

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

Carbon steel globe valve TRIM8 flanged Class 150 PN20 full bore for water distribution, gas oil, steam, petrochemical, petroleum industry and gas.

Graphite packing for stem and gasket bonnet in stainless steel+graphite..

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.



PED 2014/68/UE



Size : DN50 to DN300 (NPS 2" to 12")

Connection : Flanges RF Class 150 PN20

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 20 Bars

Specifications : Rising and rotating stem

Bolted bonnet and packing

Full bore

Materials : Carbon steel ASTM A216 WCB

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

SPECIFICATIONS :

- Full bore
- Rising rotating stem
- Rising handwheel
- Respect the flow direction indicated by the arrow
- Flanges R.F. Class 150 (PN20)
- Carbon steel
- Bolted bonnet and gland pack
- ½ stellite (Trim 8 , seat with stellite)
- Acrylic grey painting RAL 7001 color, 60 µm thickness

USE :

- Water distribution, gas oil, steam, petrochemical, petroleum industry, gas
- Min and max Temperature Ts : - 29°C to + 425°C
- Max Pressure Ps : 20 bars
- **Tighten the gland packing in service**

FLOW COEFFICIENT Kvs :

| | | | | | | | |
|-----------|----|------|-----|-----|-----|-----|------|
| DN (mm) | 50 | 80 | 100 | 150 | 200 | 250 | 300 |
| NPS (") | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
| Kvs | 39 | 99.8 | 156 | 351 | 624 | 975 | 1404 |

PRESSURE / TEMPERATURE RELATION :

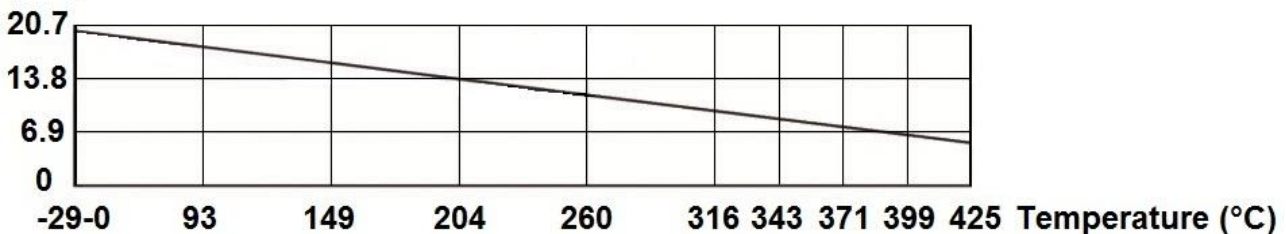
(According to AMSE B16-34 for A216 WCB)

| | | | | | | | | | | | |
|--------------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| Pressure (Bar) | 19.6 | 19.6 | 17.9 | 15.8 | 13.8 | 11.7 | 9.6 | 8.6 | 7.6 | 6.5 | 5.5 |
| Temperature (°C) | -29 | 38 | 93 | 149 | 204 | 260 | 316 | 343 | 371 | 399 | 425 |

PRESSURE / TEMPERATURE GRAPH :

Pressure

(Bar)



CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8**TORQUE VALUE (in Nm without safety coefficient) :**

| | | | | | | | |
|---------------|----|----|-----|-----|-----|-----|-----|
| DN | 50 | 80 | 100 | 150 | 200 | 250 | 300 |
| NPS (") | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
| Torque (Nm) | 19 | 45 | 67 | 129 | 245 | 385 | 601 |

NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :

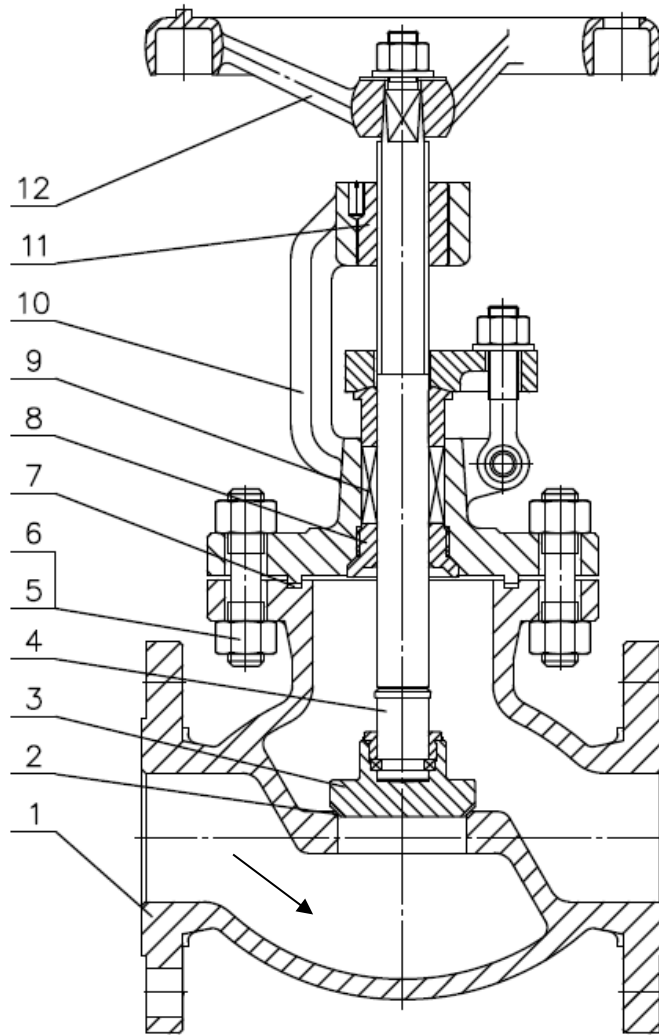
| | | | | | | | |
|------------------|----|----|-----|-----|-----|-----|-----|
| DN | 50 | 80 | 100 | 150 | 200 | 250 | 300 |
| NPS (") | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
| Number of cycles | 5 | 5 | 7 | 9 | 11 | 11 | 13 |

RANGE :

- Carbon steel globe valve R.F. flanged Class 150 (PN20) Ref. 443 From DN 50 to DN 300 (NPS 2" to 12")

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

MATERIALS DN50-200 (NPS 2"-8"):

