



# MK-16 / MK-25 / MK-40

## BELLOW SEALED STOP VALVE

### GENERAL FEATURES

- High tightness (Leakproofness class - A acc. EN - 12266 - 1)
- Compact settlement
- Environment - friendly
- Tests acc. EN - 12266 - 1
- Flanges drilled according to EN 1092 - 2 for gray & nodular cast iron body
- Flanges drilled according to EN 1092 - 1 for cast steel body
- Face-to-face dimension according to EN 558 - 1

### APPLICATIONS

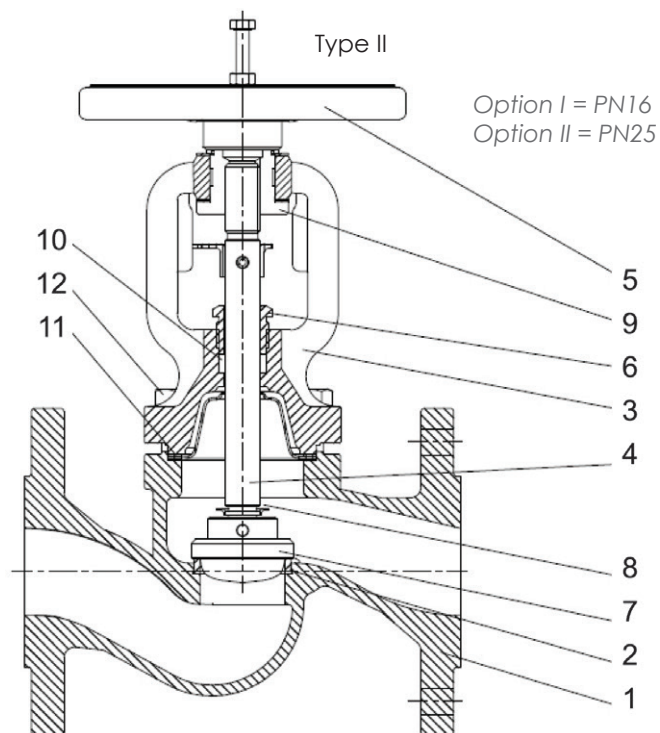
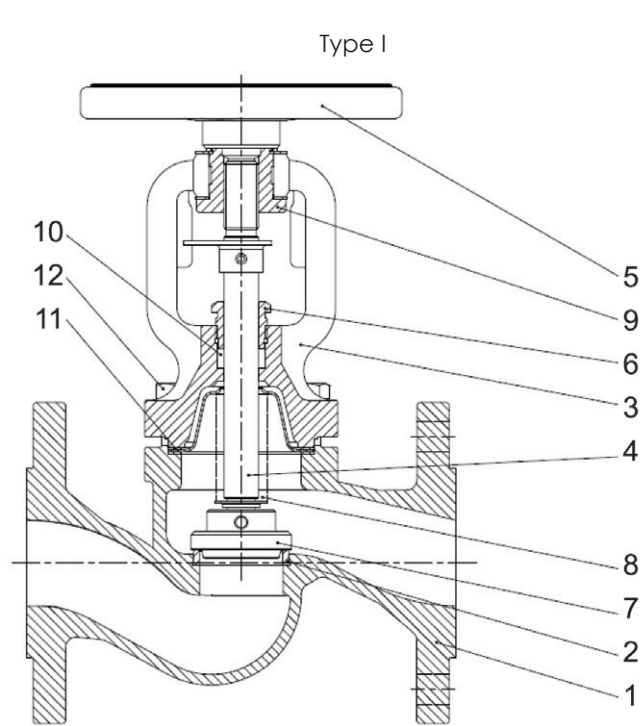
- Industry
- Shipbuilding industry
- Heating
- Refrigeration and air conditioning
- Glycol
- Industrial water
- Diathermic oil
- Steam
- Compressed air
- Neutral fluids

|          |                       | MK-16                     | MK-25                        | MK-40                    |
|----------|-----------------------|---------------------------|------------------------------|--------------------------|
| FEATURES | Body                  | Grey Cast Iron EN-GJL-250 | Nodular Cast Iron EN-GJS-400 | Cast Steel               |
|          | Seat                  | X12Cr13                   | Stainless Steel AISI 304     | Stainless Steel AISI 304 |
|          | Disc                  | X12Cr13                   | Stainless Steel AISI 304     | Stainless Steel AISI 304 |
|          | Connection            | Flanged                   | Flanged                      | Flanged                  |
|          | Max. Working Temp.    | 200°C                     | 250°C                        | 300°C                    |
|          | Max. Working Pressure | 16 bar                    | 25 bar                       | 40 bar                   |



