



## PROPORTIONAL SAFETY VALVE zARMAK

### PN16

#### Body material A (EN-GJL-250)

-10°C ÷ +300°C

Flanged connections in accordance with EN 1092-2

Acc. to EN ISO 4126

CE 0343



240

#### Body material H (CuZn39Pb1AlC)

-10°C ÷ +200°C

Threaded connections

Acc. to EN ISO 4126

CE 0343



781

### PN25

#### Body material V (CuZn40Pb2)

-10°C ÷ +120°C

Threaded connections

Acc. to EN ISO 4126

CE 0343



782

### PN40

#### Body material F (GP240GH)

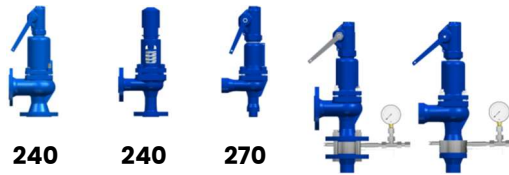
-40°C ÷ +450°C

Flanged connections in accordance with EN 1092-1

Threaded connections for figure 270

Acc. to EN ISO 4126

CE 0343



240

240

270

#### Body material R (GX5CrNi19-10)

-196°C ÷ +300°C

Flanged connections in accordance with EN 1092-1

Threaded connections for figure 270

Acc. to EN ISO 4126

CE 0343



240

270



## Contents

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## Other data

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|                                        |                                                              |    |
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|                                        | Water 20°C [kg/h] in accordance with EN-ISO 4126-7:2013      | 24 |
| <b>781</b><br>Type 01, 02, 05, 07      | Air 20°C [kg/h] in accordance with EN-ISO 4126-7:2013        | 25 |
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# PN16

## 240 Proportional spring flanged safety valves



**240**

Type

01, 02, 05, 07

51, 52, 55, 57

### Application

#### Industries



INDUSTRY



SHIPBUILDING  
INDUSTRY



PETROCHEMICAL  
INDUSTRY



HEATING



REFRIGERATION AND  
AIR CONDITIONING



GAS



POWER ENGINEERING

#### Media



DRINKING WATER



SEWAGE



GLYCOL



INDUSTRY WATER



STEAM



COMPRESSED AIR



NEUTRAL FLUIDS

### Technical data

| Figure       | Type           | Sealing | Ex       | Body material |            | PN         | DN              | Temperature range | Ends                                                                                  |                                                                                       |
|--------------|----------------|---------|----------|---------------|------------|------------|-----------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              |                |         |          |               |            |            |                 |                   | Inlet                                                                                 | Outlet                                                                                |
| 240A C       | 01, 02, 05, 07 | -1      | 2501     | A             | EN-GJL-250 | C<br>16/10 | 15x15 ÷ 200x200 | -10°C ÷ +300°C    |  |  |
|              |                | -2      | 2501.11A |               |            |            | 25x25 ÷ 125x125 | -10°C ÷ +90°C     |                                                                                       |                                                                                       |
|              |                | -3      |          |               |            |            | -10°C ÷ +120°C  |                   |                                                                                       |                                                                                       |
|              | 51, 52, 55, 57 | -1      | -        |               |            |            | 20x20 ÷ 50x50   | -10°C ÷ +300°C    |                                                                                       |                                                                                       |
| 240A C EPOXY | 01, 02         | -1, -3  | -        |               |            |            | 32x32 ÷ 125x125 | -10°C ÷ +80°C     |                                                                                       |                                                                                       |

| End type                                                                                        | Types |                                                                        |  | Sealing        |
|-------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|--|----------------|
|  Flanged end | 01    | Standard type for steam, gases and liquids                             |  | -1 metal-metal |
|                                                                                                 | 02    | Gastight type for steam, gases and liquids                             |  | -2 NBR         |
|                                                                                                 | 05    | Marine type for steam, gases and liquids                               |  | -3 EPDM        |
|                                                                                                 | 07    | Marine gastight type for steam, gases and liquids                      |  |                |
|                                                                                                 | 51    | Standard type, with extended seat, for steam, gases and liquids        |  |                |
|                                                                                                 | 52    | Gastight type, with extended seat, for steam, gases and liquids        |  |                |
|                                                                                                 | 55    | Marine type, with extended seat, for steam, gases and liquids          |  |                |
|                                                                                                 | 57    | Marine gastight type, with extended seat, for steam, gases and liquids |  |                |

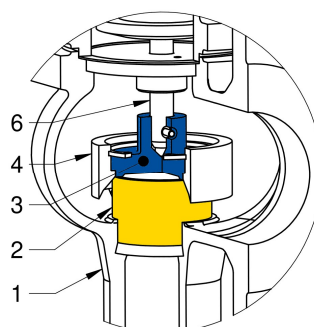
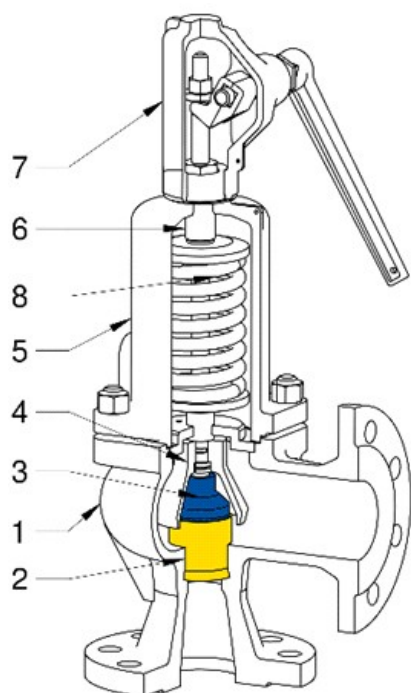
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## Materials



240  
Type 51, 52, 55, 57

| No. | Body material → |                  |            | A                                             |                                                       |
|-----|-----------------|------------------|------------|-----------------------------------------------|-------------------------------------------------------|
|     | Detail ↓        | Type             |            | 240A C                                        | 240A C (EPOXY) **                                     |
| 1   | Body            | 01-07            | -1, -2, -3 | EN-GJL-250<br>5.1301                          | EN-GJL-250 / EPOXY<br>5.1301                          |
|     |                 | 51-57            | -1         | EN-GJL-250<br>5.1301                          | -                                                     |
| 2   | Seat            | 01-07            | -1, -2, -3 | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057  |                                                       |
|     |                 | 51-57            | -1         | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057  | -                                                     |
| 3   | Disc            | 01-07            | -1         | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057  |                                                       |
|     |                 | 51-57            | -1         | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057  | -                                                     |
|     |                 | 01-07            | -2         | X6CrNiTi18-10/NBR<br>1.4541/NBR               | -                                                     |
|     |                 | 01-07            | -3         | X6CrNiTi18-10/EPDM<br>1.4541/EPDM             |                                                       |
| 4   | Bell            | 01-07            | -1, -2, -3 | EN-GJS-400-15 / X20Cr13<br>5.3106 / 1.4021    |                                                       |
|     |                 | 51-57            | -1         | X20Cr13<br>1.4021                             | --                                                    |
| 5   | Bonnet          | 01-07            | -1, -2, -3 | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 | EN-GJL-250 / EN-GJS-400-15 / EPOXY<br>5.1301 / 5.3106 |
|     |                 | 51-57            | -1         | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 | -                                                     |
| 6   | Stem            | 01, 02           | -1, -2, -3 | X20Cr13<br>1.4021                             |                                                       |
|     |                 | 51, 52           | -1         | X20Cr13<br>1.4021                             | -                                                     |
|     |                 | 05, 07<br>55, 57 | -1, -2, -3 | X17CrNi16-2<br>1.4057                         | -                                                     |
| 7   | Cap             | 01-07            | -1, -2, -3 | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 | EN-GJL-250 / EN-GJS-400-15 / EPOXY<br>5.1301 / 5.3106 |
|     |                 | 51-57            | -1         | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 | -                                                     |
| 8   | Spring          | 01-07            | -1, -2, -3 | 51CrV4 / FDSiCr *                             |                                                       |
|     |                 | 51-57            | -1, -2, -3 | 1.8159 / -                                    |                                                       |

\* Springs with wire diameter  $\Phi 6$ , of patented wire, max. operating temperature then is 250°C (details in the table: Pressure ranges)

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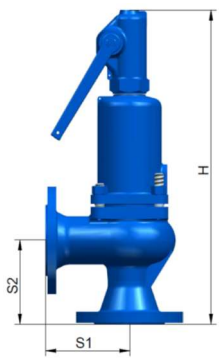
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## Dimensions

| Body material:<br><b>A</b> |                | d <sub>1</sub> x d <sub>2</sub> |       |       |       |       |       |       |       |         |         |         |         |
|----------------------------|----------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
|                            |                | 240                             |       |       |       |       |       |       |       |         |         |         |         |
|                            |                | 15x15                           | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| d <sub>0</sub> (mm)        | 01-07          | 12                              | 12    | 16    | 20    | 25    | 32    | 40    | 50    | 63      | 77      | 93      | 110     |
|                            | 51-57          | 12                              | 12    | 16    | 20    | 25    | 32    | -     |       |         |         |         |         |
| A (mm <sup>2</sup> )       | 01-07          | 113                             | 113   | 201   | 314   | 491   | 804   | 1257  | 1964  | 3117    | 4657    | 6793    | 9503    |
|                            | 51-57          | 113                             | 113   | 201   | 314   | 491   | 804   | -     |       |         |         |         |         |
| S <sub>1</sub> (mm)        | 01-07<br>51-57 | 90                              | 95    | 100   | 105   | 115   | 125   | 145   | 155   | 175     | 200     | 225     | 225     |
| S <sub>2</sub> (mm)        |                | 90                              | 95    | 100   | 105   | 115   | 125   | 145   | 155   | 175     | 200     | 225     | 250     |
| H (mm)                     |                | 330                             | 335   | 350   | 390   | 420   | 485   | 540   | 655   | 705     | 810     | 850     | 980     |



## Set pressure

| Body material:<br><b>A</b> |                |        | 15x15 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|----------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| P <sub>min</sub><br>(bar)  | 01, 02, 05, 07 | -1     | 0,45  |       |       |       |       |       |       |       |         |         |         |         |
|                            | 01, 02, 05, 07 | -2, -3 | 1     |       |       |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | -1     | 0,45  |       |       |       |       |       |       |       |         |         |         |         |
| P <sub>max</sub><br>(bar)  | 01, 02, 05, 07 | -1     | 16    |       |       |       |       |       |       |       |         |         |         |         |
|                            | 01, 02, 05, 07 | -2, -3 | 16    |       |       |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | -1     | 16    |       |       |       |       |       |       |       |         |         |         |         |

## Flange drilling

| Body material:<br><b>A</b> |                | 15x15    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|----------------------------|----------------|----------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| Inlet                      | Standard       | PN16     |       |       |       |       |       |       |       |         |         |         |         |
|                            | Optional PN*   | PN10     |       |       |       |       |       |       |       |         |         |         |         |
|                            | Optional ANSI* | Class150 |       |       |       |       |       |       |       |         |         |         |         |
| Outlet                     | Standard       | PN10     |       |       |       |       |       |       |       |         |         |         |         |
|                            | Optional PN    | PN16     |       |       |       |       |       |       |       |         |         |         |         |
|                            | Optional ANSI  | Class150 |       |       |       |       |       |       |       |         |         |         |         |

\* After agreement with the manufacturer, if the setting pressure allows

\*\* Possibility of Type except for the flange thickness (thickness as for the standard flange according to EN-1092-2)

Standard and optional PN flanges drilled acc. EN 1092-2. .

## Discharge coefficients

| Body material:<br><b>A</b> |                |                                            | Steam and gases (S/G)                 |       |       |       |       |       |       |       |         |         |         |         |
|----------------------------|----------------|--------------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
|                            |                |                                            | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |       |       |       |         |         |         |         |
| Figure                     | Type           | Overpressure                               | 15x15                                 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| 240A C                     | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,25                                  |       |       |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,4                                   |       |       |       |       |       |       |       |         |         |         |         |

| Body material:<br><b>A</b> |                |                                            | Liquids (L)                           |       |       |       |       |       |       |       |         |         |         |         |
|----------------------------|----------------|--------------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
|                            |                |                                            | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |       |       |       |         |         |         |         |
| Figure                     | Type           | Overpressure                               | 15x15                                 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| 240A C                     | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,25                                  |       |       |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,3                                   |       |       |       |       |       |       |       |         |         |         |         |

## Pressure-temperature ratings

|            | PN     | -10°C | RT | 50°C | 100°C | 150°C | 200°C | 250°C | 300°C |
|------------|--------|-------|----|------|-------|-------|-------|-------|-------|
| EN-GJL-250 | 16 bar | 16    | 16 | 16   | 16    | 14,4  | 12,8  | 11,2  | 9,6   |

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## 781 Proportional spring safety valves with threaded ends



**781**

Type  
01 - 08

### Application

#### Industries



INDUSTRY



SHIPBUILDING  
INDUSTRY



HEATING



REFRIGERATION AND  
AIR CONDITIONING



POWER ENGINEERING



GAS



PETROCHEMICAL  
INDUSTRY

#### Media



DRINKING WATER



GLYCOL



INDUSTRY WATER



STEAM



COMPRESSED AIR



NEUTRAL FLUIDS

### Technical data

| Figure | Type           | Sealing | Ex       | Body material |              | PN         | DN            | Temperature range | Ends                                                                                  |                                                                                       |
|--------|----------------|---------|----------|---------------|--------------|------------|---------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        |                |         |          |               |              |            |               |                   | Inlet                                                                                 | Outlet                                                                                |
| 781    | 01, 02, 05, 07 | -1      | 781      | H             | CuZn39Pb1AlC | C<br>16/10 | 10x15 ÷ 25x25 | -10°C ÷ +200°C    |  |  |
|        |                | -2      | 781.11A  |               |              |            |               | -10°C ÷ +90°C     |                                                                                       |                                                                                       |
|        |                | -3      | 781.11A  |               |              |            |               | -10°C ÷ +120°C    |                                                                                       |                                                                                       |
|        | 03, 04, 06, 08 | -1      | 781C     |               |              |            | 20x20 ÷ 25x25 | -10°C ÷ +200°C    |                                                                                       |                                                                                       |
|        |                | -2      | 781C.11A |               |              |            |               | -10°C ÷ +90°C     |                                                                                       |                                                                                       |
|        |                | -3      | 781C.11A |               |              |            |               | -10°C ÷ +120°C    |                                                                                       |                                                                                       |

| End type                                                                                          | Types |                                                     | Sealing        |
|---------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------|----------------|
|  Threaded ends | 01    | Standard type for steam, gases and liquids          | -1 metal-metal |
|                                                                                                   | 02    | Gastight type for steam, gases and liquids          | -2 NBR         |
|                                                                                                   | 03    | Type with reduced lift for liquids                  | -3 EPDM        |
|                                                                                                   | 04    | Type with reduced lift, gastight for liquids        |                |
|                                                                                                   | 05    | Marine type for steam, gases and liquids            |                |
|                                                                                                   | 06    | Marine type with reduced lift for liquids           |                |
|                                                                                                   | 07    | Marine gastight type for steam, gases and liquids   |                |
|                                                                                                   | 08    | Marine type with reduced lift, gastight for liquids |                |

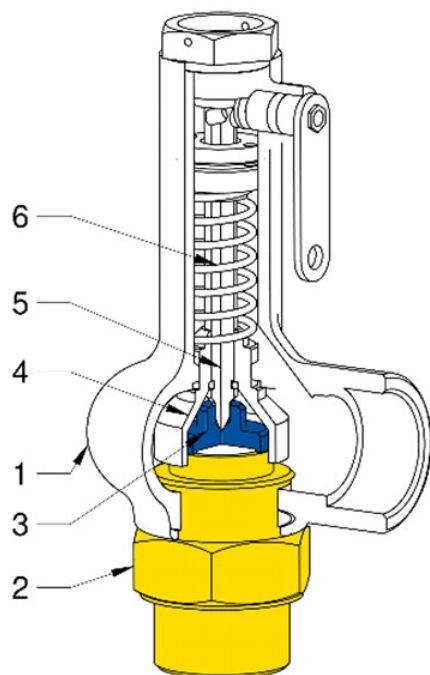
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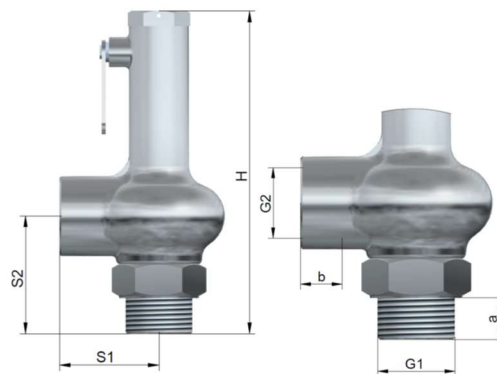
## Materials



| No. | Body material → |       |            | H                                  |
|-----|-----------------|-------|------------|------------------------------------|
|     | Detail ↓        | Type  |            | 781H C                             |
| 1   | Body            | 01-08 | -1, -2, -3 | CuZn39Pb1AlC (niklowany)<br>CC754S |
| 2   | Nozzle          | 01-08 | -1, -2, -3 | X39CrMo17-1<br>1.4122              |
| 3   | Disc            | 01-08 | -1         | X39CrMo17-1<br>1.4122              |
|     |                 |       | -2         | X39CrMo17-1/NBR<br>1.4122/NBR      |
|     |                 |       | -3         | X39CrMo17-1/EPDM<br>1.4122/EPDM    |
| 4   | Bell            | 01-04 | -1, -2, -3 | CuZn40Pb2<br>5.3106                |
| 5   | Stem            | 01-04 | -1, -2, -3 | X20Cr13<br>1.4021                  |
| 6   | Spring          | 01-08 | -1, -2, -3 | 51CrV4 / FDSiCr<br>1.8159 / -      |

## Dimensions

| Body material:<br>H  |       | d <sub>1</sub> x d <sub>2</sub> |       |       |       |
|----------------------|-------|---------------------------------|-------|-------|-------|
|                      |       | 781                             |       |       |       |
|                      |       | 10x15                           | 15x15 | 20x20 | 25x25 |
| d <sub>o</sub> (mm)  | 01-08 | 10                              | 12    | 16    | 20    |
| A (mm <sup>2</sup> ) |       | 78,5                            | 113   | 201   | 314   |
| G <sub>1</sub> (cal) |       | 3/8                             | 1/2   | 3/4   | 1     |
| a (mm)               |       | 12                              | 13    | 15    | 18    |
| G <sub>2</sub> (cal) |       | 1/2                             | 1/2   | 3/4   | 1     |
| b (mm)               |       | 9                               | 9     | 13    | 14    |
| S <sub>1</sub> (mm)  |       | 35                              | 35    | 40    | 50    |
| S <sub>2</sub> (mm)  |       | 41                              | 44    | 52    | 59    |
| H (mm)               |       | 144                             | 147   | 155   | 162   |



