

FIG.240



**PROPORTIONAL SAFETY VALVE zARMAK**



| Body material             | Nominal pressure | Nominal diameter | Max. temperature | Ex. index |
|---------------------------|------------------|------------------|------------------|-----------|
| A<br>Grey cast iron       | C<br>16 bar      | DN<br>15-200     | 300°C            | 2501      |
| F<br>Cast steel           | E<br>40 bar      | DN<br>20-200     | 450°C            | 2302      |
| F<br>Cast steel           | E<br>40 bar      | DN<br>20-200     | 400°C            | 2502      |
| R<br>Cast stainless steel | E<br>40 bar      | DN<br>20-100     | 300°C            | 2502CrNi  |

**CE 0045**  
for standard valves

**CE 1433**  
for valves made of insert

**FEATURES**

- connection dimensions of flanges PN-EN 1092
  - valves produced in accordance with the requirements of PN-EN ISO 4126-1
  - a high degree of tightness
- In the case of valves with soft seals:
- quiet operation of the valve
  - increased tightness of the closure
  - protection of disc sealing surface against limescale settling (when the factor is industrial and drinking water) and against minor mechanical impurities

**APPLICATION\***

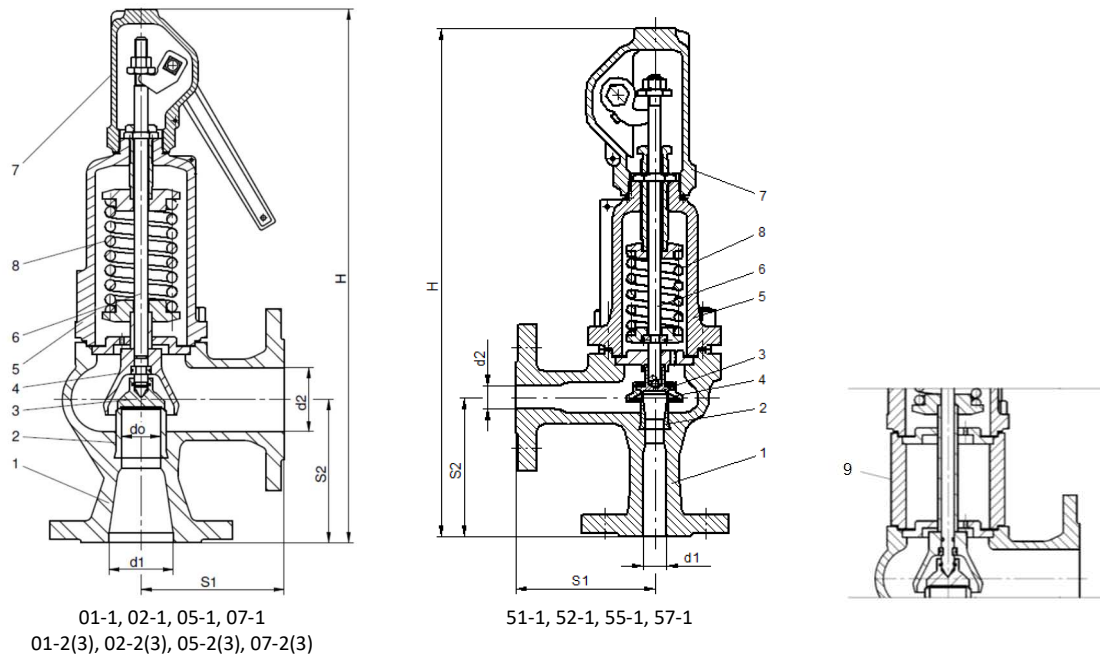
\*not all applications are suitable for any material production

|            |                                                                                                       |                                                                                                                 |                                                                                                                  |                                                                                                         |                                                                                                                               |                                                                                                         |                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| industries | <br>INDUSTRY       | <br>SHIPBUILDING<br>INDUSTRY | <br>PETROCHEMICAL<br>INDUSTRY | <br>HEATING          | <br>REFRIGERATION AND<br>AIR CONDITIONING | <br>GAS            | <br>POWER<br>ENGINEERING |
| media      | <br>DRINKING WATER | <br>WASTE WATER              | <br>GLYCOL                    | <br>INDUSTRIAL WATER | <br>VAPOURS                               | <br>COMPRESSED AIR | <br>NEUTRAL FLUIDS       |

