



# DATA SHEET

## KVD / KVN



### GENERAL FEATURES

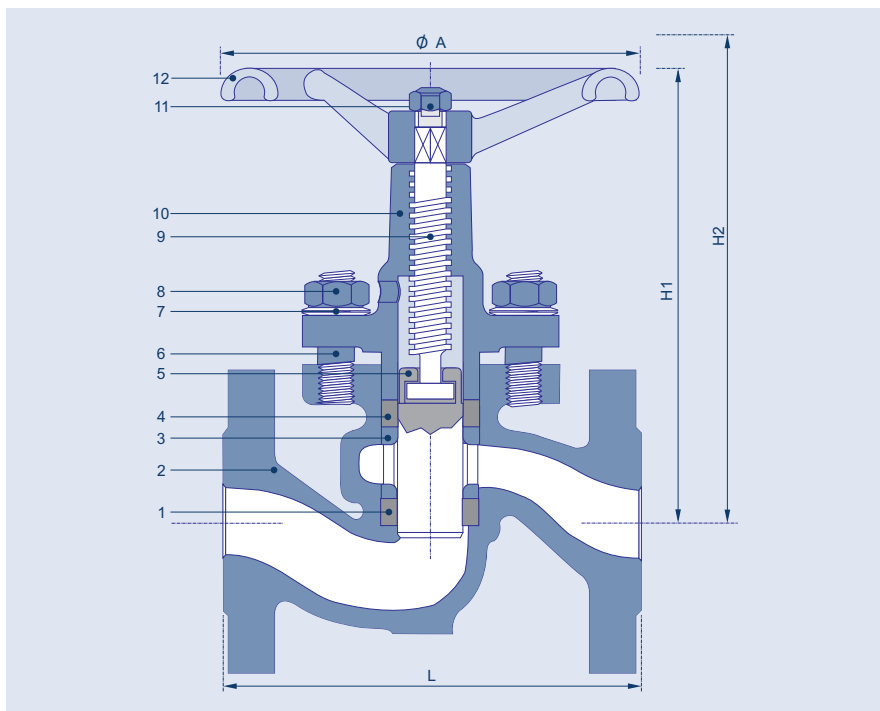
- » Reliable, leak-tight shut off – in line and to the atmosphere;
- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

- » Flange ANSI B16.5 - Class 150 (KVN);
- » Flange ANSI B16.5 - Class 300 (KVD).

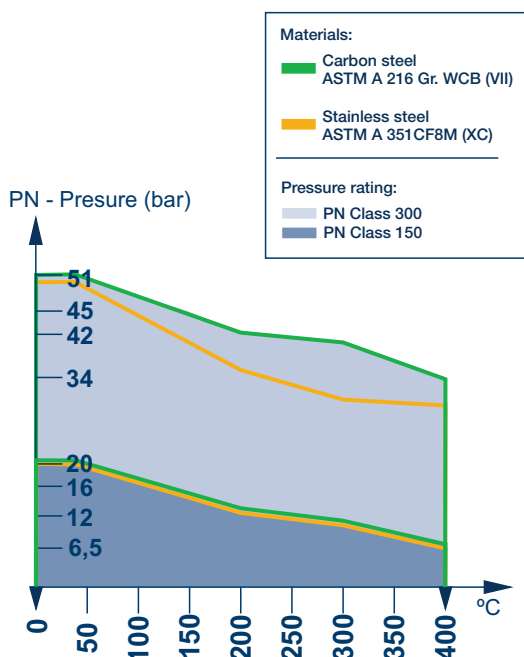
### DIMENSIONS

- » ANSI B16.10.



### KVN (ANSI 150#) | KVD (ANSI 300#)

| DN<br>(pol.) | Dimensions (mm) |           |     |     |     | Weight (kg)         |
|--------------|-----------------|-----------|-----|-----|-----|---------------------|
|              | L               |           | H1  | H2  | A   | Material<br>VII, XC |
|              | ANSI 150#       | ANSI 300# |     |     |     |                     |
| 1/2"         | 108             | 152       | 110 | 130 | 95  | 3,5                 |
| 3/4"         | 117             | 178       | 135 | 160 | 120 | 5,0                 |
| 1"           | 127             | 203       | 150 | 185 | 160 | 7,0                 |
| 1.1/2"       | 165             | 229       | 200 | 250 | 200 | 13,0                |
| 2"           | 203             | 267       | 225 | 275 | 200 | 18,0                |



| Components          | Materials          |                 |
|---------------------|--------------------|-----------------|
|                     | VII                | XC              |
| 1 Lower valve ring  | KX-GT*             | KX-GT*          |
| 2 Body              | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 3 Lantern bush      | SAE 1020           | ASTM A 351 CF8M |
| 4 Upper valve ring  | KX-GT*             | KX-GT*          |
| 5 Piston            | ASTM A 351CF8      | ASTM A 351 CF8M |
| 6 Stud bolt         | 5,6                | AISI 316        |
| 7 Belleville washer | SAE 1070           | AISI 316        |
| 8 Bonnet nut        | 5                  | AISI 316        |
| 9 Spindle           | AISI 410           | ASTM A 182 F316 |
| 10 Bonnet           | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 11 Handwheel nut    | 5                  | AISI 316        |
| 12 Handwheel        | GG-25              | GG-25           |

\*Also available with PTFE sealing ring.



### GENERAL FEATURES

- » Reliable, leak-tight shut off – in line and to the atmosphere ;
- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings ;
- » Special cages design available for regulation purposes;
- » Recommended for heat transfer fluids.