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## Set pressure

| Body material:<br>H    |       |    | 10x15 | 15x15 | 20x20 | 25x25 |
|------------------------|-------|----|-------|-------|-------|-------|
| P <sub>min</sub> (bar) | 01-08 | -1 | 0,3   |       |       |       |
|                        | 01-08 | -2 | 1     |       |       |       |
|                        | 01-08 | -3 |       |       |       |       |
| P <sub>max</sub> (bar) | 01-08 | -1 | 16    |       |       | 10    |
|                        | 01-08 | -2 |       |       |       |       |
|                        | 01-08 | -3 |       |       |       |       |

## Discharge coefficients

| Body material:<br>H |                |                               | Steam and gases (S/G)                 |       |       |       |
|---------------------|----------------|-------------------------------|---------------------------------------|-------|-------|-------|
|                     |                |                               | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |
| Figure              | Type           | Overpressure                  | 10x15                                 | 15x15 | 20x20 | 25x25 |
| 781H C              | 01, 02, 05, 07 | 0,1 bar for 0,3 ≤ p < 0,5 bar | 0,19                                  |       |       |       |
|                     |                | 0,1 bar for 0,5 ≤ p ≤ 1 bar   | 0,20                                  |       |       |       |
|                     |                | 10% for 1 < p < 1,5 bar       |                                       |       |       |       |
|                     |                | 10% for p ≥ 1,5 bar           | 0,25                                  |       |       |       |

| Body material:<br>H |                |                                            | Liquids (L)                           |       |       |       |
|---------------------|----------------|--------------------------------------------|---------------------------------------|-------|-------|-------|
|                     |                |                                            | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |
| Figure              | Type           | Overpressure                               | 10x15                                 | 15x15 | 20x20 | 25x25 |
| 781H C              | 01, 02, 05, 07 | bar for p ≤ 1 bar<br>10% for p > 1 bar     | 0,01                                  |       |       |       |
|                     | 03, 04, 06, 08 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar |                                       |       | 0,20  | 0,23  |

## Pressure-temperature ratings

|              | PN |     | -10°C | RT | 50°C | 100°C | 150°C | 200°C |
|--------------|----|-----|-------|----|------|-------|-------|-------|
| CuZn39Pb1AlC | 16 | bar | 16    | 16 | 16   | 16    | 16    | 13,5  |

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# PN25

## 782 Free- release spring safety valves



**782**  
Type  
01

### Application

#### Industries



REFRIGERATION AND  
AIR CONDITIONING

#### Media



COMPRESSED AIR



NEUTRAL FLUIDS

### Technical data

| Figure                                                                                            | Type | Sealing | Ex                                | Body material |           | PN | DN      | Temperature range | Ends                                                                                  |        |
|---------------------------------------------------------------------------------------------------|------|---------|-----------------------------------|---------------|-----------|----|---------|-------------------|---------------------------------------------------------------------------------------|--------|
|                                                                                                   |      |         |                                   |               |           |    |         |                   | Inlet                                                                                 | Outlet |
| 782                                                                                               | 01   | -1      | 782                               | V             | CuZn40Pb2 | D  | 10 ÷ 25 | -10°C ÷ +120°C    |  | -      |
| End type                                                                                          |      | Types   |                                   |               |           |    |         |                   | Sealing                                                                               |        |
|  Threaded ends |      | 01      | Standard type for steam and gases |               |           |    |         |                   | -1                                                                                    | EPDM   |

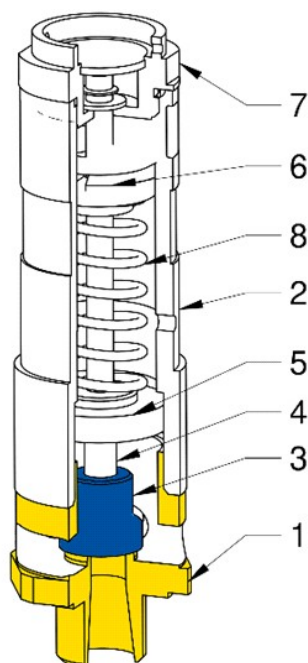
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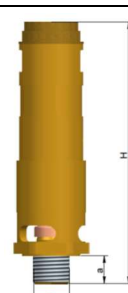
## Materials



| No. | Body material →      |      | V  |                              |
|-----|----------------------|------|----|------------------------------|
|     | Detail ↓             | Type |    | 782V D                       |
| 1   | Nozzle               | 01   | -1 | CuZn40Pb2<br>2.402           |
| 2   | Bonnet               |      |    | CuZn40Pb2<br>2.402           |
| 3   | Disc                 |      |    | CuZn40Pb2/EPDM<br>2.402/EPDM |
| 4   | Stem                 |      |    | CuZn40Pb2<br>2.402           |
| 5   | Spring plate         |      |    | CuZn40Pb2<br>2.402           |
| 6   | Adjusting screw plug |      |    | CuZn40Pb2<br>2.402           |
| 7   | Upper screw plug     |      |    | CuZn40Pb2<br>2.402           |
| 6   | Spring               |      |    | SL, SM, SH<br>DM, DH         |

## Dimensions

| Body material:<br>V  |    | d <sub>i</sub> |     |     |     |
|----------------------|----|----------------|-----|-----|-----|
|                      |    | 782            |     |     |     |
|                      |    | 10             | 15  | 20  | 25  |
| d <sub>o</sub> (mm)  | 01 | 10             | 12  | 16  | 20  |
| A (mm <sup>2</sup> ) |    | 78,5           | 113 | 201 | 314 |
| G (cal)              |    | 3/8            | 1/2 | 3/4 | 1   |
| a (mm)               |    | 13             | 13  | 15  | 17  |
| H (mm)               |    | 120            | 120 | 122 | 128 |



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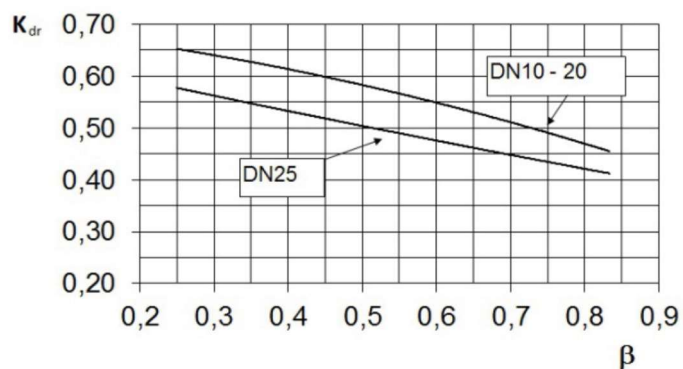
## Set pressure

| Body material:<br><b>V</b> |    |    | 10  | 15 | 20  | 25 |
|----------------------------|----|----|-----|----|-----|----|
| $P_{min}$ (bar)            | 01 | -1 | 1,1 |    | 0,7 |    |
| $P_{max}$ (bar)            |    |    | 25  | 22 | 20  | 16 |

## Discharge coefficients

| Body material:<br><b>V</b> |      |                                                   | Steam and gases (S/G)   |    |    |       |
|----------------------------|------|---------------------------------------------------|-------------------------|----|----|-------|
|                            |      |                                                   | DN ( $d_1 \times d_2$ ) |    |    |       |
| Figure                     | Type | Overpressure                                      | 10                      | 15 | 20 | 25    |
| 782V D                     | 01   | 0,1 bar for $p \leq 1$ bar<br>10% for $p > 1$ bar | 0,65*                   |    |    | 0,57* |

\* The given values concern  $\beta < 0,25$ . For the values  $\beta \geq 0,25$  the discharge coefficient should be read from the following graph.



# PN40

## 240 Proportional spring flanged safety valves



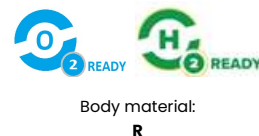
**240**  
Type  
01, 02, 05, 07  
51, 52, 55, 57



**240**  
Type  
01  
51, 52



**240**  
Type  
01  
51, 52



### Application

#### Industries



INDUSTRY



SHIPBUILDING  
INDUSTRY



PETROCHEMICAL  
INDUSTRY



HEATING



REFRIGERATION AND  
AIR CONDITIONING



GAS



POWER ENGINEERING

#### Media



DRINKING WATER



SEWAGE



GLYCOL



INDUSTRY WATER



STEAM



COMPRESSED AIR



NEUTRAL FLUIDS

### Technical data

| Figure | Type           | Sealing | Ex       | Body material |              | PN         | DN              | Temperature range | Ends                                                                                  |                                                                                       |
|--------|----------------|---------|----------|---------------|--------------|------------|-----------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        |                |         |          |               |              |            |                 |                   | Inlet                                                                                 | Outlet                                                                                |
| 240F E | 01, 02, 05, 07 | -1      | 2502     | F             | GP240GH      | E<br>40/10 | 20x20 ÷ 200x200 | -40°C ÷ +450°C*   |  |  |
|        |                | -2      | 2502.11A |               |              |            | 25x25 ÷ 125x125 | -40°C ÷ +90°C     |                                                                                       |                                                                                       |
|        |                | -3      | 2502.11A |               |              |            |                 | -40°C ÷ +120°C    |                                                                                       |                                                                                       |
|        | 51, 52, 55, 57 | -1      | -        |               |              |            | 20x20 ÷ 50x50   | -40°C ÷ +400°C    |                                                                                       |                                                                                       |
| 240R E | 01, 02         | -1      | 2502CrNi | R             | GX5CrNi19-10 |            | 20x20 ÷ 100x100 | -196°C ÷ +300°C** |                                                                                       |                                                                                       |
|        | 51, 52         | -1      | -        |               |              |            | 20x20 ÷ 50x50   |                   |                                                                                       |                                                                                       |

\* For the type with a closed Bonnet, max. the temperature is 400°C

\*\* For oxygen valves, the maximum operating temperature is +200°C

| End type                                                                                        | Types                                                                     | Sealing        |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------|
|  Flanged end | 01 Standard type for steam, gases and liquids                             | -1 metal-metal |
|                                                                                                 | 02 Gastight type for steam, gases and liquids                             | -2 NBR         |
|                                                                                                 | 05 Marine type for steam, gases and liquids                               | -3 EPDM        |
|                                                                                                 | 07 Marine gastight type for steam, gases and liquids                      |                |
|                                                                                                 | 51 Standard type, with extended seat, for steam, gases and liquids        |                |
|                                                                                                 | 52 Gastight type, with extended seat, for steam, gases and liquids        |                |
|                                                                                                 | 55 Marine type, with extended seat, for steam, gases and liquids          |                |
|                                                                                                 | 57 Marine gastight type, with extended seat, for steam, gases and liquids |                |

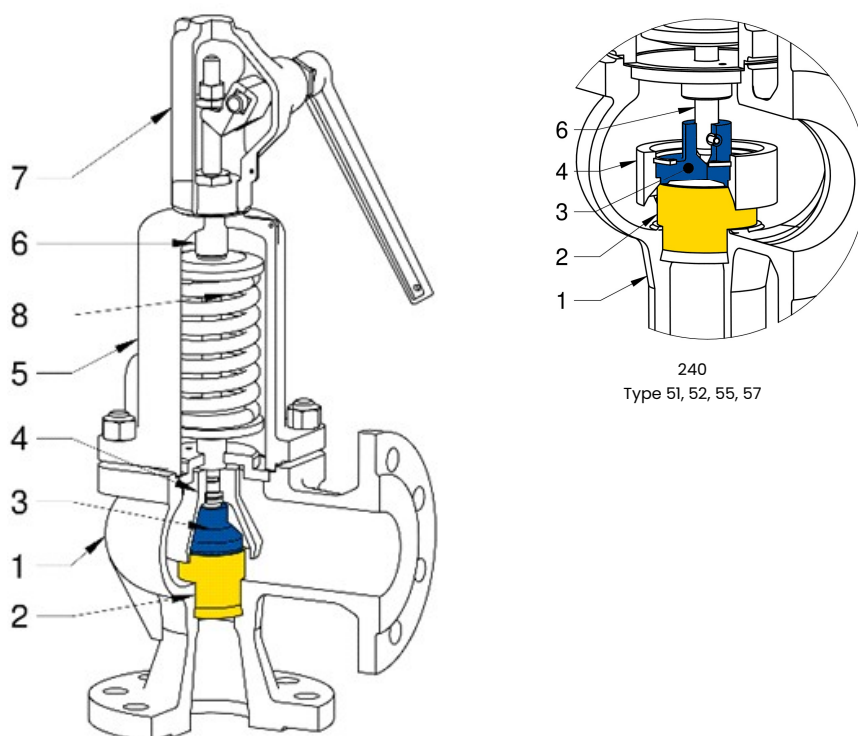
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## Materials



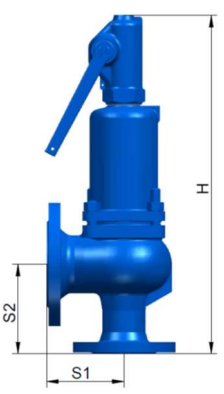
| No. | Body material → |                  |            | F                                            | R                                  |
|-----|-----------------|------------------|------------|----------------------------------------------|------------------------------------|
|     | Detail ↓        | Type             |            | 240F E                                       | 240R E                             |
| 1   | Body            | 01-07<br>51-57   | -1, -2, -3 | GP240GH<br>1.0619                            | GX5CrNi19-10<br>1.4308             |
| 2   | Seat            | 01-07<br>51-57   | -1, -2, -3 | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057 | X6CrNi18-10<br>1.4541              |
| 3   | Disc            | 01, 02<br>51-57  | -1         | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057 | X6CrNi18-10<br>1.4541              |
|     |                 | 05, 07           | -2         | X6CrNi18-10/NBR<br>1.4541/NBR                |                                    |
|     |                 | 05, 07           | -3         | X6CrNi18-10/EPDM<br>1.4541/EPDM              |                                    |
| 4   | Bell            | 01-07            | -1, -2, -3 | EN-GJS-400-15 / X20Cr13<br>5.3106 / 1.4021   | X6CrNi18-10<br>1.4541              |
|     |                 | 51-57            | -1         | X20Cr13<br>1.4021                            | X6CrNi18-10<br>1.4541              |
| 5   | Bonnet          | 01-07<br>51-57   | -1         | GP240GH<br>1.0619                            | GX5CrNi19-10<br>1.4308             |
|     |                 | 01-07            | -2, -3     | EN-GJS-400-15<br>5.3106                      |                                    |
| 6   | Stem            | 01, 02<br>51, 52 | -1, -2, -3 | X20Cr13<br>1.4021                            | X6CrNi18-10<br>1.4541              |
|     |                 | 05, 07<br>55, 57 |            | X17CrNi16-2<br>1.4057                        |                                    |
| 7   | Cap             | 01-07<br>51-57   | -1, -2, -3 | EN-GJS-400-15<br>5.3106                      | GX5CrNi19-10<br>1.4308             |
| 8   | Spring          | 01-07            | -1, -2, -3 | 51CrV4 / FDSiCr *<br>1.8159 / -              | X10CrNi18-10<br>1.4310             |
|     |                 | 51-57            | -1         |                                              | 51CrV4 / FDSiCr *,**<br>1.8159 / - |
| 9   | Wstawka         | 01-07            | -1         | P245GH / 13CrMo4-5<br>1.0352 / 1.7335        |                                    |

\* Springs with wire diameter  $\Phi 6$ , of patented wire, max. operating temperature then is 250°C (details in the table: Pressure ranges)

\*\* Spring for type 51, 52 valves 240R E – nickel plated

## Dimensions

| Body material:<br><b>F, R</b> |                | d1 x d2     |       |       |       |       |       |       |         |          |         |         |
|-------------------------------|----------------|-------------|-------|-------|-------|-------|-------|-------|---------|----------|---------|---------|
|                               |                | 240         |       |       |       |       |       |       |         |          |         |         |
|                               |                | <b>F, R</b> |       |       |       |       |       |       |         | <b>F</b> |         |         |
|                               |                | 20x20       | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125  | 150x150 | 200x200 |
| d <sub>o</sub> (mm)           | 01-07          | 12          | 16    | 20    | 25    | 32    | 40    | 50    | 63      | 77       | 93      | 110     |
|                               | 51-57          | 12          | 16    | 20    | 25    | 32    |       |       |         |          |         |         |
| A (mm <sup>2</sup> )          | 01-07          | 113         | 201   | 314   | 491   | 804   | 1257  | 1964  | 3117    | 4657     | 6793    | 9503    |
|                               | 51-57          | 113         | 201   | 314   | 491   | 804   |       |       |         |          |         |         |
| S <sub>i</sub> (mm)           | 01-07<br>51-57 | 95          | 100   | 105   | 115   | 125   | 145   | 155   | 175     | 200      | 225     | 225     |
| S <sub>2</sub> (mm)           |                | 95          | 100   | 105   | 115   | 125   | 145   | 155   | 175     | 200      | 225     | 250     |
| H (mm)                        |                | 335         | 350   | 390   | 420   | 485   | 540   | 655   | 705     | 810      | 850     | 980     |



## Set pressure

| Body material:<br><b>F</b> |                |        | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|----------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| P <sub>min</sub> (bar)     | 01, 02, 05, 07 | -1     | 0,45  |       |       |       |       |       |       |         |         |         |         |
|                            | 01, 02, 05, 07 | -2, -3 |       | 1     |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | -1     | 0,45  |       |       |       |       |       |       |         |         |         |         |
| P <sub>max</sub> (bar)     | 01, 02, 05, 07 | -1     | 40    |       |       |       |       |       |       |         |         | 25      | 16      |
|                            | 01, 02, 05, 07 | -2, -3 |       | 40    |       |       |       |       |       |         |         |         |         |
|                            | 51, 52, 55, 57 | -1     | 40    |       |       |       |       |       |       |         |         |         |         |

| Body material:<br>R    |        |    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 |
|------------------------|--------|----|-------|-------|-------|-------|-------|-------|-------|---------|
| P <sub>min</sub> (bar) | 01, 02 | -1 | 0,2   |       |       |       |       |       |       |         |
|                        | 51, 52 | -1 | 0,45  |       |       |       |       |       |       |         |
| P <sub>max</sub> (bar) | 01, 02 | -1 | 40    |       |       |       |       |       |       |         |
|                        | 51, 52 | -1 | 40    |       |       |       |       |       |       |         |

## Flange drilling

| Body material:<br><b>F, R</b> |                | 20x20      | 25x25 | 32x32 | 40x40 | 50x50 | 65x65      | 80x80 | 100x100 | 125x125    | 150x150 | 200x200 |
|-------------------------------|----------------|------------|-------|-------|-------|-------|------------|-------|---------|------------|---------|---------|
| Inlet                         | Standard       | PN40       |       |       |       |       |            |       |         |            |         | PN25    |
|                               | Optional PN*   | PN16, PN10 |       |       |       |       |            |       |         |            |         |         |
|                               | Optional ANSI* | class150   |       |       |       |       |            |       |         |            |         |         |
| Outlet                        | Standard       | PN10       |       |       |       |       |            |       |         |            |         |         |
|                               | Optional PN    | PN16       |       |       |       |       |            |       |         |            |         |         |
|                               | Optional ANSI  | class150   |       |       |       |       | class150** |       |         | class150** |         |         |

\* After agreement with the manufacturer, if the setting pressure allows

\*\* Possibility of type except for the flange thickness (thickness as for the standard flange according to EN-1092-2)

Standard and optional PN flanges drilled acc. EN 1092-2.

