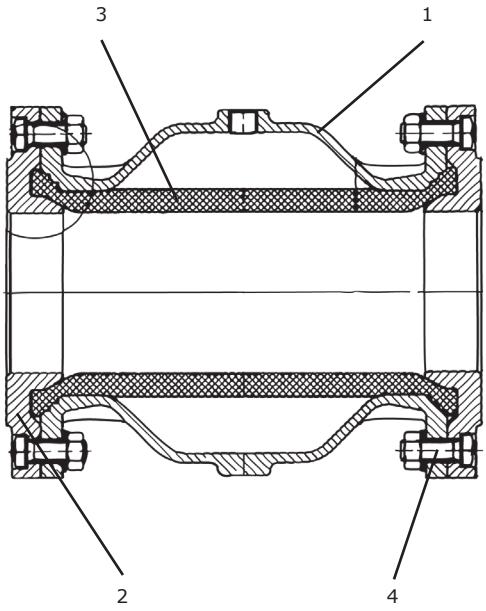


**GENERAL**

| | |
|---|---|
| DIMENSION: | DN40 - DN200 |
| PRESSURE: | PN10 |
| MAX. MEDIA PRESSURE: | 2 - 6 BAR (DEPENDING ON SIZE) |
| CONNECTION: | FLANGES |
| SURFACE: | POWDER COATED MIN. 80µ |
| MATERIAL: | ALUMINUM |

**OPTIONS**

| | |
|---|---|
| DIMENSION: | DN250 - DN300 |
| MATERIAL: | STAINLESS STEEL OR PLASTIC |
| CONNECTION: | THREAD |
| FLANGE MATERIAL: | STAINLESS STEEL OR ALUMINUM WITH BUSHING IN STEEL OR STAINLESS STEEL FLANGE SLEEVE |
| SLEEVE: | VARIOUS MATERIALS (SEE PAGE 2) |
| SERVICE: | MOUNTING PASTE DN 40 - DN 250<br>MOUNTING TOOLS DN 100 - DN 250 |
| APPROVALS: | FDA, EU1935, ATEX, EHEDG |




| POS | DESCRIPTION | MATERIAL |
|---|---|---|
| 1 | BODY | ALUMINUM |
| 2 | FLANGE END | ALUMINUM |
| 3 | SLEEVE | NATURAL RUBBER |
| 4 | BOLT* | ZINK COATED STEEL 8.8 |

* OPTION: STAINLESS STEEL

QUICK EXHAUST

## DESCRIPTION

- **Flexible sleeves** makes this type of valve very suitable for media containing large particles, and media that is abrasive or viscous.
- **Full bore** ensures minimal pressure loss.
- **Can be modified for vacuum**.
- **Easy to maintain,** by replacing the sleeve.
- **Simple construction** ensures high operational reliability and a long service life.
- **Compact design** enables installation where space is limited.
- **Oval body** allows for lower air consumption than for round bodies.
- **If the solenoid valve is not mounted directly on the valve,** it is recommended to use quick exhaust.

DS-3800-UK-08-2023-REV. C
We reserve the right for changes.

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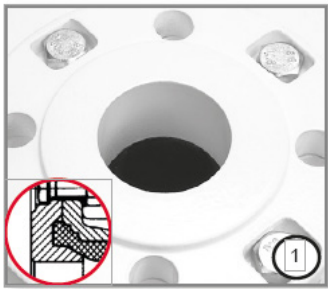
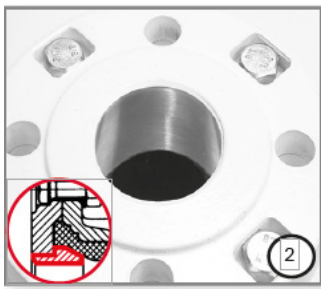
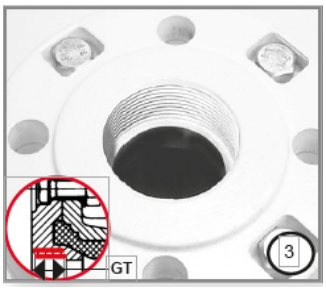
## CONNECTION



