

# CHECK VALVE TYPE 482

## CHARACTERISTIC:

|             |   |  |
|-------------|---|--|
| Diameter    | - | 15 -125 mm;  |
| Pressure    | - | 320 bar;   |
| Temperature | - | up to 670°C;   |
| Medium      | - | water, steam and other non-toxic, non aggressive liquid and gas media. |

## VERSIONS:

**type / ends / body material / disc and disc ring / others**

Example: 482 / --- / --- / --- / ---

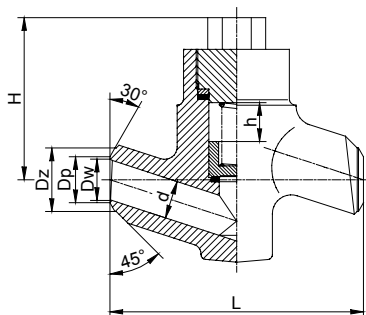
Example: 482 / K / U / --- / ---

| Ends                    | Sign | Body material   | Sign | Disc and disc ring | Sign | Others | Sign |
|-------------------------|------|-----------------|------|--------------------|------|--------|------|
| Standard-butt weld ends | ---  | (P250GH) C 22.8 | ---  | Standard           | ---  | -----  | ---  |
| Socket weld             | SW   | 16Mo3           | U    | Stellit ring       | L    |        |      |
| Flange by DIN or ANSI,  | K    | 13CrMo4-5       | A    |                    |      |        |      |
|                         |      | 11CrMo9-10      | B    |                    |      |        |      |
|                         |      | 14MoV6-3        | C    |                    |      |        |      |
|                         |      | X10CrMoVNb9-1   | E    |                    |      |        |      |

## APPLICATION:

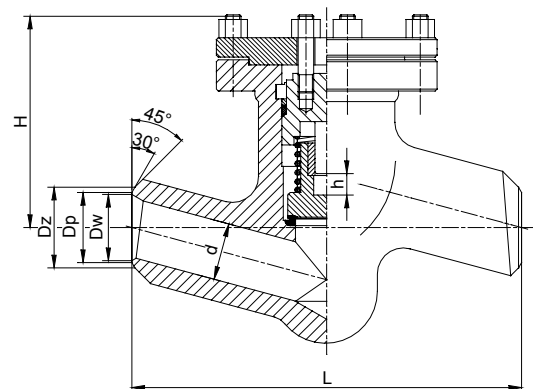
The check valve is designed to keep pipeline safe from returning the medium.

**DN 15 ÷ 25**

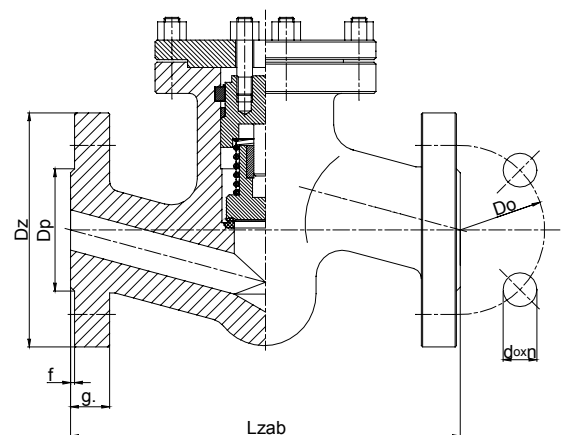
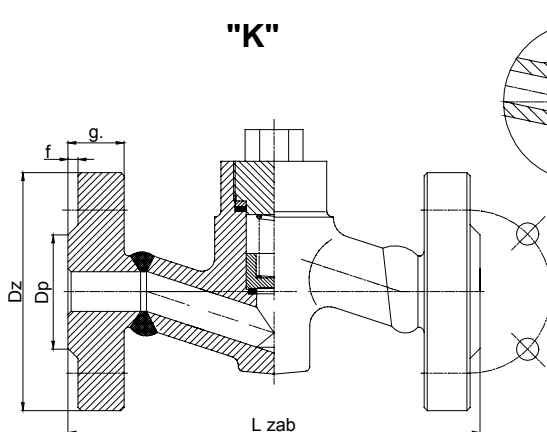


"SW"

**DN 32 ÷ 125**



"K"



KLINGER Portugal, Lda.