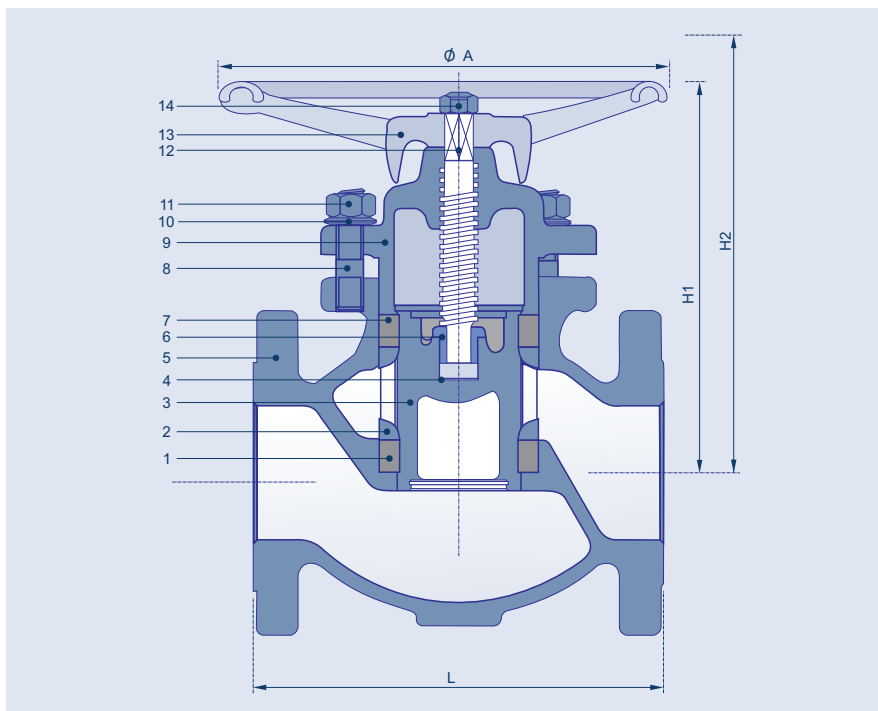
### CONNECTIONS

- » Flange ANSI B16.5 - Class 150.

### DIMENSIONS

- » ANSI B16.10.

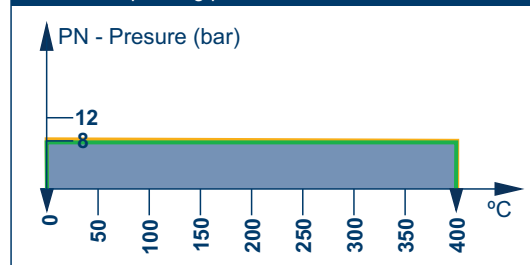
### KVN (ANSI 150#)



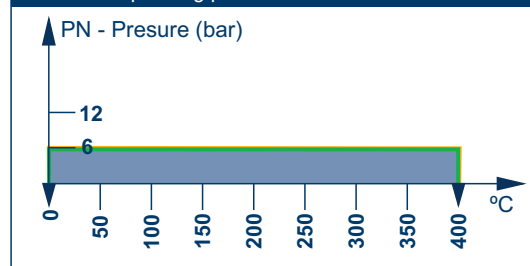
| DN<br>(pol.) | Dimensions (mm) |     |     |     | Weight (kg)         |
|--------------|-----------------|-----|-----|-----|---------------------|
|              | L               | H1  | H2  | A   | Material<br>VII, XC |
|              | ANSI 150#       |     |     |     |                     |
| 2. 1/2"      | 216             | 198 | 248 | 280 | 28                  |
| 3"           | 241             | 223 | 280 | 280 | 35                  |
| 4"           | 292             | 265 | 340 | 360 | 55                  |
| 6"           | 406             | 337 | 435 | 400 | 98                  |

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| Materials:                               |                                         |
| Carbon steel<br>ASTM A 216 Gr. WCB (VII) | Stainless steel<br>ASTM A 351 CF8M (XC) |

Maximum operating pressure - DN 2.1/2" and 3" - 8 bar



Maximum operating pressure - DN 4" and 6" - 6 bar



| Components |                   | Materials          |                 |
|------------|-------------------|--------------------|-----------------|
|            |                   | VII                | XC              |
| 1          | Lower valve ring  | KX-GT*             | KX-GT*          |
| 2          | Lantern bush      | ASTM A 126 CL.B    | ASTM A 351 CF8M |
| 3          | Piston            | ASTM A 351 CF8     | ASTM A 351 CF8M |
| 4          | Disc              | Brass              | Brass           |
| 5          | Body              | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 6          | Split nut         | 5,6                | AISI 316        |
| 7          | Upper valve ring  | KX-GT*             | KX-GT*          |
| 8          | Stud bolt         | 5,6                | AISI 316        |
| 9          | Bonnet            | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 10         | Belleville washer | SAE 1070           | AISI 316        |
| 11         | Nut               | 5                  | AISI 316        |
| 12         | Spindle           | AISI 410           | ASTM A 182 F316 |
| 13         | Handwheel         | GG-25              | GG-25           |
| 14         | Handwheel nut     | 5                  | AISI 316        |

\*Also available with PTFE sealing ring.