# MK-16/MK25 BELLOW SEALED STOP VALVE

## PRODUCT DESIGN & MATERIAL SELECTION

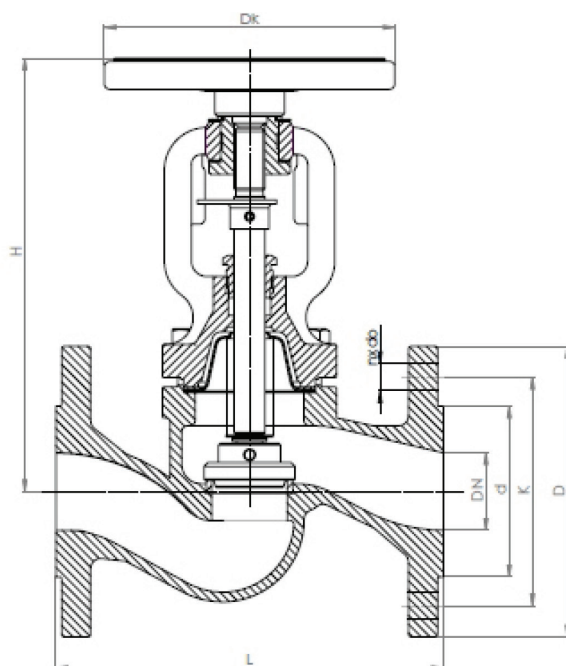


| TYPE I - Gray Cast Iron |               |                                       |
|-------------------------|---------------|---------------------------------------|
| No                      | Part          | Material                              |
| 1                       | Body          | EN-GJL-250<br>5.1301 (ex. J11040)     |
| 2                       | Seat Ring     | X12Cr13<br>1.4006                     |
| 3                       | Bonnet        | EN-GJS400-18-LT<br>5.3103 (ex.JS1025) |
| 4                       | Stem          | X20Cr13 1.4021                        |
| 5                       | Hand-wheel    | Steel                                 |
| 6                       | Gland Packing | 11SMnPb30                             |
| 7                       | Disc          | X20Cr13 1.4021                        |
| 8                       | Bellow        | X6CrNiMoTi-17-12-2                    |
| 9                       | Sleeve        | 11SMnPb30                             |
| 10                      | Gland Packing | Graphite                              |
| 11                      | Bonnet Gasket | Graphite+CrNiSt                       |
| 12                      | Hexagon Bolt  | 8,8                                   |

| TYPE II - Nodular Cast Iron |               |                                            |
|-----------------------------|---------------|--------------------------------------------|
| No                          | Part          | Material                                   |
| 1                           | Body          | EN - GJS400 - 18 - LT<br>5.3103(ex.JS1025) |
| 2                           | Seat Ring     | X12Cr13<br>1.4006                          |
| 3                           | Bonnet        | EN-GJS400-18-LT<br>5.3103 (ex.JS1025)      |
| 4                           | Stem          | X20Cr13 1.4021                             |
| 5                           | Hand-wheel    | Steel                                      |
| 6                           | Gland Packing | 11SMnPb30                                  |
| 7                           | Disc          | X20Cr13 1.4021                             |
| 8                           | Bellow        | X6CrNiMoTi-17-12-2                         |
| 9                           | Sleeve        | 11SMnPb30                                  |
| 10                          | Gland Packing | Graphite                                   |
| 11                          | Bonnet Gasket | Graphite+CrNiSt                            |
| 12                          | Hexagon Bolt  | A2-70                                      |