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FIG.240

**MATERIALS, DIMENSIONS PN16 and PN40**


|                   | Body material | A                                             |                        |                                                  |
|-------------------|---------------|-----------------------------------------------|------------------------|--------------------------------------------------|
|                   |               | standard                                      | with extended seat     | with soft seal                                   |
|                   | Type          | 01-1, 02-1, 05-1, 07-1                        | 51-1, 52-1, 55-1, 57-1 | 01-2(3), 02-2(3), 05-2(3), 07-2(3)               |
| 1                 | Body          | EN-GJL-250<br>5.1301                          |                        |                                                  |
| 2                 | Seat          | X39CrMo17-1<br>1.4122                         |                        |                                                  |
| 3                 | Disc          | X39CrMo17-1<br>1.4122                         | X39CrMo17-1<br>1.4122  | X6CrNiTi18-10/EPDM OR/NBR<br>1.4541/EPDM OR /NBR |
| 4                 | Bell          | EN-GJS-400-15<br>5.3106                       | X20Cr13<br>1.4021      | EN-GJS-400-15<br>5.3106                          |
| 5                 | Bonnet        | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 |                        |                                                  |
| 6                 | Spindle       | X20Cr13*<br>1.4021                            |                        |                                                  |
| 7                 | Cap           | EN-GJL-250 / EN-GJS-400-15<br>5.1301 / 5.3106 |                        |                                                  |
| 8                 | Spring        | 51CrV4**<br>1.8159                            |                        |                                                  |
| Temperature range |               | -10...300°C***                                |                        | -10...120°C EPDM<br>-10...90°C NBR               |

\* For marine production (05-07-, 55-, 57-) spindle made of X17CrNi16 material-2

\*\* Springs with wire diameter  $\Phi 6$ , of patented wire, max. operating temperature then is 250°C

\*\*\* For vapours boilers are limits according to WUDT-CA-WO-M, i.e. 10 bar and 200°C

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

|                   | Body material | F                       |                        |                                                   | R                       |                    |
|-------------------|---------------|-------------------------|------------------------|---------------------------------------------------|-------------------------|--------------------|
|                   | Type          | standard                | with extended seat     | with soft seal                                    | standard                | with extended seat |
|                   |               | 01-1, 02-1, 05-1, 07-1  | 51-1, 52-1, 55-1, 57-1 | 01-2 (3), 02-2(3), 05-2(3), 07-2(3)               | 01-1, 02-1              | 51-1, 52-1         |
| 1                 | Body          | GP240GH<br>1.0619       |                        |                                                   | GX5CrNi19-10<br>1.4308  |                    |
| 2                 | Seat          | X39CrMo17-1<br>1.4122   |                        |                                                   | X6CrNiTi18-10<br>1.4541 |                    |
| 3                 | Disc          | X39CrMo17-1<br>1.4122   |                        | X6CrNiTi18-10/EPDM OR /NBR<br>1.4541/EPDM OR /NBR | X6CrNiTi18-10<br>1.4541 |                    |
| 4                 | Bell          | EN-GJS-400-15<br>5.3106 | X20Cr13<br>1.4021      | EN-GJS-400-15<br>5.3106                           | X6CrNiTi18-10<br>1.4541 |                    |
| 5                 | Bonnet        | GP240GH<br>5.3106       |                        | EN-GJS-400-15<br>5.3106                           | GX5CrNi19-10<br>1.4308  |                    |
| 6                 | Spindle       | X20Cr13*<br>1.4021      |                        |                                                   | X6CrNiTi18-10<br>1.4541 |                    |
| 7                 | Cap           | EN-GJS-400-15<br>5.3106 |                        |                                                   | GX5CrNi19-10<br>1.4308  |                    |
| 8                 | Spring        | 51CrV4**<br>1.8159      |                        |                                                   | X10CrNi18-10<br>1.4310  |                    |
| 9                 | Insert        | P245GH<br>1.0352        |                        | -----                                             |                         |                    |
| Temperature range |               | -40...400 °C***         |                        | -40...120°C EPDM<br>-10...90°C NBR                | -196...300°C            |                    |

\* For marine production (05-,07-,55-, 57-) spindle made of X17CrNi16 material-2

\*\* Springs with wire diameter  $\Phi 6$ , of patented wire, max. operating temperature then is 250°C

For the open valve construction, max. temperature is 450°C

The open valve only for water vapor and other vapours and gases.

| Body material                                                  |     | Type                                    | A (PN16) |       |       |       |       |       |       |       |         |         |         |         |
|----------------------------------------------------------------|-----|-----------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| DN                                                             |     |                                         | 15x15    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| d <sub>o</sub> (mm)                                            |     |                                         | 12       | 12    | 16    | 20    | 25    | 32    | 40    | 50    | 63      | 77      | 93      | 110     |
| A (mm <sup>2</sup> )                                           |     |                                         | 113      | 113   | 201   | 314   | 491   | 804   | 1257  | 1964  | 3117    | 4657    | 6793    | 9503    |
| S <sub>1</sub> (mm)                                            |     |                                         | 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     |
| Pressure<br>at the<br>beginnin<br>g of the<br>opening<br>(bar) | min | Standard<br>01, 02, 05, 07              | 0,45     |       |       |       |       |       |       |       |         |         |         |         |
|                                                                | max |                                         | 16*      |       |       |       |       |       |       |       |         |         |         |         |
|                                                                | min | with extended<br>seat<br>51, 52, 55, 57 | 0,45     |       |       |       |       |       | -     |       |         |         |         |         |
|                                                                | max |                                         | 16*      |       |       |       |       |       |       |       |         |         |         |         |
|                                                                | min | with soft seal                          | -        |       | 1     |       |       |       |       |       |         | -       |         |         |
|                                                                | max |                                         | -        |       | 16    |       |       |       |       |       |         |         |         |         |
| Weight (kg)                                                    |     |                                         | 6,0      | 6,0   | 8,0   | 10,0  | 12,0  | 20,0  | 25,0  | 36,0  | 47,0    | 74,0    | 100,0   | 140,0   |

