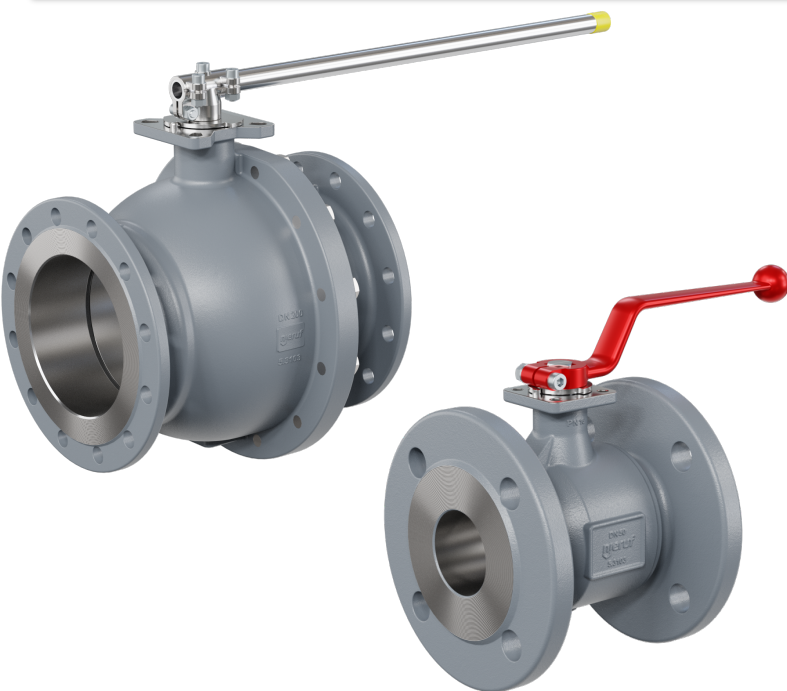


## Flange ball valves in spheroidal graphite cast iron type FK01 / FK02



### description:

Flange ball valve in spheroidal graphite cast iron with lever and fire safe design to shut off pipeline systems.

### features:

- suitable for neutral and not neutral **gaseous & liquid media**
- free of silicone
- TA-Air approval acc. to DIN EN ISO 15848
- fire-safe design
- blow out proved stem design
- classification acc.to PED 2014-68-EU
- LABS conformity acc. to VDMA 24364
- 3 side guided ball seals

### connection:

DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250

### construction:

full port design, DN250 reduced

### pressure:

0 – 16 bar

### design:

#### body:

full port design / DN250 reduced

DN25 to DN150: nodular cast iron 5.3103

DN200 to DN250: nodular cast iron 5.3105

### corrosion protection:

#### ball type FK01:

grounding 1 K water-based varnish / other painting on request

#### ball type FK02:

stainless steel 1.4301 / AISI 304

#### ball seal standard:

stainless steel 1.4404 / AISI 316L

DN25 to DN150: PTFE + GF + (FKM)

DN200 to DN250: PTFE (FKM)

#### ball seal suitable for DVGW gas:

PTFE + (FKM)

### handle:

HTB certified acc. to DIN EN 1775 up to DN100 PN16 (DN125-DN150 PN5)

DN25 to DN150: aluminium red (standard) / aluminium yellow (DVGW gas)

DN200 to DN250: stainless steel 1.4301 / AISI 304

### nominal diameter:

DN25 to DN150: DIN EN 558-R14

DN200 to DN250: DIN EN 558-R27

### faces:

DIN EN 1092-2 B1

### flange:

DIN EN 1092 PN16

### temperature:

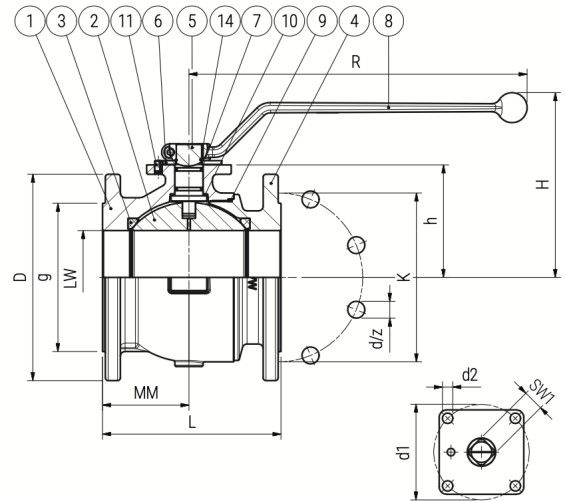
-20°C to +180°C (depending on working pressure)