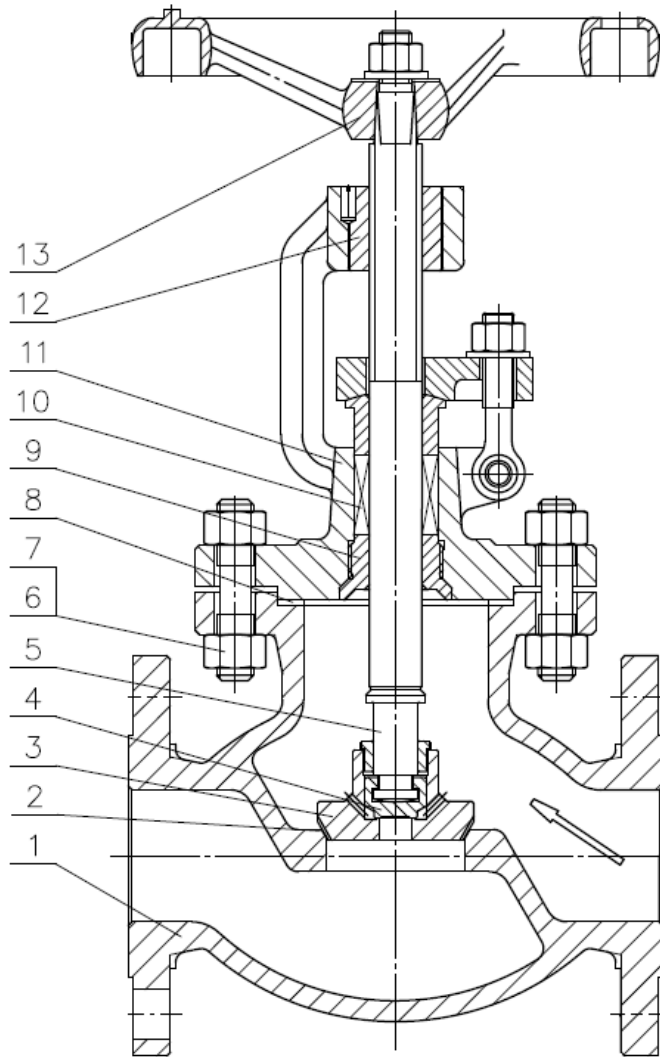


(* : included in gaskets kit)

| Item | Designation | Materials |
|------|-------------------|-------------------------|
| 1 | Body | ASTM A216 WCB |
| 2 | Seat | Deposited stellite Gr.6 |
| 3 | Disc | ASTM A105 + 13Cr |
| 4 | Stem | ASTM A182 F6a |
| 5 | Stem bolt | ASTM A193 Gr B7 |
| 6 | Nut | ASTM A194 Gr 2H |
| 7* | Bonnet gasket | AISI 304 + graphite |
| 8* | Back seat bushing | ASTM A276-420 |
| 9* | Packing | Flexible graphite |
| 10 | Bonnet | ASTM A216 WCB |
| 11 | Stem nut | Aluminium + Bronze |
| 12 | Handwheel | Cast iron |

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

MATERIALS DN250-300 (NPS 10"-12"):

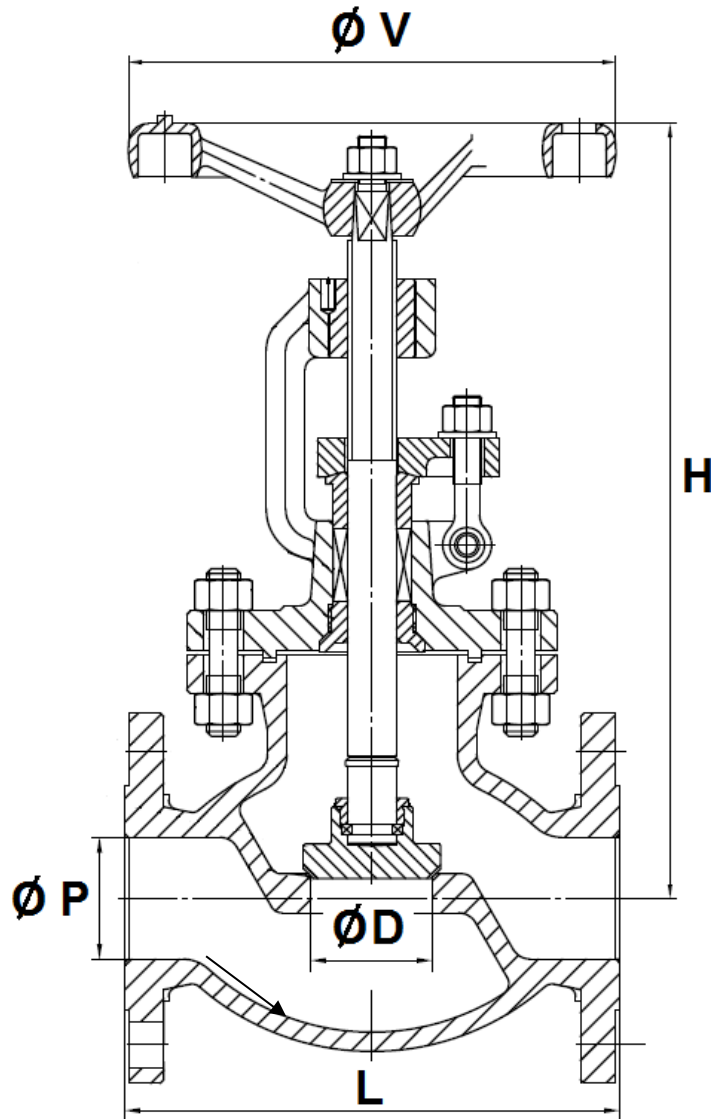


(* : included in gaskets kit)