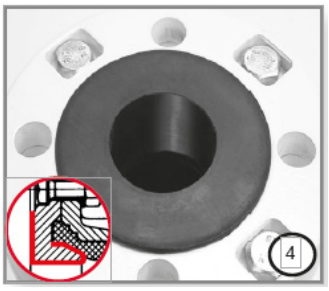

1) Standard aluminum




2) Stainless steel/steel bushing

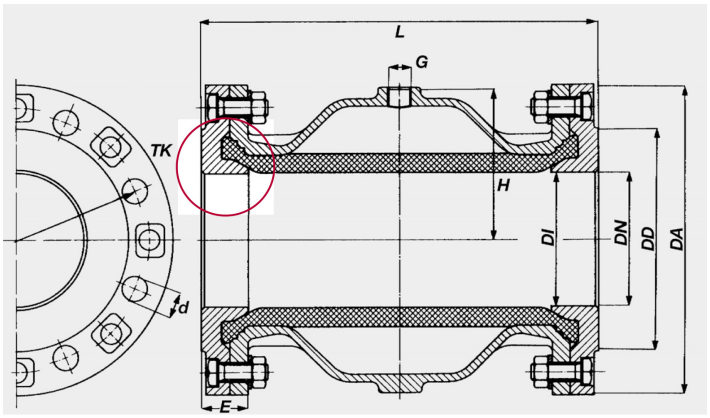



3) Internal thread




4) Flange sleeve

## DIMENSIONS




| DN [MM] | DI [MM] | DA [MM] | DD [MM] | D [MM] | SCREWS [AMOUNT] | TK [MM] | L [MM] | G [INCH] | H [MM] | E [MM] | WEIGHT[1] [KG] | VOLUME[2] [LITERS] | MAX. WORK. PRESSURE [BAR] | INTERNAL THREAD | GT DEPTH [MM] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 40 | 150 | 88 | 18 | 4 | 110 | 155 | G 1/4" | 56 | 28 | 2.9 | 0.20 | 6 | G 1 1/2" | 19 |
| 50 | 50 | 165 | 102 | 18 | 4 | 125 | 183 | G 1/4" | 65 | 30 | 3.7 | 0.30 | 6 | G 2" | 24 |
| 65 | 65 | 185 | 122 | 18 | 4 | 145 | 183 | G 1/4" | 81 | 28 | 4.3 | 0.45 | 6 | G 2 1/2" | 22 |
| 80 | 80 | 200 | 138 | 18 | 8 | 160 | 228 | G 1/4" | 95 | 31 | 5.6 | 0.95 | 6 | G 3" | 22 |
| 100 | 100 | 220 | 158 | 18 | 8 | 180 | 280 | G 1/4" | 112 | 35 | 8.4 | 1.70 | 6 | G 4" | 20 |
| 125 | 118 | 250 | 184 | 18 | 8 | 210 | 348 | G 1/4" | 136 | 40 | 12.0 | 3.50 | 6 | - | - |
| 150 | 145 | 285 | 212 | 22 | 8 | 240 | 418 | G 1/4" | 160 | 43 | 17.0 | 7.00 | 6 | - | - |
| 200 | 190 | 340 | 268 | 22 | 8 | 295 | 558 | G 3/8" | 206 | 60 | 35.0 | 15.50 | 4 | - | - |
| 250 | 250 | 395 | 320 | 22 | 12 | 350 | 680 | G 1/2" | 266 | 67 | 56.0 | 30.00 | 3 | - | - |
| 300 | 300 | 445 | 370 | 22 | 12 | 400 | 820 | G 1/2" | 306 | 70 | 86.0 | 49.00 | 3 | - | - |

[1] Aluminum flanges.
[2] approx. air consumption per activation in liters.

| SLEEVE MATERIALS | | | |
|---|---|---|---|
| MATERIALS | DRY TEMPERATURE [°C] | | DIFFERENTIAL PRESSURE |
| | MAX. | MIN. | [BAR] |
| NEOPRENE | 80 | - 10 | 2.0 |
| NATURAL RUBBER FOOD QUALITY | 80 | - 10 | 2.0 |
| NATURAL RUBBER ANTI-ABRASIVE | 80 | - 10 | 2.0 |
| NATURAL RUBBER HIGH TEMPERATURE | 90 | - 10 | 3.0 |
| EPDM | 120 | - 10 | 2.5 |
| EPDM FOOD - BLACK | 120 | - 10 | 2.5 |
| EPDM FOOD - PALE | 90 / 120* | - 10 | 2.5 |
| FPM | 120 | - 10 | 4.0 |
| SILICONE | 130 | - 10 | 3.0 |
| NBR | 80 | - 10 | 2.0 |
| NBR FOOD - BLACK | 80 | - 10 | 2.0 |
| NBR FOOD - PALE | 80 | - 10 | 2.0 |
| BUTYLE RUBBER | 80 | - 10 | 2.0 |
| HYPALONE | 80 | - 10 | 2.0 |
| **SLEEVE MATERIALS FOR ATEX VALVES** | | | |
| NBR FOOD - PALE | 80 | - 10 | 2.0 |
| BUTYLE RUBBER | 120 | - 10 | 2.5 |
| HYPALONE | 80 | - 10 | 2.0 |

Note: Air supply must be between 2.0 and 2.5 bar greater than media pressure, not exceeding 8 bar.

The a.m. temperatures are guidelines and may vary depending on medium (dry/wet) and application.

* DN40-50 = 120°C, DN65-300 = 90°C