

# CHECK VALVE ACID-PROOF TYPE ZZA250

## CHARACTERISTIC:

|             |   |                                                                                                        |
|-------------|---|--------------------------------------------------------------------------------------------------------|
| Diameter    | - | 15 -125 mm;                                                                                            |
| Pressure    | - | 250 bar                                                                                                |
| Temperature | - | up to 250°C for acids, bases and other aggressive media;                                               |
|             | - | up to 560°C for non-toxic media; (with PTFE sealing up to 200°C);                                      |
| Medium      | - | acids, liquors, water, steam and other non-toxic and non aggressive liquid and gas media, engine fuel. |

## VERSIONS:

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

**Example: ZZA250 / --- / --- / ---**

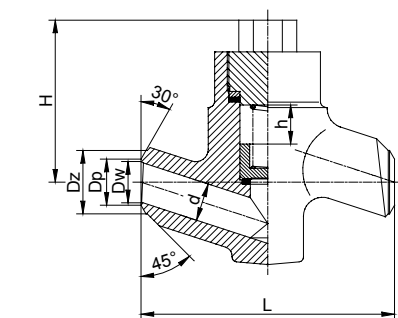
**Example: ZZB250 / S / P / ---**

| Type - body material                   | Sign          | Ends               | Sign      | Disc and disc ring | Sign     | Others | Sign |
|----------------------------------------|---------------|--------------------|-----------|--------------------|----------|--------|------|
| X6CrNi18-10<br>or GX5CrNi19-10         | <b>ZZA250</b> | Standard - flanged | ---       | Standard           | ---      | -----  | ---  |
| X2CrNiMo17-12-2<br>or GX5CrNiMo19-11-2 | <b>ZZB250</b> | Butt weld ends     | <b>S</b>  | PTFE ring          | <b>P</b> |        |      |
|                                        |               | Socket weld        | <b>SW</b> | NBR ring           | <b>N</b> |        |      |
|                                        |               | Threaded           | <b>G</b>  |                    |          |        |      |

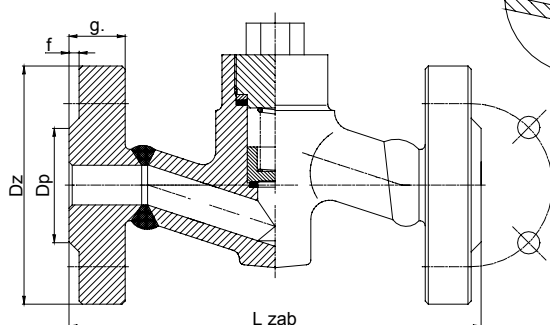
## APPLICATION:

The check valves are designed to keep pipeline safe from returning the medium.

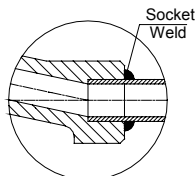
**DN 15 ÷ 25**



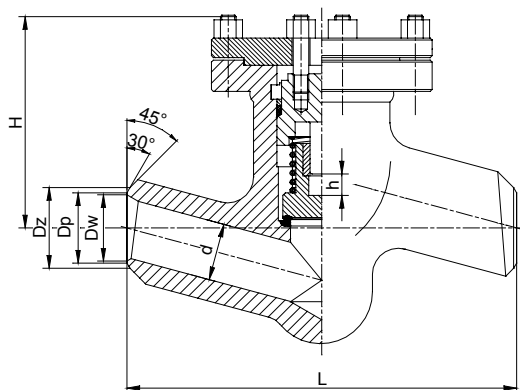
**"K"**



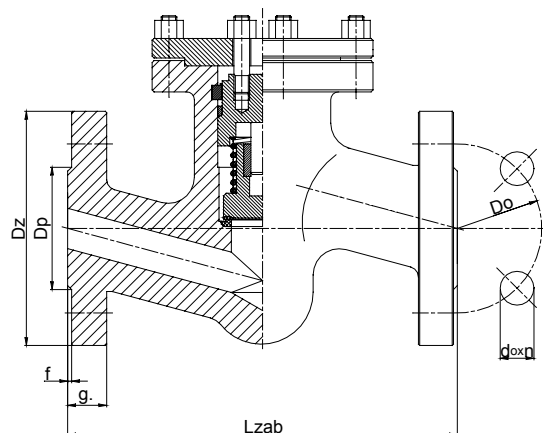
**"SW"**



**DN 32 ÷ 125**



**"K"**



# WK

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## MATERIALS:

| Versions     | ZZA250                    | ZZB250                      | ZZA250                    | ZZB250                       |
|--------------|---------------------------|-----------------------------|---------------------------|------------------------------|
| Parts        | DN 15 - 50                |                             | DN 65 - 125               |                              |
| Body, bonnet | X6CrNiTi18-10<br>(1.4541) | X2CrNiMo17-12-2<br>(1.4404) | GX5CrNi19-10<br>(1.4308)  | GX5CrNiMo19-11-2<br>(1.4408) |
| Disc         | X6CrNiTi18-10<br>(1.4541) | X2CrNiMo17-12-2<br>(1.4404) | X6CrNiTi18-10<br>(1.4541) | X2CrNiMo17-12-2<br>(1.4404)  |
| Spring       | X6CrNiTi18-10 (1.4541)    |                             |                           |                              |
| Gasket       | Grafit                    |                             |                           |                              |

Special materials on request; modifications reserved.

## DIMENSIONS:

| Standard – butt weld ends |     |     |       |     |        | H   | h  | Flanged - "K" |     |     |     |    |    |                  |    |   |        |
|---------------------------|-----|-----|-------|-----|--------|-----|----|---------------|-----|-----|-----|----|----|------------------|----|---|--------|
| DN                        | d   | Dz  | Dw    | L   | Weight |     |    | DN            | Dz  | Dp  | Do  | do | n  | L <sub>zab</sub> | g. | f | Weight |
| 15                        | 14  | 22  | 16    | 160 | 4,00   | 235 | 15 | 15            | 130 | 45  | 90  | 18 | 4  | 230              | 26 | 2 | 8,70   |
| 20                        | 20  | 28  | 19,5  | 160 | 4,00   | 240 | 15 | 20            | 150 | 58  | 105 | 22 | 4  | 260              | 28 | 2 | 11,30  |
| 25                        | 24  | 35  | 26,5  | 160 | 4,00   | 240 | 15 | 25            | 150 | 68  | 105 | 22 | 4  | 260              | 28 | 2 | 13,30  |
| 32                        | 32  | 44  | 32,5  | 300 | 15,00  | 365 | 27 | 32            | -   | -   | -   | -  | -  | -                | -  | - | -      |
| 40                        | 38  | 50  | 38,5  | 300 | 15,00  | 365 | 27 | 40            | 185 | 88  | 135 | 26 | 4  | 300              | 34 | 3 | 30,20  |
| 50                        | 48  | 62  | 45    | 300 | 15,00  | 365 | 27 | 50            | 200 | 102 | 150 | 26 | 8  | 350              | 38 | 3 | 32,00  |
| 65                        | 62  | 77  | 59,5  | 340 | 26,50  | 450 | 30 | 65            | 230 | 122 | 180 | 26 | 8  | 400              | 42 | 3 | 57,80  |
| 80                        | 76  | 117 | 93    | 380 | 55,50  | 580 | 40 | 80            | 255 | 138 | 200 | 30 | 8  | 450              | 46 | 3 | 93,00  |
| 100                       | 92  | 144 | 116,5 | 430 | 71,00  | 620 | 55 | 100           | 300 | 162 | 235 | 33 | 8  | 520              | 54 | 3 | 138,50 |
| 125                       | 112 | 172 | 138,5 | 500 | 91,00  | 670 | 65 | 125           | 340 | 188 | 275 | 33 | 12 | 600              | 60 | 3 | 186,90 |

Dimensions in mm; modifications reserved.

## TECHNICAL DATA:

| Body material             | Medium               | PN  | Nominal 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 |
|                           |                      |     | bar                                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| X6CrNiTi18-10<br>(1.4541) | Aggressive media     | 250 | 250                                             | 248   | 233   | 221   | 211   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| GX5CrNi19-10<br>(1.4308)  |                      | 250 | 238                                             | 191   | 170   | 149   | 140   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| X6CrNiTi18-10<br>(1.4541) | Non Aggressive media | 250 | 250                                             | 248   | 233   | 221   | 211   | 199   | 192   | 186   | 182   | 180   | 177   | 177   | 176   | 176   | 175   | 169   |
| GX5CrNi19-10<br>(1.4308)  |                      | 250 | 238                                             | 191   | 170   | 149   | 140   | 131   | 122   | 113   | 104   | 98    | 95    | -     | -     | -     | -     | -     |

## 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. Check 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.