gas acc. to DIN EN 13774: -20°C to +60°C



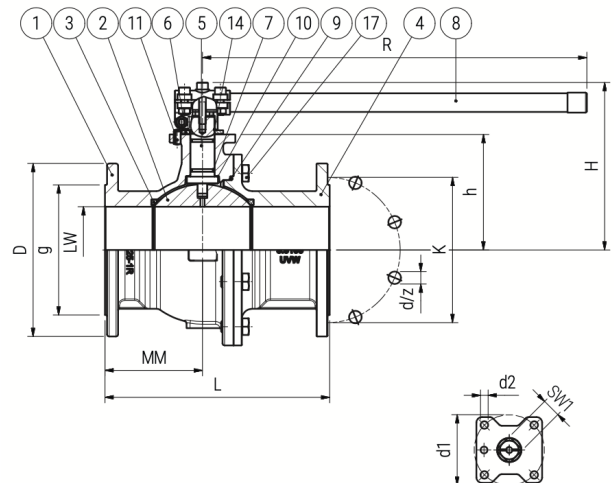
## material for DN25 to DN150:

| no. | description   | material                         |
|-----|---------------|----------------------------------|
| 1   | body          | nodular cast iron 5.3103         |
| 2   | ball          | type FK01 stainless steel 1.4301 |
| 2   | ball          | type FK02 stainless steel 1.4404 |
| 3   | ball seal     | type FK(xx)00 PTFE + GF          |
| 3   | ball seal     | type FK(xx)02 PTFE               |
| 4   | flange        | nodular cast iron 5.3103         |
| 5   | stem          | stainless steel 1.4101           |
| 6   | stop plate    | steel zinc plated                |
| 7   | spindle seal  | FKM                              |
| 8   | handle        | aluminium red/yellow             |
| 9   | body seal     | FKM                              |
| 10  | thrust washer | polyamide                        |
| 11  | stop pin      | steel zinc plated                |
| 14  | clip ring     | spring steel 1.4310              |



## material for DN200 to DN250:

| no. | description   | material                         |
|-----|---------------|----------------------------------|
| 1   | body          | nodular cast iron 5.3105         |
| 2   | ball          | type FK01 stainless steel 1.4301 |
| 2   | ball          | type FK02 stainless steel 1.4404 |
| 3   | ball seal     | type FK(xx)00 PTFE               |
| 3   | ball seal     | type FK(xx)02 PTFE               |
| 4   | flange        | nodular cast iron 5.3105         |
| 5   | stem          | stainless steel 1.4104           |
| 6   | stop plate    | steel zinc plated                |
| 7   | spindle seal  | FKM                              |
| 8   | handle        | stainless steel 1.4301           |
| 9   | body seal     | FKM                              |
| 10  | thrust washer | polyamide                        |
| 11  | stop pin      | steel zinc plated                |
| 14  | clip ring     | spring steel                     |
| 17  | bolt          | steel zinc plated                |