### GENERAL FEATURES

- » Reliable, leak-tight shut off – in line and to the atmosphere;
- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

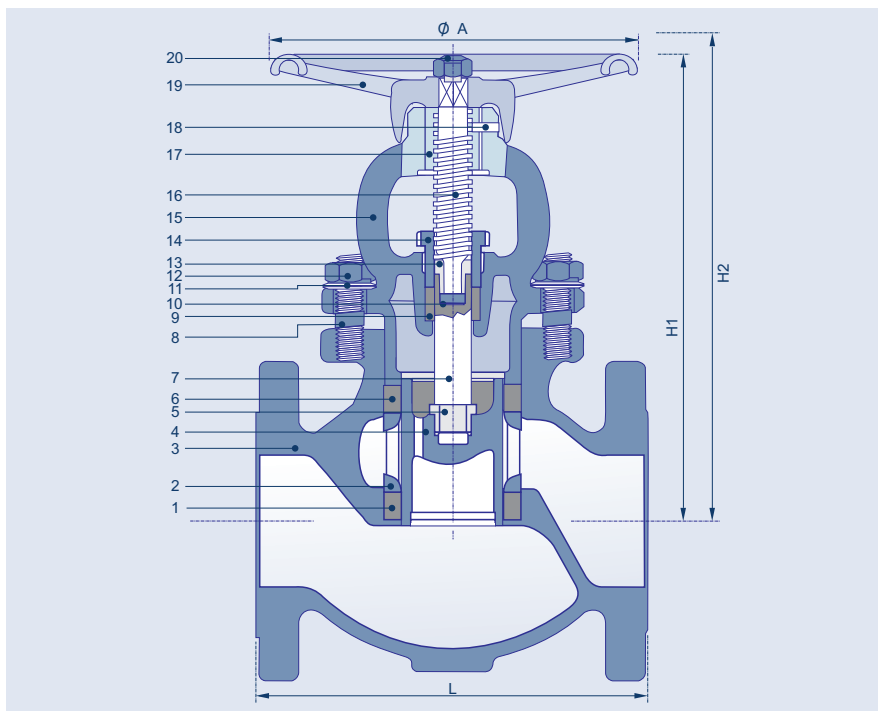
- » Flange ANSI B16.5 - Class 150;
- » Flange ANSI B16.5 - Class 300;

### DIMENSIONS

- » ANSI B16.10.

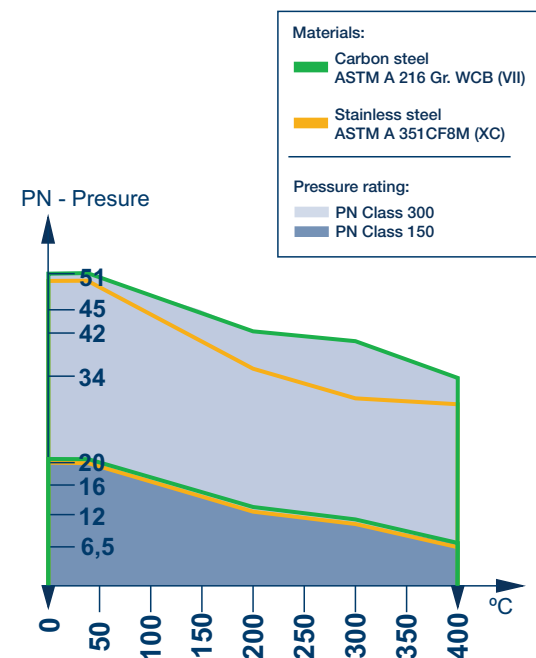
### KVN-LT (ANSI 150#)

### KVN-LT (ANSI 300#)



| DN<br>(pol.) | Dimensions (mm) |           |     |     |     | Weight (kg)         |
|--------------|-----------------|-----------|-----|-----|-----|---------------------|
|              | L               |           | H1  | H2  | A   | Material<br>VII, XC |
|              | ANSI 150#       | ANSI 300# |     |     |     |                     |
| 2.1/2"       | 216             | 292       | 311 | 361 | 280 | 31                  |
| 3"           | 241             | 318       | 356 | 413 | 280 | 38                  |
| 4"           | 292             | 356       | 419 | 494 | 360 | 59                  |
| 5"           | 400             | 400       | 447 | 522 | 700 | 78                  |
| 6"           | 406             | 445       | 512 | 610 | 400 | 110                 |
| 8"           | 600             | 600       | 512 | 610 | 400 | 185                 |

\* For 8" diameter, only available with 600 mm face as per EN 558-1, Gr. 1



| Components |                   | Materials          |                 |
|------------|-------------------|--------------------|-----------------|
|            |                   | VII                | XC              |
| 1          | Lower valve ring  | KX-GT*             | KX-GT*          |
| 2          | Lantern bush      | ASTM A 126 CL.B    | ASTM A 351 CF8M |
| 3          | Body              | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 4          | Piston            | ASTM A 351CF8      | ASTM A 351 CF8M |
| 5          | Split nut         | SAE 1020           | ASTM A 351 CF8M |
| 6          | Upper valve ring  | KX-GT*             | KX-GT*          |
| 7          | Piston shaft      | AISI 304           | AISI 316        |
| 8          | Stud bolt         | 5,6                | AISI 316        |
| 9          | Ring              | KX-GT              | KX-GT           |
| 10         | Disc              | Brass              | Brass           |
| 11         | Belleville washer | SAE 1070           | AISI 316        |
| 12         | Bonnet nut        | 5                  | AISI 316        |
| 13         | Split nut         | SAE 1020           | ASTM A 351 CF8M |
| 14         | Gland retainer    | SAE 1020           | ASTM A 182 F316 |
| 15         | Bonnet            | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 16         | Spindle           | AISI 410           | ASTM A 182 F316 |
| 17         | Threaded bush     | Brass              | Brass           |
| 18         | Lock pin          | SAE 1070           | AISI 316        |
| 19         | Handwheel         | GG-25              | GG-25           |
| 20         | Handwheel nut     | 5                  | AISI 316        |

\*Also available with PTFE sealing ring.



