

## → Series 617



### ■ MATERIAL



### ■ SPECIFICATION



3/8" – 2"



– 60°C to + 225°C  
depending on version



0,2 – 20 bar

### ■ SUITABLE FOR

|                        |                         |  |
|------------------------|-------------------------|--|
| Liquids                | neutral and non-neutral |  |
| Air, gases and vapours | neutral and non-neutral |  |
| Steam                  |                         |  |

### ■ EXAMPLES OF USE

For the protection of:

- pumps against overloading in closed circuits for neutral / non-neutral, non-sticking liquids

For the control of:

- systems under pressure for neutral / non-neutral gases and vapours and – depending on the sealing material – also for steam

- pump protection
- test rig construction
- process equipment construction
- shipbuilding industry and marine equipment
- de-icing technology
- mechanical engineering
- industrial applications

### ■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

### Classification society

|                                       |         |
|---------------------------------------|---------|
| Germanischer Lloyd                    | GL      |
| Lloyd's Register EMEA                 | LR EMEA |
| American Bureau of Shipping           | ABS     |
| Bureau Veritas                        | BV      |
| Russian Maritime Register of Shipping | RS      |

### ■ MATERIALS

| Component      | Material        | DIN EN | ASME   |
|----------------|-----------------|--------|--------|
| Inlet body     | Gunmetal        | CC499K | CC499K |
| Outlet body    | Gunmetal        | CC499K | CC499K |
| Internal parts | Brass           | CW617N | CW617N |
| Spring         | Stainless steel | 1.4310 | 302    |

t gastight version of spring housing

for neutral and non-neutral media, not counter pressure compensated.  
The environment is protected from being affected by the medium. Adjustable under operating conditions without medium escaping into the atmosphere.

Valves can be delivered unset within a pressure range or set and sealed at the factory.

## ■ MEDIUM

GF gaseous and liquid

Air, vapours, gases, liquids and - depending on safety valve version and seal - also for steam

## ■ TYPE OF LIFTING MECHANISM

0 without lifting device

## ■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

| Nominal diameter DN |             | 10        | 15        | 20        | 25      | 32          | 40          | 50      |
|---------------------|-------------|-----------|-----------|-----------|---------|-------------|-------------|---------|
| Inlet               |             | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/4" (32) | 1 1/2" (40) | 2" (50) |
| Outlet              | 3/8" (10)   | ■         |           |           |         |             |             |         |
|                     | 1/2" (15)   |           | ■         |           |         |             |             |         |
|                     | 3/4" (20)   |           |           | ■         |         |             |             |         |
|                     | 1" (25)     |           |           |           | ■       |             |             |         |
|                     | 1 1/4" (32) |           |           |           |         | ■           |             |         |
|                     | 1 1/2" (40) |           |           |           |         |             | ■           |         |
|                     |             | 2" (50)   |           |           |         |             |             | ■       |

## ■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

| f / f | Standard | Female thread BSP-P / Female thread BSP-P | DIN EN ISO 228-1 / DIN EN ISO 228-1 |
|-------|----------|-------------------------------------------|-------------------------------------|
|-------|----------|-------------------------------------------|-------------------------------------|

## ■ SEALS

| NBR  | Nitrile rubber (standard) | Elastomere flat seal 0,2 – 12 bar | –30°C to +130°C |
|------|---------------------------|-----------------------------------|-----------------|
| FKM  | Fluorocarbon              | Elastomere flat seal 0,2 – 12 bar | –20°C to +200°C |
| EPDM | Ethylene propylene diene  | Elastomere flat seal 0,2 – 12 bar | –50°C to +150°C |
| PTFE | Polytetrafluoroethylene   | Flat seal 0,5 – 12 bar            | –60°C to +225°C |

If the seat seal is made of PTFE the O-rings of the body and setting spindle seal are made of FPM.