## dimensions:

| DN  | LW  | PN | L   | MM    | R   | H     | h     | D   | K   | g   | z  | d  | SW1 | M      | d1      | d2    |
|-----|-----|----|-----|-------|-----|-------|-------|-----|-----|-----|----|----|-----|--------|---------|-------|
| 25  | 25  | 16 | 125 | 62,5  | 165 | 111,5 | 60    | 115 | 85  | 68  | 4  | 14 | 11  | F 05   | 50      | 6,6   |
| 32  | 32  | 16 | 130 | 65    | 165 | 122,5 | 71    | 140 | 100 | 78  | 4  | 18 | 11  | F 05   | 50      | 6,6   |
| 40  | 40  | 16 | 140 | 70    | 185 | 134   | 77    | 150 | 110 | 88  | 4  | 18 | 14  | F 05   | 50      | 6,6   |
| 50  | 50  | 16 | 150 | 75    | 185 | 142   | 85    | 165 | 125 | 102 | 4  | 18 | 14  | F 05   | 50      | 6,6   |
| 65  | 65  | 16 | 170 | 85    | 230 | 154,5 | 95    | 185 | 145 | 122 | 4  | 18 | 17  | F 07   | 70      | 9     |
| 80  | 80  | 16 | 180 | 90,5  | 360 | 180,5 | 103,5 | 200 | 160 | 136 | 8  | 18 | 22  | F 07   | 70      | 9     |
| 100 | 100 | 16 | 190 | 92    | 360 | 197   | 120   | 220 | 180 | 158 | 8  | 18 | 22  | F 10   | 102     | 11    |
| 125 | 125 | 16 | 200 | 98    | 360 | 216   | 139   | 250 | 210 | 188 | 8  | 18 | 22  | F 10   | 102     | 11    |
| 150 | 142 | 16 | 210 | 100   | 556 | 236   | 158   | 285 | 240 | 212 | 8  | 22 | 27  | F 10   | 102     | 11    |
| 200 | 200 | 16 | 400 | 200   | 706 | 313   | 238   | 340 | 295 | 268 | 12 | 22 | 27  | F12/14 | 125/140 | 13/17 |
| 250 | 200 | 16 | 450 | 225,5 | 706 | 298   | 219   | 405 | 355 | 320 | 12 | 26 | 27  | F14    | 140     | M16   |

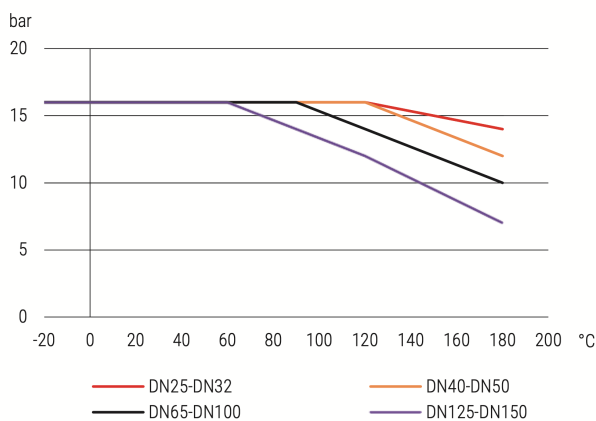
## breakaway torques:

| DN  | weight<br>kg | breakaway torque Nm   |     | breakaway torque Nm   |     | breakaway torque Nm    |     |
|-----|--------------|-----------------------|-----|-----------------------|-----|------------------------|-----|
|     |              | PN0 (standard / DVGW) |     | PN7 (standard / DVGW) |     | PN16 (standard / DVGW) |     |
| 25  | 3,20         | 7                     | 8   | 7                     | 8   | 7                      | 8   |
| 32  | 4,50         | 12                    | 16  | 12                    | 16  | 12                     | 16  |
| 40  | 5,70         | 13                    | 18  | 13                    | 18  | 13                     | 18  |
| 50  | 7,80         | 19                    | 25  | 19                    | 25  | 19                     | 25  |
| 65  | 12,00        | 30                    | 50  | 30                    | 50  | 30                     | 50  |
| 80  | 15,50        | 50                    | 80  | 50                    | 80  | 70                     | 90  |
| 100 | 22,30        | 60                    | 90  | 65                    | 90  | 80                     | 100 |
| 125 | 30,40        | 70                    | 100 | 70                    | 100 | 100                    | 120 |
| 150 | 42,00        | 100                   | 160 | 100                   | 170 | 130                    | 200 |
| 200 | 119,40       | 250                   | 400 | 270                   | 420 | 300                    | 450 |
| 250 | 158,00       | 250                   | 400 | 270                   | 420 | 300                    | 450 |