## MK-16/MK25 BELLOW SEALED STOP VALVE

### DIMENSIONS

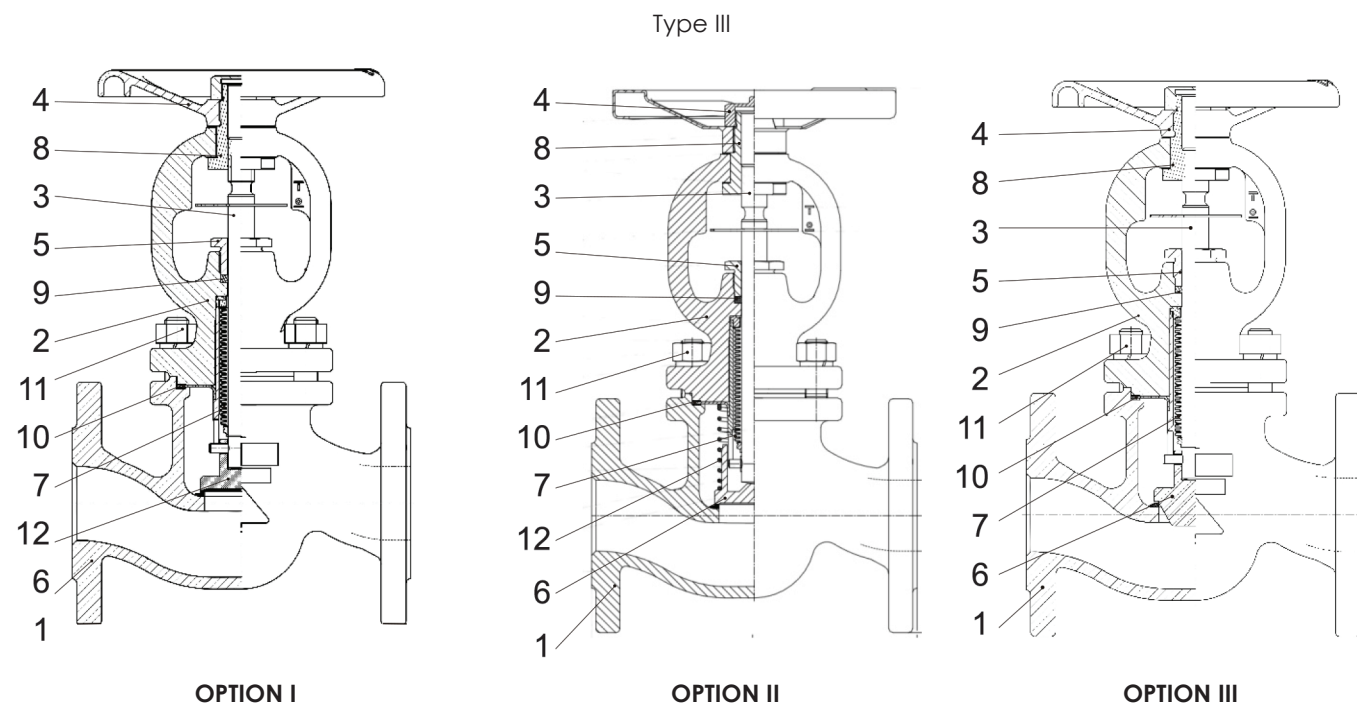


| PN 16 - TYPE I |     |     |     |       |     |    |     |     |      |        |
|----------------|-----|-----|-----|-------|-----|----|-----|-----|------|--------|
| DN             | D   | d   | K   | nx d0 | Dk  | h  | L   | H   | Kvs  | Weight |
| mm             |     |     |     |       |     |    |     |     | m³/h | kg     |
| 15             | 95  | 46  | 65  | 4x14  | 125 | 5  | 130 | 178 | 5,9  | 3,2    |
| 20             | 105 | 56  | 75  | 4x14  | 125 | 5  | 150 | 178 | 7,4  | 3,9    |
| 25             | 115 | 65  | 85  | 4x14  | 125 | 7  | 160 | 193 | 13   | 4,85   |
| 32             | 140 | 76  | 100 | 4x19  | 125 | 8  | 180 | 201 | 18   | 6,5    |
| 40             | 150 | 84  | 110 | 4x19  | 150 | 10 | 200 | 224 | 30   | 9      |
| 50             | 165 | 99  | 125 | 4x19  | 150 | 13 | 230 | 228 | 41   | 11     |
| 65             | 185 | 118 | 145 | 4x19  | 175 | 17 | 290 | 270 | 79   | 15,8   |
| 80             | 200 | 132 | 160 | 8x19  | 200 | 20 | 310 | 295 | 115  | 24,3   |
| 100            | 220 | 156 | 180 | 8x19  | 250 | 25 | 350 | 325 | 181  | 35     |
| 125            | 250 | 184 | 210 | 8x19  | 300 | 32 | 400 | 380 | 225  | 49     |
| 150            | 285 | 211 | 240 | 8x23  | 400 | 38 | 480 | 427 | 364  | 76     |
| 200            | 340 | 266 | 295 | 12x23 | 500 | 50 | 600 | 569 | 725  | 130,5  |
| 250            | 405 | 319 | 355 | 12x28 | 500 | 63 | 730 | 645 | -    | 210    |

| PN25 - TYPE II |     |     |     |       |     |    |     |     |      |        |
|----------------|-----|-----|-----|-------|-----|----|-----|-----|------|--------|
| DN             | D   | d   | K   | nx d0 | Dk  | h  | L   | H   | Kvs  | Weight |
| mm             |     |     |     |       |     |    |     |     | m³/h | kg     |
| 15             | 95  | 46  | 65  | 4x14  | 125 | 5  | 130 | 178 | 3,4  | 3,2    |
| 20             | 105 | 56  | 75  | 4x14  | 125 | 5  | 150 | 178 | 6,3  | 3,9    |
| 25             | 115 | 65  | 85  | 4x14  | 125 | 7  | 160 | 193 | 9,4  | 5      |
| 32             | 140 | 76  | 100 | 4x19  | 125 | 8  | 180 | 201 | 16   | 6,7    |
| 40             | 150 | 84  | 110 | 4x19  | 150 | 10 | 200 | 224 | 26   | 9,3    |
| 50             | 165 | 99  | 125 | 4x19  | 150 | 13 | 230 | 228 | 40   | 11,5   |