## Against surcharge

| PTFE | Polytetrafluoroethylene | Flat seal 12 – 20 bar | –60°C to +225°C |
|------|-------------------------|-----------------------|-----------------|
|------|-------------------------|-----------------------|-----------------|

## ■ OPTIONS

Fitted with **tamper-proof sealing cap** to avoid manipulation of set pressureOrder code: **S48**

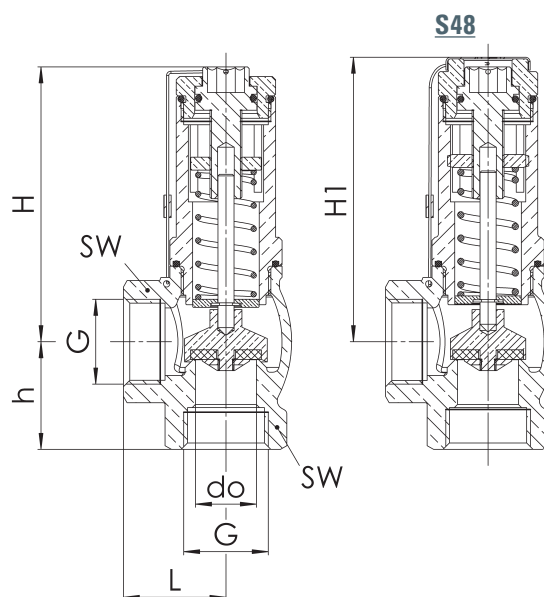
Special versions on request.

## NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

| Series 617: Connection, installation dimensions, ranges of adjustment |      |                      |                      |                      |                      |                      |                      |                      |
|-----------------------------------------------------------------------|------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal diameter                                                      | DN   | 10                   | 15                   | 20                   | 25                   | 32                   | 40                   | 50                   |
| Connection DIN EN ISO 228                                             | G    | 3/8" (10)            | 1/2" (15)            | 3/4" (20)            | 1" (25)              | 1 1/4" (32)          | 1 1/2" (40)          | 2" (50)              |
| Outlet DIN EN ISO 228                                                 | G    | 3/8" (10)            | 1/2" (15)            | 3/4" (20)            | 1" (25)              | 1 1/4" (32)          | 1 1/2" (40)          | 2" (50)              |
| Installation dimensions in mm                                         | L    | 27                   | 30                   | 33                   | 40                   | 45                   | 50                   | 60                   |
|                                                                       | H/H1 | 60/63                | 69/72                | 86/88,5              | 101/104              | 118/121              | 139/141,5            | 149/152              |
|                                                                       | h    | 26                   | 30                   | 35                   | 41                   | 45                   | 51                   | 60                   |
|                                                                       | SW   | 24                   | 28                   | 34                   | 41                   | 52                   | 58                   | 70                   |
|                                                                       | do   | 10                   | 13                   | 19                   | 25                   | 30                   | 38                   | 50                   |
| Weight                                                                | kg   | 0,3                  | 0,4                  | 0,7                  | 1,2                  | 1,9                  | 2,5                  | 3,8                  |
| Set pressure                                                          | bar  | 0,2 - 20             | 0,2 - 20             | 0,2 - 20             | 0,2 - 20             | 0,2 - 20             | 0,2 - 20             | 0,2 - 20             |
| Range of adjustment                                                   | bar  | 0,2 - 0,8            | 0,2 - 0,8            | 0,2 - 0,8            | 0,2 - 0,8            | 0,2 - 0,8            | 0,2 - 0,8            | 0,2 - 0,8            |
|                                                                       |      | 0,5 - 2,5            | 0,5 - 2,5            | 0,5 - 2,5            | 0,5 - 2,5            | 0,5 - 2,5            | 0,5 - 2,5            | 0,5 - 2,5            |
|                                                                       |      | 2 - 8                | 2 - 8                | 2 - 8                | 2 - 8                | 2 - 8                | 2 - 8                | 2 - 8                |
|                                                                       |      | 2 - 12               | 2 - 12               | 2 - 12               | 2 - 12               | 2 - 12               | 2 - 12               | 2 - 12               |
|                                                                       |      | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> | 12 - 20 <sup>1</sup> |