## pressure-temperature-diagram (DN25 to DN150):

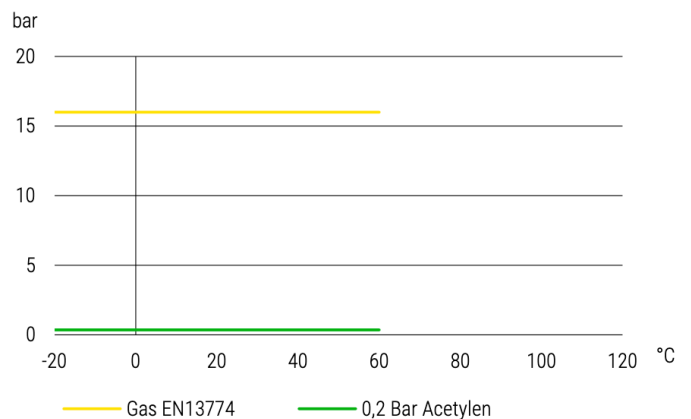
### standard-version

Druck-Temperatur-Diagramm pressure-temperature-diagram



### DVGW-version

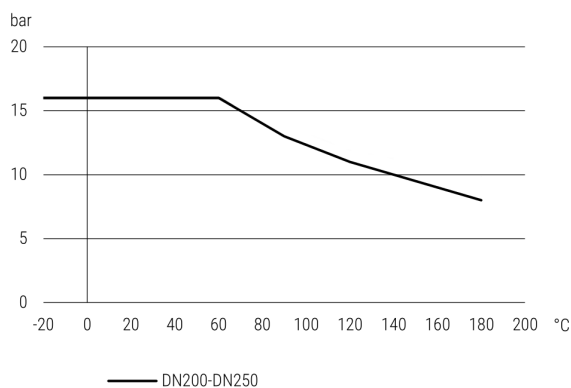
Druck-Temperatur-Diagramm pressure-temperature-diagram



## pressure-temperature-diagram (DN200 to DN250):

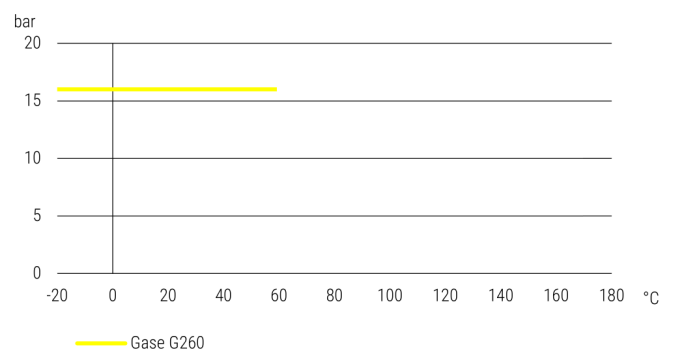
### standard-version

Druck-Temperatur-Diagramm pressure-temperature-diagram



### DVGW-version

Druck-Temperatur-Diagramm pressure-temperature-diagram



article number:

| type                                                                            | seal                                  | connection         | size                                                                                                                        |
|---------------------------------------------------------------------------------|---------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>FK01 – stainless steel 1.4301 ball</b><br>FK02 – stainless steel 1.4404 ball | 00 – standard<br><b>02 – DVGW-Gas</b> | <b>00 – flange</b> | <b>05 – DN25</b><br>06 – DN32<br>07 – DN40<br>08 – DN50<br>09 – DN65<br>10 – DN80<br>11 – DN100<br>12 – DN125<br>13 – DN150 |

example no. FK01020005:

|             |           |           |           |
|-------------|-----------|-----------|-----------|
| <b>FK01</b> | <b>02</b> | <b>00</b> | <b>05</b> |
|-------------|-----------|-----------|-----------|

Flange ball valve made of spheroidal graphite cast iron with stainless steel 1.4301 ball  
Ball seal: DVGW-Gas  
Connection: flange  
Size: DN25

Image similar, subject change without notice.