# DATA SHEET KVN-LT



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- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

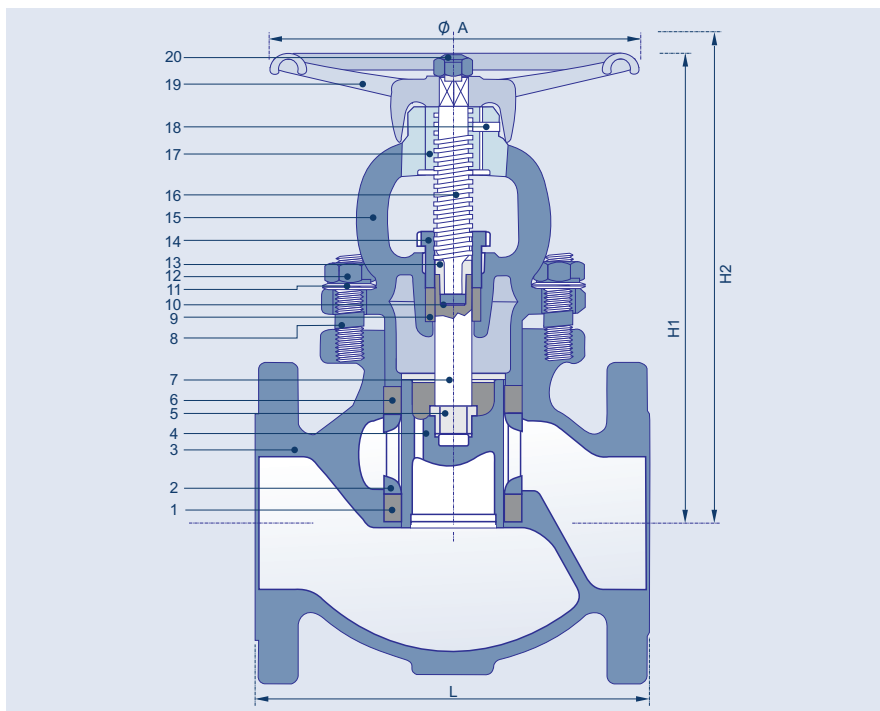
## CONNECTIONS

- » Flange EN 1092-2 (PN16);
- » Flange EN 1092-2 (PN40).

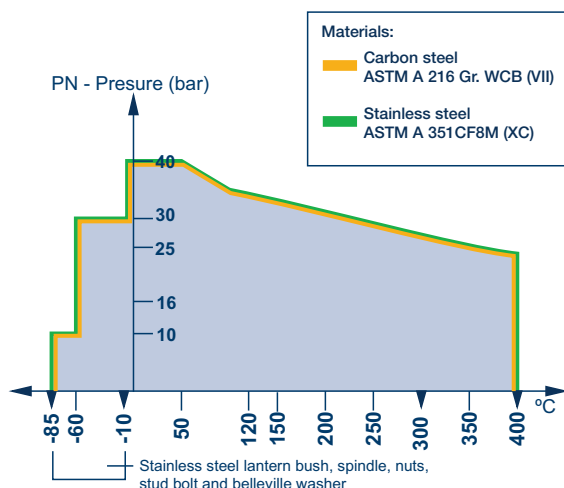
## DIMENSIONS

- » EN 558-1, Gr.1.

## KVN-LT (PN 16/40)



| DN<br>(pol.) | Dimensions (mm) |       |     |     |     | Weight (kg)         |
|--------------|-----------------|-------|-----|-----|-----|---------------------|
|              | L               |       | H1  | H2  | A   | Material<br>VII, XC |
|              | PN 16           | PN 40 |     |     |     |                     |
| 2.1/2"       | 290             | 290   | 311 | 361 | 280 | 31                  |
| 3"           | 310             | 310   | 356 | 413 | 280 | 38                  |
| 4"           | 350             | 350   | 419 | 494 | 360 | 59                  |
| 5"           | 400             | 400   | 447 | 522 | 700 | 78                  |
| 6"           | 480             | 480   | 512 | 610 | 400 | 110                 |
| 8"           | 600             | 600   | 512 | 610 | 400 | 185                 |



| Components |                   | Materials          |                 |
|------------|-------------------|--------------------|-----------------|
|            |                   | VII                | XC              |
| 1          | Lower valve ring  | KX-GT*             | KX-GT*          |
| 2          | Lantern bush      | ASTM A 126 CL.B    | ASTM A 351 CF8M |
| 3          | Body              | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 4          | Piston            | ASTM A 351CF8      | ASTM A 351 CF8M |
| 5          | Split nut         | SAE 1020           | ASTM A 351 CF8M |
| 6          | Upper valve ring  | KX-GT*             | KX-GT*          |
| 7          | Piston shaft      | AISI 304           | AISI 316        |
| 8          | Stud bolt         | 5,6                | AISI 316        |
| 9          | Ring              | KX-GT              | KX-GT           |
| 10         | Disc              | Brass              | Brass           |
| 11         | Belleville washer | SAE 1070           | AISI 316        |
| 12         | Bonnet nut        | 5                  | AISI 316        |
| 13         | Split nut         | SAE 1020           | ASTM A 351 CF8M |
| 14         | Gland retainer    | SAE 1020           | ASTM A 182 F316 |
| 15         | Bonnet            | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 16         | Spindle           | AISI 410           | ASTM A 182 F316 |
| 17         | Threaded bush     | Brass              | Brass           |
| 18         | Lock pin          | SAE 1070           | AISI 316        |
| 19         | Handwheel         | GG-25              | GG-25           |
| 20         | Handwheel nut     | 5                  | AISI 316        |

\*Also available with PTFE sealing ring.