| 65             | 185 | 118 | 145 | 8x19  | 175 | 17 | 290 | 270 | 70   | 16,3   |
| 80             | 200 | 132 | 160 | 8x19  | 200 | 20 | 310 | 295 | 106  | 21,4   |
| 100            | 235 | 156 | 190 | 8x23  | 250 | 25 | 350 | 325 | 170  | 36     |
| 125            | 270 | 184 | 220 | 8x28  | 300 | 32 | 400 | 380 | 245  | 51,5   |
| 150            | 300 | 211 | 250 | 8x28  | 400 | 38 | 480 | 427 | 360  | 78     |
| 200            | 360 | 274 | 310 | 12x28 | 500 | 50 | 600 | 569 | -    | 130,5  |
| 250            | -   | -   | -   | -     | 500 | 63 | 730 | 645 | -    | -      |

# MK-25 BELLOW SEALED STOP VALVE

## PRODUCT DESIGN & MATERIAL SELECTION



| No              | Part          | Material                 |            |                                |
|-----------------|---------------|--------------------------|------------|--------------------------------|
|                 |               | Option 1                 | Option 2   | Option 3                       |
| 1               | Body          | GP240GH                  |            |                                |
| 2               | Bonnet        | GP240GH                  |            |                                |
| 3               | Stem          | X8CrNiS 18-9 14.305      |            |                                |
| 4               | Hand-wheel    | Steel                    |            |                                |
| 5               | Gland         | 11SMnPb30                |            |                                |
| 6               | Disc          | Stop disc X20Cr13 1.4021 | SDNR valve | Throttling disc X20Cr13 1.4021 |
| 7               | Bellow        | X6CrNiTi-18-10           |            |                                |
| 8               | Sleewe        | 11SMnPb30                |            |                                |
| 9               | Gland Packing | Graphite                 |            |                                |
| 10              | Bonnet Gasket | Graphite+CrNiSt          |            |                                |
| 11              | Bolt and Nut  | A2-70                    |            |                                |
| 12              | Spring        | 14.310                   |            |                                |
| Max Temperature |               | 400 °C                   |            |                                |

