

## RICHTER PFA LINEDE KUGLEVENTILER

KUGDN150PFA

PTFE linet kuglehane DN150 Flow 1250 m<sup>3</sup>/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 Al<sub>2</sub>O<sub>3</sub> 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

| row no. | $\lambda_{\text{eff}}$<br>(m) | $\zeta$<br>(deg) | Dir gap bar |        |          |            |           |      | Dir gap bar |        |          |            |           |      |
|---------|-------------------------------|------------------|-------------|--------|----------|------------|-----------|------|-------------|--------|----------|------------|-----------|------|
|         |                               |                  | 3 (45)      | 6 (90) | 10 (145) | 17.2 (205) | max. adm. |      | 3 (45)      | 6 (90) | 10 (145) | 17.2 (205) | max. adm. |      |
| 1       | 40                            | 10               | non.        | non.   | non.     | non.       | non.      | non. | non.        | non.   | non.     | non.       | non.      | non. |
| 2       | 40                            | 20               | 6           | 75     | 6        | 75         | 6         | 75   | 6           | 75     | 6        | 75         | 6         | 75   |
| 3       | 40                            | 30               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 4       | 40                            | 40               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 5       | 40                            | 50               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 6       | 40                            | 60               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 7       | 40                            | 70               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 8       | 40                            | 80               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 9       | 40                            | 90               | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 10      | 40                            | 100              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 11      | 40                            | 110              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 12      | 40                            | 120              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 13      | 40                            | 130              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 14      | 40                            | 140              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 15      | 40                            | 150              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 16      | 40                            | 160              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 17      | 40                            | 170              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 18      | 40                            | 180              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 19      | 40                            | 190              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 20      | 40                            | 200              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 21      | 40                            | 210              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 22      | 40                            | 220              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 23      | 40                            | 230              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 24      | 40                            | 240              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 25      | 40                            | 250              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 26      | 40                            | 260              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 27      | 40                            | 270              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 28      | 40                            | 280              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 29      | 40                            | 290              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 30      | 40                            | 300              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 31      | 40                            | 310              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 32      | 40                            | 320              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 33      | 40                            | 330              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 34      | 40                            | 340              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 35      | 40                            | 350              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 36      | 40                            | 360              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 37      | 40                            | 370              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 38      | 40                            | 380              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 39      | 40                            | 390              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 40      | 40                            | 400              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 41      | 40                            | 410              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 42      | 40                            | 420              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 43      | 40                            | 430              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 44      | 40                            | 440              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 45      | 40                            | 450              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 46      | 40                            | 460              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 47      | 40                            | 470              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 48      | 40                            | 480              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 49      | 40                            | 490              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 50      | 40                            | 500              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 51      | 40                            | 510              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 52      | 40                            | 520              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 53      | 40                            | 530              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 54      | 40                            | 540              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 55      | 40                            | 550              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 56      | 40                            | 560              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 57      | 40                            | 570              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 58      | 40                            | 580              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 59      | 40                            | 590              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 60      | 40                            | 600              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 61      | 40                            | 610              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 62      | 40                            | 620              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 63      | 40                            | 630              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 64      | 40                            | 640              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 65      | 40                            | 650              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 66      | 40                            | 660              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 67      | 40                            | 670              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 68      | 40                            | 680              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 69      | 40                            | 690              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 70      | 40                            | 700              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 71      | 40                            | 710              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 72      | 40                            | 720              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 73      | 40                            | 730              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 74      | 40                            | 740              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 75      | 40                            | 750              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 76      | 40                            | 760              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 77      | 40                            | 770              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 78      | 40                            | 780              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 79      | 40                            | 790              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 80      | 40                            | 800              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 81      | 40                            | 810              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 82      | 40                            | 820              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 83      | 40                            | 830              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 84      | 40                            | 840              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 85      | 40                            | 850              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 86      | 40                            | 860              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 87      | 40                            | 870              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 88      | 40                            | 880              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 89      | 40                            | 890              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 90      | 40                            | 900              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 91      | 40                            | 910              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 92      | 40                            | 920              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 93      | 40                            | 930              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 94      | 40                            | 940              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 95      | 40                            | 950              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 96      | 40                            | 960              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 97      | 40                            | 970              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 98      | 40                            | 980              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 99      | 40                            | 990              | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |
| 100     | 40                            | 1000             | 10          | 100    | 10       | 100        | 10        | 100  | 10          | 100    | 10       | 100        | 10        | 100  |

#### Operating torques Al<sub>2</sub>O<sub>3</sub> ceramic ball

Face to face ASME/ANSI B16.10 (inset flanges ASME/ANSI B16.5 (C) 150\*\*

[illegible]

\*manually operated, PFA lined ballistics unit. \*\* on request drilled to JIS 10K, ISO 2005-2

### Flow rates

[illegible]Operating torques Al<sub>2</sub>O<sub>3</sub> ceramic ball

Dimensions and weights E/A (ASME/ANSI)

face to face ASME/ANSI B16.10 short, flanges ASME (ANSI) B16.5 Cl. 150\*

[illegible]

\*manually operated, PFA lined ball/sterilizer unit \*\* on request drilled to JIS 10K, ISO 9001-3

### Components and materials

| Item | Description             | Material                                      |
|------|-------------------------|-----------------------------------------------|
| 1001 | Main body               | Double steel B27M A202/<br>CN F51508 P&R band |
| 1010 | Body end piece          | Double steel B27M A202/<br>CN F51508 P&R band |
| 2000 | Bolt                    | A1-7                                          |
| 2001 | Boltnuts unit           | Stainless steel, P&R band                     |
| 2003 | Washers                 | Stainless steel, P&R band                     |
| 2005 | Washer                  | Stainless steel                               |
| 4000 | End ring                | PTFE                                          |
| 4002 | End ring                | Stainless steel                               |
| 4200 | Base ring               | Modified PTFE                                 |
| 4203 | Base ring               | PTFE                                          |
| 5000 | Spring guided follower  | Stainless steel                               |
| 5003 | Packing guided follower | Stainless steel                               |
| 5100 | Bracket                 | Stainless steel                               |
| 5103 | Grounding spring/washer | Stainless steel                               |
| 5107 | Levier stop             | Stainless steel                               |
| 5400 | Coupling                | Stainless steel                               |
| 5403 | As-Builder              | Customer to specify                           |
| 5405 | Screen and nuts         | Stainless steel                               |