<sup>1</sup>Against surcharge, with PTFE seal

## MAIN DIMENSIONS, INSTALLATION DIMENSIONS



## INDIVIDUAL SELECTION / VALVE CONFIGURATION

| Series | Valve version | Medium | Lifting device | Nominal diameter DN | Connection type |        | Connection size |        | Seal | Options | Pressure range / set pressure | Quantity |
|--------|---------------|--------|----------------|---------------------|-----------------|--------|-----------------|--------|------|---------|-------------------------------|----------|
|        |               |        |                |                     | Inlet           | Outlet | Inlet           | Outlet |      |         |                               |          |
| 617    | t             | GF     | 0              | 15                  | f               | f      | 15              | 15     | NBR  | S48     | 2 - 12                        | 10       |
| 617    | t             | GF     | 0              | 25                  | f               | f      | 25              | 25     | PTFE |         | 16,0                          | 2        |
| 617    | t             | GF     | 0              |                     | f               | f      |                 |        |      |         |                               |          |
| 617    | t             | GF     | 0              |                     | f               | f      |                 |        |      |         |                               |          |

In this table you can configure a valve according to your individual requirements (similar to the *example* shown, which should be deleted before you enter your own data). Please complete the table by hand using the abbreviations in this datasheet and then fax it to: +49(0)7141.4889488  
Please do not forget to add your personal data so that our sales team can contact you.