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- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

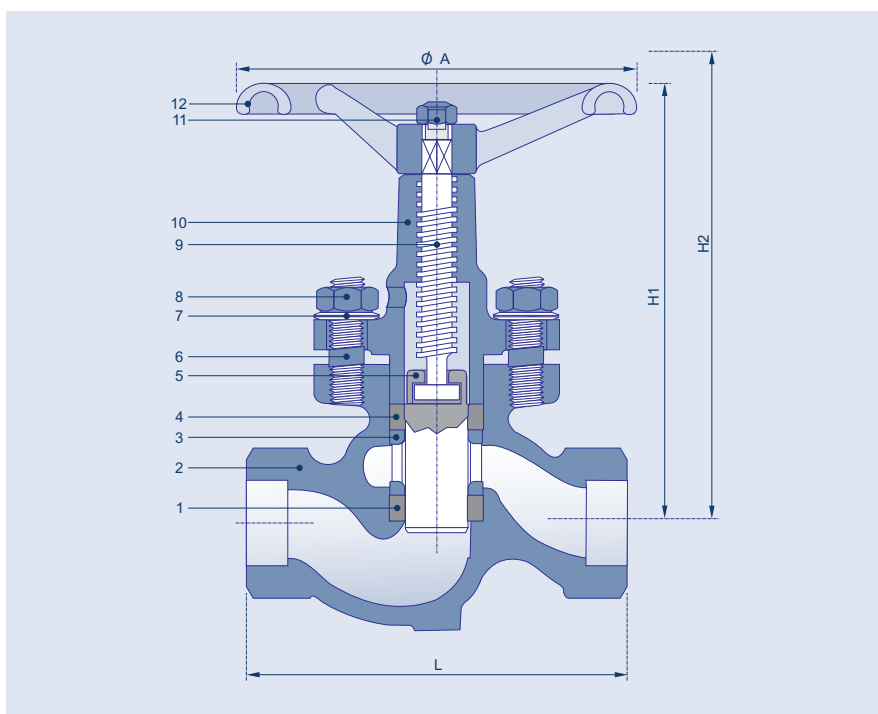
- » Welding socket EN 12760 - ANSI B16.11.

### DIMENSIONS

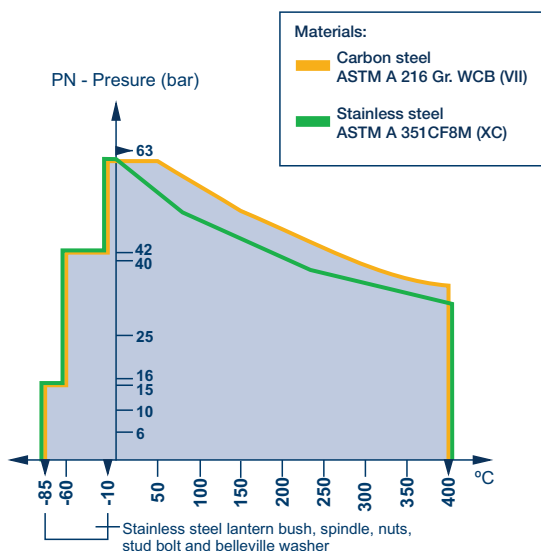
- » DN 3202-M9.

**KVSD - 1/2" - 1.1/4"**

**KVSN - 1.1/2" - 2"**



| DN<br>(mm.) | Dimensions (mm) |     |     |     | Weight (kg)         |
|-------------|-----------------|-----|-----|-----|---------------------|
|             | L               | H1  | H2  | A   | Material<br>VII, XC |
|             | DIN<br>Pn63     |     |     |     |                     |
| 15          | 100             | 110 | 130 | 95  | 2,0                 |
| 20          | 120             | 135 | 160 | 120 | 2,5                 |
| 25          | 135             | 150 | 185 | 160 | 3,0                 |
| 32          | 160             | 196 | 235 | 160 | 6,5                 |
| 40          | 185             | 200 | 250 | 200 | 9,0                 |
| 50          | 220             | 225 | 275 | 200 | 13,0                |



| Components |                   | Materials          |                 |
|------------|-------------------|--------------------|-----------------|
|            |                   | VII                | XC              |
| 1          | Lower valve ring  | KX-GT              | KX-GT           |
| 2          | Body              | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 3          | Lantern bush      | SAE 1020           | ASTM A 351 CF8M |
| 4          | Upper valve ring  | KX-GT              | KX-GT           |
| 5          | Piston            | ASTM A 351CF8      | ASTM A 351 CF8M |
| 6          | Stud bolt         | 5,6                | AISI 316        |
| 7          | Belleville washer | SAE 1070           | AISI 316        |
| 8          | Bonnet nut        | 5                  | AISI 316        |
| 9          | Spindle           | AISI 410           | ASTM A 182 F316 |
| 10         | Bonnet            | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 11         | Handwheel nut     | 5                  | 5               |
| 12         | Handwheel         | GG-25              | GG-25           |

\*Also available with PTFE sealing ring.