\*For vapours boilers restrictions arising from WUDT-CA-WO-M-IE rules apply. 10 bar and 200°C

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

| Body material                                  |                | Type                                 | F, R (PN40) |       |       |       |       |       |       |         |         |         |         |
|------------------------------------------------|----------------|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| DN                                             |                |                                      | 20x20       | 25x25 | 32x32 | 40x40 | 50x50 | 65x65 | 80x80 | 100x100 | 125x125 | 150x150 | 200x200 |
| d <sub>o</sub> (mm)                            |                |                                      | 12          | 16    | 20    | 25    | 32    | 40    | 50    | 63      | 77      | 93      | 110     |
| A (mm <sup>2</sup> )                           |                |                                      | 113         | 201   | 314   | 491   | 804   | 1257  | 1964  | 3117    | 4657    | 6793    | 9503    |
| S <sub>1</sub> (mm)                            |                |                                      | 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)                                         | without insert |                                      | 335         | 350   | 390   | 420   | 485   | 540   | 655   | 705     | 815     | 850     | 980     |
|                                                | with insert    |                                      | -           | 410   | 460   | 495   | 575   | 645   | 765   | 835     | 955     | -       | -       |
| Pressure of the beginning of the opening (bar) | min            | Standard<br>01, 02, 05, 07           | 0,45 (0,2)* |       |       |       |       |       |       |         |         |         |         |
|                                                | max            |                                      | 40          |       |       |       |       |       |       |         |         | 25      | 16      |
|                                                | min            | with extended seat<br>51, 52, 55, 57 | 0,45        |       |       |       |       | -     |       |         |         |         |         |
|                                                | max            |                                      | 40          |       |       |       |       |       |       |         |         |         |         |
|                                                | min            | with soft seal                       | -           | 1     |       |       |       |       |       |         |         | -       |         |
|                                                | max            |                                      | -           | 40    |       |       |       |       |       |         |         |         |         |
| Weight (kg)                                    |                |                                      | 7,0         | 9,0   | 12,0  | 14,0  | 22,0  | 28,0  | 40,0  | 52,0    | 80,0    | 110,0   | 150,0   |

\* The value in parentheses relates to the body made of R materials (standard type)

For temperatures above 350°C, it is recommended type with an insert.

### DISCHARGE COEFFICIENTS PN 16 and PN 40

| Media                                                                                                                                                       | Ranges                                                                      | DN      |         |         |         |         |         |         |         |           |           |         |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
|                                                                                                                                                             |                                                                             | 15 x 15 | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
| Body material: A, F, R<br>Standard type: 01-1, 02-1, 05-1, 07-1<br>Type with soft seal: 01-2 (3), 02-2(3), 05-2(3), 07-2(3)<br>Nominal pressure: PN16, PN40 |                                                                             |         |         |         |         |         |         |         |         |           |           |         |           |
| S/G                                                                                                                                                         | b <sub>1</sub> = 0,1 bar for p ≤ 1 bar<br>b <sub>1</sub> = 10% for p >1 bar | 0.25    |         |         |         |         |         |         |         |           |           |         |           |
| L                                                                                                                                                           | b <sub>1</sub> = 0,1 bar for p ≤ 1 bar<br>b <sub>1</sub> = 10% for p >1 bar | 0.006   |         |         |         |         |         |         |         |           |           |         |           |
| Body material: A, F ,R<br>Type with extended seat: 51-1, 52-1, 55-1, 57-1<br>Nominal pressure: PN16, PN40                                                   |                                                                             |         |         |         |         |         |         |         |         |           |           |         |           |
| S/G                                                                                                                                                         | b <sub>1</sub> = 0,1 bar for p ≤ 1 bar<br>b <sub>1</sub> = 10% for p >1 bar | 0,4     |         |         |         |         | -       |         |         |           |           |         |           |
| L                                                                                                                                                           | b <sub>1</sub> = 0,1 bar for p ≤ 1 bar<br>b <sub>1</sub> = 10% for p >1 bar | 0,3     |         |         |         |         |         |         |         |           |           |         |           |