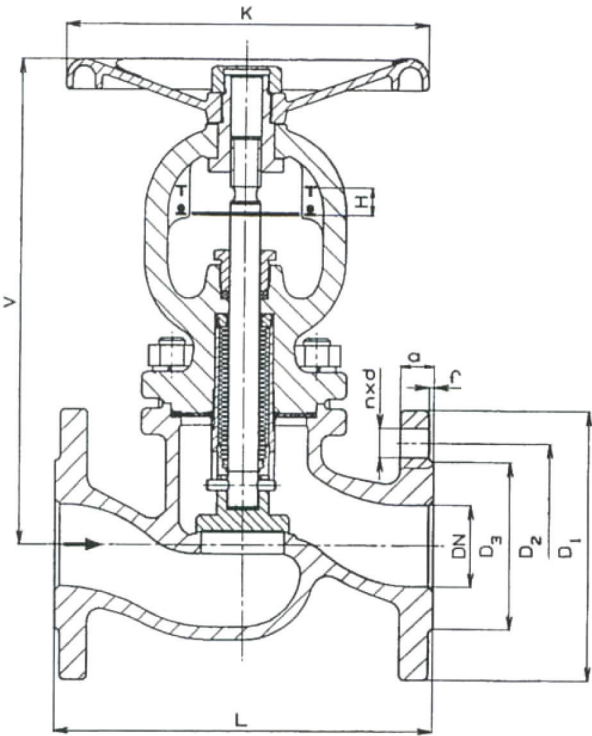
\* Subject to technical alterations and deviations resulting from the production process without giving any notification.

\* All applications are not suitable for all body options.

# MK-40 BELLOW SEALED STOP VALVE

## DIMENSIONS

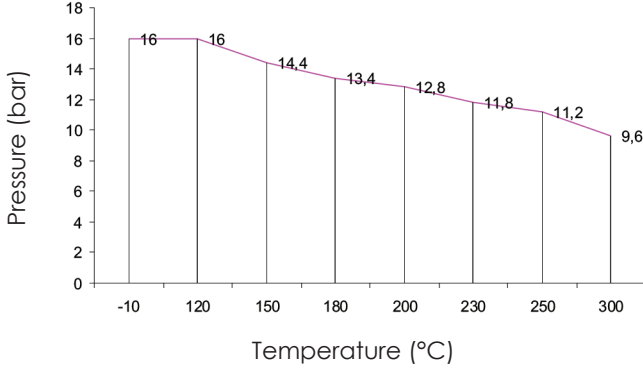
Option I, II, III



| PN40 |     |     |     |      |     |      |     |     |    |      |        |
|------|-----|-----|-----|------|-----|------|-----|-----|----|------|--------|
| DN   | D1  | D2  | D3  | nxd  | K   | H    | L   | V   | a  | Kvs  | Weight |
| mm   |     |     |     |      |     |      |     |     |    | m³/h | kg     |
| 15   | 95  | 65  | 45  | 4x14 | 125 | 6    | 130 | 189 | 16 | 4,3  | 4,3    |
| 20   | 105 | 75  | 58  | 4x14 | 125 | 6    | 150 | 189 | 18 | 7,0  | 5,1    |
| 25   | 115 | 85  | 68  | 4x14 | 125 | 6    | 160 | 189 | 18 | 11,0 | 5,8    |
| 32   | 140 | 100 | 78  | 4x18 | 150 | 10   | 180 | 220 | 18 | 17,5 | 9,5    |
| 40   | 150 | 110 | 88  | 4x18 | 150 | 10   | 200 | 220 | 18 | 27,0 | 9,8    |
| 50   | 165 | 125 | 102 | 4x18 | 200 | 16,5 | 230 | 295 | 20 | 47,0 | 17,5   |
| 65   | 185 | 145 | 122 | 8x18 | 200 | 16,5 | 290 | 295 | 22 | 68,0 | 20,5   |
| 80   | 200 | 160 | 138 | 8x18 | 300 | 25   | 310 | 368 | 24 | 116  | 34,0   |
| 100  | 235 | 190 | 162 | 8x22 | 300 | 25   | 350 | 368 | 24 | 162  | 44,0   |
| 125  | 270 | 220 | 188 | 8x26 | 400 | 40   | 400 | 523 | 26 | 250  | 77,0   |
| 150  | 300 | 250 | 218 | 8x26 | 400 | 40   | 480 | 523 | 28 | 364  | 110    |