## Discharge coefficients

| Body material:<br><b>F, R</b> |                |                                            | Steam and gases (S/G)                 |       |       |       |       |       |       |         |         |         |         |
|-------------------------------|----------------|--------------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
|                               |                |                                            | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |       |       |         |         |         |         |
| Figure                        | Type           | Overpressure                               | 20x20                                 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| 240F E<br>240R E              | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,25                                  |       |       |       |       |       |       |         |         |         |         |
|                               | 51, 52, 55, 57 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,4                                   |       |       |       |       |       |       |         |         |         |         |

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| Body material:<br><b>F, R</b> |                |                                            | Liquids (L)                           |       |       |       |       |       |       |         |         |         |         |  |
|-------------------------------|----------------|--------------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|--|
|                               |                |                                            | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |       |       |         |         |         |         |  |
| Figure                        | Type           | Overpressure                               | 20x20                                 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |  |
| 240F E<br>240R E              | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,25                                  |       |       |       |       |       |       |         |         |         |         |  |
|                               | 51, 52, 55, 57 | 0,1 bar for p ≤ 1 bar<br>10% for p > 1 bar | 0,3                                   |       |       |       |       |       |       |         |         |         |         |  |

## Pressure-temperature ratings

|              | PN |     | -40°C | RT   | 50°C | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|--------------|----|-----|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| GP240GH      | 40 | bar | 30    | 40   | 40   | 40    | 38,1  | 35    | 32    | 28    | 25,7  | 23,8  | 18,0  |
| GX5CrNi19-10 |    |     | 38    | 37,6 | 35,6 | 27,6  | 24,9  | 22,6  | 21    | 19,6  |       |       |       |

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## 270 Proportional spring safety valves with threaded ends



**270**

Type

01, 02, 05, 07

51, 52, 55, 57



Body material:

**R**

### Application

#### Industries



INDUSTRY



SHIPBUILDING  
INDUSTRY



PETROCHEMICAL  
INDUSTRY



HEATING



REFRIGERATION AND  
AIR CONDITIONING



GAS



POWER ENGINEERING

#### Media



DRINKING WATER



SEWAGE



GLYCOL



INDUSTRY WATER



STEAM



COMPRESSED AIR



NEUTRAL FLUIDS

### Technical data

| Figure | Type           | Sealing | Ex          | Body material |              | PN            | DN               | Temperature range | Ends                                                                                  |                                                                                       |
|--------|----------------|---------|-------------|---------------|--------------|---------------|------------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        |                |         |             |               |              |               |                  |                   | Inlet                                                                                 | Outlet                                                                                |
| 270F E | 01, 02, 05, 07 | -1      | 2502.01     | F             | GP240GH      | E<br>40/10    | 20x20 ÷ 50x50    | -40°C ÷ +400°C    |  |  |
|        |                | -2      | 2502.01.11A |               |              |               | 25x25 ÷ 50x50    | -40°C ÷ +90°C     |                                                                                       |                                                                                       |
|        |                | -3      |             |               |              |               | -40°C ÷ +120°C   |                   |                                                                                       |                                                                                       |
|        | 51, 52, 55, 57 | -1      | -           |               |              |               | -40°C ÷ +400°C   |                   |                                                                                       |                                                                                       |
| 270R E | 01, 02         | -1      | 2502CrNi.01 | R             | GX5CrNi19-10 | 20x20 ÷ 50x50 | -196°C ÷ +300°C* |                   |                                                                                       |                                                                                       |
|        | 51, 52         |         | -           |               |              |               |                  |                   |                                                                                       |                                                                                       |

\* For oxygen valves, the maximum operating temperature is +200°C

| End type                                                                                          | Types |                                                                        |  | Sealing        |
|---------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|--|----------------|
|  Threaded ends | 01    | Standard type for steam, gases and liquids                             |  | -1 metal-metal |
|                                                                                                   | 02    | Gastight type for steam, gases and liquids                             |  | -2 NBR         |
|                                                                                                   | 05    | Marine type for steam, gases and liquids                               |  | -3 EPDM        |
|                                                                                                   | 07    | Marine gastight type for steam, gases and liquids                      |  |                |
|                                                                                                   | 51    | Standard type, with extended seat, for steam, gases and liquids        |  |                |
|                                                                                                   | 52    | Gastight type, with extended seat, for steam, gases and liquids        |  |                |
|                                                                                                   | 55    | Marine type, with extended seat, for steam, gases and liquids          |  |                |
|                                                                                                   | 57    | Marine gastight type, with extended seat, for steam, gases and liquids |  |                |

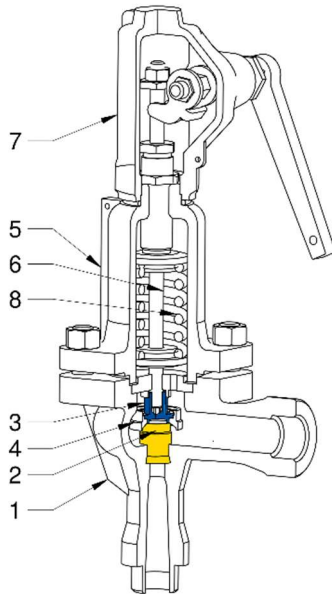
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## Materials



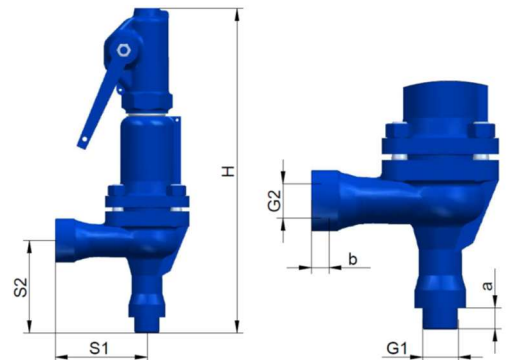
| No. | Body material → |        |    | F                                            | R                                    |
|-----|-----------------|--------|----|----------------------------------------------|--------------------------------------|
|     | Detail ↓        | Type   |    | 270F E                                       | 270R E                               |
| 1   | Body            | 51-57  | -1 | GP240GH<br>1.0619                            | GX5CrNi19-10<br>1.4308               |
| 2   | Seat            | 51-57  | -1 | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057 | X6CrNiTi18-10<br>1.4541              |
| 3   | Disc            | 51-57  | -1 | X39CrMo17-1 / X17CrNi16-2<br>1.4122 / 1.4057 | X6CrNiTi18-10<br>1.4541              |
| 4   | Bell            | 51-57  | -1 | X20Cr13<br>1.4021                            | X6CrNiTi18-10<br>1.4541              |
| 5   | Bonnet          | 51-57  | -1 | GP240GH<br>1.0619                            | GX5CrNi19-10<br>1.4308               |
| 6   | Stem            | 51, 52 | -1 | X20Cr13<br>1.4021                            | X6CrNiTi18-10<br>1.4541              |
|     |                 | 55, 57 |    | X17CrNi16-2<br>1.4057                        |                                      |
| 7   | Cap             | 51-57  |    | EN-GJS-400-15<br>5.3106                      | GX5CrNi19-10<br>1.4308               |
| 8   | Spring          | 51-57  | -1 | 51CrV4 / FDSiCr *<br>1.8159 / -              | 51CrV4 / FDSiCr **, **<br>1.8159 / - |

\* Springs with wire diameter  $\Phi 6$ , of patented wire, max. operating temperature then is 250°C (details in the table: Pressure ranges)

\*\* Spring for type 51, 52 valves 240R E – nickel plated

## Dimensions

| Body material:<br>F, R |                | d <sub>1</sub> x d <sub>2</sub> |       |       |       |       |
|------------------------|----------------|---------------------------------|-------|-------|-------|-------|
|                        |                | 270                             |       |       |       |       |
|                        |                | 20x20                           | 25x25 | 32x32 | 40x40 | 50x50 |
| d <sub>0</sub> (mm)    | 01-07<br>51-57 | 12                              | 16    | 20    | 25    | 32    |
| A (mm <sup>2</sup> )   |                | 113                             | 201   | 314   | 491   | 804   |
| S <sub>1</sub> (mm)    |                | 95                              | 100   | 105   | 115   | 125   |
| S <sub>2</sub> (mm)    |                | 95                              | 100   | 105   | 115   | 125   |
| G <sub>1</sub> (cal)   |                | ¾                               | 1     | 1¼    | 2     | 2½    |
| a (mm)                 |                | 13                              | 16    | 22    | 23    | 24    |
| G <sub>2</sub> (cal)   |                | ¾                               | 1     | 1¼    | 1½    | 2     |
| b (mm)                 |                | 13                              | 16    | 22    | 18    | 23    |
| H (mm)                 |                | 335                             | 350   | 390   | 420   | 485   |



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## Set pressure

| Body material:<br><b>F</b> |                |        | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|----------------------------|----------------|--------|-------|-------|-------|-------|-------|
| P <sub>min</sub> (bar)     | 01, 02, 05, 07 | -1     | 0,45  |       |       |       |       |
|                            |                | -2, -3 | 1     |       |       |       |       |
| P <sub>max</sub> (bar)     | 01, 02, 05, 07 | -1     | 0,45  |       |       |       |       |
|                            |                | -2, -3 | 40    |       |       |       |       |
|                            | 51, 52, 55, 57 | -1     | 40    |       |       |       |       |

| Body material:<br><b>R</b> |        |    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|----------------------------|--------|----|-------|-------|-------|-------|-------|
| P <sub>min</sub> (bar)     | 01, 02 | -1 | 0,2   |       |       |       |       |
|                            |        | -1 | 0,45  |       |       |       |       |
| P <sub>max</sub> (bar)     | 01, 02 | -1 | 40    |       |       |       |       |
|                            |        | -1 | 40    |       |       |       |       |

## Discharge coefficients

| Body material:<br><b>F, R</b> |                |                       | Steam and gases (S/G)                 |       |       |       |       |
|-------------------------------|----------------|-----------------------|---------------------------------------|-------|-------|-------|-------|
|                               |                |                       | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |
| Figure                        | Type           | Overpressure          | 20x20                                 | 25x25 | 32x32 | 40x40 | 50x50 |
| 270F E                        | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar | 0,25                                  |       |       |       |       |
| 270R E                        | 51, 52, 55, 57 | 10% for p > 1 bar     | 0,4                                   |       |       |       |       |

| Body material:<br><b>F, R</b> |                |                       | Liquids (L)                           |       |       |       |       |
|-------------------------------|----------------|-----------------------|---------------------------------------|-------|-------|-------|-------|
|                               |                |                       | DN (d <sub>1</sub> x d <sub>2</sub> ) |       |       |       |       |
| Figure                        | Type           | Overpressure          | 20x20                                 | 25x25 | 32x32 | 40x40 | 50x50 |
| 270F E                        | 01, 02, 05, 07 | 0,1 bar for p ≤ 1 bar | 0,25                                  |       |       |       |       |
| 270R E                        | 51, 52, 55, 57 | 10% for p > 1 bar     | 0,3                                   |       |       |       |       |

## Pressure-temperature ratings

|              | PN |     | -40°C | RT   | 50 °C | 100 °C | 150 °C | 200 °C | 250 °C | 300 °C | 350 °C | 400 °C |
|--------------|----|-----|-------|------|-------|--------|--------|--------|--------|--------|--------|--------|
| GP240GH      | 40 | bar | 30    | 40   | 40    | 40     | 38,1   | 35     | 32     | 28     | 25,7   | 23,8   |
| GX5CrNi19-10 |    |     | 38    | 37,6 | 35,6  | 27,6   | 24,9   | 22,6   | 21     | 19,6   |        |        |

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# Common information

## Capacity tables

### 240, 270

Capacity tables for safety valves PN16, PN40

Type 01, 02, 05, 07 Sealing: -1, -2, -3

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|--------------------------------------------|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                   | 113   | 201   | 314   | 491   | 804   | 1257  | 1964  | 3117    | 4657    | 6793    | 9503    |
| Set pressure bar(g)                        | Air 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |       |       |       |       |         |         |         |         |
| 0,45                                       | 36,1                                                  | 36,1  | 64,2  | 100   | 157   | 257   | 401   | 627   | 995     | 1487    | 2168    | 3034    |
| 0,50                                       | 37,6                                                  | 37,6  | 66,9  | 105   | 163   | 268   | 418   | 654   | 1038    | 1550    | 2261    | 3163    |
| 0,55                                       | 39,1                                                  | 39,1  | 69,5  | 109   | 170   | 278   | 435   | 679   | 1078    | 1611    | 2349    | 3287    |
| 0,60                                       | 40,5                                                  | 40,5  | 72,0  | 113   | 176   | 288   | 450   | 704   | 1117    | 1669    | 2434    | 3405    |
| 0,65                                       | 41,8                                                  | 41,8  | 74,4  | 116   | 182   | 298   | 465   | 727   | 1154    | 1724    | 2515    | 3519    |
| 0,70                                       | 43,1                                                  | 43,1  | 76,7  | 120   | 187   | 307   | 480   | 750   | 1190    | 1778    | 2594    | 3628    |
| 0,75                                       | 44,4                                                  | 44,4  | 79,0  | 123   | 193   | 316   | 494   | 772   | 1225    | 1830    | 2669    | 3734    |
| 0,80                                       | 45,6                                                  | 45,6  | 81,1  | 127   | 198   | 325   | 507   | 793   | 1258    | 1880    | 2742    | 3836    |
| 0,90                                       | 48,0                                                  | 48,0  | 85,4  | 133   | 209   | 342   | 534   | 835   | 1325    | 1979    | 2887    | 4038    |
| 1,00                                       | 50,4                                                  | 50,4  | 89,7  | 140   | 219   | 359   | 561   | 876   | 1391    | 2078    | 3031    | 4240    |
| 1,10                                       | 53,1                                                  | 53,1  | 94,4  | 147   | 231   | 378   | 590   | 922   | 1464    | 2187    | 3190    | 4462    |
| 1,20                                       | 55,7                                                  | 55,7  | 99,1  | 155   | 242   | 396   | 620   | 968   | 1536    | 2296    | 3349    | 4684    |
| 1,30                                       | 58,3                                                  | 58,3  | 104   | 162   | 254   | 415   | 649   | 1014  | 1609    | 2404    | 3507    | 4906    |
| 1,40                                       | 61,0                                                  | 61,0  | 108   | 169   | 265   | 434   | 678   | 1060  | 1682    | 2513    | 3666    | 5129    |
| 1,50                                       | 63,6                                                  | 63,6  | 113   | 177   | 276   | 453   | 708   | 1106  | 1755    | 2622    | 3825    | 5351    |
| 1,60                                       | 66,3                                                  | 66,3  | 118   | 184   | 288   | 471   | 737   | 1152  | 1828    | 2731    | 3984    | 5573    |
| 1,80                                       | 71,5                                                  | 71,5  | 127   | 199   | 311   | 509   | 796   | 1244  | 1974    | 2949    | 4301    | 6017    |
| 2,00                                       | 76,8                                                  | 76,8  | 137   | 213   | 334   | 547   | 855   | 1335  | 2119    | 3166    | 4619    | 6461    |
| 2,20                                       | 82,1                                                  | 82,1  | 146   | 228   | 357   | 584   | 913   | 1427  | 2265    | 3384    | 4936    | 6905    |
| 2,40                                       | 87,4                                                  | 87,4  | 155   | 243   | 380   | 622   | 972   | 1519  | 2411    | 3602    | 5254    | 7350    |
| 2,60                                       | 92,7                                                  | 92,7  | 165   | 258   | 403   | 659   | 1031  | 1611  | 2556    | 3819    | 5571    | 7794    |
| 3,00                                       | 103                                                   | 103   | 184   | 287   | 449   | 735   | 1148  | 1794  | 2848    | 4255    | 6206    | 8682    |
| 3,50                                       | 116                                                   | 116   | 207   | 324   | 506   | 829   | 1295  | 2024  | 3212    | 4799    | 7000    | 9793    |
| 4,00                                       | 130                                                   | 130   | 231   | 360   | 563   | 922   | 1442  | 2253  | 3576    | 5343    | 7794    | 10903   |
| 4,50                                       | 142,9                                                 | 142,9 | 254,1 | 397   | 621   | 1016  | 1589  | 2483  | 3941    | 5887    | 8588    | 12014   |
| 5,00                                       | 156,1                                                 | 156,1 | 277,6 | 434   | 678   | 1110  | 1736  | 2712  | 4305    | 6432    | 9382    | 13124   |
| 5,50                                       | 169,3                                                 | 169,3 | 301,1 | 470   | 735   | 1204  | 1883  | 2942  | 4669    | 6976    | 10175   | 14235   |
| 6,00                                       | 182,5                                                 | 182,5 | 324,6 | 507   | 793   | 1298  | 2030  | 3171  | 5033    | 7520    | 10969   | 15345   |
| 6,50                                       | 195,7                                                 | 195,7 | 348,1 | 544   | 850   | 1392  | 2177  | 3401  | 5398    | 8064    | 11763   | 16456   |
| 7,00                                       | 208,9                                                 | 208,9 | 371,6 | 580   | 908   | 1486  | 2324  | 3630  | 5762    | 8609    | 12557   | 17566   |
| 8,00                                       | 235,3                                                 | 235,3 | 418,5 | 654   | 1022  | 1674  | 2617  | 4090  | 6490    | 9697    | 14145   | 19787   |
| 9,00                                       | 261,7                                                 | 261,7 | 465,5 | 727   | 1137  | 1862  | 2911  | 4549  | 7219    | 10785   | 15732   | 22008   |
| 10,00                                      | 288,1                                                 | 288,1 | 512,5 | 801   | 1252  | 2050  | 3205  | 5008  | 7947    | 11874   | 17320   | 24230   |
| 11,00                                      | 314,5                                                 | 314,5 | 559,5 | 874   | 1367  | 2238  | 3499  | 5467  | 8676    | 12962   | 18908   | 26451   |
| 12,00                                      | 340,9                                                 | 340,9 | 606,4 | 947   | 1481  | 2426  | 3793  | 5926  | 9404    | 14051   | 20495   | 28672   |
| 13,00                                      | 367,3                                                 | 367,3 | 653   | 1021  | 1596  | 2614  | 4086  | 6385  | 10133   | 15139   | 22083   | 30893   |
| 14,00                                      | 393,8                                                 | 393,8 | 700   | 1094  | 1711  | 2802  | 4380  | 6844  | 10861   | 16228   | 23671   | 33114   |
| 15,00                                      | 420,2                                                 | 420,2 | 747   | 1168  | 1826  | 2989  | 4674  | 7303  | 11590   | 17316   | 25258   | 35335   |
| 16,00                                      | 446,6                                                 | 446,6 | 794   | 1241  | 1940  | 3177  | 4968  | 7762  | 12318   | 18404   | 26846   | 37556   |
| 18,00                                      |                                                       | 499,4 | 888   | 1388  | 2170  | 3553  | 5555  | 8680  | 13775   | 20581   | 30021   |         |
| 20,00                                      |                                                       | 552,2 | 982   | 1534  | 2399  | 3929  | 6143  | 9598  | 15232   | 22758   | 33197   |         |
| 22,00                                      |                                                       | 605,0 | 1076  | 1681  | 2629  | 4305  | 6730  | 10516 | 16689   | 24935   | 36372   |         |
| 24,00                                      |                                                       | 657,9 | 1170  | 1828  | 2858  | 4681  | 7318  | 11434 | 18146   | 27112   | 39547   |         |
| 25,00                                      |                                                       | 684,3 | 1217  | 1901  | 2973  | 4869  | 7612  | 11893 | 18875   | 28200   | 41135   |         |
| 28,00                                      |                                                       | 763   | 1358  | 2122  | 3318  | 5432  | 8493  | 13270 | 21060   | 31466   |         |         |
| 30,00                                      |                                                       | 816   | 1452  | 2268  | 3547  | 5808  | 9081  | 14188 | 22517   | 33642   |         |         |
| 32,00                                      |                                                       | 869   | 1546  | 2415  | 3777  | 6184  | 9668  | 15106 | 23974   | 35819   |         |         |
| 35,00                                      |                                                       | 948   | 1687  | 2635  | 4121  | 6748  | 10550 | 16483 | 26160   | 39085   |         |         |
| 40,00                                      |                                                       | 1080  | 1922  | 3002  | 4695  | 7687  | 12019 | 18778 | 29802   | 44527   |         |         |