### PRESSURE-TEMPERATURE RATINGS

|              | PN |     | -40<br>(-10*)°C | RT   | 50 °C | 100 °C | 150 °C | 200 °C | 250 °C | 300 °C | 350 °C | 400 °C | 450 °C |
|--------------|----|-----|-----------------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| EN-GJL-250   | 16 | bar | 16              | 16   | 16    | 16     | 14.4   | 12.8   | 11.2   | 9.6    |        |        |        |
| GP240GH      | 40 |     | 30              | 40   | 40    | 40     | 38.1   | 35     | 32     | 28     | 25.7   | 23.8   | 18.1   |
| GX5CrNi19-10 |    |     | 38              | 37.6 | 35.6  | 27.6   | 24.9   | 22.6   | 21     | 19.6   |        |        |        |

\*The minimum temperature for cast iron valves

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

## CAPACITY TABLE FOR AIR (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                              | 15 x 15         | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|--------------------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm <sup>2</sup> ] | 113             | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure at the beginning of bar opening (g)     | Air 20°C [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 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      |
| 3.25                                             | 110             | 110     | 195     | 305     | 477     | 782     | 1222    | 1909    | 3030      | 4527      | 6603    | 9238      |
| 3.50                                             | 116             | 116     | 207     | 324     | 506     | 829     | 1295    | 2024    | 3212      | 4799      | 7000    | 9793      |
| 3.75                                             | 123             | 123     | 219     | 342     | 535     | 875     | 1369    | 2139    | 3394      | 5071      | 7397    | 10348     |
| 4.00                                             | 130             | 130     | 231     | 360     | 563     | 922     | 1442    | 2253    | 3576      | 5343      | 7794    | 10903     |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

CAPACITY TABLE FOR AIR (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                          | 15 x 15         | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|----------------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm²]          | 113             | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure at the beginning of bar opening (g) | Air 20°C [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 4.25                                         | 136.3           | 136.3   | 242.4   | 379     | 592     | 969     | 1516    | 2368    | 3758      | 5615      | 8191    | 11459     |
| 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     |         |           |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

CAPACITY TABLE FOR AIR (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15           | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|-----------------------------------------------------|-----------------|-------|-------|-------|-------|-------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113             | 113   | 201   | 314   | 491   | 804   |
| Pressure at the beginning of<br>bar opening (g)     | Air 20°C [kg/h] |       |       |       |       |       |
| 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 |
| 3,25                                                | 176             | 176   | 313   | 488   | 764   | 1 250 |
| 3,50                                                | 186             | 186   | 331   | 518   | 810   | 1 326 |
| 3,75                                                | 197             | 197   | 350   | 547   | 855   | 1 401 |
| 4,00                                                | 207             | 207   | 369   | 576   | 901   | 1 476 |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

## CAPACITY TABLE FOR AIR (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15           | 20x20 | 25x25 | 32x32 | 40x40 | 50x50  |
|-----------------------------------------------------|-----------------|-------|-------|-------|-------|--------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113             | 113   | 201   | 314   | 491   | 804    |
| Pressure at the beginning of<br>bar opening (g)     | Air 20°C [kg/h] |       |       |       |       |        |
| 4,25                                                | 218             | 218   | 388   | 606   | 947   | 1 551  |
| 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 |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