# DATA SHEET

## KVMD / KVMN



### GENERAL FEATURES

- » Reliable, leak-tight shut off – in line and to the atmosphere;
- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

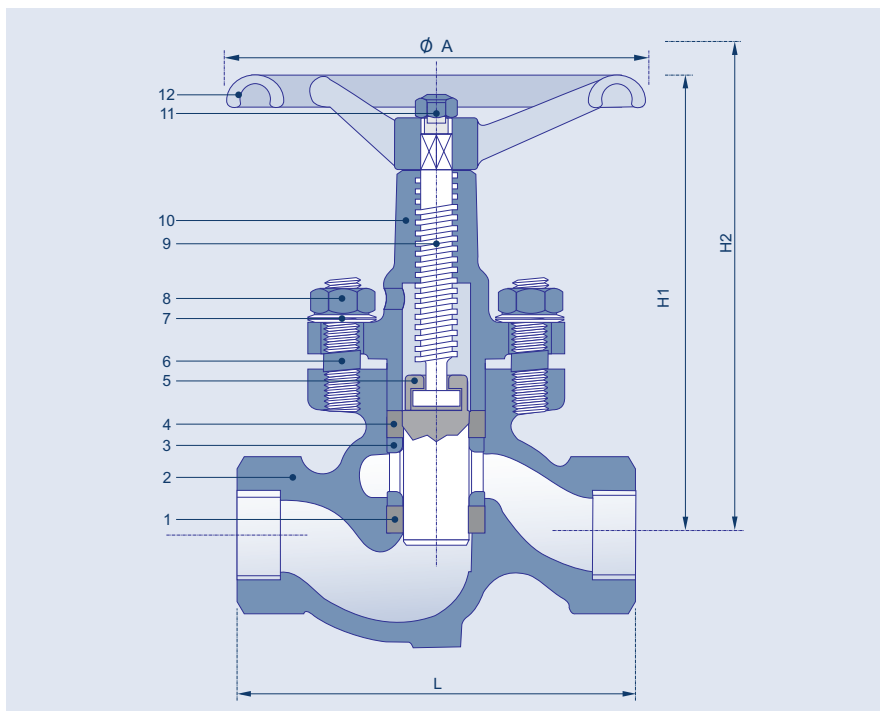
- » Screw thread BSP ISO 228-1;
- » Screw thread NPT ANSI B2.1.

### DIMENSIONS

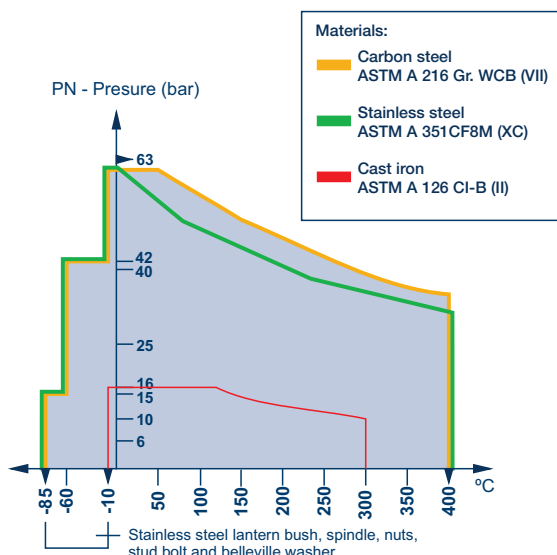
- » DN 3202-M9.

**KVMD - 1/2" - 1.1/4"**

**KVMN - 1.1/2" - 2"**



| DN<br>(pol.) | Dimensions (mm) |           |           |           |           |           |          |          | Weight (kg) |                  |
|--------------|-----------------|-----------|-----------|-----------|-----------|-----------|----------|----------|-------------|------------------|
|              | L               |           | H1        |           | H2        |           | A        |          | Material II | Material VII, XC |
|              | DIN PN 16       | DIN PN 63 | DIN PN 16 | DIN PN 63 | DIN PN 16 | DIN PN 63 | DIN Pn16 | DIN Pn63 |             |                  |
| 1/2"         | 100             | 100       | 120       | 110       | 150       | 130       | 95       | 90       | 2,0         | 2,0              |
| 3/4"         | 120             | 120       | 150       | 135       | 180       | 160       | 120      | 120      | 2,5         | 2,5              |
| 1"           | 135             | 135       | 175       | 150       | 160       | 185       | 160      | 160      | 4,0         | 3,0              |
| 1.1/4"       | -               | 160       | -         | 195       | -         | 235       | -        | 160      | 6,0         | 6,5              |
| 1.1/2"       | 185             | 185       | 220       | 200       | 270       | 250       | 200      | 200      | 8,5         | 9,0              |
| 2"           | 220             | 220       | 245       | 225       | 300       | 275       | 200      | 225      | 12,5        | 13,0             |



| Components |                   | Materials       |                    |                 |
|------------|-------------------|-----------------|--------------------|-----------------|
|            |                   | II (PN16)       | VII (PN63)         | XC (PN63)       |
| 1          | Lower valve ring  | KX-GT           | KX-GT              | KX-GT           |
| 2          | Body              | ASTM A 126 CL.B | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 3          | Lantern bush      | SAE 1020        | SAE 1020           | ASTM A 351 CF8M |
| 4          | Upper valve ring  | KX-GT           | KX-GT              | KX-GT           |
| 5          | Piston            | ASTM A 351CF8   | ASTM A 351CF8      | ASTM A 351 CF8M |
| 6          | Stud bolt         | 5,6             | 5,6                | AISI 316        |
| 7          | Belleville washer | SAE 1070        | SAE 1070           | AISI 316        |
| 8          | Bonnet nut        | 5               | 5                  | AISI 316        |
| 9          | Spindle           | AISI 410        | AISI 410           | ASTM A 182 F316 |
| 10         | Bonnet            | ASTM A 126 CL.B | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 11         | Handwheel nut     | 5               | 5                  | AISI 316        |
| 12         | Handwheel         | GG-25           | GG-25              | GG-25           |

\*Also available with PTFE sealing ring.