Name \_\_\_\_\_

First Name \_\_\_\_\_

Company \_\_\_\_\_

Telephone \_\_\_\_\_

E-Mail \_\_\_\_\_

| Series 617: Kv values at 1 bar overpressure |             |         |     |             |         |         |             |       |         |             |     |       |             |         |     |             |         |         |             |       |         |             |      |       |             |         |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
|---------------------------------------------|-------------|---------|-----|-------------|---------|---------|-------------|-------|---------|-------------|-----|-------|-------------|---------|-----|-------------|---------|---------|-------------|-------|---------|-------------|------|-------|-------------|---------|------|-------------|---------|---------|-------------|-------|--|--|--|--|----|--|--|--|--|--|
| Nominal diameter DN                         | 10          |         |     |             |         |         | 15          |       |         |             |     |       | 20          |         |     |             |         |         | 25          |       |         |             |      |       | 32          |         |      |             |         |         | 40          |       |  |  |  |  | 50 |  |  |  |  |  |
|                                             | Air [Nm³/h] |         |     | Air [Nm³/h] |         |         | Air [Nm³/h] |       |         | Air [Nm³/h] |     |       | Air [Nm³/h] |         |     | Air [Nm³/h] |         |         | Air [Nm³/h] |       |         | Air [Nm³/h] |      |       | Air [Nm³/h] |         |      | Air [Nm³/h] |         |         | Air [Nm³/h] |       |  |  |  |  |    |  |  |  |  |  |
|                                             | 0,2-0,8     | 0,5-2,5 | 2-8 | 12-20       | 0,2-0,8 | 0,5-2,5 | 2-8         | 12-20 | 0,2-0,8 | 0,5-2,5     | 2-8 | 12-20 | 0,2-0,8     | 0,5-2,5 | 2-8 | 12-20       | 0,2-0,8 | 0,5-2,5 | 2-8         | 12-20 | 0,2-0,8 | 0,5-2,5     | 2-8  | 12-20 | 0,2-0,8     | 0,5-2,5 | 2-8  | 12-20       | 0,2-0,8 | 0,5-2,5 | 2-8         | 12-20 |  |  |  |  |    |  |  |  |  |  |
| Set pressure bar                            |             |         |     |             |         |         |             |       |         |             |     |       |             |         |     |             |         |         |             |       |         |             |      |       |             |         |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 0,2                                         | 24          |         |     |             | 53      |         |             |       | 177     |             |     |       | 200         |         |     |             | 600     |         |             |       | 930     |             |      |       | 1500        |         |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 0,5                                         | 28          | 83      |     |             | 61      | 147     |             |       | 200     | 209         |     |       | 220         | 375     |     |             | 680     | 717     |             |       | 970     | 847         |      |       | 1620        | 1376    |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 0,8                                         | 32          | 90      |     |             | 67      | 153     |             |       | 220     | 220         |     |       | 245         | 384     |     |             | 700     | 771     |             |       | 1050    | 878         |      |       | 1740        | 1478    |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 1                                           |             | 95      |     |             |         | 158     |             |       |         | 228         |     |       |             | 390     |     |             |         | 808     |             |       |         | 899         |      |       |             | 1546    |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 1,5                                         |             | 101     |     |             |         | 173     |             |       |         | 257         |     |       |             | 433     |     |             |         | 901     |             |       |         | 1033        |      |       |             | 1734    |      |             |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 2                                           |             | 111     | 62  | 48          |         | 180     | 126         | 86    |         | 287         | 180 | 159   |             | 462     | 335 | 302         |         | 977     | 353         | 233   |         | 1104        | 552  | 426   |             | 1904    | 1001 | 788         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 2,5                                         |             | 119     | 68  | 50          |         | 202     | 132         | 89    |         | 306         | 197 | 168   |             | 495     | 351 | 311         |         | 1031    | 361         | 257   |         | 1205        | 564  | 447   |             | 1953    | 1082 | 802         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 3                                           |             |         | 75  | 51          |         |         | 143         | 95    |         |             | 226 | 188   |             |         | 376 | 322         |         |         | 369         | 272   |         |             | 577  | 481   |             |         | 1170 | 821         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 4                                           |             |         | 83  | 62          |         |         | 166         | 101   |         |             | 239 | 213   |             |         | 423 | 341         |         |         | 417         | 311   |         |             | 601  | 527   |             |         | 1339 | 878         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 5                                           |             |         | 95  | 80          |         |         | 169         | 105   |         |             | 233 | 242   |             |         | 466 | 361         |         |         | 459         | 352   |         |             | 726  | 566   |             |         | 1508 | 942         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 6                                           |             |         | 101 | 90          |         |         | 173         | 111   |         |             | 269 | 250   |             |         | 402 | 380         |         |         | 502         | 397   |         |             | 893  | 597   |             |         | 1846 | 994         |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 7                                           |             |         | 106 | 96          |         |         | 150         | 118   |         |             | 303 | 257   |             |         | 398 | 391         |         |         | 549         | 437   |         |             | 994  | 764   |             |         | 2224 | 1050        |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 8                                           |             |         | 112 | 114         |         |         | 139         | 117   |         |             | 324 | 314   |             |         | 391 | 347         |         |         | 606         | 492   |         |             | 1113 | 910   |             |         | 2666 | 1123        |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 9                                           |             |         |     | 115         |         |         |             | 123   |         |             |     | 324   |             |         |     | 301         |         |         |             | 546   |         |             |      | 949   |             |         |      | 1187        |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 10                                          |             |         |     | 122         |         |         |             | 133   |         |             |     | 331   |             |         |     | 288         |         |         |             | 600   |         |             |      | 1023  |             |         |      | 1280        |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 11                                          |             |         |     | 121         |         |         |             | 138   |         |             |     | 339   |             |         |     | 274         |         |         |             | 569   |         |             |      | 1070  |             |         |      | 1358        |         |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 12                                          |             |         | 126 | 96          |         |         | 138         | 112   |         |             | 354 | 221   |             |         | 261 | 305         |         |         | 538         | 594   |         |             |      | 1095  | 682         |         |      | 1480        | 1237    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 13                                          |             |         |     | 109         |         |         |             | 103   |         |             |     | 206   |             |         |     | 291         |         |         |             | 625   |         |             |      | 758   |             |         |      |             | 1277    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 14                                          |             |         |     | 116         |         |         |             | 94    |         |             |     | 166   |             |         |     | 282         |         |         |             | 656   |         |             |      | 834   |             |         |      |             | 1388    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 15                                          |             |         |     | 120         |         |         |             | 85    |         |             |     | 140   |             |         |     | 269         |         |         |             | 687   |         |             |      | 911   |             |         |      |             | 1499    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 16                                          |             |         |     | 122         |         |         |             | 76    |         |             |     | 132   |             |         |     | 257         |         |         |             | 716   |         |             |      | 987   |             |         |      |             | 1609    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 17                                          |             |         |     | 124         |         |         |             | 57    |         |             |     | 115   |             |         |     | 245         |         |         |             | 737   |         |             |      | 954   |             |         |      |             | 1821    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 18                                          |             |         |     | 129         |         |         |             | 56    |         |             |     | 84    |             |         |     | 233         |         |         |             | 758   |         |             |      | 922   |             |         |      |             | 2033    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 19                                          |             |         |     | 134         |         |         |             | 44    |         |             |     | 50    |             |         |     | 220         |         |         |             | 779   |         |             |      | 889   |             |         |      |             | 2245    |         |             |       |  |  |  |  |    |  |  |  |  |  |
| 20                                          |             |         |     | 140         |         |         |             | 36    |         |             |     | 45    |             |         |     | 208         |         |         |             | 801   |         |             |      | 851   |             |         |      |             | 2357    |         |             |       |  |  |  |  |    |  |  |  |  |  |