## CAPACITY TABLE FOR WATER (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                              | 15 x 15           | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|--------------------------------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm <sup>2</sup> ] | 113               | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure at the beginning of bar opening (g)     | Water 20°C [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 0.45                                             | 22.7              | 22.7    | 41.3    | 65.4    | 103     | 171     | 270     | 424     | 677       | 1017      | 1489    | 2089      |
| 0.50                                             | 23.8              | 23.8    | 43.3    | 68.4    | 108     | 179     | 282     | 443     | 708       | 1063      | 1556    | 2184      |
| 0.55                                             | 24.9              | 24.9    | 45.1    | 71.4    | 113     | 186     | 294     | 462     | 738       | 1107      | 1621    | 2275      |
| 0.60                                             | 25.9              | 25.9    | 46.9    | 74.2    | 117     | 194     | 305     | 480     | 766       | 1150      | 1684    | 2362      |
| 0.65                                             | 26.9              | 26.9    | 48.7    | 76.9    | 122     | 201     | 316     | 497     | 794       | 1191      | 1744    | 2447      |
| 0.70                                             | 27.8              | 27.8    | 50.4    | 79.6    | 126     | 208     | 327     | 514     | 820       | 1231      | 1802    | 2528      |
| 0.75                                             | 28.7              | 28.7    | 52.0    | 82.1    | 130     | 214     | 337     | 530     | 846       | 1270      | 1858    | 2607      |
| 0.80                                             | 29.6              | 29.6    | 53.6    | 84.6    | 134     | 221     | 347     | 546     | 871       | 1307      | 1913    | 2684      |
| 0.90                                             | 31.3              | 31.3    | 56.6    | 89.4    | 141     | 233     | 367     | 576     | 919       | 1379      | 2019    | 2832      |
| 1.00                                             | 33.0              | 33.0    | 59.6    | 94.0    | 148     | 245     | 385     | 605     | 965       | 1448      | 2119    | 2972      |
| 1.10                                             | 34.7              | 34.7    | 62.6    | 98.8    | 156     | 257     | 404     | 635     | 1013      | 1520      | 2224    | 3119      |
| 1.20                                             | 36.3              | 36.3    | 65.5    | 103     | 163     | 269     | 423     | 664     | 1059      | 1589      | 2325    | 3260      |
| 1.30                                             | 37.9              | 37.9    | 68.3    | 108     | 170     | 280     | 441     | 692     | 1103      | 1655      | 2421    | 3395      |
| 1.40                                             | 39.4              | 39.4    | 71.0    | 112     | 176     | 291     | 458     | 719     | 1146      | 1718      | 2514    | 3525      |
| 1.50                                             | 40.8              | 40.8    | 73.6    | 116     | 183     | 302     | 474     | 744     | 1187      | 1779      | 2603    | 3651      |
| 1.60                                             | 42.2              | 42.2    | 76.1    | 120     | 189     | 312     | 490     | 769     | 1227      | 1839      | 2690    | 3772      |
| 1.80                                             | 44.9              | 44.9    | 80.9    | 128     | 201     | 331     | 520     | 817     | 1302      | 1952      | 2856    | 4004      |
| 2.00                                             | 47.5              | 47.5    | 85.5    | 135     | 212     | 349     | 549     | 862     | 1374      | 2059      | 3012    | 4223      |
| 2.20                                             | 49.9              | 49.9    | 89.8    | 141     | 223     | 367     | 577     | 905     | 1442      | 2162      | 3161    | 4432      |
| 2.40                                             | 52.2              | 52.2    | 94.0    | 148     | 233     | 384     | 603     | 946     | 1507      | 2259      | 3304    | 4632      |
| 2.60                                             | 54.5              | 54.5    | 98.0    | 154     | 243     | 400     | 628     | 985     | 1570      | 2353      | 3441    | 4823      |
| 3.00                                             | 58.7              | 58.7    | 105     | 166     | 261     | 430     | 676     | 1060    | 1688      | 2530      | 3699    | 5185      |
| 3.25                                             | 61.2              | 61.2    | 110     | 173     | 272     | 448     | 704     | 1104    | 1758      | 2634      | 3852    | 5399      |
| 3.50                                             | 63.6              | 63.6    | 114     | 180     | 283     | 465     | 731     | 1146    | 1826      | 2735      | 3999    | 5605      |
| 3.75                                             | 65.9              | 65.9    | 118     | 186     | 293     | 482     | 757     | 1187    | 1891      | 2833      | 4141    | 5804      |
| 4.00                                             | 68.1              | 68.1    | 122     | 192     | 303     | 498     | 782     | 1227    | 1954      | 2927      | 4279    | 5997      |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

## CAPACITY TABLE FOR WATER (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                          | 15 x 15           | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|----------------------------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm²]          | 113               | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure of the beginning of bar opening (g) | Water 20°C [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 4.25                                         | 70.3              | 70.3    | 126     | 198     | 312     | 514     | 807     | 1265    | 2015      | 3018      | 4412    | 6183      |
| 4.50                                         | 72.4              | 72.4    | 130     | 204     | 321     | 529     | 830     | 1302    | 2074      | 3106      | 4541    | 6364      |
| 5.00                                         | 76.5              | 76.5    | 137     | 216     | 339     | 558     | 876     | 1374    | 2188      | 3277      | 4790    | 6712      |
| 5.50                                         | 80.3              | 80.3    | 144     | 227     | 356     | 586     | 920     | 1442    | 2296      | 3438      | 5026    | 7043      |
| 6.00                                         | 84.0              | 84.0    | 151     | 237     | 372     | 612     | 961     | 1507    | 2399      | 3593      | 5252    | 7359      |
| 6.50                                         | 87.6              | 87.6    | 157     | 247     | 388     | 638     | 1001    | 1569    | 2498      | 3742      | 5469    | 7663      |
| 7.00                                         | 91.0              | 91.0    | 163     | 256     | 403     | 662     | 1040    | 1629    | 2594      | 3884      | 5677    | 7955      |
| 8.00                                         | 97.5              | 97.5    | 175     | 274     | 431     | 709     | 1112    | 1744    | 2775      | 4156      | 6073    | 8509      |
| 9.00                                         | 104               | 104     | 186     | 291     | 458     | 753     | 1181    | 1851    | 2946      | 4410      | 6445    | 9030      |
| 10.00                                        | 109               | 109     | 196     | 308     | 483     | 794     | 1246    | 1952    | 3107      | 4651      | 6797    | 9523      |
| 11.00                                        | 115               | 115     | 206     | 323     | 507     | 834     | 1307    | 2049    | 3260      | 4881      | 7132    | 9991      |
| 12.00                                        | 120               | 120     | 215     | 337     | 530     | 871     | 1366    | 2141    | 3407      | 5100      | 7452    | 10439     |
| 13.00                                        | 125               | 125     | 224     | 352     | 552     | 907     | 1423    | 2229    | 3547      | 5310      | 7759    | 10869     |
| 14.00                                        | 130               | 130     | 233     | 365     | 573     | 942     | 1477    | 2315    | 3682      | 5513      | 8054    | 11282     |
| 15.00                                        | 135               | 135     | 241     | 378     | 594     | 976     | 1530    | 2397    | 3813      | 5708      | 8339    | 11681     |
| 16.00                                        | 139               | 139     | 249     | 391     | 613     | 1008    | 1581    | 2476    | 3939      | 5897      | 8615    | 12067     |
| 18.00                                        |                   | 148     | 264     | 415     | 651     | 1070    | 1678    | 2628    | 4181      | 6258      | 9142    |           |
| 20.00                                        |                   | 156     | 279     | 438     | 687     | 1129    | 1770    | 2772    | 4409      | 6599      | 9640    |           |
| 22.00                                        |                   | 164     | 293     | 459     | 721     | 1185    | 1857    | 2908    | 4626      | 6924      | 10114   |           |
| 24.00                                        |                   | 171     | 306     | 480     | 753     | 1238    | 1941    | 3039    | 4834      | 7234      | 10568   |           |
| 25.00                                        |                   | 175     | 313     | 490     | 769     | 1264    | 1981    | 3102    | 4934      | 7385      | 10787   |           |
| 28.00                                        |                   | 185     | 331     | 519     | 815     | 1338    | 2098    | 3285    | 5225      | 7819      |         |           |
| 30.00                                        |                   | 192     | 343     | 538     | 844     | 1386    | 2172    | 3402    | 5410      | 8095      |         |           |
| 32.00                                        |                   | 198     | 354     | 556     | 872     | 1432    | 2244    | 3514    | 5588      | 8363      |         |           |
| 35.00                                        |                   | 208     | 371     | 582     | 912     | 1498    | 2348    | 3677    | 5847      | 8749      |         |           |
| 40.00                                        |                   | 222     | 397     | 622     | 976     | 1603    | 2512    | 3933    | 6254      | 9357      |         |           |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
 Tel. +48 74 8652 111  
 Fax +48 74 8652 199