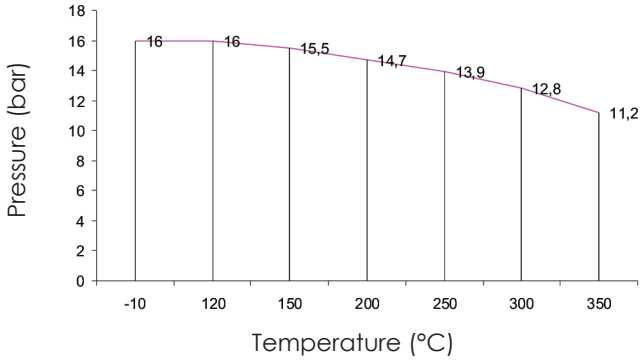
# MK-40 BELLOW SEALED STOP VALVE

## DIMENSIONS



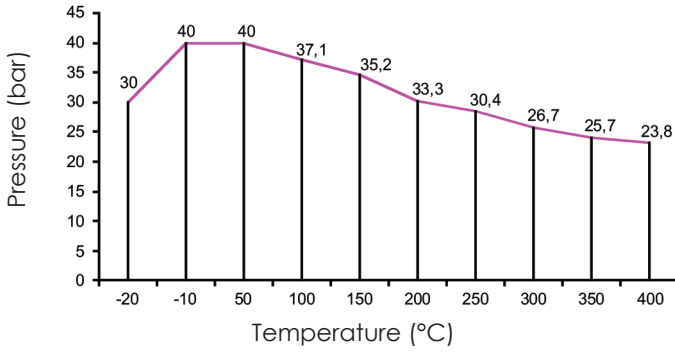
### Type I

Allowed working conditions range  
Body material: EN-GJL-250



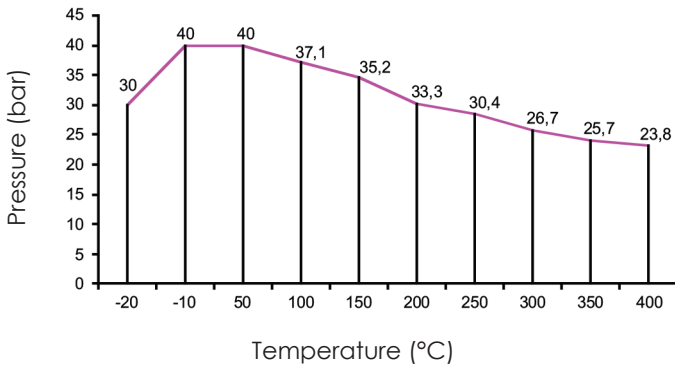
### Type II, Option I

Allowed working conditions range  
Body material: EN-GJS-400-18-LT



### Type II, Option II

Allowed working conditions range  
Body material: EN-GJS-400-18-LT



### Type III, Option I/II/III

Allowed working conditions range  
Body material: EN-GP24GH 1.0619



| PN   | Allowable pressure difference (bar) |       |       |
|------|-------------------------------------|-------|-------|
|      | DN10-100                            | DN125 | DN150 |
| PN40 | 40                                  | 33    | 21    |

Allowable pressure difference which can be observed on both sides of the closing element refers for valves in Type III.