| Kv values at 1 bar overpressure |              |     |       |              |     |       |              |     |       |              |     |       |              |           |      |              |           |           |              |       |           |           |      |       |      |      |      |      |      |
|---------------------------------|--------------|-----|-------|--------------|-----|-------|--------------|-----|-------|--------------|-----|-------|--------------|-----------|------|--------------|-----------|-----------|--------------|-------|-----------|-----------|------|-------|------|------|------|------|------|
| Nominal diameter DN             | 10           |     |       | 15           |     |       | 20           |     |       | 25           |     |       | 32           |           |      | 40           |           |           | 50           |       |           |           |      |       |      |      |      |      |      |
|                                 | Water [m³/h] |     |       | Water [m³/h] |     |       | Water [m³/h] |     |       | Water [m³/h] |     |       | Water [m³/h] |           |      | Water [m³/h] |           |           | Water [m³/h] |       |           |           |      |       |      |      |      |      |      |
| Pressure range bar              | 0,2 - 0,8    | 2-8 | 12-20 | 0,5 - 2,5    | 2-8 | 12-20 | 0,2 - 0,8    | 2-8 | 12-20 | 0,5 - 2,5    | 2-8 | 12-20 | 0,2 - 0,8    | 0,5 - 2,5 | 2-8  | 12-20        | 0,2 - 0,8 | 0,5 - 2,5 | 2-8          | 12-20 | 0,2 - 0,8 | 0,5 - 2,5 | 2-8  | 12-20 |      |      |      |      |      |
| Set pressure bar                |              |     |       |              |     |       |              |     |       |              |     |       |              |           |      |              |           |           |              |       |           |           |      |       |      |      |      |      |      |
| 0,2                             | 2,7          |     |       |              |     |       | 5,6          |     |       |              |     |       | 6,0          |           |      |              | 18,3      |           |              | 29,0  |           |           | 41,0 |       |      |      |      |      |      |
| 0,5                             | 2,9          | 2,7 |       |              | 4,6 | 4,3   |              | 5,6 | 6,1   |              |     |       | 6,4          | 10,8      |      |              | 19,5      | 16,0      |              | 29,0  | 21,7      |           | 44,4 | 31,6  |      |      |      |      |      |
| 0,8                             | 2,9          | 2,8 |       |              | 4,9 | 4,5   |              | 5,6 | 6,3   |              |     |       | 7,1          | 11,5      |      |              | 20,0      | 16,4      |              | 29,0  | 22,6      |           | 47,0 | 34,0  |      |      |      |      |      |
| 1                               |              | 3,0 |       |              |     | 4,6   |              |     | 6,5   |              |     |       |              | 11,9      |      |              |           | 16,7      |              |       | 23,3      |           |      | 35,6  |      |      |      |      |      |
| 1,5                             |              | 3,2 |       |              |     | 4,8   |              |     | 6,7   |              |     |       |              | 12,6      |      |              |           | 17,5      |              |       | 24,0      |           |      | 37,7  |      |      |      |      |      |
| 2                               |              | 3,4 | 1,9   | 1,6          |     | 5,0   | 2,2          | 1,8 |       | 6,9          | 4,5 | 3,7   |              | 13,0      | 8,5  | 4,2          |           | 18,1      | 7,6          | 6,2   | 25,2      | 10,9      | 8,8  |       | 40,6 | 24,3 | 17,9 |      |      |
| 2,5                             |              | 3,7 | 2,2   | 1,7          |     | 5,2   | 2,1          | 1,8 |       | 7,3          | 4,8 | 3,8   |              | 13,7      | 8,9  | 4,3          |           | 18,9      | 7,5          | 6,2   |           | 26,1      | 11,3 | 9,1   |      | 43,0 | 26,2 | 19,4 |      |
| 3                               |              |     | 2,3   | 1,9          |     |       | 1,9          | 1,8 |       |              | 5,2 | 4,1   |              |           | 9,3  | 4,3          |           |           | 7,4          | 6,1   |           |           | 11,8 | 9,3   |      |      | 28,2 | 21,1 |      |
| 4                               |              |     | 2,7   | 2,2          |     |       | 1,6          | 1,7 |       |              | 5,7 | 4,6   |              |           | 10,0 | 4,5          |           |           | 7,3          | 6,1   |           |           | 12,2 | 9,7   |      |      | 31,3 | 24,7 |      |
| 5                               |              |     | 2,9   | 2,5          |     |       | 1,4          | 1,6 |       |              | 6,5 | 5,1   |              |           | 10,4 | 4,6          |           |           | 7,2          | 6,0   |           |           | 12,5 | 10,3  |      |      | 34,7 | 28,9 |      |