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## 240, 270

Capacity tables for safety valves PN16, PN40

Type 01, 02, 05, 07 Sealing: -1, -2, -3

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                        | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|--------------------------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                          | 113   | 201   | 314   | 491   | 804   | 1257  | 1964  | 3 117   | 4 657   | 6 793   | 9 503   |
| Set pressure bar(g)                        | Saturated steam [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |       |       |       |       |         |         |         |         |
| 0,45                                       | 22,5                                                         | 22,5  | 40,0  | 62,5  | 97,8  | 160   | 250   | 391   | 621     | 928     | 1353    | 1893    |
| 0,50                                       | 23,4                                                         | 23,4  | 41,6  | 65,0  | 102   | 166   | 260   | 407   | 645     | 964     | 1406    | 1967    |
| 0,55                                       | 24,3                                                         | 24,3  | 43,1  | 67,4  | 105   | 173   | 270   | 422   | 669     | 1000    | 1458    | 2040    |
| 0,60                                       | 25,1                                                         | 25,1  | 44,7  | 69,8  | 109   | 179   | 279   | 436   | 693     | 1035    | 1509    | 2111    |
| 0,65                                       | 26,0                                                         | 26,0  | 46,2  | 72,1  | 113   | 185   | 289   | 451   | 716     | 1070    | 1560    | 2183    |
| 0,70                                       | 26,8                                                         | 26,8  | 47,7  | 74,5  | 117   | 191   | 298   | 466   | 740     | 1106    | 1613    | 2256    |
| 0,75                                       | 27,7                                                         | 27,7  | 49,3  | 77,1  | 121   | 197   | 309   | 482   | 765     | 1143    | 1668    | 2333    |
| 0,80                                       | 28,7                                                         | 28,7  | 51,0  | 79,7  | 125   | 204   | 319   | 499   | 792     | 1183    | 1725    | 2413    |
| 0,90                                       | 30,8                                                         | 30,8  | 54,7  | 85,5  | 134   | 219   | 342   | 535   | 849     | 1268    | 1849    | 2587    |
| 1,00                                       | 32,0                                                         | 32,0  | 57,0  | 89,0  | 139   | 228   | 356   | 557   | 884     | 1320    | 1926    | 2694    |
| 1,10                                       | 33,5                                                         | 33,5  | 59,5  | 93,0  | 145   | 238   | 372   | 582   | 923     | 1379    | 2012    | 2815    |
| 1,20                                       | 34,9                                                         | 34,9  | 62,2  | 97,1  | 152   | 249   | 389   | 607   | 964     | 1440    | 2101    | 2939    |
| 1,30                                       | 36,5                                                         | 36,5  | 64,9  | 101   | 159   | 260   | 406   | 634   | 1006    | 1504    | 2193    | 3068    |
| 1,40                                       | 38,1                                                         | 38,1  | 67,7  | 106   | 165   | 271   | 424   | 662   | 1050    | 1569    | 2289    | 3202    |
| 1,50                                       | 39,7                                                         | 39,7  | 70,7  | 110   | 173   | 283   | 442   | 691   | 1096    | 1637    | 2389    | 3341    |
| 1,60                                       | 41,5                                                         | 41,5  | 73,8  | 115   | 180   | 295   | 461   | 721   | 1144    | 1709    | 2493    | 3487    |
| 1,80                                       | 45,2                                                         | 45,2  | 80,4  | 126   | 196   | 322   | 503   | 786   | 1247    | 1863    | 2718    | 3802    |
| 2,00                                       | 48,2                                                         | 48,2  | 85,8  | 134   | 210   | 343   | 536   | 838   | 1330    | 1988    | 2899    | 4056    |
| 2,20                                       | 51,3                                                         | 51,3  | 91,2  | 143   | 223   | 365   | 570   | 891   | 1415    | 2113    | 3083    | 4313    |
| 2,40                                       | 54,5                                                         | 54,5  | 97,0  | 151   | 237   | 388   | 606   | 947   | 1504    | 2247    | 3277    | 4584    |
| 2,60                                       | 57,9                                                         | 57,9  | 103   | 161   | 252   | 412   | 645   | 1007  | 1598    | 2388    | 3483    | 4873    |
| 3,00                                       | 64,3                                                         | 64,3  | 114   | 179   | 280   | 458   | 716   | 1118  | 1775    | 2652    | 3868    | 5411    |
| 3,50                                       | 72,5                                                         | 72,5  | 129   | 201   | 315   | 516   | 806   | 1259  | 1999    | 2986    | 4356    | 6094    |
| 4,00                                       | 80,4                                                         | 80,4  | 143   | 223   | 349   | 572   | 894   | 1397  | 2217    | 3313    | 4832    | 6760    |
| 4,50                                       | 88,6                                                         | 88,6  | 158   | 246   | 385   | 630   | 986   | 1540  | 2444    | 3652    | 5327    | 7452    |
| 5,00                                       | 96,4                                                         | 96,4  | 171   | 268   | 419   | 686   | 1072  | 1675  | 2658    | 3971    | 5792    | 8103    |
| 5,50                                       | 104                                                          | 104   | 186   | 290   | 454   | 744   | 1162  | 1816  | 2882    | 4307    | 6282    | 8788    |
| 6,00                                       | 112                                                          | 112   | 200   | 312   | 488   | 798   | 1248  | 1951  | 3096    | 4625    | 6746    | 9438    |
| 6,50                                       | 120                                                          | 120   | 214   | 334   | 522   | 856   | 1338  | 2090  | 3317    | 4956    | 7228    | 10112   |
| 7,00                                       | 128                                                          | 128   | 228   | 356   | 556   | 911   | 1425  | 2226  | 3532    | 5278    | 7699    | 10770   |
| 8,00                                       | 144                                                          | 144   | 256   | 400   | 625   | 1024  | 1600  | 2500  | 3968    | 5929    | 8648    | 12098   |
| 9,00                                       | 160                                                          | 160   | 284   | 444   | 694   | 1136  | 1776  | 2775  | 4404    | 6581    | 9599    | 13428   |
| 10,00                                      | 175                                                          | 175   | 312   | 487   | 762   | 1248  | 1952  | 3049  | 4839    | 7230    | 10546   | 14754   |
| 11,00                                      | 191                                                          | 191   | 340   | 531   | 830   | 1359  | 2125  | 3321  | 5271    | 7875    | 11486   | 16069   |
| 12,00                                      | 207                                                          | 207   | 368   | 574   | 898   | 1471  | 2299  | 3592  | 5701    | 8518    | 12424   | 17381   |
| 13,00                                      | 222                                                          | 222   | 395   | 618   | 966   | 1582  | 2473  | 3863  | 6132    | 9161    | 13363   | 18694   |
| 14,00                                      | 238                                                          | 238   | 423   | 661   | 1034  | 1693  | 2647  | 4137  | 6565    | 9809    | 14307   | 20015   |
| 15,00                                      | 254                                                          | 254   | 451   | 705   | 1102  | 1805  | 2821  | 4408  | 6996    | 10453   | 15248   | 21331   |
| 16,00                                      | 269                                                          | 269   | 479   | 748   | 1170  | 1915  | 2995  | 4679  | 7426    | 11095   | 16184   | 22640   |
| 18,00                                      |                                                              | 300   | 535   | 835   | 1306  | 2138  | 3343  | 5223  | 8289    | 12384   | 18064   |         |
| 20,00                                      |                                                              | 332   | 590   | 922   | 1442  | 2361  | 3691  | 5768  | 9153    | 13676   | 19949   |         |
| 22,00                                      |                                                              | 363   | 645   | 1008  | 1576  | 2581  | 4036  | 6306  | 10008   | 14952   | 21810   |         |
| 24,00                                      |                                                              | 394   | 701   | 1095  | 1712  | 2804  | 4384  | 6850  | 10871   | 16242   | 23692   |         |
| 25,00                                      |                                                              | 410   | 729   | 1139  | 1781  | 2916  | 4559  | 7123  | 11305   | 16891   | 24638   |         |
| 28,00                                      |                                                              | 457   | 813   | 1270  | 1986  | 3252  | 5084  | 7944  | 12607   | 18836   |         |         |
| 30,00                                      |                                                              | 488   | 869   | 1357  | 2122  | 3475  | 5434  | 8490  | 13474   | 20131   |         |         |
| 32,00                                      |                                                              | 520   | 924   | 1444  | 2258  | 3698  | 5782  | 9033  | 14337   | 21420   |         |         |
| 35,00                                      |                                                              | 566   | 1008  | 1574  | 2461  | 4030  | 6301  | 9845  | 15624   | 23344   |         |         |
| 40,00                                      |                                                              | 646   | 1148  | 1794  | 2805  | 4593  | 7181  | 11220 | 17808   | 26606   |         |         |

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## 240, 270

### Capacity tables for safety valves PN16, PN40

Type 01, 02, 05, 07 Sealing: -1, -2, -3

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                   | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65  | 80x80  | 100x100 | 125x125 | 150x150 | 200x200 |
|--------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|---------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                     | 113   | 201   | 314   | 491   | 804   | 1257   | 1964   | 3 117   | 4 657   | 6 793   | 9 503   |
| Set pressure bar(g)                        | Water 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |       |       |        |        |         |         |         |         |
| 0,45                                       | 1011                                                    | 1011  | 1799  | 2810  | 4395  | 7196  | 11251  | 17579  | 27899   | 41683   | 60801   | 85057   |
| 0,50                                       | 1066                                                    | 1066  | 1896  | 2963  | 4632  | 7586  | 11859  | 18530  | 29408   | 43938   | 64090   | 89658   |
| 0,55                                       | 1118                                                    | 1118  | 1989  | 3107  | 4859  | 7956  | 12438  | 19434  | 30843   | 46082   | 67218   | 94035   |
| 0,60                                       | 1168                                                    | 1168  | 2077  | 3245  | 5075  | 8310  | 12991  | 20298  | 32215   | 48131   | 70207   | 98216   |
| 0,65                                       | 1216                                                    | 1216  | 2162  | 3378  | 5282  | 8649  | 13522  | 21127  | 33530   | 50097   | 73074   | 102226  |
| 0,70                                       | 1261                                                    | 1261  | 2244  | 3505  | 5481  | 8975  | 14032  | 21925  | 34796   | 51988   | 75833   | 106085  |
| 0,75                                       | 1306                                                    | 1306  | 2323  | 3628  | 5674  | 9290  | 14525  | 22694  | 36017   | 53812   | 78494   | 109809  |
| 0,80                                       | 1349                                                    | 1349  | 2399  | 3747  | 5860  | 9595  | 15001  | 23439  | 37199   | 55577   | 81068   | 113410  |
| 0,90                                       | 1430                                                    | 1430  | 2544  | 3975  | 6215  | 10177 | 15911  | 24860  | 39455   | 58948   | 85986   | 120289  |
| 1,00                                       | 1508                                                    | 1508  | 2682  | 4190  | 6551  | 10728 | 16772  | 26205  | 41589   | 62137   | 90637   | 126796  |
| 1,10                                       | 1581                                                    | 1581  | 2813  | 4394  | 6871  | 11251 | 17590  | 27484  | 43619   | 65170   | 95061   | 132985  |
| 1,20                                       | 1652                                                    | 1652  | 2938  | 4590  | 7177  | 11751 | 18373  | 28706  | 45559   | 68068   | 99288   | 138898  |
| 1,30                                       | 1719                                                    | 1719  | 3058  | 4777  | 7470  | 12231 | 19123  | 29878  | 47419   | 70847   | 103342  | 144570  |
| 1,40                                       | 1784                                                    | 1784  | 3173  | 4957  | 7752  | 12693 | 19845  | 31006  | 49209   | 73522   | 107243  | 150027  |
| 1,50                                       | 1847                                                    | 1847  | 3285  | 5131  | 8024  | 13139 | 20541  | 32095  | 50936   | 76102   | 111008  | 155293  |
| 1,60                                       | 1907                                                    | 1907  | 3392  | 5299  | 8287  | 13569 | 21215  | 33147  | 52607   | 78598   | 114648  | 160386  |
| 1,80                                       | 2023                                                    | 2023  | 3598  | 5621  | 8789  | 14393 | 22502  | 35158  | 55798   | 83366   | 121603  | 170115  |
| 2,00                                       | 2132                                                    | 2132  | 3793  | 5925  | 9265  | 15171 | 23719  | 37060  | 58816   | 87875   | 128180  | 179317  |
| 2,20                                       | 2236                                                    | 2236  | 3978  | 6214  | 9717  | 15912 | 24877  | 38869  | 61687   | 92164   | 134437  | 188069  |
| 2,40                                       | 2336                                                    | 2336  | 4155  | 6491  | 10149 | 16619 | 25983  | 40597  | 64430   | 96262   | 140415  | 196432  |
| 2,60                                       | 2431                                                    | 2431  | 4324  | 6756  | 10564 | 17298 | 27044  | 42255  | 67061   | 100193  | 146148  | 204453  |
| 3,00                                       | 2611                                                    | 2611  | 4645  | 7257  | 11347 | 18581 | 29050  | 45389  | 72035   | 107625  | 156988  | 219617  |
| 3,50                                       | 2821                                                    | 2821  | 5017  | 7838  | 12256 | 20069 | 31377  | 49025  | 77807   | 116248  | 169567  | 237214  |
| 4,00                                       | 3015                                                    | 3015  | 5364  | 8379  | 13103 | 21455 | 33544  | 52410  | 83179   | 124274  | 181275  | 253592  |
| 4,50                                       | 3198                                                    | 3198  | 5689  | 8888  | 13897 | 22757 | 35578  | 55590  | 88224   | 131813  | 192271  | 268975  |
| 5,00                                       | 3371                                                    | 3371  | 5997  | 9368  | 14649 | 23988 | 37503  | 58596  | 92997   | 138943  | 202671  | 283525  |
| 5,50                                       | 3536                                                    | 3536  | 6290  | 9826  | 15364 | 25158 | 39333  | 61457  | 97536   | 145725  | 212563  | 297363  |
| 6,00                                       | 3693                                                    | 3693  | 6569  | 10262 | 16047 | 26277 | 41082  | 64189  | 101873  | 152204  | 222015  | 310586  |
| 6,50                                       | 3844                                                    | 3844  | 6838  | 10681 | 16703 | 27350 | 42760  | 66810  | 106032  | 158419  | 231081  | 323268  |
| 7,00                                       | 3989                                                    | 3989  | 7096  | 11085 | 17333 | 28382 | 44374  | 69332  | 110035  | 164399  | 239804  | 335471  |
| 8,00                                       | 4265                                                    | 4265  | 7586  | 11850 | 18530 | 30342 | 47438  | 74119  | 117632  | 175750  | 256361  | 358634  |
| 9,00                                       | 4523                                                    | 4523  | 8046  | 12569 | 19654 | 32183 | 50315  | 78615  | 124768  | 186411  | 271912  | 380388  |
| 10,00                                      | 4768                                                    | 4768  | 8481  | 13249 | 20717 | 33924 | 53037  | 82868  | 131517  | 196495  | 286620  | 400964  |
| 11,00                                      | 5001                                                    | 5001  | 8895  | 13895 | 21728 | 35579 | 55626  | 86913  | 137936  | 206086  | 300610  | 420535  |
| 12,00                                      | 5223                                                    | 5223  | 9290  | 14513 | 22694 | 37161 | 58099  | 90777  | 144070  | 215249  | 313977  | 439235  |
| 13,00                                      | 5436                                                    | 5436  | 9670  | 15106 | 23621 | 38679 | 60472  | 94484  | 149952  | 224039  | 326797  | 457170  |
| 14,00                                      | 5641                                                    | 5641  | 10035 | 15676 | 24513 | 40139 | 62754  | 98051  | 155613  | 232496  | 339134  | 474428  |
| 15,00                                      | 5839                                                    | 5839  | 10387 | 16226 | 25373 | 41548 | 64957  | 101492 | 161075  | 240656  | 351037  | 491079  |
| 16,00                                      | 6031                                                    | 6031  | 10728 | 16758 | 26205 | 42910 | 67087  | 104821 | 166357  | 248549  | 362549  | 507184  |
| 18,00                                      |                                                         | 6397  | 11378 | 17775 | 27795 | 45513 | 71157  | 111179 | 176449  | 263626  | 384541  |         |
| 20,00                                      |                                                         | 6743  | 11994 | 18737 | 29298 | 47975 | 75006  | 117193 | 185993  | 277886  | 405342  |         |
| 22,00                                      |                                                         | 7072  | 12579 | 19651 | 30728 | 50317 | 78667  | 122913 | 195071  | 291449  | 425126  |         |
| 24,00                                      |                                                         | 7386  | 13139 | 20525 | 32095 | 52554 | 82165  | 128378 | 203745  | 304409  | 444030  |         |
| 25,00                                      |                                                         | 7539  | 13409 | 20948 | 32756 | 53638 | 83859  | 131026 | 207947  | 310686  | 453186  |         |
| 28,00                                      |                                                         | 7978  | 14191 | 22169 | 34666 | 56765 | 88748  | 138665 | 220070  | 328799  |         |         |
| 30,00                                      |                                                         | 8258  | 14689 | 22948 | 35883 | 58757 | 91863  | 143532 | 227794  | 340339  |         |         |
| 32,00                                      |                                                         | 8529  | 15171 | 23700 | 37060 | 60684 | 94876  | 148239 | 235265  | 351501  |         |         |
| 35,00                                      |                                                         | 8920  | 15866 | 24786 | 38758 | 63465 | 99223  | 155032 | 246046  | 367608  |         |         |
| 40,00                                      |                                                         | 9536  | 16962 | 26497 | 41434 | 67847 | 106074 | 165736 | 263034  | 392990  |         |         |