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

## CAPACITY TABLE FOR WATER (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15             | 20x20 | 25x25 | 32x32  | 40x40  | 50x50  |
|-----------------------------------------------------|-------------------|-------|-------|--------|--------|--------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113               | 113   | 201   | 314    | 491    | 804    |
| Pressure at the beginning of<br>bar opening (g)     | Water 20°C [kg/h] |       |       |        |        |        |
| 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 |
| 3,25                                                | 3 260             | 3 260 | 5 799 | 9 059  | 14 166 | 23 196 |
| 3,50                                                | 3 383             | 3 383 | 6 018 | 9 401  | 14 700 | 24 071 |
| 3,75                                                | 3 502             | 3 502 | 6 229 | 9 731  | 15 216 | 24 916 |
| 4,00                                                | 3 617             | 3 617 | 6 433 | 10 050 | 15 715 | 25 733 |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

CAPACITY TABLE FOR WATER (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15             | 20x20 | 25x25 | 32x32  | 40x40  | 50x50  |
|-----------------------------------------------------|-------------------|-------|-------|--------|--------|--------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113               | 113   | 201   | 314    | 491    | 804    |
| Pressure at the beginning of<br>bar opening (g)     | Water 20°C [kg/h] |       |       |        |        |        |
| 4,25                                                | 3728              | 3728  | 6631  | 10 359 | 16 199 | 26 525 |
| 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 |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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## CAPACITY TABLE FOR SATURATED VAPOURS (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                              | 15 x 15                  | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|--------------------------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm <sup>2</sup> ] | 113                      | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure at the beginning of bar opening (g)     | Saturated vapours [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 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      |
| 3.25                                             | 68.3                     | 68.3    | 121     | 190     | 297     | 486     | 760     | 1187    | 1883      | 2814      | 4105    | 5742      |
| 3.50                                             | 72.5                     | 72.5    | 129     | 201     | 315     | 516     | 806     | 1259    | 1999      | 2986      | 4356    | 6094      |
| 3.75                                             | 76.5                     | 76.5    | 136     | 213     | 333     | 545     | 852     | 1330    | 2111      | 3155      | 4602    | 6437      |
| 4.00                                             | 80.4                     | 80.4    | 143     | 223     | 349     | 572     | 894     | 1397    | 2217      | 3313      | 4832    | 6760      |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

CAPACITY TABLE FOR SATURATED VAPOURS (TYPE 01, 02, 05, 07)

| DNxDN<br>PN16, PN40                          | 15 x 15                  | 20 x 20 | 25 x 25 | 32 x 32 | 40 x 40 | 50 x 50 | 65 x 65 | 80 x 80 | 100 x 100 | 125 x 125 | 150x150 | 200 x 200 |
|----------------------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|-----------|
| A - flight computational area [mm²]          | 113                      | 113     | 201     | 314     | 491     | 804     | 1 257   | 1 964   | 3 117     | 4 657     | 6 793   | 9 503     |
| Pressure at the beginning of bar opening (g) | Saturated vapours [kg/h] |         |         |         |         |         |         |         |           |           |         |           |
| 4.25                                         | 84.4                     | 84.4    | 150     | 235     | 366.7   | 600     | 939     | 1467    | 2328      | 3478      | 5073    | 7097      |
| 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     |         |           |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