| 6                               |              |     | 3,4   | 2,8          |     |       | 1,3          | 1,5 |       |              | 7,1 | 6,1   |              |           | 11,0 | 4,7          |           |           | 7,0          | 5,9   |           |           | 12,8 | 10,6  |      |      | 36,3 | 30,1 |      |
| 7                               |              |     | 3,6   | 2,9          |     |       | 1,1          | 1,5 |       |              | 7,9 | 6,5   |              |           | 11,2 | 5,0          |           |           | 6,7          | 5,8   |           |           | 13,7 | 11,9  |      |      | 41,1 | 31,7 |      |
| 8                               |              |     | 3,9   | 3,1          |     |       | 1,0          | 1,4 |       |              | 8,5 | 7,1   |              |           | 11,3 | 5,1          |           |           | 6,5          | 5,6   |           |           | 15,1 | 13,1  |      |      | 47,4 | 34,2 |      |
| 9                               |              |     |       | 3,2          |     |       |              | 1,4 |       |              |     | 7,3   |              |           |      | 5,3          |           |           |              | 5,5   |           |           |      | 14,3  |      |      |      | 37,4 |      |
| 10                              |              |     |       | 3,4          |     |       |              | 1,4 |       |              |     | 8,3   |              |           |      | 5,5          |           |           |              | 5,3   |           |           |      | 15,7  |      |      |      | 39,3 |      |
| 11                              |              |     |       | 3,5          |     |       |              | 1,4 |       |              |     | 9,1   |              |           |      | 5,8          |           |           |              | 5,2   |           |           |      | 17,2  |      |      |      | 42,4 |      |
| 12                              |              |     |       | 3,7          | 1,7 |       |              | 1,3 | 0,4   |              |     | 9,3   | 2,8          |           |      | 5,9          | 2,2       |           |              | 5,0   | 6,8       |           |      |       | 17,6 | 10,1 |      | 43,9 | 18,9 |
| 13                              |              |     |       |              | 1,4 |       |              |     | 0,4   |              |     |       | 2,4          |           |      |              | 2,2       |           |              |       | 6,5       |           |      |       |      | 10,3 |      |      | 21,2 |
| 14                              |              |     |       |              | 1,3 |       |              |     | 0,5   |              |     |       | 2,2          |           |      |              | 1,9       |           |              |       | 6,3       |           |      |       |      | 10,5 |      |      | 24,1 |
| 15                              |              |     |       |              | 1,1 |       |              |     | 0,5   |              |     |       | 1,7          |           |      |              | 1,6       |           |              |       | 6,1       |           |      |       |      | 10,6 |      |      | 25,7 |
| 16                              |              |     |       |              | 0,8 |       |              |     | 0,5   |              |     |       | 1,4          |           |      |              | 1,3       |           |              |       | 6,0       |           |      |       |      | 10,9 |      |      | 27,6 |
| 17                              |              |     |       |              | 0,6 |       |              |     | 0,5   |              |     |       | 1,1          |           |      |              | 1,1       |           |              |       | 5,8       |           |      |       |      | 11,0 |      |      | 29,3 |
| 18                              |              |     |       |              | 0,4 |       |              |     | 0,6   |              |     |       | 0,9          |           |      |              | 1,0       |           |              |       | 5,6       |           |      |       |      | 11,3 |      |      | 31,8 |
| 19                              |              |     |       |              | 0,2 |       |              |     | 0,6   |              |     |       | 0,7          |           |      |              | 0,8       |           |              |       | 5,1       |           |      |       |      | 11,4 |      |      | 34,6 |
| 20                              |              |     |       |              | 0,2 |       |              |     | 0,6   |              |     |       | 0,7          |           |      |              | 0,7       |           |              |       | 5,0       |           |      |       |      | 11,5 |      |      | 36,6 |

