# RICHTER PFA LINEDE KUGLEVENTILER

KUGDN25PFA
PTFE linet kuglehane DN25 Flow 60 m3/t 3-17 bar

- Materiale: Duktilt jern ASTM A395/ EN-JS1049; PFA linet
- Liner: PFA
- Temperatur: -60 °C to +200 °C (-75 °F to +400 °F)
- Flange: ASME B16.10, klasse 150 kolonne 19
- Norminel trykklasse 150



**PRODUKTBESKRIVELSE**

Richter PFA Linede Kugleventiler

BVA PFA

Richters kugleventiler er designet som shut-off ventiler og automatisteret ventiler til farlige og corrosive gasser

Fås i mange størrelser fra 1" helt op til 6" . Liner i PFA.
Membranventilen kan sidde i mange forskellige miljøer fra -60°C helt op til +200°C.
max tryk på ventilen er 16 bar.
Fås både med manuel aktuator og elektronisk styret aktuator.
Kan bestilles med Al2O3 ceramic ball.

Fuld borret i størrelserne 1" og 2" til ASME/ANSI.
Hvilket resultere i et bedre flowrate, minimum tryktab og mere effektiv rensning med pegging system.

I størrelserne 3", 4" og 6" ASME/ANSI er ventilerne halv borret
Har et kompakt design, og bruger mindre torque for et en bedre økonomisk aktuation.

Kontakt vores produktspecialist, for den mest optimale løsning, til netop dit behov
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### Flow rates

| Valve size | $K_v$ | $C_v$ |
|---|---|---|
| BVA (inch) | (m³/h) | (US gpm) |
| 1" | 60 | 70 |
| 1½" | 190 | 221 |
| 2"& 3" | 280 | 326 |
| 4" | 587 | 684 |
| 6" | 1250 | 1456 |
| – | 2800 | 3262 |

Ball Valve see series KN/KNA

### Operating torques PFA-lined ball/stem unit

| | Dp bar (psi) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3 (45) | | 6 (85) | | 10 (145) | | 17.2 (250) | | max. adm. | |
| | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs |
| 6 | 71 | 8 | 71 | 8 | 71 | 10 | 89 | 70 | 620 | |
| 20 | 177 | 20 | 177 | 20 | 177 | 25 | 221 | 225 | 1990 | |
| 25 | 221 | 25 | 221 | 25 | 221 | 30 | 268 | 225 | 1990 | |
| 50 | 443 | 50 | 443 | 62 | 549 | 83 | 735 | 500 | 4425 | |
| 80 | 708 | 80 | 708 | 92 | 814 | 120 | 1062 | 500 | 4425 | |
| 200 | 1770 | 230 | 2036 | 270 | 2390 | 355 | 2788 | 2200 | 19470 | |
| 350 | 3098 | 400 | 3540 | 580 | 5133 | 770 | 6815 | 1200 | 10620 | |

Torques measured with water 20 °C (68 °F). Depending on the medium, e.g. gases or viscous resp. crystallizing liquids, the torques could increase.

### Operating torques $Al_2O_3$ ceramic ball

| | Dp psi (bar) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3 (45) | | 6 (85) | | 10 (145) | | 17.2 (250) | | max. adm. | |
| | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs | Nm | in-lbs |
| 10 | 89 | 10 | 89 | 10 | 89 | 12 | 106 | 32 | 283 | |
| 20 | 177 | 20 | 177 | 20 | 177 | 25 | 221 | 80 | 708 | |
| 25 | 221 | 25 | 221 | 25 | 221 | 30 | 266 | 120 | 1062 | |
| 60 | 531 | 60 | 531 | 72 | 637 | 95 | 841 | 250 | 2215 | |
| 90 | 797 | 130 | 1151 | 150 | 1328 | 200 | 1770 | 350 | 3098 | |
| 350 | 3098 | 400 | 3540 | 580 | 5133 | 770 | 6815 | 1200 | 10620 | |