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## 240, 270

Capacity tables for safety valves PN16, PN40

Type 51, 52, 55, 57 Sealing: -1

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50  |
|--------------------------------------------|-------------------------------------------------------|-------|-------|-------|-------|--------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                   | 113   | 201   | 314   | 491   | 804    |
| Set pressure bar(g)                        | Air 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |       |        |
| 0,45                                       | 57,7                                                  | 57,7  | 102,7 | 160   | 251   | 411    |
| 0,50                                       | 60,2                                                  | 60,2  | 107,0 | 167   | 261   | 428    |
| 0,55                                       | 62,5                                                  | 62,5  | 111,2 | 174   | 272   | 445    |
| 0,60                                       | 64,8                                                  | 64,8  | 115,2 | 180   | 282   | 461    |
| 0,65                                       | 67,0                                                  | 67,0  | 119,1 | 186   | 291   | 476    |
| 0,70                                       | 69,0                                                  | 69,0  | 122,8 | 192   | 300   | 491    |
| 0,75                                       | 71,0                                                  | 71,0  | 126,4 | 197   | 309   | 505    |
| 0,80                                       | 73,0                                                  | 73,0  | 129,8 | 203   | 317   | 519    |
| 0,90                                       | 76,8                                                  | 76,8  | 136,7 | 213   | 334   | 547    |
| 1,00                                       | 80,7                                                  | 80,7  | 143,5 | 224   | 351   | 574    |
| 1,10                                       | 84,9                                                  | 84,9  | 151,0 | 236   | 369   | 604    |
| 1,20                                       | 89,1                                                  | 89,1  | 158,5 | 248   | 387   | 634    |
| 1,30                                       | 93,3                                                  | 93,3  | 166   | 259   | 406   | 664    |
| 1,40                                       | 97,6                                                  | 97,6  | 174   | 271   | 424   | 694    |
| 1,50                                       | 101,8                                                 | 101,8 | 181   | 283   | 442   | 724    |
| 1,60                                       | 106,0                                                 | 106,0 | 189   | 295   | 461   | 754    |
| 1,80                                       | 114,5                                                 | 114,5 | 204   | 318   | 497   | 815    |
| 2,00                                       | 122,9                                                 | 122,9 | 219   | 342   | 534   | 875    |
| 2,20                                       | 131,4                                                 | 131,4 | 234   | 365   | 571   | 935    |
| 2,40                                       | 139,8                                                 | 139,8 | 249   | 389   | 608   | 995    |
| 2,60                                       | 148,3                                                 | 148,3 | 264   | 412   | 644   | 1 055  |
| 3,00                                       | 165                                                   | 165   | 294   | 459   | 718   | 1 175  |
| 3,50                                       | 186                                                   | 186   | 331   | 518   | 810   | 1 326  |
| 4,00                                       | 207                                                   | 207   | 369   | 576   | 901   | 1 476  |
| 4,50                                       | 229                                                   | 229   | 407   | 635   | 993   | 1 626  |
| 5,00                                       | 250                                                   | 250   | 444   | 694   | 1 085 | 1 777  |
| 5,50                                       | 271                                                   | 271   | 482   | 753   | 1 177 | 1 927  |
| 6,00                                       | 292                                                   | 292   | 519   | 811   | 1 269 | 2 077  |
| 6,50                                       | 313                                                   | 313   | 557   | 870   | 1 360 | 2 228  |
| 7,00                                       | 334                                                   | 334   | 594   | 929   | 1 452 | 2 378  |
| 8,00                                       | 376                                                   | 376   | 670   | 1 046 | 1 636 | 2 679  |
| 9,00                                       | 419                                                   | 419   | 745   | 1 164 | 1 819 | 2 979  |
| 10,00                                      | 461                                                   | 461   | 820   | 1 281 | 2 003 | 3 280  |
| 11,00                                      | 503                                                   | 503   | 895   | 1 398 | 2 187 | 3 581  |
| 12,00                                      | 545                                                   | 545   | 970   | 1 516 | 2 370 | 3 881  |
| 13,00                                      | 588                                                   | 588   | 1 045 | 1 633 | 2 554 | 4 182  |
| 14,00                                      | 630                                                   | 630   | 1 121 | 1 751 | 2 737 | 4 483  |
| 15,00                                      | 672                                                   | 672   | 1 196 | 1 868 | 2 921 | 4 783  |
| 16,00                                      | 715                                                   | 715   | 1 271 | 1 985 | 3 105 | 5 084  |
| 18,00                                      |                                                       | 799   | 1 421 | 2 220 | 3 472 | 5 685  |
| 20,00                                      |                                                       | 884   | 1 572 | 2 455 | 3 839 | 6 286  |
| 22,00                                      |                                                       | 968   | 1 722 | 2 690 | 4 206 | 6 888  |
| 24,00                                      |                                                       | 1 053 | 1 872 | 2 925 | 4 574 | 7 489  |
| 25,00                                      |                                                       | 1 095 | 1 947 | 3 042 | 4 757 | 7 790  |
| 28,00                                      |                                                       | 1 222 | 2 173 | 3 395 | 5 308 | 8 692  |
| 30,00                                      |                                                       | 1 306 | 2 323 | 3 629 | 5 675 | 9 293  |
| 32,00                                      |                                                       | 1 391 | 2 474 | 3 864 | 6 042 | 9 894  |
| 35,00                                      |                                                       | 1 517 | 2 699 | 4 216 | 6 593 | 10 796 |
| 40,00                                      |                                                       | 1 729 | 3 075 | 4 804 | 7 511 | 12 300 |

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## 240, 270

Capacity tables for safety valves PN16, PN40

Type 51, 52, 55, 57 Sealing: -1

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                        | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|--------------------------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                          | 113   | 201   | 314   | 491   | 804   |
| Set pressure bar(g)                        | Saturated steam [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |       |       |
| 0,45                                       | 36,0                                                         | 36,0  | 64,1  | 100   | 156   | 256   |
| 0,50                                       | 37,4                                                         | 37,4  | 66,6  | 104   | 163   | 266   |
| 0,55                                       | 38,8                                                         | 38,8  | 69,0  | 108   | 169   | 276   |
| 0,60                                       | 40,2                                                         | 40,2  | 71,5  | 112   | 175   | 286   |
| 0,65                                       | 41,5                                                         | 41,5  | 73,9  | 115   | 180   | 295   |
| 0,70                                       | 42,9                                                         | 42,9  | 76,3  | 119   | 186   | 305   |
| 0,75                                       | 44,4                                                         | 44,4  | 78,9  | 123   | 193   | 316   |
| 0,80                                       | 45,9                                                         | 45,9  | 81,7  | 128   | 199   | 327   |
| 0,90                                       | 49,2                                                         | 49,2  | 87,5  | 137   | 214   | 350   |
| 1,00                                       | 51,3                                                         | 51,3  | 91,2  | 142   | 223   | 365   |
| 1,10                                       | 53,5                                                         | 53,5  | 95,3  | 149   | 233   | 381   |
| 1,20                                       | 55,9                                                         | 55,9  | 99,5  | 155   | 243   | 398   |
| 1,30                                       | 58,4                                                         | 58,4  | 104   | 162   | 254   | 415   |
| 1,40                                       | 60,9                                                         | 60,9  | 108   | 169   | 265   | 433   |
| 1,50                                       | 63,6                                                         | 63,6  | 113   | 177   | 276   | 452   |
| 1,60                                       | 66,3                                                         | 66,3  | 118   | 184   | 288   | 472   |
| 1,80                                       | 72,3                                                         | 72,3  | 129   | 201   | 314   | 515   |
| 2,00                                       | 77,2                                                         | 77,2  | 137   | 214   | 335   | 549   |
| 2,20                                       | 82,1                                                         | 82,1  | 146   | 228   | 357   | 584   |
| 2,40                                       | 87,2                                                         | 87,2  | 155   | 242   | 379   | 621   |
| 2,60                                       | 92,7                                                         | 92,7  | 165   | 258   | 403   | 660   |
| 3,00                                       | 103                                                          | 103   | 183   | 286   | 447   | 732   |
| 3,50                                       | 116                                                          | 116   | 206   | 322   | 504   | 825   |
| 4,00                                       | 129                                                          | 129   | 229   | 357   | 559   | 915   |
| 4,50                                       | 141                                                          | 141   | 252   | 394   | 616   | 1 009 |
| 5,00                                       | 154                                                          | 154   | 274   | 428   | 670   | 1 097 |
| 5,50                                       | 167                                                          | 167   | 297   | 465   | 726   | 1 190 |
| 6,00                                       | 180                                                          | 180   | 319   | 499   | 780   | 1 278 |
| 6,50                                       | 192                                                          | 192   | 342   | 535   | 836   | 1 369 |
| 7,00                                       | 205                                                          | 205   | 364   | 569   | 890   | 1 458 |
| 8,00                                       | 230                                                          | 230   | 409   | 640   | 1 000 | 1 638 |
| 9,00                                       | 255                                                          | 255   | 454   | 710   | 1 110 | 1 818 |
| 10,00                                      | 281                                                          | 281   | 499   | 780   | 1 220 | 1 997 |
| 11,00                                      | 306                                                          | 306   | 544   | 850   | 1 328 | 2 175 |
| 12,00                                      | 331                                                          | 331   | 588   | 919   | 1 437 | 2 353 |
| 13,00                                      | 356                                                          | 356   | 633   | 988   | 1 545 | 2 531 |
| 14,00                                      | 381                                                          | 381   | 677   | 1 058 | 1 655 | 2 709 |
| 15,00                                      | 406                                                          | 406   | 722   | 1 128 | 1 763 | 2 887 |
| 16,00                                      | 431                                                          | 431   | 766   | 1 197 | 1 872 | 3 065 |
| 18,00                                      |                                                              | 481   | 855   | 1 336 | 2 089 | 3 421 |
| 20,00                                      |                                                              | 531   | 944   | 1 475 | 2 307 | 3 778 |
| 22,00                                      |                                                              | 580   | 1 033 | 1 613 | 2 522 | 4 130 |
| 24,00                                      |                                                              | 631   | 1 122 | 1 752 | 2 740 | 4 487 |
| 25,00                                      |                                                              | 656   | 1 166 | 1 822 | 2 849 | 4 666 |
| 28,00                                      |                                                              | 731   | 1 301 | 2 032 | 3 177 | 5 203 |
| 30,00                                      |                                                              | 782   | 1 390 | 2 172 | 3 396 | 5 561 |
| 32,00                                      |                                                              | 832   | 1 479 | 2 311 | 3 613 | 5 917 |
| 35,00                                      |                                                              | 906   | 1 612 | 2 518 | 3 938 | 6 448 |
| 40,00                                      |                                                              | 1 033 | 1 837 | 2 870 | 4 488 | 7 349 |

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## 240, 270

Capacity tables for safety valves PN16, PN40

Type 51, 52, 55, 57 Sealing: -1

| DNxDN<br>PN16, PN40<br>Typ AC, FE, RE      | 15x15                                                   | 20x20 | 25x25 | 32x32  | 40x40  | 50x50  |
|--------------------------------------------|---------------------------------------------------------|-------|-------|--------|--------|--------|
| A – actual Orifice area [mm <sup>2</sup> ] | 113                                                     | 113   | 201   | 314    | 491    | 804    |
| Set pressure bar(g)                        | Water 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |        |        |        |
| 0,45                                       | 1 268                                                   | 1 268 | 2 260 | 3 535  | 5 535  | 9 098  |
| 0,50                                       | 1 325                                                   | 1 325 | 2 361 | 3 693  | 5 803  | 9 503  |
| 0,55                                       | 1 379                                                   | 1 379 | 2 458 | 3 845  | 6 040  | 9 891  |
| 0,60                                       | 1 432                                                   | 1 432 | 2 552 | 3 991  | 6 268  | 10 264 |
| 0,65                                       | 1 482                                                   | 1 482 | 2 642 | 4 132  | 6 488  | 10 624 |
| 0,70                                       | 1 531                                                   | 1 531 | 2 729 | 4 268  | 6 701  | 10 973 |
| 0,75                                       | 1 579                                                   | 1 579 | 2 813 | 4 400  | 6 907  | 11 310 |
| 0,80                                       | 1 625                                                   | 1 625 | 2 895 | 4 529  | 7 107  | 11 638 |
| 0,90                                       | 1 713                                                   | 1 713 | 3 053 | 4 791  | 7 492  | 12 268 |
| 1,00                                       | 1 797                                                   | 1 797 | 3 203 | 5 025  | 7 858  | 12 867 |
| 1,10                                       | 1 886                                                   | 1 886 | 3 360 | 5 270  | 8 241  | 13 495 |
| 1,20                                       | 1 970                                                   | 1 970 | 3 510 | 5 505  | 8 608  | 14 095 |
| 1,30                                       | 2 051                                                   | 2 051 | 3 668 | 5 729  | 8 959  | 14 670 |
| 1,40                                       | 2 129                                                   | 2 129 | 3 806 | 5 946  | 9 297  | 15 224 |
| 1,50                                       | 2 204                                                   | 2 204 | 3 940 | 6 154  | 9 624  | 15 758 |
| 1,60                                       | 2 277                                                   | 2 277 | 4 069 | 6 356  | 9 939  | 16 275 |
| 1,80                                       | 2 416                                                   | 2 416 | 4 316 | 6 742  | 10 542 | 17 262 |
| 2,00                                       | 2 547                                                   | 2 547 | 4 549 | 7 106  | 11 112 | 18 196 |
| 2,20                                       | 2 672                                                   | 2 672 | 4 771 | 7 453  | 11 655 | 19 084 |
| 2,40                                       | 2 802                                                   | 2 802 | 4 983 | 7 785  | 12 173 | 19 933 |
| 2,60                                       | 2 916                                                   | 2 916 | 5 187 | 8 103  | 12 670 | 20 747 |
| 3,00                                       | 3 132                                                   | 3 132 | 5 571 | 8 704  | 13 610 | 22 286 |
| 3,50                                       | 3 383                                                   | 3 383 | 6 018 | 9 401  | 14 700 | 24 071 |
| 4,00                                       | 3 617                                                   | 3 617 | 6 433 | 10 050 | 15 715 | 25 733 |
| 4,50                                       | 3836                                                    | 3836  | 6824  | 10 660 | 16 668 | 27 294 |
| 5,00                                       | 4044                                                    | 4044  | 7193  | 11 236 | 17 570 | 28 771 |
| 5,50                                       | 4241                                                    | 4241  | 7544  | 11 785 | 18 428 | 30 175 |
| 6,00                                       | 4430                                                    | 4430  | 7879  | 12 309 | 19 247 | 31 517 |
| 6,50                                       | 4610                                                    | 4610  | 8201  | 12 811 | 20 033 | 32 804 |
| 7,00                                       | 4784                                                    | 4784  | 8510  | 13 295 | 20 789 | 34 042 |
| 8,00                                       | 5115                                                    | 5115  | 9098  | 14 213 | 22 225 | 36 392 |
| 9,00                                       | 5425                                                    | 5425  | 9650  | 15 075 | 23 573 | 38 600 |
| 10,00                                      | 5719                                                    | 5719  | 10172 | 15 891 | 24 848 | 40 688 |
| 11,00                                      | 5998                                                    | 5998  | 10668 | 16 666 | 26 061 | 42 674 |
| 12,00                                      | 6264                                                    | 6264  | 11143 | 17 407 | 27 220 | 44 571 |
| 13,00                                      | 6520                                                    | 6520  | 11598 | 18 118 | 28 331 | 46 391 |
| 14,00                                      | 6766                                                    | 6766  | 12036 | 18 802 | 29 400 | 48 143 |
| 15,00                                      | 7004                                                    | 7004  | 12458 | 19 462 | 30 432 | 49 832 |
| 16,00                                      | 7233                                                    | 7233  | 12867 | 20 100 | 31 430 | 51 467 |
| 18,00                                      |                                                         | 7672  | 13647 | 21 319 | 33 337 | 54 588 |
| 20,00                                      |                                                         | 8087  | 14385 | 22 473 | 35 140 | 57 541 |
| 22,00                                      |                                                         | 8482  | 15087 | 23 569 | 36 855 | 60 350 |
| 24,00                                      |                                                         | 8859  | 15758 | 24 618 | 38 494 | 63 033 |
| 25,00                                      |                                                         | 9042  | 16083 | 25 125 | 39 288 | 64 333 |
| 28,00                                      |                                                         | 9569  | 17021 | 26 590 | 41 579 | 68 084 |
| 30,00                                      |                                                         | 9905  | 17618 | 27 523 | 43 038 | 70 473 |
| 32,00                                      |                                                         | 10230 | 18196 | 28 426 | 44 449 | 72 785 |
| 35,00                                      |                                                         | 10698 | 19030 | 29 728 | 46 486 | 76 120 |
| 40,00                                      |                                                         | 11437 | 20344 | 31 781 | 49 696 | 81 376 |