| Item | Designation | Materials |
|------|-------------------|-------------------------|
| 1 | Body | ASTM A216 WCB |
| 2 | Seat | Deposited stellite Gr.6 |
| 3 | Disc | ASTM A105 + 13Cr |
| 4 | Secondary disc | ASTM A276-420 |
| 5 | Stem | ASTM A182 F6a |
| 6 | Stud bolt | ASTM A193 Gr B7 |
| 7 | Nut | ASTM A194 Gr 2H |
| 8* | Bonnet gasket | AISI 304 + graphite |
| 9* | Back seat bushing | ASTM A276-410 |
| 10* | Packing | Flexible graphite |
| 11 | Bonnet | ASTM A216 WCB |
| 12 | Stem nut | Aluminium + Bronze |
| 13 | Handwheel | Cast iron |

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

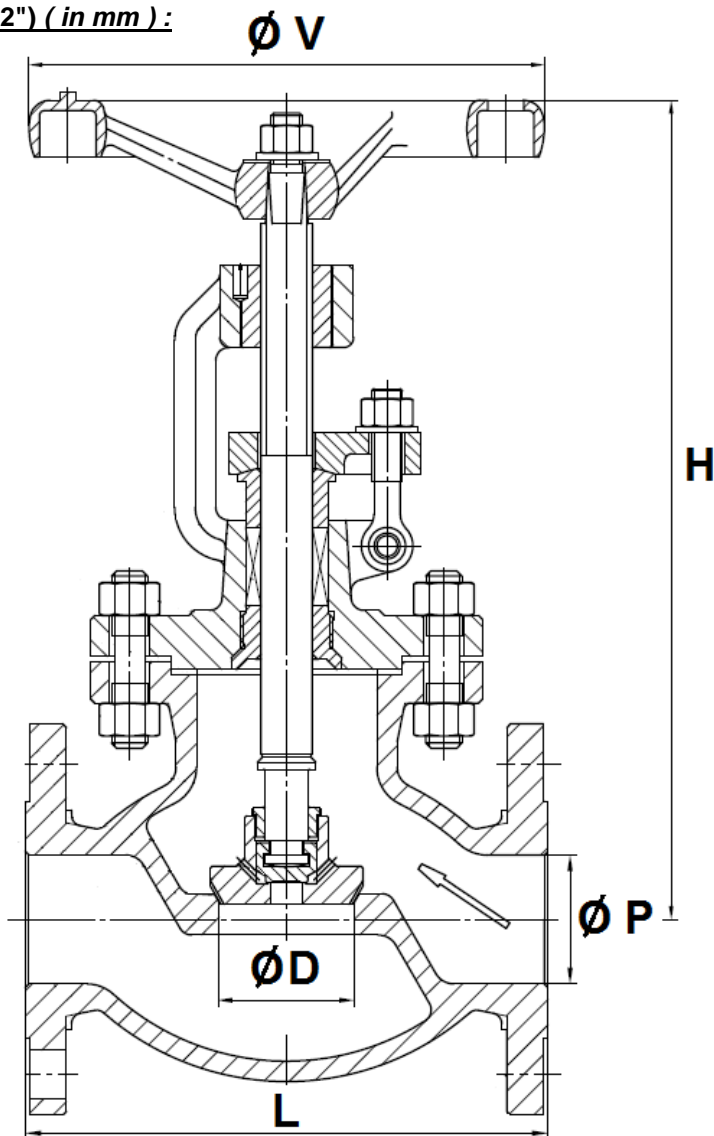
SIZE DN50-200 (NPS 2"-8") (in mm) :