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- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

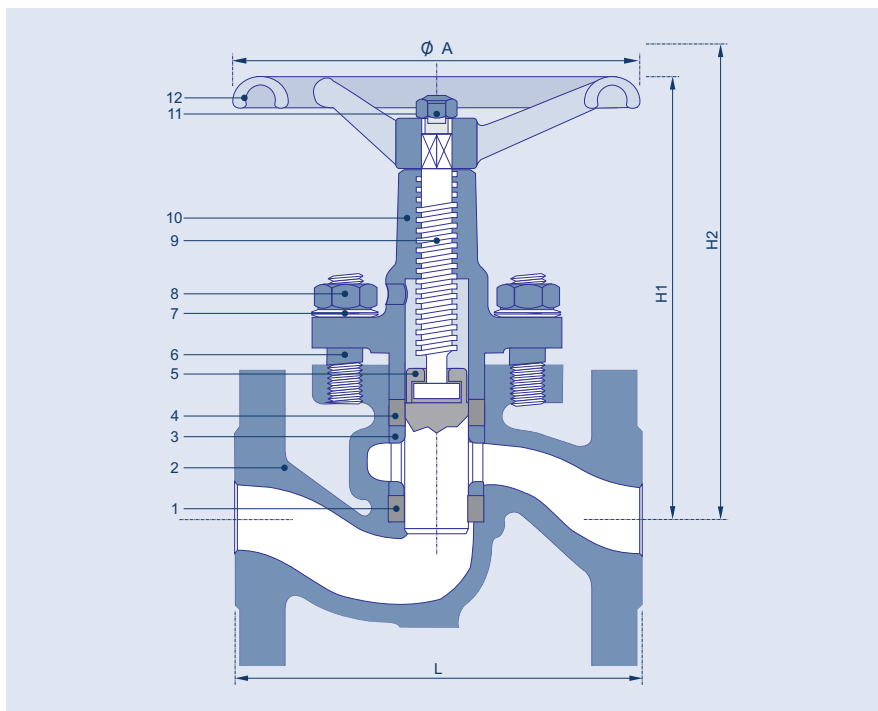
- » Flange EN 1092-2 (PN16);
- » Flange EN 1092-2 (PN40).

### DIMENSIONS

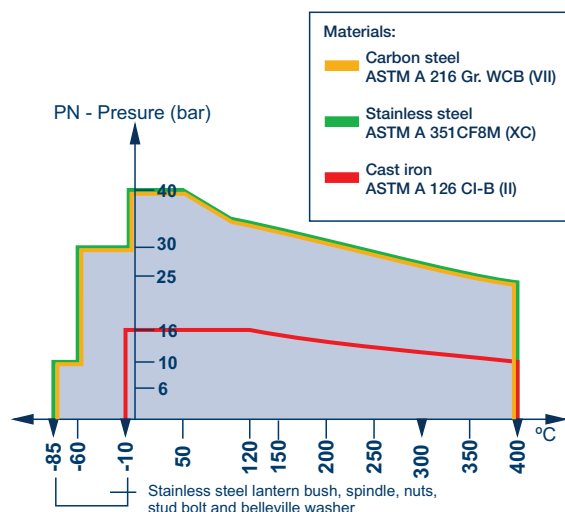
- » EN 558-1, Gr. 1.

### KVD - PN 16

### KVD - PN 40



| DN<br>(mm) | Dimensions (mm) |           |           |           |          |           | Weight (kg) |             |                  |
|------------|-----------------|-----------|-----------|-----------|----------|-----------|-------------|-------------|------------------|
|            | L               |           | H1        |           | H2       |           | A           | Material II | Material VII, XC |
|            | DIN PN 16       | DIN PN 40 | DIN PN 16 | DIN PN 40 | DIN PN16 | DIN PN 40 |             |             |                  |
| 15         | 130             | 130       | 120       | 110       | 150      | 130       | 95          | 3,0         | 3,5              |
| 20         | 150             | 150       | 150       | 135       | 180      | 160       | 120         | 4,0         | 5,0              |
| 25         | 160             | 160       | 175       | 150       | 205      | 185       | 160         | 6,5         | 7,0              |
| 32         | 180             | 180       | 195       | 195       | 235      | 235       | 160         | 8,5         | 9,5              |
| 40         | 200             | 200       | 220       | 200       | 270      | 250       | 200         | 11,0        | 13,0             |
| 50         | 230             | 230       | 245       | 225       | 300      | 275       | 200         | 16,0        | 18,0             |



| Components |                   | Materials       |                    |                 |
|------------|-------------------|-----------------|--------------------|-----------------|
|            |                   | II (PN16)       | VII (PN40)         | XC (PN40)       |
| 1          | Lower valve ring  | KX-GT           | KX-GT              | KX-GT           |
| 2          | Body              | ASTM A 126 CL.B | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 3          | Lantern bush      | SAE 1020        | SAE 1020           | ASTM A 351 CF8M |
| 4          | Upper valve ring  | KX-GT           | KX-GT              | KX-GT           |
| 5          | Piston            | ASTM A 351CF8   | ASTM A 351CF8      | ASTM A 351 CF8M |
| 6          | Stud bolt         | 5,6             | 5,6                | AISI 316        |
| 7          | Belleville washer | SAE 1070        | SAE 1070           | AISI 316        |
| 8          | Bonnet nut        | 5               | 5                  | AISI 316        |
| 9          | Spindle           | AISI 410        | AISI 410           | ASTM A 182 F316 |
| 10         | Bonnet            | ASTM A 126 CL.B | ASTM A 216 Gr. WCB | ASTM A 351 CF8M |
| 11         | Handwheel         | 5               | 5                  | AISI 316        |
| 12         | Handwheel         | GG-25           | GG-25              | GG-25           |

\*Also available with PTFE sealing ring.



