

# STOP GLOBE VALVE TYPE 684

## CHARACTERISTIC:

|             |   |  |
|-------------|---|--|
| Diameter    | - | 15 -100 mm;  |
| Pressure    | - | 400 bar;   |
| Temperature | - | up to 600°C;   |
| Medium      | - | water, steam and other non-toxic, non aggressive liquid and gas media. |

## VERSIONS:

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

Example: 684 / --- / --- / --- / ---

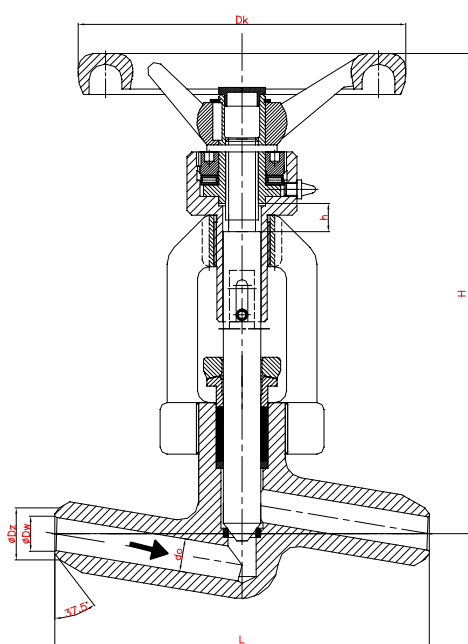
Example: 684 / SW / U / L / ---

| Ends                    | Sign | Body material   | Sign | Disc and disc ring | Sign | Drive type      | Sign |
|-------------------------|------|-----------------|------|--------------------|------|-----------------|------|
| Standard-butt weld ends | ---  | (P250GH) C 22.8 | ---  | Standard           | ---  | Hand wheel      | ---  |
| Socket weld             | SW   | 16Mo3           | U    | Stellit ring       | L    | AUMA drive      | NA   |
|                         |      | 13CrMo4-5       | A    |                    |      | NWA drive       | NW   |
|                         |      | 10CrMo9-10      | B    |                    |      | MODACT drive    | NM   |
|                         |      | 14MoV6-3        | C    |                    |      | Pneumatic drive | NP   |

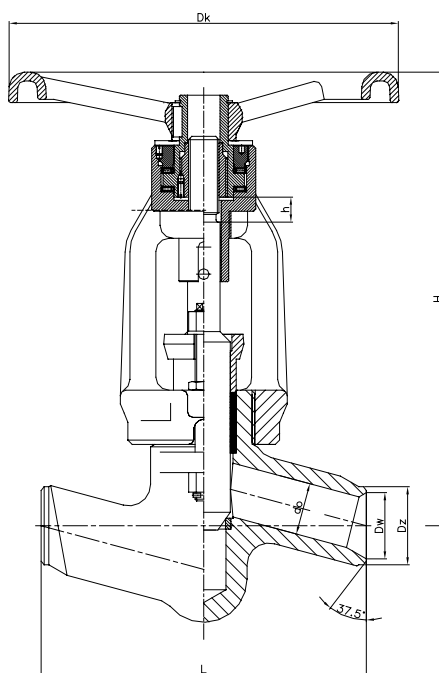
## APPLICATION:

Stop globe valve is designed to open and stop the flow. The valve is supposed to be used as a regulating device.

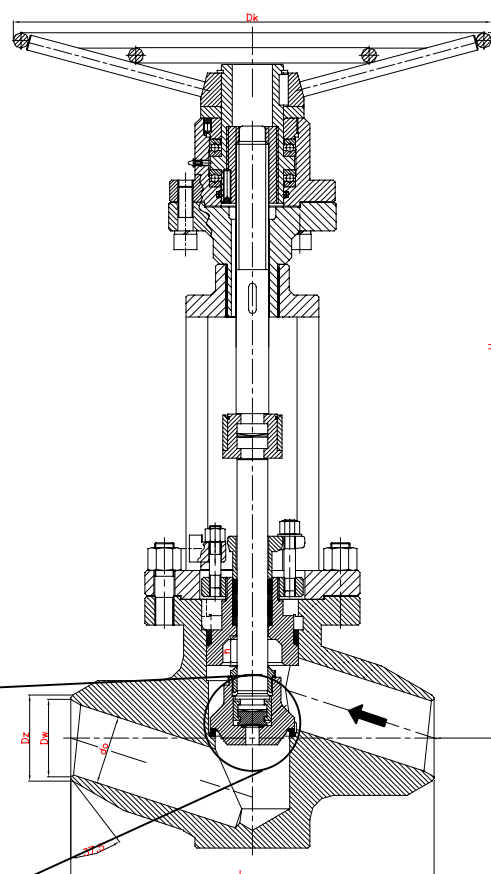
DN 10 ÷ 15



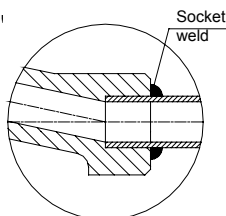
DN 20 ÷ 50



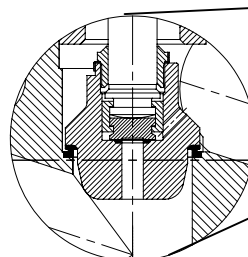
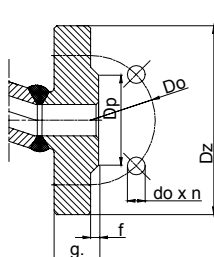
DN 65 ÷ 100