### Dimensions and weights BVA (ASME/ANSI): face to face ASME/ANSI B16.10 short, flanges ASME (ANSI) B16.5 Cl. 150 **

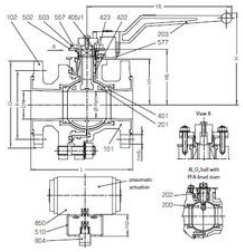
| BVA | | ØPort | | L | | H6 | | H | | D | | k | | n x d | | EN ISO 5211 | H1 | | H5 | | H2 | | Weight* approx. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch | | | mm | inch | mm | inch | mm | inch | kg | lbs |
| 25 | 1" | 24.5 | 0.96 | 127 | 5.0 | 179 | 7.05 | 130 | 5.12 | 108 | 4.25 | 79.5 | 3.125 | 4x15 | 4x½ | F05 | 50 | 1.97 | 60 | 2.36 | 60 | 2.36 | 5 | 11 |
| 40 | 1½" | 38 | 1.496 | 165 | 6.5 | 260 | 10.24 | 155 | 6.1 | 127 | 5.0 | 98.5 | 3.875 | 4x16 | 4x⅝ | F07 | 77 | 3.03 | 94 | 3.70 | 60 | 2.36 | 10.8 | 24 |
| 50 | 2" | 47.5 | 1.87 | 178 | 7.0 | 260 | 10.24 | 155 | 6.1 | 152.5 | 6.0 | 120.5 | 4.75 | 4x19 | 4x¾ | F07 | 80 | 3.15 | 97 | 3.82 | 60 | 2.36 | 13 | 28.5 |
| 80 | 3" | 47.5 | 1.87 | 203 | 8.0 | 260 | 10.24 | 155 | 6.1 | 190.5 | 7.5 | 152.5 | 6.0 | 4x19 | 4x¾ | F07 | 80 | 3.15 | 97 | 3.82 | 60 | 2.36 | 17 | 37.5 |
| 100 | 4" | 78 | 3.07 | 229 | 9.0 | 313 | 12.32 | 185 | 7.28 | 229 | 9.0 | 190.5 | 7.5 | 8x19 | 8x¾ | F10 | 118 | 4.64 | 140 | 5.51 | 80 | 3.15 | 36 | 79 |
| 150 | 6" | 90 | 3.35 | 267 | 10.5 | 313 | 12.32 | 195 | 7.68 | 279.5 | 11.0 | 241.5 | 9.5 | 8x22 | 8x⅞ | F10 | 134 | 5.27 | 156 | 6.14 | 80 | 3.15 | 53 | 117 |

*manually operated, PFA lined ball/stem unit ** on request drilled to: JIS 10K, ISO 7005-2

### Components and materials

| Item | Designation | Material |
|---|---|---|
| 101 | Main body | Ductile iron ASTM A395/ EN-JS1049, PFA lined |
| 102 | Body end piece | Ductile iron ASTM A395/ EN-JS1049, PFA lined |
| 200 | Ball | $Al_2O_3$ |
| 201 | Ball/stem unit | Stainless steel, PFA lined |
| 202 | Stem | Stainless steel, PFA lined |
| 203 | Lever | Stainless steel |
| 401 | Seat rings | PTFE* |
| 405/1 | Thrust ring | Stainless steel |
| 422 | Base ring | Modified PTFE |
| 423 | Packing insert | PTFE |
| 502 | Spring gland follower | Stainless steel |
| 503 | Packing gland follower | Stainless steel |
| 510 | Bracket | Stainless steel |
| 557 | Grounding spring washer | Stainless steel |
| 577 | Lever stop | Stainless steel |
| 804 | Coupling | Stainless steel |
| 850 | Actuator | Customer to specify |
| w/o Nr. | Screws and nuts | Stainless steel |

* Modified PTFE seat rings supplied with $Al_2O_3$ ceramic ball




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