# DATA SHEET

## KVSD 800



### GENERAL FEATURES

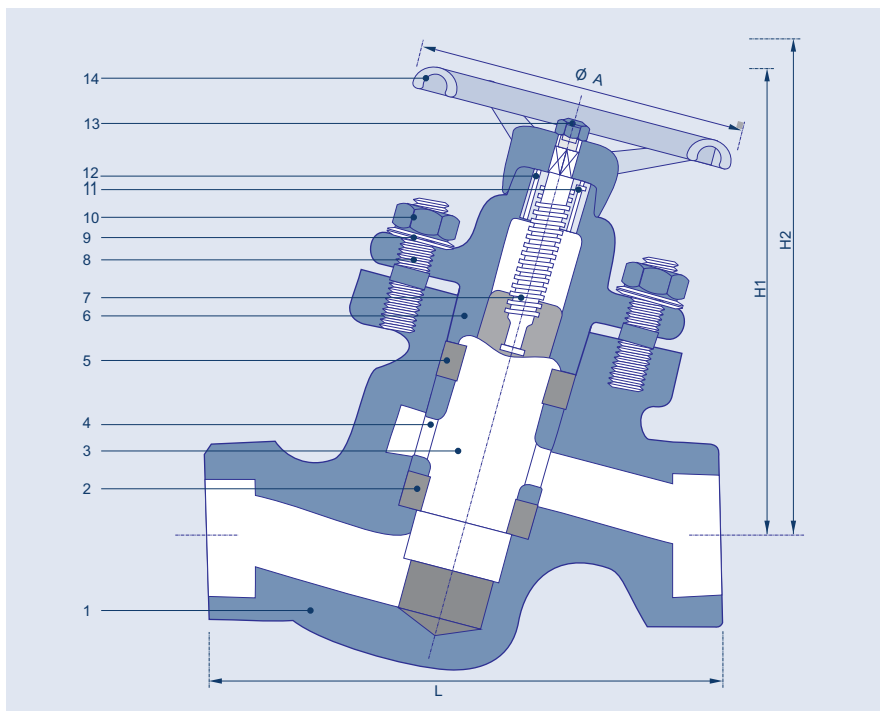
- » Reliable, leak-tight shut off – in line and to the atmosphere;
- » Resistant to temperature variations, including thermal shock;
- » Long service life and optimised life cycle costs;
- » Valve remains in line if replacement of seat rings and internal parts are necessary;
- » Free of gland packings;
- » Valve seal with KXGT rings – elastic graphite rings;
- » Special cages design available for regulation purposes.

### CONNECTIONS

- » Welding socket EN 12760 - ANSI B16.11.

### DIMENSIONS

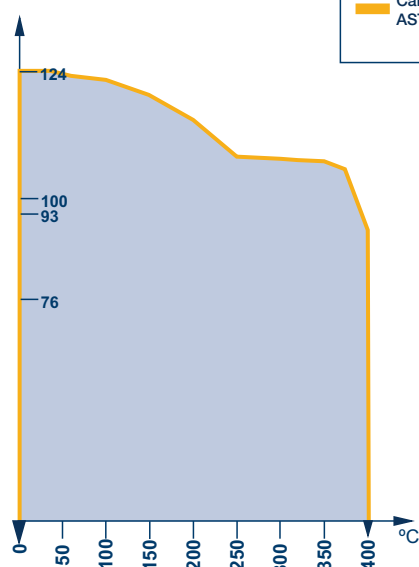
- » EN 558-1, Gr.1



## KVSD - (ANSI 800#)

| DN<br>(mm.) | Dimensions (mm) |     |     |     | Weight (kg) |
|-------------|-----------------|-----|-----|-----|-------------|
|             | L               | H1  | H2  | A   |             |
|             | DIN<br>Pn63     |     |     |     |             |
| 1/2"        | 100             | 120 | 145 | 95  | 2,1         |
| 3/4"        | 120             | 143 | 166 | 118 | 3,1         |
| 1"          | 135             | 165 | 202 | 155 | 5,4         |
| 1. 1/2"     | 160             | 230 | 265 | 200 | 11,3        |

PN - Pressure (bar)



Materials:  
Carbon steel  
ASTM A 105 (VIII)

| Components |                   | Materials      |
|------------|-------------------|----------------|
| 1          | Body              | ASTM A 105     |
| 2          | Lower valve ring  | KX-GT          |
| 3          | Piston            | AISI 304       |
| 4          | Lantern bush      | ASTM A 216 WCB |
| 5          | Upper valve ring  | KX-GT          |
| 6          | Bonnet            | ASTM A 105     |
| 7          | Spindle           | AISI 410       |
| 8          | Stud bolt         | B7             |
| 9          | Belleville washer | SAE 1070       |
| 10         | Nut               | 2H             |
| 11         | Lock pin          | AISI 316       |
| 12         | *Threaded bush    | GG-20          |
| 13         | Nut               | 2H             |
| 14         | Handwheel         | GG-25          |

\* only for 1.1 / 2 diameter.