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# 781

## Capacity tables for safety valves PN16

Type 01, 02, 05, 07 Sealing: -1, -2, -3

| DNxDN<br>PN16                 | 10x15                                                 | 15x15 | 20x20 | 25x25 |
|-------------------------------|-------------------------------------------------------|-------|-------|-------|
| A - actual Orifice area [mm²] | 78,5                                                  | 113   | 201   | 314   |
| Set pressure bar(g)           | Air 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |
| 0,30                          | 16,3                                                  | 23,5  | 41,8  | 65,3  |
| 0,35                          | 17,3                                                  | 24,9  | 44,3  | 69,1  |
| 0,40                          | 18,2                                                  | 26,2  | 46,6  | 72,8  |
| 0,45                          | 19,0                                                  | 27,4  | 48,8  | 76,2  |
| 0,50                          | 20,9                                                  | 30,1  | 53,5  | 83,6  |
| 0,55                          | 21,7                                                  | 31,3  | 55,6  | 86,9  |
| 0,60                          | 22,5                                                  | 32,4  | 57,6  | 90,0  |
| 0,65                          | 23,3                                                  | 33,5  | 59,5  | 93,0  |
| 0,70                          | 24,0                                                  | 34,5  | 61,4  | 95,9  |
| 0,75                          | 24,7                                                  | 35,5  | 63,2  | 98,7  |
| 0,80                          | 25,4                                                  | 36,5  | 64,9  | 101   |
| 0,90                          | 26,7                                                  | 38,4  | 68,3  | 107   |
| 1,00                          | 28,0                                                  | 40,3  | 71,7  | 112   |
| 1,10                          | 29,5                                                  | 42,4  | 75,5  | 118   |
| 1,20                          | 31,0                                                  | 44,6  | 79,3  | 124   |
| 1,30                          | 32,4                                                  | 46,7  | 83,0  | 130   |
| 1,50                          | 44,2                                                  | 63,6  | 113   | 177   |
| 1,60                          | 46,0                                                  | 66,3  | 118   | 184   |
| 1,80                          | 49,7                                                  | 71,5  | 127   | 199   |
| 2,00                          | 53,4                                                  | 76,8  | 137   | 213   |
| 2,20                          | 57,0                                                  | 82,1  | 146   | 228   |
| 2,40                          | 60,7                                                  | 87,4  | 155   | 243   |
| 2,60                          | 64,4                                                  | 92,7  | 165   | 258   |
| 2,80                          | 68,1                                                  | 98,0  | 174   | 272   |
| 3,00                          | 71,7                                                  | 103   | 184   | 287   |
| 3,50                          | 80,9                                                  | 116   | 207   | 324   |
| 4,00                          | 90,1                                                  | 130   | 231   | 360   |
| 4,50                          | 99,2                                                  | 143   | 254   | 397   |
| 5,00                          | 108                                                   | 156   | 278   | 434   |
| 5,50                          | 118                                                   | 169   | 301   | 470   |
| 6,00                          | 127                                                   | 182   | 325   | 507   |
| 6,50                          | 136                                                   | 196   | 348   | 544   |
| 7,00                          | 145                                                   | 209   | 372   | 580   |
| 7,50                          | 154                                                   | 222   | 395   | 617   |
| 8,00                          | 163                                                   | 235   | 419   | 654   |
| 9,00                          | 182                                                   | 262   | 466   | 727   |
| 10,00                         | 200                                                   | 288   | 512   | 801   |
| 11,00                         | 218                                                   | 315   | 559   |       |
| 12,00                         | 237                                                   | 341   | 606   |       |
| 13,00                         | 255                                                   | 367   | 653   |       |
| 14,00                         | 274                                                   | 394   | 700   |       |
| 15,00                         | 292                                                   | 420   | 747   |       |
| 16,00                         | 310                                                   | 447   | 794   |       |

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# 781

## Capacity tables for safety valves PN16

Type 01, 02, 05, 07 Sealing: -1, -2, -3

| DNxDN<br>PN16                 | 10x15                                                        | 15x15 | 20x20 | 25x25 |
|-------------------------------|--------------------------------------------------------------|-------|-------|-------|
| A - actual Orifice area [mm²] | 78,5                                                         | 113   | 201   | 314   |
| Set pressure bar(g)           | Saturated steam [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |
| 0,30                          | 10,4                                                         | 14,9  | 26,5  | 41,5  |
| 0,35                          | 10,9                                                         | 15,7  | 27,9  | 43,6  |
| 0,40                          | 11,4                                                         | 16,4  | 29,2  | 45,6  |
| 0,45                          | 11,9                                                         | 17,1  | 30,4  | 47,5  |
| 0,50                          | 13,0                                                         | 18,7  | 33,3  | 52,0  |
| 0,55                          | 13,5                                                         | 19,4  | 34,5  | 53,9  |
| 0,60                          | 14,0                                                         | 20,1  | 35,7  | 55,8  |
| 0,65                          | 14,4                                                         | 20,8  | 36,9  | 57,7  |
| 0,70                          | 14,9                                                         | 21,5  | 38,2  | 59,6  |
| 0,75                          | 15,4                                                         | 22,2  | 39,5  | 61,7  |
| 0,80                          | 15,9                                                         | 23,0  | 40,8  | 63,8  |
| 0,90                          | 17,1                                                         | 24,6  | 43,8  | 68,4  |
| 1,00                          | 17,8                                                         | 25,6  | 45,6  | 71,2  |
| 1,10                          | 18,6                                                         | 26,8  | 47,6  | 74,4  |
| 1,20                          | 19,4                                                         | 28,0  | 49,7  | 77,7  |
| 1,30                          | 20,3                                                         | 29,2  | 51,9  | 81,1  |
| 1,50                          | 27,6                                                         | 39,7  | 70,7  | 110,4 |
| 1,60                          | 28,8                                                         | 41,5  | 73,8  | 115,2 |
| 1,80                          | 31,4                                                         | 45,2  | 80,4  | 125,6 |
| 2,00                          | 33,5                                                         | 48,2  | 85,8  | 134,0 |
| 2,20                          | 35,6                                                         | 51,3  | 91,2  | 142,5 |
| 2,40                          | 37,9                                                         | 54,5  | 97,0  | 151,5 |
| 2,60                          | 40,3                                                         | 57,9  | 103,1 | 161,0 |
| 2,80                          | 42,6                                                         | 61,3  | 109,1 | 170,4 |
| 3,00                          | 44,7                                                         | 64,3  | 114,4 | 178,8 |
| 3,50                          | 50,3                                                         | 72,5  | 128,9 | 201,4 |
| 4,00                          | 55,8                                                         | 80,4  | 143,0 | 223,4 |
| 4,50                          | 61,6                                                         | 88,6  | 157,6 | 246,2 |
| 5,00                          | 66,9                                                         | 96,4  | 171,4 | 267,7 |
| 5,50                          | 72,6                                                         | 104,5 | 185,9 | 290,4 |
| 6,00                          | 78,0                                                         | 112,2 | 199,6 | 311,8 |
| 6,50                          | 83,5                                                         | 120,2 | 213,9 | 334,1 |
| 7,00                          | 89,0                                                         | 128,1 | 227,8 | 355,9 |
| 7,50                          | 94,5                                                         | 136,0 | 241,9 | 377,9 |
| 8,00                          | 99,9                                                         | 143,9 | 255,9 | 399,7 |
| 9,00                          | 110,9                                                        | 159,7 | 284,0 | 443,7 |
| 10,00                         | 121,9                                                        | 175,4 | 312,1 | 487,5 |
| 11,00                         | 132,7                                                        | 191,1 | 339,9 |       |
| 12,00                         | 143,6                                                        | 206,7 | 367,6 |       |

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# 781

## Capacity tables for safety valves PN16

Type 01, 02, 05, 07      Sealing: -1, -2, -3

| DNxDN<br>PN16                 | 10x15                                                   | 15x15 | 20x20 | 25x25 |
|-------------------------------|---------------------------------------------------------|-------|-------|-------|
| A - actual Orifice area [mm²] | 78,5                                                    | 113   | 201   | 314   |
| Set pressure bar(g)           | Water 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |       |       |       |
| 0,30                          | 22,7                                                    | 33,1  | 59,9  | 94,5  |
| 0,35                          | 24,2                                                    | 35,3  | 63,7  | 100,4 |
| 0,40                          | 25,6                                                    | 37,3  | 67,3  | 106,1 |
| 0,45                          | 27,0                                                    | 39,2  | 70,7  | 111,5 |
| 0,50                          | 28,2                                                    | 41,0  | 74,0  | 116,6 |
| 0,55                          | 29,4                                                    | 42,8  | 77,2  | 121,6 |
| 0,60                          | 30,6                                                    | 44,5  | 80,2  | 126,3 |
| 0,65                          | 31,8                                                    | 46,1  | 83,1  | 130,9 |
| 0,70                          | 32,9                                                    | 47,7  | 86,0  | 135,3 |
| 0,75                          | 33,9                                                    | 49,3  | 88,7  | 139,6 |
| 0,80                          | 35,0                                                    | 50,8  | 91,4  | 143,8 |
| 0,90                          | 36,9                                                    | 53,6  | 96,5  | 151,9 |
| 1,00                          | 38,8                                                    | 56,4  | 101,4 | 159,5 |
| 1,10                          | 40,8                                                    | 59,2  | 106,5 | 167,5 |
| 1,20                          | 42,7                                                    | 62,0  | 111,4 | 175,2 |
| 1,30                          | 44,6                                                    | 64,6  | 116,1 | 182,6 |
| 1,50                          | 48,0                                                    | 69,6  | 125,0 | 196,5 |
| 1,60                          | 49,6                                                    | 72,0  | 129,2 | 203,1 |
| 1,80                          | 52,8                                                    | 76,5  | 137,3 | 215,7 |
| 2,00                          | 55,7                                                    | 80,8  | 144,9 | 227,7 |
| 2,20                          | 58,6                                                    | 84,8  | 152,2 | 239,1 |
| 2,40                          | 61,3                                                    | 88,7  | 159,1 | 250,0 |
| 2,60                          | 63,9                                                    | 92,5  | 165,8 | 260,4 |
| 2,80                          | 66,3                                                    | 96,1  | 172,2 | 270,5 |
| 3,00                          | 68,8                                                    | 99,5  | 178,4 | 280,2 |
| 3,50                          | 74,4                                                    | 107,7 | 193,1 | 303,1 |
| 4,00                          | 79,8                                                    | 115,4 | 206,7 | 324,5 |
| 4,50                          | 84,7                                                    | 122,6 | 219,6 | 344,6 |
| 5,00                          | 89,5                                                    | 129,4 | 231,7 | 363,6 |
| 5,50                          | 93,9                                                    | 135,9 | 243,3 | 381,7 |
| 6,00                          | 98,2                                                    | 142,1 | 254,3 | 399,0 |
| 6,50                          | 102,4                                                   | 148,0 | 264,9 | 415,5 |
| 7,00                          | 106,3                                                   | 153,7 | 275,1 | 431,5 |
| 7,50                          | 110,1                                                   | 159,2 | 284,9 | 446,9 |
| 8,00                          | 113,9                                                   | 164,6 | 294,5 | 461,8 |
| 9,00                          | 120,9                                                   | 174,8 | 312,7 | 490,3 |
| 10,00                         | 127,6                                                   | 184,4 | 329,9 | 517,2 |
| 11,00                         | 134,0                                                   | 193,6 | 346,3 |       |
| 12,00                         | 140,1                                                   | 202,4 | 361,9 |       |
| 13,00                         | 145,9                                                   | 210,8 | 377,0 |       |
| 14,00                         | 151,6                                                   | 219,0 | 391,4 |       |
| 15,00                         | 157,0                                                   | 226,8 | 405,4 |       |
| 16,00                         | 162,2                                                   | 234,4 | 418,9 |       |

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# 781

## Capacity tables for safety valves PN16

Type 03, 04, 06, 08 Sealing: -1, -2, -3

| DNxDN<br>PN16                 | 20x20                                                   | 25x25    |
|-------------------------------|---------------------------------------------------------|----------|
| A - actual Orifice area [mm²] | 201                                                     | 314      |
| Set pressure bar(g)           | Water 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |          |
| 0,30                          | 1 279,4                                                 | 2 305,1  |
| 0,35                          | 1 357,7                                                 | 2 446,0  |
| 0,40                          | 1 431,8                                                 | 2 579,2  |
| 0,45                          | 1 502,2                                                 | 2 706,0  |
| 0,50                          | 1 569,6                                                 | 2 827,1  |
| 0,55                          | 1 634,2                                                 | 2 943,3  |
| 0,60                          | 1 696,3                                                 | 3 055,1  |
| 0,65                          | 1 756,3                                                 | 3 163,0  |
| 0,70                          | 1 814,4                                                 | 3 267,4  |
| 0,75                          | 1 870,6                                                 | 3 368,6  |
| 0,80                          | 1 925,2                                                 | 3 466,8  |
| 0,90                          | 2 030,1                                                 | 3 655,4  |
| 1,00                          | 2 129,9                                                 | 3 834,9  |
| 1,10                          | 2 234,6                                                 | 4 023,1  |
| 1,20                          | 2 334,6                                                 | 4 203,0  |
| 1,30                          | 2 430,5                                                 | 4 375,5  |
| 1,50                          | 2 611,9                                                 | 4 718,4  |
| 1,60                          | 2 698,1                                                 | 4 873,1  |
| 1,80                          | 2 862,8                                                 | 5 168,7  |
| 2,00                          | 3 018,5                                                 | 5 448,3  |
| 2,20                          | 3 166,7                                                 | 5 714,2  |
| 2,40                          | 3 308,3                                                 | 5 968,3  |
| 2,60                          | 3 444,1                                                 | 6 212,0  |
| 2,80                          | 3 574,8                                                 | 6 446,5  |
| 3,00                          | 3 714,3                                                 | 6 672,8  |
| 3,50                          | 4 011,9                                                 | 7 207,4  |
| 4,00                          | 4 288,9                                                 | 7 705,0  |
| 4,50                          | 4 549,0                                                 | 8 172,4  |
| 5,00                          | 4 795,1                                                 | 8 614,5  |
| 5,50                          | 5 029,2                                                 | 9 035,0  |
| 6,00                          | 5 252,8                                                 | 9 436,7  |
| 6,50                          | 5 467,3                                                 | 9 822,0  |
| 7,00                          | 5 673,7                                                 | 10 192,8 |
| 7,50                          | 5 872,8                                                 | 10 550,6 |
| 8,00                          | 6 065,4                                                 | 10 896,6 |
| 9,00                          | 6 433,3                                                 | 11 557,6 |
| 10,00                         | 6 781,3                                                 | 12 182,7 |
| 11,00                         | 7 112,3                                                 |          |
| 12,00                         | 7 428,6                                                 |          |
| 13,00                         | 7 731,9                                                 |          |
| 14,00                         | 8 023,8                                                 |          |
| 15,00                         | 8 305,4                                                 |          |
| 16,00                         | 8 577,8                                                 |          |

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# 782

## Capacity tables for safety valves PN25

Type 01 Sealing: -1

| DN<br>PN25                    | 10                                                    | 15   | 20   | 25    |
|-------------------------------|-------------------------------------------------------|------|------|-------|
| A - actual Orifice area [mm²] | 78,5                                                  | 113  | 201  | 314   |
| Set pressure bar(g)           | Air 20°C [kg/h] in accordance with EN-ISO 4126-7:2013 |      |      |       |
| 0,7                           |                                                       |      | 169  | 230   |
| 0,75                          |                                                       |      | 177  | 237   |
| 0,8                           |                                                       |      | 185  | 248   |
| 0,9                           |                                                       |      | 198  | 267   |
| 1                             |                                                       |      | 212  | 286   |
| 1,1                           | 88,5                                                  | 127  | 227  | 307   |
| 1,2                           | 92,9                                                  | 134  | 238  | 322   |
| 1,3                           | 98,9                                                  | 142  | 253  | 344   |
| 1,4                           | 105                                                   | 151  | 269  | 366   |
| 1,5                           | 110                                                   | 158  | 281  | 382   |
| 1,6                           | 116                                                   | 167  | 297  | 405   |
| 1,7                           | 121                                                   | 174  | 309  | 421   |
| 1,8                           | 125                                                   | 180  | 321  | 437   |
| 1,9                           | 130                                                   | 187  | 333  | 462   |
| 2                             | 135                                                   | 194  | 344  | 478   |
| 2,2                           | 146                                                   | 210  | 374  | 520   |
| 2,4                           | 155                                                   | 224  | 398  | 554   |
| 2,6                           | 165                                                   | 237  | 422  | 587   |
| 2,8                           | 174                                                   | 251  | 446  | 621   |
| 3                             | 186                                                   | 268  | 477  | 654   |
| 3,5                           | 210                                                   | 303  | 539  | 738   |
| 4                             | 234                                                   | 337  | 600  | 821   |
| 4,5                           | 258                                                   | 371  | 661  | 905   |
| 5                             | 282                                                   | 406  | 722  | 989   |
| 5,5                           | 306                                                   | 440  | 783  | 1 072 |
| 6                             | 330                                                   | 474  | 844  | 1 156 |
| 6,5                           | 353                                                   | 509  | 905  | 1240  |
| 7                             | 377                                                   | 543  | 966  | 1323  |
| 7,5                           | 401                                                   | 577  | 1027 | 1407  |
| 8                             | 425                                                   | 612  | 1088 | 1491  |
| 9                             | 473                                                   | 680  | 1210 | 1658  |
| 10                            | 520                                                   | 749  | 1332 | 1825  |
| 11                            | 568                                                   | 818  | 1455 | 1993  |
| 12                            | 616                                                   | 886  | 1577 | 2160  |
| 13                            | 663                                                   | 955  | 1699 | 2327  |
| 14                            | 711                                                   | 1024 | 1821 | 2495  |
| 15                            | 759                                                   | 1092 | 1943 | 2662  |
| 16                            | 807                                                   | 1161 | 2065 | 2829  |
| 18                            | 902                                                   | 1298 | 2310 |       |
| 19                            | 950                                                   | 1367 | 2432 |       |
| 20                            | 997                                                   | 1436 | 2554 |       |
| 22                            | 1093                                                  | 1537 |      |       |
| 25                            | 1236                                                  |      |      |       |