## CAPACITY TABLE FOR SATURATED VAPOURS (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15                    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|-----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113                      | 113   | 201   | 314   | 491   | 804   |
| Pressure at the beginning of<br>bar opening (g)     | Saturated vapours [kg/h] |       |       |       |       |       |
| 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   |
| 3,25                                                | 109                      | 109   | 194   | 304   | 475   | 777   |
| 3,50                                                | 116                      | 116   | 206   | 322   | 504   | 825   |
| 3,75                                                | 122                      | 122   | 218   | 340   | 532   | 871   |
| 4,00                                                | 129                      | 129   | 229   | 357   | 559   | 915   |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

CAPACITY TABLE FOR SATURATED VAPOURS (TYPE 51, 52, 55, 57)

| DNxDN<br>PN16, PN40                                 | 15x15                    | 20x20 | 25x25 | 32x32 | 40x40 | 50x50 |
|-----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|
| A - flight computational area<br>[mm <sup>2</sup> ] | 113                      | 113   | 201   | 314   | 491   | 804   |
| Pressure at the beginning of<br>bar opening (g)     | Saturated vapours [kg/h] |       |       |       |       |       |
| 4,25                                                | 135                      | 135   | 240   | 375   | 587   | 961   |
| 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 |

Capacity calculated at overpressure  $b_1 = 0,1$  bar or  $b_1 = 10\%$ 

Data given can be changed without notice.

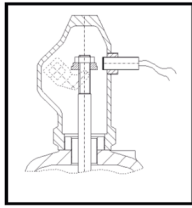
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ZETKAMA Sp. z o.o.  
Ul. 3 Maja 12  
PL 57-410 Ścinawka Średnia

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

## OPTIONS



Type with inductive sensor with operation alert

**Operation range:**

depending on the type and diameter of the valve

**Supply voltage:**

10 ÷ 30 V [DC]

**Degree of protection:**

IP67, IP68 (depending on sensor type)

**Operating temperature:**

-25 ÷ 70°C

Other upon agreement with the manufacturer

**Standard cable length**

2000 mm

# ATEX

The product meets the requirements of the following standards

PN-EN 1127-1:2019-10

PN-EN ISO 80079-36:2016-07

PN-EN ISO 80079-37:2016-07

The product is labelled:



II 2G Ex h IIC TX Gb

**NOTE:**

ATEX type does not include valves with soft tightening for disc



Standard flanges valves are drilled according to standards

**PN-EN 1092-1 cast steel**

**PN-EN 1092-2 cast iron**

Upon client's request, it is possible to make flange drillings according to ANSI standards or according to European standards other than basic ones (after consultation with the manufacturer)

## ATTENTION

- In the case of when condensate forms, provide drainage in the lowest spot of blow-out installation. Drainage in the body valve is made only upon request of the customer. For liquids, blow-out installation should be made in a tilted way.
- Valves should be mounted in a vertical position.

