

# STOP GLOBE VALVE TYPE 422

## CHARACTERISTIC:

|             |   |  |
|-------------|---|--|
| Diameter    | - | 15 -200 mm;  |
| Pressure    | - | 100 bar;   |
| Temperature | - | up to 560°C (with PTFE sealing up to 200°C);   |
| Medium      | - | water, steam and other non-toxic, non aggressive liquid and gas media and engine fuel. |

## VERSIONS:

type / ends / body material / disc and disc ring / drive type

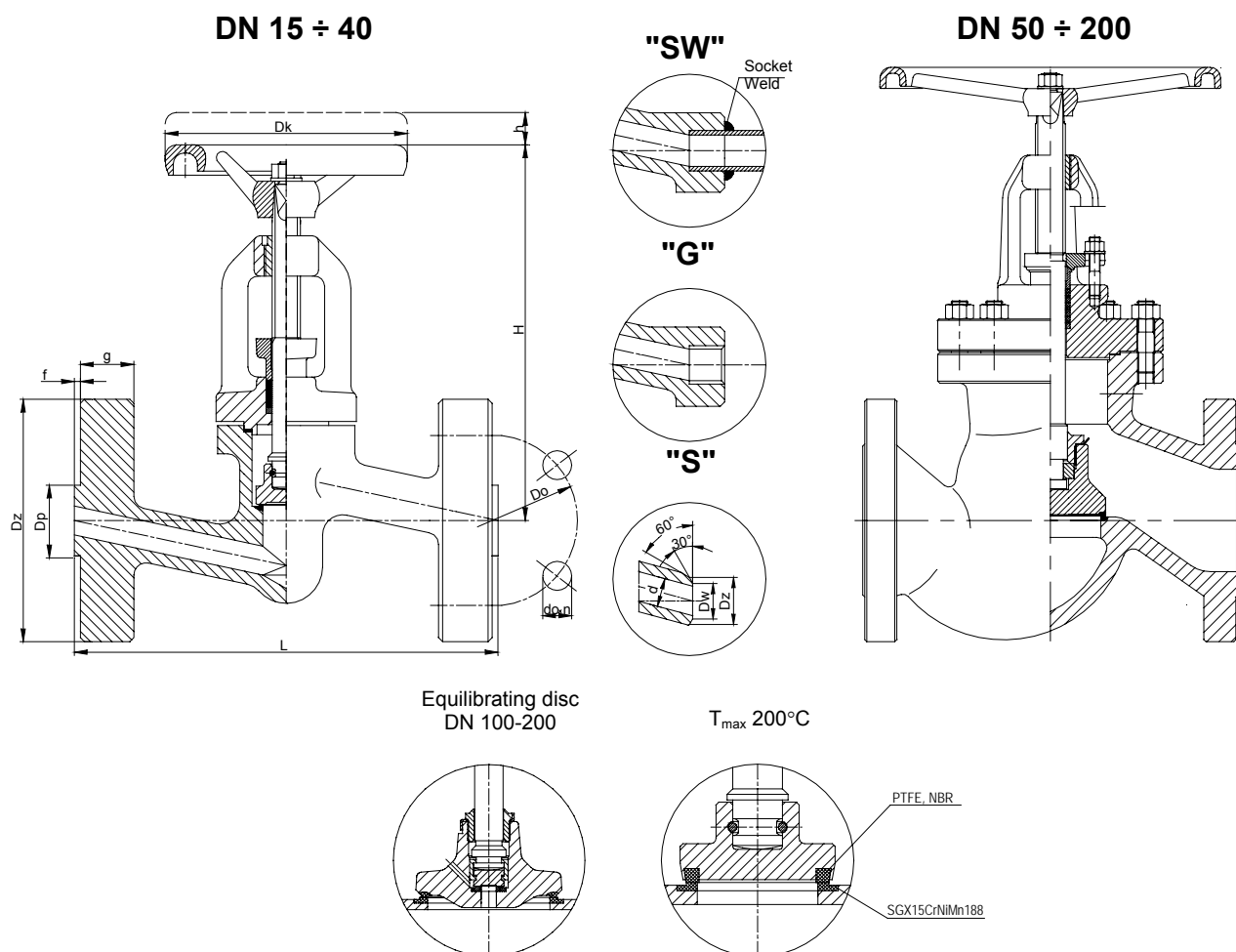
Example: 422 / --- / --- / --- / ---

Example: 422 / S / U / P / ---

| Ends               | Sign      | Body material           | Sign     | Disc and disc ring | Sign     | Drive type      | Sign      |
|--------------------|-----------|-------------------------|----------|--------------------|----------|-----------------|-----------|
| Standard - flanged | ---       | (P250GH) C 22.8         | ---      | Standard           | ---      | Hand wheel      | ---       |
| Butt weld ends     | <b>S</b>  | or GP240GH              | ---      | PTFE ring          | <b>P</b> | AUMA drive      | <b>NA</b> |
| Socket weld        | <b>SW</b> | 16Mo3 or G20Mo5         | <b>U</b> | NBR ring           | <b>N</b> | NWA drive       | <b>NW</b> |
| Threaded           | <b>G</b>  | 13CrMo4-5 or G17CrMo5-5 | <b>A</b> | STELLIT ring       | <b>L</b> | MODACT drive    | <b>NM</b> |
|                    |           |                         |          |                    |          | Pneumatic drive | <b>NP</b> |

## APPLICATION:

Stop globe valve is designed to open and stop the flow. The valve is not supposed to be used as a regulating device. For regulation the version „R” with throttling plug should be applied.



# WK®

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## MATERIALS:

| Versions                  | Standard                   | U                       | A                       | Other versions                   |
|---------------------------|----------------------------|-------------------------|-------------------------|----------------------------------|
| Parts                     | T <sub>MAX</sub> 450°C     | T <sub>MAX</sub> 530°C  | T <sub>MAX</sub> 560°C  | -                                |
| Body, bonnet<br>DN 15-40  | (P250GH) C22.8<br>(1.0460) | 16Mo3<br>(1.5415)       | 13CrMo4-5<br>(1.7335)   | (P250GH) C22.8, 16Mo3, 13CrMo4-5 |
| Body, bonnet<br>DN 50-200 | GP240GH<br>(1.0619)        | G20Mo5<br>(1.5419)      | G17CrMo5-5<br>(1.7357)  | GP240GH, G20Mo5, G17CrMo5-5      |
| Seat ring                 | G 18 8 Mn (1.4370)         |                         |                         | Stellit                          |
| Disc DN 15-50             | X30Cr13<br>(1.4028)        | X30Cr13<br>(1.4028)     | 13CrMo4-5<br>(1.7335)   | X30Cr13, 13CrMo4-5               |
| Disc DN 65-200            | P250GH<br>(1.0460)         | P250GH<br>(1.0460)      | 13CrMo4-5<br>(1.7335)   | P250GH, 13CrMo4-5                |
| Disc ring                 | G 18 8 Mn (1.4370)         |                         |                         | Stellit                          |
| Stem                      | X20Cr13<br>(1.4021)        | X17CrNi16-2<br>(1.4057) | X39CrMo12-1<br>(1.4122) | BT9                              |
| Gasket                    | Grafite + austenite        |                         |                         |                                  |
| Wheel                     | Cast iron                  |                         |                         |                                  |

Special materials on request; modifications reserved.