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## Spring ranges

| Valve type | 240A C                                                                                                                                           | 240F E, 270F E                                                                                                                                                                                          | 240R E, 270R E                                            |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Type       | 01, 02, 05, 07                                                                                                                                   |                                                                                                                                                                                                         |                                                           |
|            | [bar]                                                                                                                                            |                                                                                                                                                                                                         |                                                           |
| 15x15      | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0 |                                                                                                                                                                                                         |                                                           |
| 20x20      |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0;<br>30,0...40,0 | 0,2...1,5; 1,0...5,0; 2,0...10,0; 8,0...18,0; 18,0...40,0 |
| 25x25      |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 32x32      |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 40x40      |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0                                                        |                                                           |
| 50x50      | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0 | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 65x65      | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0 | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 80x80      | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0 | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 100x100    |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0; 23,0...32,0; 30,0...40,0    |                                                           |
| 125x125    |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0                              |                                                           |
| 150x150    |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6; 2,5...3,6;<br>3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0; 9,5...12,5;<br>12,0...16,0; 15,0...20,0; 18,0...25,0                              |                                                           |
| 200x200    |                                                                                                                                                  | 0,45...0,68; 0,66...1,0; 0,95...1,4, 1,3...1,9; 1,8...2,6;<br>2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10,0;<br>9,5...12,5; 12,0...16,0                                                        |                                                           |
| Valve type | 240A C                                                                                                                                           | 240F E, 270F E                                                                                                                                                                                          | 240R E, 270R E                                            |
| Type       | 51, 52, 55, 57                                                                                                                                   |                                                                                                                                                                                                         |                                                           |
|            | [bar]                                                                                                                                            |                                                                                                                                                                                                         |                                                           |
| 15x15      | 0,45...0,7; 0,65...1,0; 0,95...1,45; 1,4...2,4; 2,3...3,6;<br>3,4...7,0; 7,2...16,0                                                              |                                                                                                                                                                                                         |                                                           |
| 20x20      | 0,45...0,65; 0,6...1,0; 0,9...1,8; 1,7...2,6; 2,5...5,0;<br>4,5...9,5; 9,0...16,0                                                                | 0,45...0,65; 0,6...1,0; 0,9...1,8; 1,7...2,6; 2,5...5,0; 4,5...9,5; 9,0...17,2; 17,0...25,0; 24,0...40,0                                                                                                |                                                           |
| 25x25      | 0,45...0,8; 0,75...1,42; 1,4...1,8; 1,7...3,2; 3,1...6,7;<br>6,6...9,0; 7,5...15,0; 11,5...16,0                                                  | 0,45...0,8; 0,75...1,42; 1,4...1,8; 1,7...3,2; 3,1...6,7; 6,6...9,0; 7,5...15,0; 11,5...17,5; 17,4...21,2; 21,0...28,1; 28,0...34,5;<br>34,0...40,0                                                     |                                                           |
| 32x32      | 0,45...0,7; 0,6...1,3; 1,2...2,7; 2,6...4,9; 4,8...6,7; 6,6...8,3;<br>8,2...11,7; 11,6...16,0                                                    | 0,45...0,7; 0,6...1,3; 1,2...2,7; 2,6...4,9; 4,8...6,7; 6,6...8,3; 8,2...11,7; 11,6...18,7; 18,6...22,9; 22,8...29,5; 29,4...35,0;<br>34,5...40,0                                                       |                                                           |
| 40x40      | 0,45...0,75; 0,7...1,4; 1,35...2,2; 2,1...3,5; 3,4...4,6;<br>4,5...6,5; 6,4...8,5; 8,4...12,5; 12,3...16,0                                       | 0,45...0,75; 0,7...1,4; 1,35...2,2; 2,1...3,5; 3,4...4,6; 4,5...6,5; 6,4...8,5; 8,4...12,5; 12,3...16,8; 16,5...30,0; 29,5...40,0                                                                       |                                                           |
| 50x50      | 0,45...0,85; 0,8...1,5; 1,4...2,0; 1,9...3,0; 2,9...5,5;<br>5,3...7,5; 7,3...11,0; 10,5...14,0; 13,5...16,0                                      | 0,45...0,85; 0,8...1,5; 1,4...2,0; 1,9...3,0; 2,9...5,5; 5,3...7,5; 7,3...11,0; 10,5...14,0; 13,5...18,0; 17,5...27,0; 27,5...34,0;<br>33,5...40,0                                                      |                                                           |
| 65x65      | 0,45...0,7; 0,6...1,0; 0,8...1,6; 1,5...2,2; 2,1...2,8; 2,5...4,0;<br>3,0...5,0; 4,0...6,0; 5,5...8,0; 7,0...10,0; 8,0...13,5;<br>12,0...16,0    | 0,45...0,7; 0,6...1,0; 0,8...1,6; 1,5...2,2; 2,1...2,8; 2,5...4,0; 3,0...5,0; 4,0...6,0; 5,5...8,0; 7,0...10,0; 8,0...13,5; 12,0...16,0;<br>15,0...22,0; 20,0...30,0; 29,0...40,0                       |                                                           |
| Valve type | 781H C                                                                                                                                           |                                                                                                                                                                                                         |                                                           |
| Type       | 01, 02, 03, 04, 05, 06, 07, 08                                                                                                                   |                                                                                                                                                                                                         |                                                           |
|            | [bar]                                                                                                                                            |                                                                                                                                                                                                         |                                                           |
| 10x15      | 0,3...0,5; 0,5...1,6; 1,5...2,8; 2,7...4,7; 4,5...9,0; 8,5...16,0                                                                                |                                                                                                                                                                                                         |                                                           |
| 15x15      | 0,3...0,5; 0,5...1,4; 1,2...2,5; 2,4...4,7; 4,5...16,0                                                                                           |                                                                                                                                                                                                         |                                                           |
| 20x20      | 0,3...0,5; 0,5...1,5; 1,4...3,3; 3,2...7,0; 6,8...16,0                                                                                           |                                                                                                                                                                                                         |                                                           |
| 25x25      | 0,3...0,5; 0,5...1,0; 0,9...1,6; 1,5...2,3; 2,2...3,0; 2,8...4,8; 4,5...6,0; 5,5...10,0                                                          |                                                                                                                                                                                                         |                                                           |

Data given can be changed without notice

Edition 01/2026

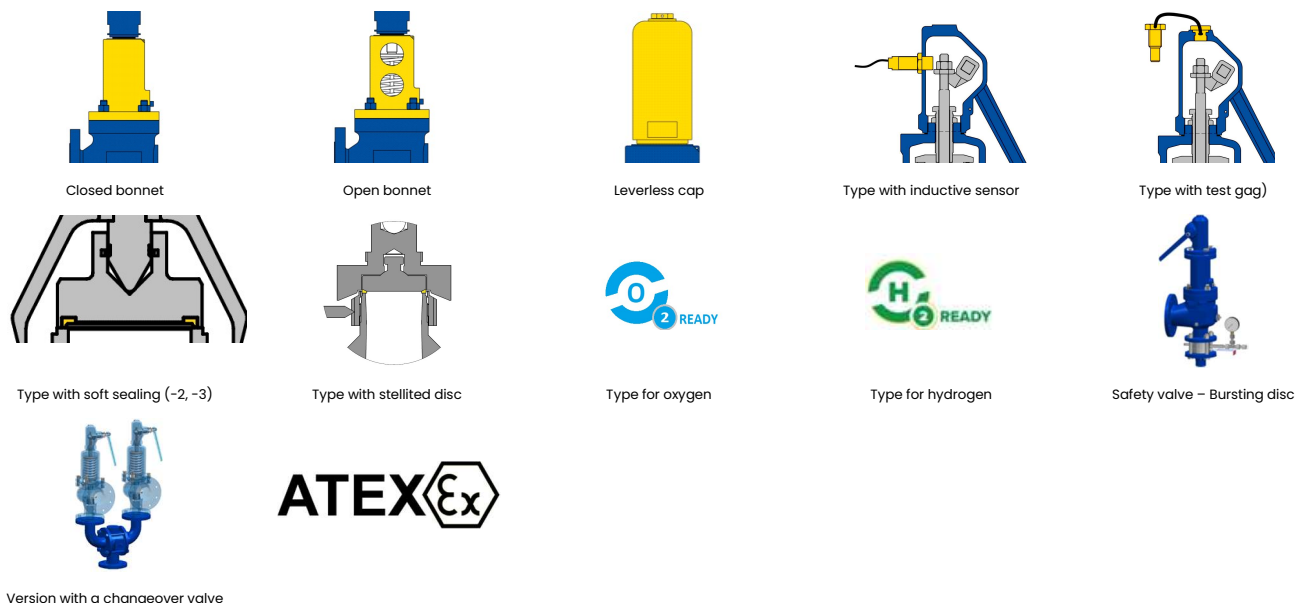
ZETKAMA Sp. z o.o.  
Ul. 3 Maja 12  
PL 57-410 Ścinawka Średnia

E-mail [export@zetkama.com.pl](mailto:export@zetkama.com.pl)  
[www.zetkama.com](http://www.zetkama.com)

| Valve type | 782V D                                                                                                     |
|------------|------------------------------------------------------------------------------------------------------------|
| Type       | 01                                                                                                         |
|            | [bar]                                                                                                      |
| 10         | 1,0...2,1; 2,0...3,2; 2,95...5,4; 5,0...8,3; 7,9...13,0; 12,9...15,9; 14,7...19,8; 18,9...25,0             |
| 15         | 1,0...2,1; 2,0...3,2; 3,1...5,15; 5,0...8,3; 7,8...13,5; 13,2...15,8; 14,8...19,7; 19,2...22,0             |
| 20         | 0,7...1,1; 0,95...1,5; 1,45...2,7; 2,5...4,1; 4,0...7,0; 6,9...10,2; 10,0...14,2; 13,5...17,8; 16,8...20,0 |
| 25         | 0,7...1,0; 0,95...2,0; 1,85...2,9; 2,85...4,85; 4,7...6,0; 5,9...10,0; 9,8...12,0; 11,1...16,0             |

Springs made of SM / SH material are marked in blue - the maximum operating temperature of the valve is 250°C

## Available options



**ATEX** 

| Valve type                      | 240 |   |   | 270 |   | 781 | 782 |
|---------------------------------|-----|---|---|-----|---|-----|-----|
|                                 | A   | F | R | F   | R | H   | V   |
| Closed bonnet                   | ✓   | ✓ | ✓ | ✓   | ✓ | ✓   | ✗   |
| Open bonnet                     | ✗   | ✓ | ✗ | ✗   | ✗ | ✗   | ✓   |
| Insert                          | ✗   | ✓ | ✗ | ✗   | ✗ | ✗   | ✗   |
| Leverless cap                   | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |
| Type with inductive sensor      | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |
| Type with test gag              | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |
| Type with soft sealing (-2, -3) | ✓   | ✓ | ✗ | ✓   | ✗ | ✗   | ✗   |
| Type with stellited disc        | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |
| EPOXY                           | ✓   | ✓ | ✗ | ✓   | ✗ | ✗   | ✗   |
| Type for oxygen <sup>1</sup>    | ✗   | ✗ | ✓ | ✗   | ✓ | ✗   | ✗   |
| Type for hydrogen <sup>2</sup>  | ✗   | ✗ | ✓ | ✗   | ✓ | ✗   | ✗   |
| Safety valve - Bursting disc    | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |
| Version with a changeover valve | ✓   | ✓ | ✓ | ✓   | ✓ | ✓   | ✗   |
| ATEX                            | ✓   | ✓ | ✓ | ✓   | ✓ | ✗   | ✗   |



Standard type



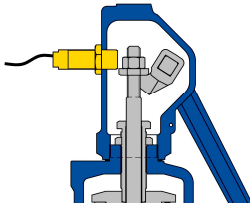
Available option



Unavailable option

<sup>1</sup> W przypadku zamawiania zaworów na tlen lub wodór należy tę informację bezwzględnie podać w zamówieniu

## Standard inductive sensors



### Operating range:

depending on valve type and diameter

### Supply voltage:

10 ÷ 30 V [DC]

### Level of protection:

IP67, IP68 (depending on sensor type)

### Working temperature:

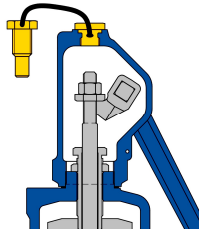
-25 ÷ 70°C

Other upon agreement with the manufacturer

### Standard cable length

2000 mm

Other sensors on request



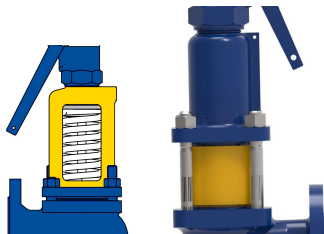
## Test gag

Test gag is for doing pressure tests in the installation without dismantling the safety valve.

It prevents the opening elements from lifting and keeps the safety valve tight when the Spindle pressure exceeds the set pressure.



After the installation has been pressure tested, the test gag must be removed, otherwise the safety valve cannot protect the installation against unacceptable overpressure!



The version with an open bonnet design is intended only for gaseous media (including steam) and is recommended for valves operating above 300°C.

For valves operating above 350°C, the use of an insulating insert is recommended (for both gaseous and liquid media).



The combination of a bursting disc and a safety valve creates a dual-layer overpressure protection system.

The bursting disc acts as a leak-tight seal during normal operation and bursts at a predetermined pressure. The safety valve then opens to relieve the excess pressure without further product loss or emissions, and recloses once the system pressure returns to operating conditions. This configuration protects the safety valve from process fluids, enables in-situ testing, extends valve service life, and reduces maintenance costs, while ensuring both tightness and reliable pressure relief.

### Key Advantages

#### Tight operation:

The bursting disc prevents leakage through the safety valve during normal service, which is ideal for environmental protection and minimizing product loss.

#### Extended valve service life:

Positioning a bursting disc upstream of the safety valve protects the valve against corrosion, contamination, and other process media that could cause sticking or increased leakage.

#### In-situ testing:

Certain reverse-acting bursting disc configurations enable in-situ testing of the safety valve without removing it from the system, saving time and costs.

#### Cost savings:

Reduced maintenance requirements, less frequent valve inspections, and avoidance of production downtime contribute to lower operating and investment costs. Reliable emergency protection: The combination provides a dependable backup system in cases of rapid or significant pressure surges, where the safety valve alone may not respond quickly enough.

If the bursting disc is equipped with a signal detection device (see options), disc activation is immediately detected and the event is transmitted to the connected process control system.

## Type with a changeover valve

The use of a changeover valve equipped with two identical safety valves enables periodic alternating testing of the safety valves on a test bench without the need to shut down the protected equipment. The use of a changeover valve equipped with two identical safety valves enables periodic, alternating testing of the safety valves on a test bench without the need to shut down the protected equipment. The use of a changeover valve is particularly important in cases where testing the operation of the safety valve directly on the pressure equipment, using a lifting lever, is not possible due to the properties of the medium, e.g. its flammability, toxicity, corrosiveness or explosiveness.

This solution is also applicable when shutting down the equipment in order to remove the safety valve and test it on a test bench is impossible or undesirable, e.g. due to the risk of the medium hardening, sticking or solidifying, as well as in continuously operating equipment.

The solution also enables the medium to be switched to the second, operational safety valve in the event of a failure of the first valve, e.g. leakage. The defective valve can then be removed and sent for refurbishment or replaced with a new one, without leaving the equipment unprotected while these activities are being carried out.



Changeover valves may be installed in the inlet and outlet lines of safety valves, provided that their design prevents the simultaneous isolation of all safety valves and that the safety valves remaining in service have sufficient flow capacity. The free cross-sectional area of the changeover valves shall not be smaller than the largest cross-sectional area of the connected piping.

When selecting a changeover valve, it should be ensured that, at the maximum flow rate, the sum of the pressure drops in the inlet line and across the changeover valve does not exceed the permissible 3% of the safety valve set pressure or, where applicable, the difference between the set pressure and the backpressure.

More information on the calculations can be found in the Safety Valve Handbook available on the website.

[https://www.zetkama.pl/wp-content/uploads/ZAWORY\\_BEZPIECZE%C5%83SWA\\_-\\_poradnik\\_doboru.pdf](https://www.zetkama.pl/wp-content/uploads/ZAWORY_BEZPIECZE%C5%83SWA_-_poradnik_doboru.pdf)

### Technical data

|                        | Carbon steel body        | CrNi body                |
|------------------------|--------------------------|--------------------------|
| DN:                    | 25 (1") ÷ 200 (8")       | 25 (1") ÷ 200 (8")       |
| PN:                    | 10 ÷ 40 (EN), 150 (ANSI) | 10 ÷ 40 (EN), 150 (ANSI) |
| Operating temperature: | -30 ÷ +250°C             | -30 ÷ +250°C             |
| Body:                  | P355 / S355              | 1.4541 / 1.4301          |
| Ball:                  | 1.4301                   | 1.4301                   |
| Ball seal:             | PTFE + Glass fiber       | PTFE + Glass fiber       |
| Stem seal:             | PTFE + Glass fiber       | PTFE + Glass fiber       |
| Ball rotation:         | 0° - 90°                 | 0° - 90°                 |

## CDTP

When "cold setting" valves at operating temperatures above 100°C (e.g. on a test stand using compressed air), corrections for the operating temperature and static backpressure should be taken into account.