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

## TYPES

| Figure | Body material                     | Nominal diameter | Nominal pressure | Type                                                                                                        | Notified unit |
|--------|-----------------------------------|------------------|------------------|-------------------------------------------------------------------------------------------------------------|---------------|
| 240    | A<br>Grey cast iron<br>EN-GJL-250 | 15-200<br>mm     | C<br>16 bar      | <b>01-1</b><br>normal type for liquids, vapours and gases, metal/metal sealing                              | CE 0045       |
|        |                                   | 15-200<br>mm     | C<br>16 bar      | <b>02-1</b><br>gastight type for liquids, vapours and gases, metal/metal sealing                            | CE 0045       |
|        |                                   | 15-200<br>mm     | C<br>16 bar      | <b>05-1</b><br>marine type for liquids, vapours and gases, metal/metal sealing                              | CE 0045       |
|        |                                   | 15-200<br>mm     | C<br>16 bar      | <b>07-1</b><br>marine gastight type for liquids, vapours and gases, metal/metal sealing                     | CE 0045       |
|        |                                   | 15-50<br>mm      | C<br>16 bar      | <b>51-1</b><br>normal type for liquids, vapours and gases, metal/metal sealing, with extended seat          | CE 0045       |
|        |                                   | 15-50<br>mm      | C<br>16 bar      | <b>52-1</b><br>gastight type for liquids, vapours and gases, metal/metal sealing, with extended seat        | CE 0045       |
|        |                                   | 15-50<br>mm      | C<br>16 bar      | <b>55-1</b><br>marine type for liquids, vapours and gases, metal/metal sealing, with extended seat          | CE 0045       |
|        |                                   | 15-50<br>mm      | C<br>16 bar      | <b>57-1</b><br>marine gastight type for liquids, vapours and gases, metal/metal sealing, with extended seat | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>01-2</b><br>normal type for liquids, vapours and gases, metal/metal tightening for nbr disc              | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>02-2</b><br>gastight type for liquids, vapours and gases, tightening for nbr disc                        | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>05-2</b><br>marine type for liquids, vapours and gases, tightening for nbr disc                          | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>07-2</b><br>gastight type for liquids, vapours and gases, tightening for nbr disc                        | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>01-3</b><br>normal type for liquids, vapours and gases, tightening for epdm disc                         | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>02-3</b><br>gastight type for liquids, vapours and gases, tightening for epdm disc                       | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>05-3</b><br>marine type for liquids, vapours and gases, tightening for epdm disc                         | CE 0045       |
|        |                                   | 25-125<br>mm     | C<br>16 bar      | <b>07-3</b><br>marine gastight type for liquids, vapours and gases, tightening for epdm disc                | CE 0045       |
| 240    | F<br>Cast steel<br>GP240GH        | 20-200<br>mm     | E<br>40 bar      | <b>01-1</b><br>normal type for liquids, vapours and gases, metal/metal sealing                              | CE 0045*      |
|        |                                   | 20-200<br>mm     | E<br>40 bar      | <b>02-1</b><br>gastight type for liquids, vapours and gases, metal/metal sealing                            | CE 0045*      |
|        |                                   | 20-200<br>mm     | E<br>40 bar      | <b>05-1</b><br>marine type for liquids, vapours and gases, metal/metal sealing                              | CE 0045       |
|        |                                   | 20-200<br>mm     | E<br>40 bar      | <b>07-1</b><br>marine gastight type for liquids, vapours and gases, metal/metal sealing                     | CE 0045       |
|        |                                   | 20-50<br>mm      | E<br>40 bar      | <b>51-1</b><br>normal type for liquids, vapours and gases, metal/metal sealing, with extended seat          | CE 0045       |
|        |                                   | 20-50<br>mm      | E<br>40 bar      | <b>52-1</b><br>gastight type for liquids, vapours and gases, metal/metal sealing, with extended seat        | CE 0045       |

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FIG.240

|     |                                           |              |             |                                                                                                      |         |
|-----|-------------------------------------------|--------------|-------------|------------------------------------------------------------------------------------------------------|---------|
| 240 | R<br>Cast stainless steel<br>GX5CrNi19-10 | 20-50<br>mm  | E<br>40 bar | 55-1<br>marine type for liquids, vapours and gases, metal/metal sealing, with extended seat          | CE 0045 |
|     |                                           | 20-50<br>mm  | E<br>40 bar | 57-1<br>marine gastight type for liquids, vapours and gases, metal/metal sealing, with extended seat | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 01-2<br>normal typefor liquids, vapours and gases, metal/metal tightening for nbr disc               | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 02-2<br>gastight type for liquids, vapours and gases, tightening for nbr disc                        | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 05-2<br>marine type for liquids, vapours and gases, tightening for nbr disc                          | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 07-2<br>marine gastight type for liquids, vapours and gases, tightening for nbr disc                 | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 01-3<br>normal typefor liquids, vapours and gases, tightening for epdm disc                          | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 02-3<br>gastight type for liquids, vapours and gases, tightening for epdm disc                       | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 05-3<br>marine type for liquids, vapours and gases, tightening for epdm disc                         | CE 0045 |
|     |                                           | 25-125<br>mm | E<br>40 bar | 07-3<br>marine gastight type for liquids, vapours and gases, tightening for epdm disc                | CE 0045 |
|     |                                           | 20-100<br>mm | E<br>40 bar | 01-1<br>normal typefor liquids, vapours and gases, metal/metal sealing                               | CE 0045 |
|     |                                           | 20-100<br>mm | E<br>40 bar | 02-1<br>gastight type for liquids, vapours and gases, metal/metal sealing                            | CE 0045 |
|     |                                           | 20-50<br>mm  | E<br>40 bar | 51-1<br>normal typefor liquids, vapours and gases, metal/metal sealing, with extended seat           | CE 0045 |
|     |                                           | 20-50<br>mm  | E<br>40 bar | 52-1<br>gastight type for liquids, vapours and gases, metal/metal sealing, with extended seat        | CE 0045 |

\* for valves with closed construction insert the number of Notified Body 1433

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

Tel. +48 74 8652 193  
Tel. +48 74 8652 111  
Fax +48 74 8652 199

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

FIG.240

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>normal type for liquids, vapours and gases, metal/metal sealing |

Order example by index

240    A    050    C    01-1

Safety valve, proportional, angle form  
Grey cast iron EN-GJL-250  
Nominal diameter (mm)  
Nominal pressure PN 16  
Normal type for liquids, vapours and gases, metal/metal sealing

240    A    050    C    01-1