| Series 617: Kv values at 1 bar overpressure |              |              |     |              |              |              |              |       |              |              |     |       |              |              |     |              |              |              |              |       |              |              |     |       |      |      |      |      |      |     |
|---------------------------------------------|--------------|--------------|-----|--------------|--------------|--------------|--------------|-------|--------------|--------------|-----|-------|--------------|--------------|-----|--------------|--------------|--------------|--------------|-------|--------------|--------------|-----|-------|------|------|------|------|------|-----|
| Nominal<br>diameter<br>DN                   | 10           |              |     | 15           |              |              | 20           |       |              | 25           |     |       | 32           |              |     | 40           |              |              | 50           |       |              |              |     |       |      |      |      |      |      |     |
|                                             | Steam [kg/h] |              |     | Steam [kg/h] |              |              | Steam [kg/h] |       |              | Steam [kg/h] |     |       | Steam [kg/h] |              |     | Steam [kg/h] |              |              | Steam [kg/h] |       |              |              |     |       |      |      |      |      |      |     |
| Pressure<br>range bar                       | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8 | 12-20        | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8          | 12-20 | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8 | 12-20 | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8 | 12-20        | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8          | 12-20 | 0,2 -<br>0,8 | 0,5 -<br>2,5 | 2-8 | 12-20 |      |      |      |      |      |     |
| Set pressure bar                            |              |              |     |              |              |              |              |       |              |              |     |       |              |              |     |              |              |              |              |       |              |              |     |       |      |      |      |      |      |     |
| 0,2                                         | 18           |              |     |              | 41           |              |              |       | 138          |              |     |       | 156          |              |     |              | 468          |              |              |       | 726          |              |     | 1172  |      |      |      |      |      |     |
| 0,5                                         | 22           | 65           |     |              | 47           | 113          |              |       | 156          | 163          |     |       | 172          | 295          |     |              | 531          | 509          |              |       | 757          | 665          |     | 1265  | 1100 |      |      |      |      |     |
| 0,8                                         | 25           | 70           |     |              | 52           | 120          |              |       | 172          | 173          |     |       | 191          | 305          |     |              | 547          | 541          |              |       | 820          | 700          |     | 1359  | 1173 |      |      |      |      |     |
| 1                                           |              | 74           |     |              |              | 125          |              |       |              | 181          |     |       |              | 313          |     |              |              | 553          |              |       |              | 724          |     |       | 1222 |      |      |      |      |     |
| 1,5                                         |              | 81           |     |              |              | 135          |              |       |              | 200          |     |       |              | 345          |     |              |              | 615          |              |       |              | 798          |     |       | 1345 |      |      |      |      |     |
| 2                                           |              | 86           | 53  | 40           |              | 143          | 98           | 73    |              | 221          | 144 | 126   |              | 373          | 280 | 218          |              | 642          | 283          | 194   |              | 862          | 455 | 311   |      | 1451 |      |      |      |     |
| 2,5                                         |              | 93           | 60  | 45           |              | 157          | 104          | 79    |              | 235          | 161 | 141   |              | 384          | 302 | 244          |              | 619          | 301          | 218   |              | 940          | 510 | 349   |      | 1535 | 787  | 663  |      |     |
| 3                                           |              |              | 66  | 43           |              |              | 111          | 80    |              |              | 171 | 156   |              |              | 309 | 258          |              |              | 297          | 223   |              |              | 506 | 387   |      |      | 884  | 698  |      |     |
| 4                                           |              |              | 79  | 53           |              |              | 129          | 79    |              |              | 187 | 160   |              |              | 339 | 308          |              |              | 333          | 244   |              |              | 499 | 428   |      |      | 876  | 670  |      |     |
| 5                                           |              |              | 77  | 66           |              |              | 135          | 82    |              |              | 186 | 176   |              |              | 412 | 322          |              |              | 361          | 283   |              |              | 579 | 455   |      |      | 987  | 740  |      |     |
| 6                                           |              |              | 78  | 75           |              |              | 132          | 88    |              |              | 212 | 200   |              |              | 388 | 326          |              |              | 441          | 323   |              |              | 707 | 518   |      |      | 1145 | 859  |      |     |
| 7                                           |              |              | 84  | 81           |              |              | 118          | 93    |              |              | 225 | 198   |              |              | 275 | 298          |              |              | 429          | 363   |              |              | 740 | 635   |      |      | 1224 | 816  |      |     |
| 8                                           |              |              | 89  | 89           |              |              | 123          | 96    |              |              | 249 | 190   |              |              | 254 | 279          |              |              | 475          | 402   |              |              | 821 | 645   |      |      | 1284 | 916  |      |     |
| 9                                           |              |              |     | 89           |              |              |              | 98    |              |              |     | 193   |              |              |     | 250          |              |              |              | 441   |              |              |     | 707   |      |      |      | 1015 |      |     |
| 10                                          |              |              |     | 97           |              |              |              | 106   |              |              |     | 192   |              |              |     | 273          |              |              |              | 480   |              |              |     | 770   |      |      |      | 1002 |      |     |
| 11                                          |              |              |     | 94           |              |              |              | 106   |              |              |     | 189   |              |              |     | 262          |              |              |              | 472   |              |              |     | 833   |      |      |      | 1090 |      |     |
| 12                                          |              |              |     | 101          | 79           |              |              | 105   | 78           |              |     | 204   | 183          |              |     | 282          | 247          |              |              | 406   | 457          |              |     |       | 814  | 570  |      |      | 1179 | 987 |
| 13                                          |              |              |     |              | 84           |              |              |       | 68           |              |     |       | 174          |              |     |              | 189          |              |              |       | 489          |              |     |       | 610  |      |      |      | 1056 |     |
| 14                                          |              |              |     |              | 90           |              |              |       | 57           |              |     |       | 162          |              |     |              | 201          |              |              |       | 521          |              |     |       | 650  |      |      |      | 1125 |     |
| 15                                          |              |              |     |              | 95           |              |              |       | 54           |              |     |       | 123          |              |     |              | 213          |              |              |       | 552          |              |     |       | 590  |      |      |      | 1022 |     |
| 16                                          |              |              |     |              | 94           |              |              |       | 51           |              |     |       | 130          |              |     |              | 180          |              |              |       | 584          |              |     |       | 728  |      |      |      | 1261 |     |
| 17                                          |              |              |     |              | 99           |              |              |       | 46           |              |     |       | 110          |              |     |              | 142          |              |              |       | 615          |              |     |       | 768  |      |      |      | 1140 |     |
| 18                                          |              |              |     |              | 96           |              |              |       | 32           |              |     |       | 87           |              |     |              | 150          |              |              |       | 576          |              |     |       | 693  |      |      |      | 1399 |     |
| 19                                          |              |              |     |              | 101          |              |              |       | 28           |              |     |       | 61           |              |     |              | 105          |              |              |       | 604          |              |     |       | 606  |      |      |      | 1678 |     |
| 20                                          |              |              |     |              | 105          |              |              |       | 21           |              |     |       | 32           |              |     |              | 165          |              |              |       | 632          |              |     |       | 634  |      |      |      | 1537 |     |