"SW"



"K"



# WK®

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## MATERIALS:

| Versions       | Standard  | U                      | A                      | B                      | C                      |
|----------------|---|------------------------|------------------------|------------------------|------------------------|
| Parts          | T <sub>MAX</sub> 450°C                                    | T <sub>MAX</sub> 530°C | T <sub>MAX</sub> 560°C | T <sub>MAX</sub> 600°C | T <sub>MAX</sub> 570°C |
| Body           | (P250GH) C22.8<br>(1.0460)                                | 16Mo3<br>(1.5415)      | 13CrMo4-5<br>(1.7335)  | 10CrMo9-10<br>(1.7380) | 14MoV6-3<br>(1.7715)   |
| Bonnet         | DN 15-25 13CrMo4-5 (1.7335) DN 32-125 G17CrMo5-5 (1.7357) |                        |                        |                        |                        |
| Stem DN 15-65  | X39CrNi17-1 (1.4122), X22CrMoV12-1 (1.4923)               |                        |                        |                        |                        |
| Disc DN 80-125 | C22.8<br>(1.0460)   | 16Mo3<br>(1.5415)      | 13CrMo4-5<br>(1.7335)  | 10CrMo9-10<br>(1.7380) | 14MoV6-3<br>(1.7715)   |
| Seat ring      | BT9 or Stellite   |                        |                        |                        |                        |
| Upper stem     | X17CrNi16-2 (1.4057), X39CrNi17-1 (1.4122)                |                        |                        |                        |                        |
| Wheel          | Cast iron   |                        |                        |                        |                        |

Special materials on request; modifications reserved.

## DIMENSIONS:

| Standard – Butt weld ends |    |     |      |     |        | H   | h  | Dk      | Flanged „K” |     |     |    |   |     |    |   |
|---------------------------|----|-----|------|-----|--------|-----|----|---------|-------------|-----|-----|----|---|-----|----|---|
| DN                        | d  | Dz  | Dw   | L   | Weight |     |    |         | Dz          | Dp  | Do  | do | n | L   | g  | f |
| 10                        | 10 | 20  | 10   | 150 | -      | 205 | 12 | 140     | -           | -   | -   | -  | - | -   | -  | - |
| 15                        | 14 | 28  | 17   |     |        |     |    |         | 145         | 45  | 100 | 22 | 4 | 230 | 30 | 2 |
| 20                        | 20 | 35  | 21,5 | 160 | -      | 266 | 19 | 200     | -           | -   | -   | -  | - | 260 | -  | - |
| 25                        | 24 | 44  | 29   |     |        |     |    |         | 180         | 68  | 130 | 26 | 4 | 260 | 38 | 2 |
| 32                        | 30 | 50  | 33   | 300 | -      | 418 | 23 | 360     | -           | -   | -   | -  | - | 300 | -  | - |
| 40                        | 38 | 62  | 40   |     |        |     |    |         | 220         | 88  | 165 | 30 | 4 | 300 | 48 | 3 |
| 50                        | 44 | 77  | 49,5 |     |        |     |    |         | 235         | 102 | 180 | 30 | 8 | 350 | 52 | 3 |
| 65                        | 62 | 91  | 62   | 340 | -      | 714 | 45 | GNR 700 | 290         | 122 | 225 | 33 | 8 | 400 | 64 | 3 |
| 80                        | 76 | 117 | 81   | 380 | -      | 637 | 36 | GNR 500 | 305         | 138 | 240 | 33 | 8 | 450 | 68 | 3 |
| 100                       | 92 | 144 | 102  | 430 | -      | 720 | 50 | GNR 500 | 370         | 162 | 295 | 39 | 8 | 520 | 80 | 3 |

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 | 520°C | 530°C | 540°C | 560°C | 570°C | 600°C |
|                            | bar |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| (P250GH)C 22.8<br>(1.0460) | 400 | 400,0   | 400,0 | 400,0 | 400,0 | 400,0 | 358,0 | 310,0 | 262,0 | 165,0 | -     | -     | -     | -     | -     | -     | -     | -     |
| 16Mo3<br>(1.5415)          | 400 | 400,0   | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 382,0 | 369,0 | 222,0 | 176,0 | 141,0 | 112,0 | -     | -     | -     | -     |
| 13CrMo4-5<br>(1.7335)      | 400 | 400,0   | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 327,0 | 276,0 | 224,0 | 186,0 | 146,0 | 95,0  | 79,0  | -     |
| 14MoV6-3<br>(1.7715)       | 400 | 400,0   | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 355,0 | 312,0 | 269,0 | 205,0 | 174,0 | -     |
| 10CrMo9-10<br>(1.7380)     | 400 | 400,0   | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 400,0 | 393,0 | 379,0 | 322,0 | 246,0 | 215,0 | 186,0 | 138,0 | 122,0 | 81,0  |

## 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.