## DIMENSIONS:

| Standard - flanged |     |     |     |     |    |    |     |    |   |     |     |     |        | With butt weld ends |       |     |        |
|--------------------|-----|-----|-----|-----|----|----|-----|----|---|-----|-----|-----|--------|---------------------|-------|-----|--------|
| DN                 | d   | Dz  | Dp  | Do  | do | n  | L   | g  | f | H   | h   | Dk  | Weight | Dz                  | Dw    | L   | Weight |
| 15                 | 14  | 105 | 45  | 75  | 14 | 4  | 210 | 20 | 2 | 160 | 13  | 120 | 5,40   | 22                  | 17    | 160 | 3,00   |
| 20                 | 19  | 130 | 58  | 90  | 18 | 4  | 230 | 22 | 2 | 160 | 13  | 120 | 9,80   | 28                  | 21,5  | 160 | 3,00   |
| 25                 | 23  | 140 | 68  | 100 | 18 | 4  | 230 | 24 | 2 | 160 | 13  | 120 | 10,80  | 35                  | 28,5  | 160 | 3,00   |
| 32                 | 30  | 155 | 78  | 110 | 22 | 4  | 260 | 24 | 2 | 210 | 16  | 160 | 15,00  | 44                  | 36    | 230 | 9,30   |
| 40                 | 38  | 170 | 88  | 125 | 22 | 4  | 260 | 28 | 3 | 210 | 18  | 160 | 15,70  | 50                  | 43    | 230 | 9,50   |
| 50                 | 45  | 195 | 102 | 145 | 26 | 4  | 300 | 28 | 3 | 250 | 22  | 200 | 30,70  | 62                  | 54    | 300 | 19,90  |
| 65                 | 62  | 220 | 122 | 170 | 26 | 8  | 340 | 30 | 3 | 290 | 30  | 280 | 46,00  | 77                  | 69    | 340 | 30,90  |
| 80                 | 73  | 230 | 138 | 180 | 26 | 8  | 380 | 32 | 3 | 300 | 40  | 360 | 62,00  | 91                  | 81    | 380 | 48,70  |
| 100                | 94  | 265 | 162 | 210 | 30 | 8  | 430 | 36 | 3 | 500 | 55  | 360 | 121,50 | 117                 | 104   | 430 | 95,10  |
| 125                | 120 | 315 | 188 | 250 | 33 | 8  | 500 | 40 | 3 | 600 | 65  | 400 | 168,00 | 144                 | 127   | 500 | 137,90 |
| 150                | 144 | 355 | 218 | 290 | 33 | 12 | 550 | 44 | 3 | 700 | 70  | 500 | 251,00 | 172                 | 154   | 550 | 201,10 |
| 200                | 195 | 430 | 285 | 360 | 36 | 12 | 650 | 52 | 3 | 900 | 100 | 600 | 295,00 | 223                 | 199,5 | 650 | 218,00 |

Dimensions in mm; modifications reserved.

## TECHNICAL DATA:

| Body material              | PN  | Maximal working pressure at working temperature |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                            |     | 20°C  | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C | 480°C | 500°C | 510°C | 520°C | 530°C | 540°C | 550°C | 560°C |
| (P250GH)C 22.8<br>(1.0460) | 100 | 100,0   | 92,8  | 88,0  | 83,3  | 76,1  | 69,0  | 64,2  | 59,5  | 32,8  | -     | -     | -     | -     | -     | -     | -     | -     |
| 16Mo3<br>(1.5415)          | 100 | 100,0   | 100,0 | 100,0 | 100,0 | 97,6  | 85,7  | 80,9  | 76,1  | 73,8  | 56,0  | 44,2  | 36,1  | 28,0  | 22,3  | -     | -     | -     |
| 13CrMo4-5<br>(1.7335)      | 100 | 100,0   | 100,0 | 100,0 | 100,0 | 100,0 | 99,5  | 95,2  | 90,4  | 85,7  | 73,4  | 65,2  | 54,9  | 44,7  | 37,1  | 29,0  | 23,3  | 19,0  |
| GP240GH<br>(1.0619)        | 100 | 100,0   | 92,8  | 88,0  | 83,3  | 76,1  | 69,0  | 64,2  | 59,5  | 32,8  | -     | -     | -     | -     | -     | -     | -     | -     |
| G20Mo5<br>(1.5419)         | 100 | 100,0   | 100,0 | 100,0 | 100,0 | 97,6  | 85,7  | 80,9  | 76,1  | 73,8  | 56,0  | 44,2  | 36,1  | 28,0  | 22,3  | -     | -     | -     |
| G17CrMo5-5<br>(1.7357)     | 100 | 100,0   | 100,0 | 100,0 | 100,0 | 100,0 | 99,5  | 95,2  | 90,4  | 85,7  | 73,4  | 65,2  | 54,9  | 44,7  | 37,1  | 29,0  | 23,3  | 19,0  |

## MOUNTING AND OPERATING:

*The valve can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the valve may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.*

Before a valve is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the valve. Stop globe valve can be mounted to a pipe-line in any position. The direction of flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide valve's reliability the following suggestions must be observed:

- medium flowing through the valve is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.