| DN (mm) | 50 | 80 | 100 | 150 | 200 |
|----------------|--------|--------|--------|--------|--------|
| NPS (") | 2" | 3" | 4" | 6" | 8" |
| Ø P | 51 | 76 | 102 | 152 | 203 |
| Ø D | 51 | 76 | 102 | 152 | 200 |
| L | 203 | 241 | 292 | 406 | 495 |
| H (opened) | 327 | 390 | 438 | 555 | 666 |
| H (closed) | 310 | 365 | 404 | 504 | 598 |
| Ø V | 200 | 240 | 280 | 350 | 400 |
| Weight (in Kg) | 17 | 34 | 49 | 95 | 160 |
| Ref. | 443050 | 443080 | 443100 | 443150 | 443200 |

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

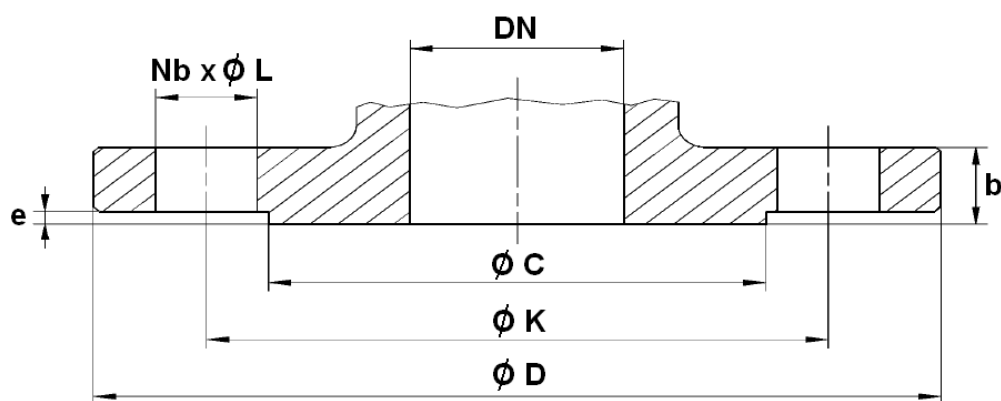
SIZE DN250-300 (NPS 10"-12") (in mm) :



| | | |
|------------------|--------|--------|
| DN (mm) | 250 | 300 |
| NPS (") | 10" | 12" |
| Ø P | 254 | 305 |
| Ø D | 245 | 290 |
| L | 622 | 698 |
| H (opened) | 925 | 1042 |
| H (closed) | 840 | 940 |
| Ø V | 500 | 600 |
| Weight (in Kg) | 245 | 339 |
| Ref. | 443250 | 443300 |

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8

FLANGES SIZE (in mm) :



| DN (mm) | 50 | 80 | 100 | 150 | 200 | 250 | 300 |
|-----------|--------|--------|--------|--------|--------|---------|---------|
| NPS (") | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
| Ø C | 92.1 | 127 | 157.2 | 215.9 | 269.9 | 323.8 | 381 |
| Ø D | 150 | 190 | 230 | 280 | 345 | 405 | 485 |
| Ø K | 120.7 | 152.4 | 190.5 | 241.3 | 298.5 | 362 | 431.8 |
| Nb x Ø L | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 22 | 8 x 22 | 12 x 26 | 12 x 26 |
| b | 16.3 | 19.5 | 24.3 | 25.9 | 29 | 30.6 | 32.2 |
| e | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

CARBON STEEL GLOBE VALVE FLANGED CLASS 150 PN20 TRIM8**STANDARDS :**

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : CE N° 0036
Risk category III Module H
- Certificate 3.1 on request
- Designing according to BS 1873
- Pressure Tests according to API 598, table 6
- Length according to ASME B16.10, table 1 A15 series and EN 558 series 10 (EN558 series 7 for DN150 6")
- Flanges R.F. according to ASME B16.05 Class 150
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 (optional marking) according to directive 2014/34/EU
- Materials according to NACE MR 01-75 **on request**