Via José Régio, 36

Centro Empresarial Vilar do Pinheiro

4485-860 Vila do Conde

T: +351 22 947 0910

E-mail: geral@klinger.pt

www.klinger.pt

## MATERIALS:

| Versions       | Standard                              | U                      | A                      | B                      | C                      | E                         |
|----------------|---------------------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|
| 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 | T <sub>MAX</sub> 570°C    |
| Body, bonnet   | (P250GH) C22.8<br>(1.0460)            | 16Mo3<br>(1.5415)      | 13CrMo4-5<br>(1.7335)  | 11CrMo9-10<br>(1.7383) | 14MoV6-3<br>(1.7715)   | X10CrMoVNb9-1<br>(1.4903) |
| Seat ring      | BT9 or G 18 8 Mn (1.4370) or Stellite |                        |                        |                        |                        |                           |
| Disc           | X20Cr13 (1.4021) , P245GH (1.0352)    |                        |                        |                        |                        | X10CrMoVNb9-1             |
| Disc ring      | G 18 8 Mn (1.4370) or Stellite        |                        |                        |                        |                        |                           |
| Spring         | 51CrV4 (1.2241)                       |                        |                        |                        |                        |                           |
| Gasket         | Grafit + austenite                    |                        |                        |                        |                        |                           |
| Bonnet DN > 32 | P265GH (1.0425)                       |                        |                        |                        |                        |                           |

Special materials on request; modifications reserved.

## DIMENSIONS:

| Standard – butt weld ends |     |     |       |     |        | H   |    | Flanged - "K" |     |     |     |    |    |                  |    |   |        |
|---------------------------|-----|-----|-------|-----|--------|-----|----|---------------|-----|-----|-----|----|----|------------------|----|---|--------|
| DN                        | d   | Dz  | Dw    | L   | Weight | H   | h  | DN            | Dz  | Dp  | Do  | do | n  | L <sub>zab</sub> | g. | f | Weight |
| 15                        | 14  | 22  | 15    | 160 | 4,00   | 235 | 15 | 15            | 130 | 45  | 90  | 18 | 4  | 230              | 26 | 2 | 8,70   |
| 20                        | 20  | 28  | 19    | 160 | 4,00   | 240 | 15 | 20            | 150 | 58  | 105 | 22 | 4  | 260              | 30 | 2 | 11,30  |
| 25                        | 24  | 35  | 24    | 160 | 4,00   | 240 | 15 | 25            | 160 | 68  | 115 | 22 | 4  | 260              | 34 | 2 | 13,30  |
| 32                        | 30  | 44  | 31,5  | 300 | 15,00  | 365 | 27 | 32            | -   | -   | -   | -  | -  | 300              | -  | - | -      |
| 40                        | 38  | 50  | 36    | 300 | 15,00  | 365 | 27 | 40            | 195 | 88  | 145 | 26 | 4  | 300              | 38 | 3 | 30,20  |
| 50                        | 44  | 77  | 59,5  | 300 | 15,00  | 365 | 27 | 50            | 210 | 102 | 160 | 26 | 8  | 350              | 42 | 3 | 32,00  |
| 65                        | 62  | 91  | 68    | 340 | 26,50  | 450 | 30 | 65            | 255 | 122 | 200 | 30 | 8  | 400              | 51 | 3 | 57,80  |
| 80                        | 76  | 117 | 87,5  | 380 | 55,50  | 580 | 40 | 80            | 275 | 138 | 220 | 30 | 8  | 450              | 55 | 3 | 93,00  |
| 100                       | 92  | 144 | 109,5 | 430 | 71,00  | 620 | 55 | 100           | 335 | 162 | 265 | 36 | 8  | 520              | 65 | 3 | 138,50 |
| 125                       | 112 | 172 | 130,5 | 500 | 91,00  | 670 | 65 | 125           | 380 | 188 | 310 | 36 | 12 | 600              | 75 | 3 | 186,90 |

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 |
| (P250GH)C 22.8<br>(1.0460) | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 358,0 | 310,0 | 262,0 | 165,0 | -     | -     | -     | -     | -     | -     | -     | -     |
| 16Mo3<br>(1.5415)          | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 222,0 | 176,0 | 141,0 | 112,0 | -     | -     | -     | -     |
| 13CrMo4-5<br>(1.7335)      | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 276,0 | 224,0 | 186,0 | 146,0 | 95,0  | 79,0  | -     |
| 14MoV6-3<br>(1.7715)       | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 312,0 | 269,0 | 205,0 | 174,0 | -     |
| 11CrMo9-10<br>(1.7383)     | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 320,0 | 246,0 | 215,0 | 186,0 | 138,0 | 122,0 | 81,0  |

| Body material             | PN  | Maximal working pressure at working temperature |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           |     | 20°C  | 530°C | 540°C | 550°C | 560°C | 570°C | 580°C | 590°C | 600°C | 610°C | 620°C | 630°C | 640°C | 650°C | 660°C | 670°C |
| X10CrMoVNb9-1<br>(1.4903) | 320 | 320,0   | 320,0 | 320,0 | 320,0 | 320,0 | 319,0 | 286,0 | 253,0 | 224,0 | 198,0 | 174,0 | 155,0 | 134,0 | 117,0 | 100,0 | 86,0  |

## 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.