# Y-TYPE STOP GLOBE VALVE ACID-PROOF
# TYPE ZYA40

## CHARACTERISTIC:

| | | |
|---|---|---|
| Diameter | - | 15 -200 mm; |
| Pressure | - | 40 bar (flanged may be drilled for 6, 10, 16, 25, bar) |
| Temperature | - | up to 250°C for acids, bases and other aggressive media; |
| | - | up to 550°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: ZYA40 / --- / --- / ---**

**Example: ZYB40 / S / P / ---**

| Type - body material | Sign |
|---|---|
| X6CrNi18-10 or GX5CrNi19-10 | **ZYA40** |
| X2CrNiMo17-12-2 or GX5CrNiMo19-11-2 | **ZYB40** |
| | |

| Ends | Sign |
|---|---|
| Standard - flanged | **---** |
| Butt weld ends | **S** |
| Socket weld | **SW** |
| Threaded | **G** |
| | |
| | |

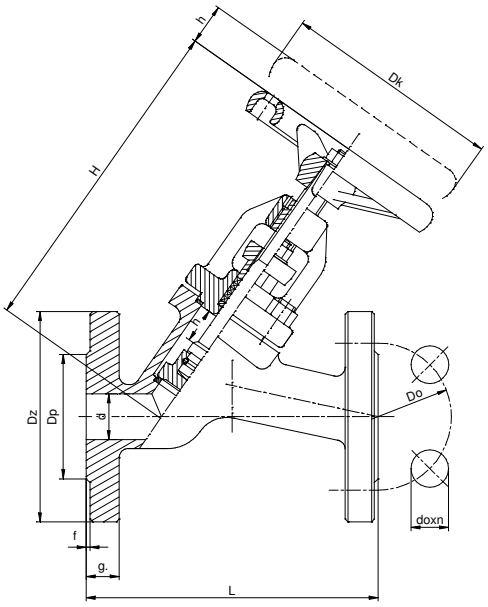
| Disc and disc ring | Sign |
|---|---|
| Standard | **---** |
| Throttle plug | **R** |
| Throttle plug | **RR** |
| Throttle plug | **Q** |
| PTFE ring | **P** |
| NBR ring | **N** |

| Others | Sign |
|---|---|
| ------ | **---** |
| | |
| | |
| | |
| | |
| | |

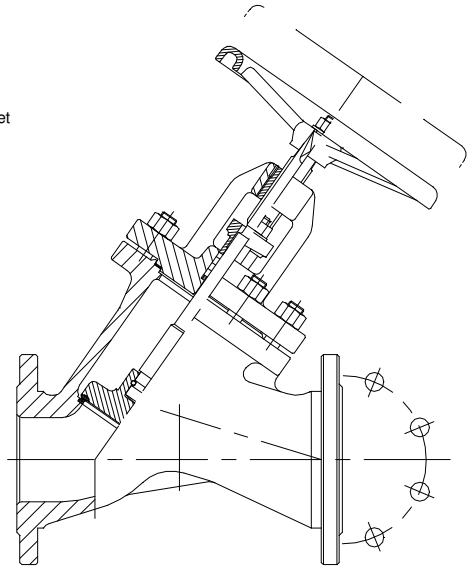
## APPLICATION:

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.

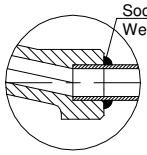
**DN 15 - 50**



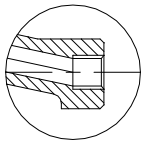

**DN 65 -200**



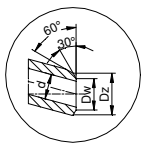
**"SW"**



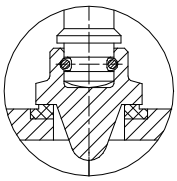

**"G"**



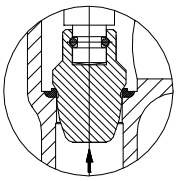
**"S"**



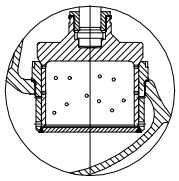

Throttle plug **„R”**



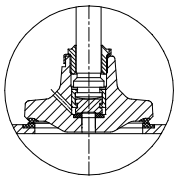
Throttle plug **„RR”**



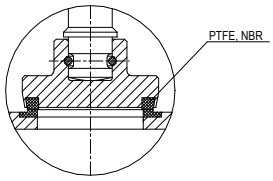
Throttle plug **„Q”**



Equilibrating disc DN 125-200



$T_{max}$ 200°C





LRQA CERTIFIED ISO 9001

® **FABRYKA ARMATURY PRZEMYSŁOWEJ**

**WAKMET Sp. z o.o.**

***Bodzanów 75 48-340 GŁUCHOŁAZY***

*tel.+48 77 439-40-20, fax +48 77 439-18-72*

*wakmet@wakmet.com.pl* *www.wakmet.com.pl*

## MATERIALS:

| Versions | ZYA40 | ZYB40 | ZYA40 | ZYB40 |
|---|---|---|---|---|
| **Parts** | **DN 15 - 50** | | **DN 65 - 200** | |
| Body, bonnet | X6CrNiTi18-10 (1.4541) | X2CrNiMo17-12-2 (1.4404) | GX5CrNi19-10 (1.4308) | GX5CrNiMo19-11-2 (1.4408) |
| Disc | X6CrNiTi18-10 (1.4541) | X2CrNiMo17-12-2 (1.4404) | X6CrNiTi18-10 (1.4541) | X2CrNiMo17-12-2 (1.4404) |
| Stem | X6CrNiTi18-10 (1.4541) | X2CrNiMo17-12-2 (1.4404) | X6CrNiTi18-10 (1.4541) | X2CrNiMo17-12-2 (1.4404) |
| Packing rings | Grafit | | | |
| Wheel | Cast iron | | | |

Special materials on request; modifications reserved.