Set pressure is corrected for static backpressure based on the formula:

$$p_n = p_{p0} \cdot K_1 - p_b$$

Where:

|          |                                                                |
|----------|----------------------------------------------------------------|
| $p_n$    | – set pressure (CTDP) – to be set on a test stand              |
| $p_{p0}$ | – Set pressure in the operating conditions of the installation |
| $K_1$    | – temperature correction coefficient                           |
| $p_b$    | – static back pressure                                         |

The setting should be adjusted according to the media given in the table below:

| Working medium temperature<br>°C | $K_1$ |
|----------------------------------|-------|
| Up to 100                        | 1,00  |
| 100 – 250                        | 1,02  |
| 250 – 500                        | 1,03  |
| Over 500                         | 1,04  |

## Valve weight

| Figure | Body material | d <sub>1</sub> x d <sub>2</sub> |       |       |       |       |       |       |       |       |         |         |         |         |
|--------|---------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
|        |               | 10x15                           | 15x15 | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
|        |               | Weight [kg] <sup>2</sup>        |       |       |       |       |       |       |       |       |         |         |         |         |
| 240    | A             |                                 | 6,0   | 6,0   | 8,0   | 10,0  | 12,0  | 20,0  | 25,0  | 36,0  | 47,0    | 74,0    | 100,0   | 140,0   |
|        | F             |                                 |       | 7,0   | 9,0   | 12,0  | 14,0  | 22,0  | 28,0  | 40,0  | 52,0    | 80,0    | 110,0   | 150,0   |
|        | R             |                                 |       |       |       |       |       |       |       |       |         |         |         |         |
| 270    | F             |                                 |       | 6,5   | 8,0   | 11,0  | 12,5  | 20,0  |       |       |         |         |         |         |
|        | R             |                                 |       |       |       |       |       |       |       |       |         |         |         |         |
| 781    | H             | 0,67                            | 0,71  | 0,86  | 1,2   |       |       |       |       |       |         |         |         |         |
| 782    | V             | 0,415                           | 0,415 | 0,435 | 0,460 |       |       |       |       |       |         |         |         |         |

## Approvals



**Validity: 19 February 2034**

EN ISO 4126:2013, ASME B16.34 : 2022, EN 12516-1 :2014, EN 12516-2 :2014, ASME XIII



## HYGIENIC CERTIFICATE FOR DRINKING WATER

## Selection program

The selection program is a program developed by ZETKAMA for performing safety valve calculations. It allows for calculating safety valves in accordance with the following standards and codes:

- EN ISO 4126-7
- API 520

The programme is available at: <https://valve.zetkama.pl/>

## Required data for valve sizing

|                               |                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steam and gases<br><b>s/g</b> | Set pressure [bar], back pressure [bar], back pressure type (constant/variable), mass flow [kg/h],<br>Fluids and its data: density [kg/m <sup>3</sup> ], viscosity, temperature [°C]               |
| Liquids<br><b>L</b>           | Set pressure [bar], back pressure [bar], back pressure type (constant/variable), mass flow [kg/h],<br>Fluids and its data: Molar mass [kg/kmol], (Cp/Cv), Compressibility factor, temperature [°C] |

<sup>2</sup> The given weights refer to the standard valve version. They do not include versions with an insulating insert

Data given can be changed without notice

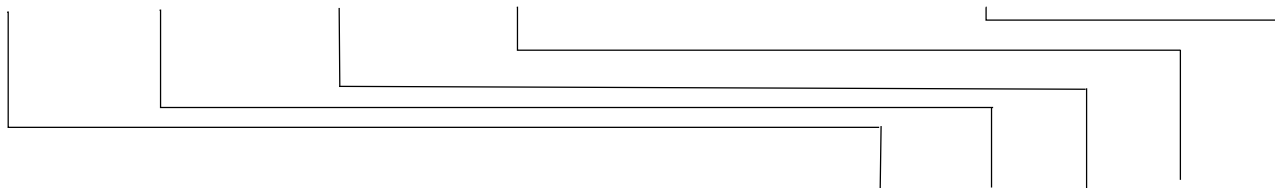
Edition 01/2026

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[www.zetkama.com](http://www.zetkama.com)

## Ordering

| Figure | Body material                     | Nominal diameter | Nominal pressure | Type                                                                       |
|--------|-----------------------------------|------------------|------------------|----------------------------------------------------------------------------|
| 240    | A<br>grey cast iron<br>EN-GJL-250 | 15-200<br>mm     | C<br>16 bar      | 01-1<br>Standard type for liquids, steam, gases, uszczelnienie metal/metal |



### Order example by index

|                                                                    |     |   |     |   |     |
|--------------------------------------------------------------------|-----|---|-----|---|-----|
| Full-lift spring flanged safety valve                              | 240 | A | 050 | C | 011 |
| Grey cast iron EN-GJL-250                                          | 240 | A |     |   |     |
| Nominal diameter (mm)                                              |     |   | 050 |   |     |
| Nominal pressure PN 16                                             |     |   |     | C |     |
| Standard type for liquids, steam, gases, uszczelnienie metal/metal |     |   |     |   | 011 |

## Types

| Types |                                                                        | Sealing |             |
|-------|------------------------------------------------------------------------|---------|-------------|
| 01    | Standard type for steam, gases and liquids                             | -1      | metal-metal |
| 01    | Standard type for steam and gases (only for figure 782)                | -2      | NBR         |
| 02    | Gastight type for steam, gases and liquids                             | -3      | EPDM        |
| 03    | Type for liquids (only for figure 781)                                 |         |             |
| 04    | Gastight type for liquids (only for figure 781)                        |         |             |
| 05    | Marine type for steam, gases and liquids                               |         |             |
| 06    | Marine type for liquids (only for figure 781)                          |         |             |
| 07    | Marine gastight type for steam, gases and liquids                      |         |             |
| 08    | Marine gastight type for liquids (only for figure 781)                 |         |             |
| 51    | Standard type, with extended seat, for steam, gases and liquids        |         |             |
| 52    | Gastight type, with extended seat, for steam, gases and liquids        |         |             |
| 55    | Marine type, with extended seat, for steam, gases and liquids          |         |             |
| 57    | Marine gastight type, with extended seat, for steam, gases and liquids |         |             |

## Trade markings

### PN16

| Material |             | EN-GJL-250  |             |             |             |             |             |             |             |             |             |             |             |  |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Mark     |             | A           |             |             |             |             |             |             |             |             |             |             |             |  |
| DN →     |             | 15x15       | 20x20       | 25x25       | 32x32       | 40x40       | 50x50       | 65x65       | 80x80       | 100x100     | 125x125     | 150x150     | 200x200     |  |
| 240      | 01-1        | 240A015C011 | 240A020C011 | 240A025C011 | 240A032C011 | 240A040C011 | 240A050C011 | 240A065C011 | 240A080C011 | 240A100C011 | 240A125C011 | 240A150C011 | 240A200C011 |  |
|          | 01-2        |             |             | 240A025C012 | 240A032C012 | 240A040C012 | 240A050C012 | 240A065C012 | 240A080C012 | 240A100C012 | 240A125C012 |             |             |  |
|          | 01-3        |             |             | 240A025C013 | 240A032C013 | 240A040C013 | 240A050C013 | 240A065C013 | 240A080C013 | 240A100C013 | 240A125C013 |             |             |  |
|          | 02-1        | 240A015C021 | 240A020C021 | 240A025C021 | 240A032C021 | 240A040C021 | 240A050C021 | 240A065C021 | 240A080C021 | 240A100C021 | 240A125C021 | 240A150C021 | 240A200C021 |  |
|          | 02-2        |             |             | 240A025C022 | 240A032C022 | 240A040C022 | 240A050C022 | 240A065C022 | 240A080C022 | 240A100C022 | 240A125C022 |             |             |  |
|          | 02-3        |             |             | 240A025C023 | 240A032C023 | 240A040C023 | 240A050C023 | 240A065C023 | 240A080C023 | 240A100C023 | 240A125C023 |             |             |  |
|          | 05-1        | 240A015C051 | 240A020C051 | 240A025C051 | 240A032C051 | 240A040C051 | 240A050C051 | 240A065C051 | 240A080C051 | 240A100C051 | 240A125C051 | 240A150C051 | 240A200C051 |  |
|          | 05-2        |             |             | 240A025C052 | 240A032C052 | 240A040C052 | 240A050C052 | 240A065C052 | 240A080C052 | 240A100C052 | 240A125C052 |             |             |  |
|          | 05-3        |             |             | 240A025C053 | 240A032C053 | 240A040C053 | 240A050C053 | 240A065C053 | 240A080C053 | 240A100C053 | 240A125C053 |             |             |  |
|          | 07-1        | 240A015C071 | 240A020C071 | 240A025C071 | 240A032C071 | 240A040C071 | 240A050C071 | 240A065C071 | 240A080C071 | 240A100C071 | 240A125C071 | 240A150C071 | 240A200C071 |  |
|          | 07-2        |             |             | 240A025C072 | 240A032C072 | 240A040C072 | 240A050C072 | 240A065C072 | 240A080C072 | 240A100C072 | 240A125C072 |             |             |  |
|          | 07-3        |             |             | 240A025C073 | 240A032C073 | 240A040C073 | 240A050C073 | 240A065C073 | 240A080C073 | 240A100C073 | 240A125C073 |             |             |  |
|          | 51-1        | 240A015C511 | 240A020C511 | 240A025C511 | 240A032C511 | 240A040C511 | 240A050C511 |             |             |             |             |             |             |  |
|          | 52-1        | 240A015C521 | 240A020C521 | 240A025C521 | 240A032C521 | 240A040C521 | 240A050C521 |             |             |             |             |             |             |  |
| 55-1     | 240A015C551 | 240A020C551 | 240A025C551 | 240A032C551 | 240A040C551 | 240A050C551 |             |             |             |             |             |             |             |  |
| 57-1     | 240A015C571 | 240A020C571 | 240A025C571 | 240A032C571 | 240A040C571 | 240A050C571 |             |             |             |             |             |             |             |  |

| Material |      | CuZn39Pb1AlC |             |             |             |
|----------|------|--------------|-------------|-------------|-------------|
| Mark     |      | H            |             |             |             |
| DN →     |      | 10x15        | 15x15       | 20x20       | 25x25       |
| 781      | 01-1 | 781H010C011  | 781H015C011 | 781H020C011 | 781H025C011 |
|          | 01-2 | 781H010C012  | 781H015C012 | 781H020C012 | 781H025C012 |
|          | 01-3 | 781H010C013  | 781H015C013 | 781H020C013 | 781H025C013 |
|          | 02-1 | 781H010C021  | 781H015C021 | 781H020C021 | 781H025C021 |
|          | 02-2 | 781H010C022  | 781H015C022 | 781H020C022 | 781H025C022 |
|          | 02-3 | 781H010C023  | 781H015C023 | 781H020C023 | 781H025C023 |
|          | 03-1 |              |             | 781H020C031 | 781H025C031 |
|          | 03-2 |              |             | 781H020C032 | 781H025C032 |
|          | 03-3 |              |             | 781H020C033 | 781H025C033 |
|          | 04-1 |              |             | 781H020C041 | 781H025C041 |
|          | 04-2 |              |             | 781H020C042 | 781H025C042 |
|          | 04-3 |              |             | 781H020C043 | 781H025C043 |
|          | 05-1 |              |             | 781H010C051 | 781H015C051 |
|          | 05-2 | 781H010C052  | 781H015C052 | 781H020C052 | 781H025C052 |
|          | 05-3 | 781H010C053  | 781H015C053 | 781H020C053 | 781H025C053 |
|          | 06-1 |              |             | 781H020C061 | 781H025C061 |
|          | 06-2 |              |             | 781H020C062 | 781H025C062 |
|          | 06-3 |              |             | 781H020C063 | 781H025C063 |
|          | 07-1 | 781H010C071  | 781H015C071 | 781H020C071 | 781H025C071 |
|          | 07-2 | 781H010C072  | 781H015C072 | 781H020C072 | 781H025C072 |
|          | 07-3 | 781H010C073  | 781H015C073 | 781H020C073 | 781H025C073 |
|          | 08-1 |              |             | 781H020C081 | 781H025C081 |
|          | 08-2 |              |             | 781H020C082 | 781H025C082 |
|          | 08-3 |              |             | 781H020C083 | 781H025C083 |

### PN25

| Material |      | CuZn40Pb2   |  |  |             |  |  |             |  |  |             |  |  |
|----------|------|-------------|--|--|-------------|--|--|-------------|--|--|-------------|--|--|
| Mark     |      | V           |  |  |             |  |  |             |  |  |             |  |  |
| DN →     |      | 10          |  |  | 15          |  |  | 20          |  |  | 25          |  |  |
| 782      | 01-1 | 782V010D011 |  |  | 782V015D011 |  |  | 782V020D011 |  |  | 782V025D011 |  |  |

Data given can be changed without notice

Edition 01/2026

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| PN40     |      |              |             |             |             |             |             |             |             |             |             |             |
|----------|------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Material |      | GP240GH      |             |             |             |             |             |             |             |             |             |             |
| Mark     |      | F            |             |             |             |             |             |             |             |             |             |             |
| DN →     |      | 20x20        | 25x25       | 32x32       | 40x40       | 50x50       | 65x65       | 80x80       | 100x100     | 125x125     | 150x150     | 200x200     |
| 240      | 01-1 | 240F020E01I  | 240F025E01I | 240F032E01I | 240F040E01I | 240F050E01I | 240F065E01I | 240F080E01I | 240F100E01I | 240F125E01I | 240F150E01I | 240F200E01I |
|          | 01-2 |              | 240F025E012 | 240F032E012 | 240F040E012 | 240F050E012 | 240F065E012 | 240F080E012 | 240F100E012 | 240F125E012 |             |             |
|          | 01-3 |              | 240F025E013 | 240F032E013 | 240F040E013 | 240F050E013 | 240F065E013 | 240F080E013 | 240F100E013 | 240F125E013 |             |             |
|          | 02-1 | 240F020E02I  | 240F025E02I | 240F032E02I | 240F040E02I | 240F050E02I | 240F065E02I | 240F080E02I | 240F100E02I | 240F125E02I | 240F150E02I | 240F200E02I |
|          | 02-2 |              | 240F025E022 | 240F032E022 | 240F040E022 | 240F050E022 | 240F065E022 | 240F080E022 | 240F100E022 | 240F125E022 |             |             |
|          | 02-3 |              | 240F025E023 | 240F032E023 | 240F040E023 | 240F050E023 | 240F065E023 | 240F080E023 | 240F100E023 | 240F125E023 |             |             |
|          | 05-1 | 240F020E05I  | 240F025E05I | 240F032E05I | 240F040E05I | 240F050E05I | 240F065E05I | 240F080E05I | 240F100E05I | 240F125E05I | 240F150E05I | 240F200E05I |
|          | 05-2 |              | 240F025E052 | 240F032E052 | 240F040E052 | 240F050E052 | 240F065E052 | 240F080E052 | 240F100E052 | 240F125E052 |             |             |
|          | 05-3 |              | 240F025E053 | 240F032E053 | 240F040E053 | 240F050E053 | 240F065E053 | 240F080E053 | 240F100E053 | 240F125E053 |             |             |
|          | 07-1 | 240F020E07I  | 240F025E07I | 240F032E07I | 240F040E07I | 240F050E07I | 240F065E07I | 240F080E07I | 240F100E07I | 240F125E07I | 240F150E07I | 240F200E07I |
|          | 07-2 |              | 240F025E072 | 240F032E072 | 240F040E072 | 240F050E072 | 240F065E072 | 240F080E072 | 240F100E072 | 240F125E072 |             |             |
|          | 07-3 |              | 240F025E073 | 240F032E073 | 240F040E073 | 240F050E073 | 240F065E073 | 240F080E073 | 240F100E073 | 240F125E073 |             |             |
|          | 51-1 | 240F020E51I  | 240F025E51I | 240F032E51I | 240F040E51I | 240F050E51I |             |             |             |             |             |             |
|          | 52-1 | 240F020E52I  | 240F025E52I | 240F032E52I | 240F040E52I | 240F050E52I |             |             |             |             |             |             |
|          | 55-1 | 240F020E55I  | 240F025E55I | 240F032E55I | 240F040E55I | 240F050E55I |             |             |             |             |             |             |
|          | 57-1 | 240F020E57I  | 240F025E57I | 240F032E57I | 240F040E57I | 240F050E57I |             |             |             |             |             |             |
| DN →     |      | 20x20        | 25x25       | 32x32       | 40x40       | 50x50       | 65x65       | 80x80       | 100x100     | 125x125     | 150x150     | 200x200     |
| 270      | 01-1 | 270F020E01I  | 270F025E01I | 270F032E01I | 270F040E01I | 270F050E01I |             |             |             |             |             |             |
|          | 01-2 |              | 270F025E012 | 270F032E012 | 270F040E012 | 270F050E012 |             |             |             |             |             |             |
|          | 01-3 |              | 270F025E013 | 270F032E013 | 270F040E013 | 270F050E013 |             |             |             |             |             |             |
|          | 02-1 | 270F020E02I  | 270F025E02I | 270F032E02I | 270F040E02I | 270F050E02I |             |             |             |             |             |             |
|          | 02-2 |              | 270F025E022 | 270F032E022 | 270F040E022 | 270F050E022 |             |             |             |             |             |             |
|          | 02-3 |              | 270F025E023 | 270F032E023 | 270F040E023 | 270F050E023 |             |             |             |             |             |             |
|          | 05-1 | 270F020E05I  | 270F025E05I | 270F032E05I | 270F040E05I | 270F050E05I |             |             |             |             |             |             |
|          | 05-2 |              | 270F025E052 | 270F032E052 | 270F040E052 | 270F050E052 |             |             |             |             |             |             |
|          | 05-3 |              | 270F025E053 | 270F032E053 | 270F040E053 | 270F050E053 |             |             |             |             |             |             |
|          | 07-1 | 270F020E07I  | 270F025E07I | 270F032E07I | 270F040E07I | 270F050E07I |             |             |             |             |             |             |
|          | 07-2 |              | 270F025E072 | 270F032E072 | 270F040E072 | 270F050E072 |             |             |             |             |             |             |
|          | 07-3 |              | 270F025E073 | 270F032E073 | 270F040E073 | 270F050E073 |             |             |             |             |             |             |
|          | 51-1 | 270F020E51I  | 270F025E51I | 270F032E51I | 270F040E51I | 270F050E51I |             |             |             |             |             |             |
|          | 52-1 | 270F020E52I  | 270F025E52I | 270F032E52I | 270F040E52I | 270F050E52I |             |             |             |             |             |             |
|          | 55-1 | 270F020E55I  | 270F025E55I | 270F032E55I | 270F040E55I | 270F050E55I |             |             |             |             |             |             |
|          | 57-1 | 270F020E57I  | 270F025E57I | 270F032E57I | 270F040E57I | 270F050E57I |             |             |             |             |             |             |
| Material |      | GX5CrNi19-10 |             |             |             |             |             |             |             |             |             |             |
| Mark     |      | R            |             |             |             |             |             |             |             |             |             |             |
| DN →     |      | 20x20        | 25x25       | 32x32       | 40x40       | 50x50       | 65x65       | 80x80       | 100x100     |             |             |             |
| 240      | 01-1 | 240R020E01I  | 240R025E01I | 240R032E01I | 240R040E01I | 240R050E01I | 240R065E01I | 240R080E01I | 240R100E01I |             |             |             |
|          | 02-1 | 240R020E02I  | 240R025E02I | 240R032E02I | 240R040E02I | 240R050E02I | 240R065E02I | 240R080E02I | 240R100E02I |             |             |             |
|          | 51-1 | 240R020E51I  | 240R025E51I | 240R032E51I | 240R040E51I | 240R050E51I |             |             |             |             |             |             |
|          | 52-1 | 240R020E52I  | 240R025E52I | 240R032E52I | 240R040E52I | 240R050E52I |             |             |             |             |             |             |
| DN →     |      | 20x20        | 25x25       | 32x32       | 40x40       | 50x50       | 65x65       | 80x80       | 100x100     |             |             |             |
| 270      | 01-1 | 270R020E01I  | 270R025E01I | 270R032E01I | 270R040E01I | 270R050E01I |             |             |             |             |             |             |
|          | 02-1 | 270R020E02I  | 270R025E02I | 270R032E02I | 270R040E02I | 270R050E02I |             |             |             |             |             |             |
|          | 51-1 | 270R020E51I  | 270R025E51I | 270R032E51I | 270R040E51I | 270R050E51I |             |             |             |             |             |             |
|          | 52-1 | 270R020E52I  | 270R025E52I | 270R032E52I | 270R040E52I | 270R050E52I |             |             |             |             |             |             |