## DIMENSIONS:

| DN | Standard - flanged | | | | | | | | | | | | | | | | | | With butt weld ends | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PN 40 | | | | | | | | | | | | PN 16 | | | | | | | | |
| | Dz | Dp | Do | do | n | L | g. | f | H | h | Dk | Weight | Dz | Dp | Do | do | n | | Dz | Dw | Weight |
| **15** | 95 | 45 | 65 | 14 | 4 | 130 | 16 | 2 | 178 | 13 | 120 | 3,90 | 95 | 45 | 65 | 14 | 4 | | 22 | 17 | 2,30 |
| **20** | 105 | 58 | 75 | 14 | 4 | 150 | 18 | 2 | 178 | 13 | 120 | 4,50 | 105 | 58 | 75 | 14 | 4 | | 28 | 22 | 2,50 |
| **25** | 115 | 68 | 85 | 14 | 4 | 160 | 18 | 2 | 178 | 13 | 120 | 5,00 | 115 | 68 | 85 | 14 | 4 | | 35 | 28,5 | 2,60 |
| **32** | 140 | 78 | 100 | 18 | 4 | 180 | 18 | 2 | 225 | 15 | 160 | 8,70 | 140 | 78 | 100 | 18 | 4 | | 44 | 37 | 4,90 |
| **40** | 150 | 88 | 110 | 18 | 4 | 200 | 18 | 3 | 235 | 19 | 160 | 10,50 | 150 | 88 | 110 | 18 | 4 | | 50 | 43 | 6,20 |
| **50** | 165 | 102 | 125 | 18 | 4 | 230 | 20 | 3 | 245 | 24 | 160 | 12,50 | 165 | 102 | 125 | 18 | 4 | | 62 | 54 | 7,70 |
| **65** | 185 | 122 | 145 | 18 | 8 | 290 | 22 | 3 | 270 | 30 | 200 | 32,00 | 185 | 122 | 145 | 18 | 4 | | 77 | 69 | 24,70 |
| **80** | 200 | 138 | 160 | 18 | 8 | 310 | 24 | 3 | 325 | 40 | 250 | 42,50 | 200 | 138 | 160 | 18 | 8 | | 91 | 81 | 33,60 |
| **100** | 235 | 162 | 190 | 22 | 8 | 350 | 24 | 3 | 440 | 45 | 320 | 61,30 | 220 | 158 | 180 | 18 | 8 | | 117 | 104 | 49,60 |
| **125** | 270 | 188 | 220 | 26 | 8 | 400 | 26 | 3 | 487 | 55 | 280 | 85,40 | 250 | 184 | 210 | 18 | 8 | | 144 | 130,5 | 69,30 |
| **150** | 300 | 218 | 250 | 26 | 8 | 480 | 28 | 3 | 550 | 65 | 320 | 133,00 | 285 | 212 | 240 | 22 | 8 | | 172 | 156,5 | 113,00 |
| **200** | 375 | 285 | 320 | 30 | 12 | 600 | 34 | 3 | 648 | 75 | 400 | 198,00 | 340 | 268 | 295 | 22 | 12 | | 223 | 204,5 | 162,20 |

Dimensions in mm; modifications reserved.

## TECHNICAL DATA:

| Body material | Medium | 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 |
| | | | bar | | | | | | | | | | | | | | | |
| **X6CrNiTi18-10** (1.4541) | aggressive media | **40** | 40,0 | 39,6 | 37,3 | 35,4 | 33,7 | - | - | - | - | - | - | - | - | - | - | - |
| **GX5CrNi19-10** (1.4308) | | **40** | 40,0 | 35,2 | 30,5 | 27,1 | 23,8 | - | - | - | - | - | - | - | - | - | - | - |
| **X6CrNiTi18-10** (1.4541) | non aggressive media | **40** | 40,0 | 39,6 | 37,3 | 35,4 | 33,7 | 31,8 | 30,6 | 29,7 | 29,0 | 28,7 | 28,3 | 28,0 | 27,8 | 27,5 | 27,2 | 27,0 |
| **GX5CrNi19-10** (1.4308) | | **40** | 40,0 | 35,2 | 30,5 | 27,1 | 23,8 | 22,4 | 20,9 | 19,5 | 18,1 | 16,7 | 15,2 | - | - | - | - | - |
| **X2CrNiMo17-12-2** (1.4404) | Aggressive media | **40** | 40,0 | 40,0 | 39,1 | 37,1 | 36,7 | - | - | - | - | - | - | - | - | - | - | - |
| **GX5CrNiMo19-11-2** (1.4408) | | **40** | 40,0 | 32,4 | 29,1 | 25,7 | 23,8 | - | - | - | - | - | - | - | - | - | - | - |
| **X2CrNiMo17-12-2** (1.4404) | Non Aggressive media | **40** | 40,0 | 40,0 | 39,1 | 37,1 | 36,7 | 34,5 | 33,1 | 32,1 | 31,3 | 30,7 | 30,5 | 30,4 | 30,3 | 30,3 | 30,3 | 30,2 |
| **GX5CrNiMo19-11-2** (1.4408) | | **40** | 40,0 | 32,4 | 29,1 | 25,7 | 23,8 | 21,9 | 20,9 | 20,0 | 19,4 | 19,2 | 19,1 | - | - | - | - | - |

## 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.