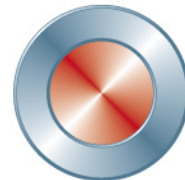
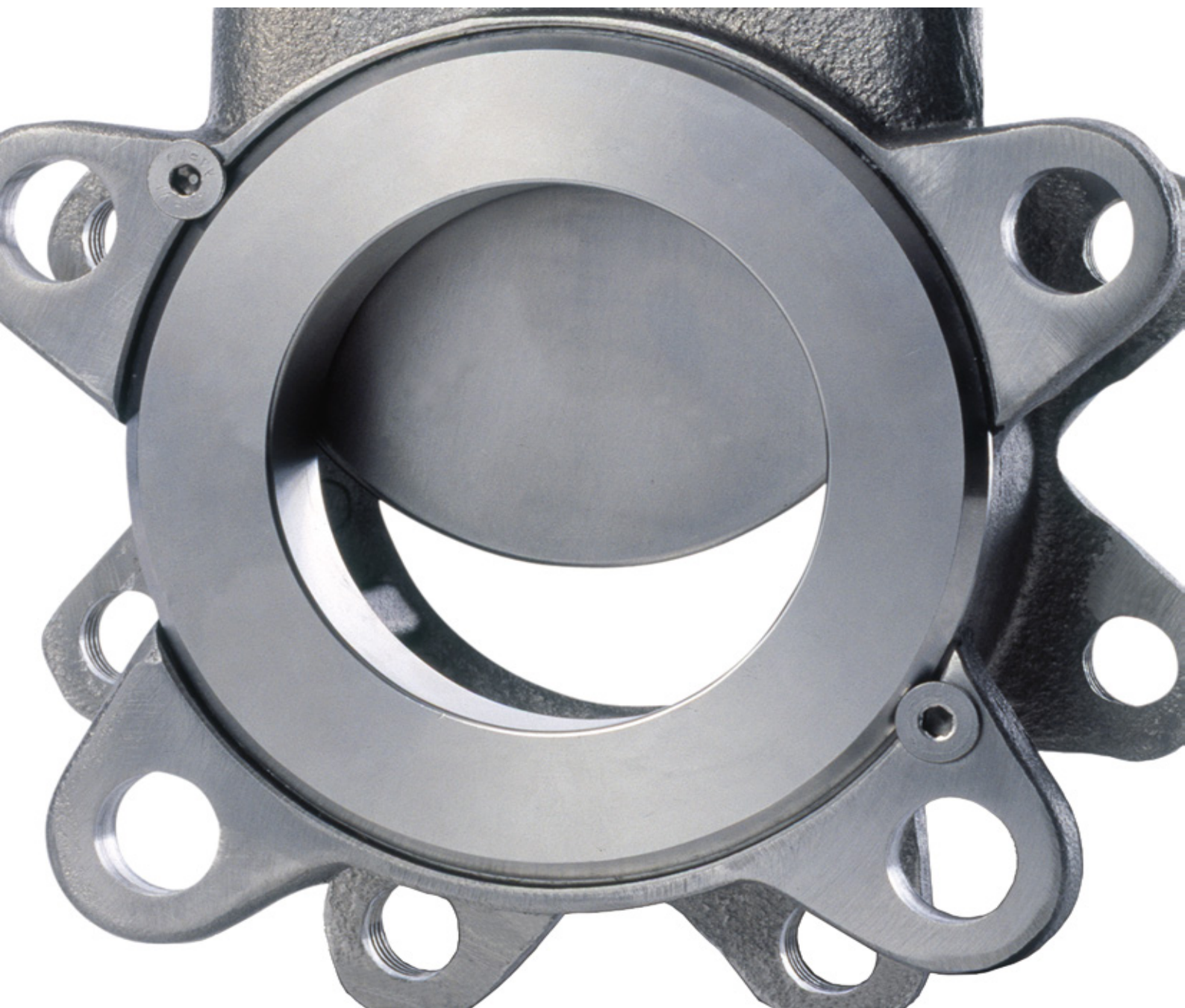


Knife gate valve TV



**Stafsjö**  
SINCE 1666



## Knife gate valve TV

Stafsjö's knife gate valve TV can be used as an isolation valve for a transmitter or sensor on a tank for which a short face-to-face length is required. The unique flange drilling and actuator makes it possible to mount it directly on the tank and the transmitter can be dismounted without draining the tank. The ratchet wrench enables fast and easy operation of the valve in spite of the wall installation.

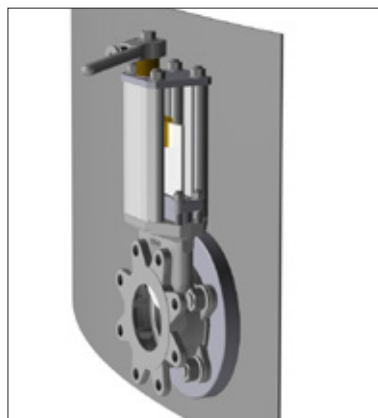
TV has a valve body, gate and retainer ring in stainless steel. The retainer ring system offers several seat materials and very cost-efficient maintenance. As standard the TV valve is equipped with Stafsjö's unique gland box packing, TwinPack™, to secure that no media reaches surrounding environment. The top work consists of aluminium beams and stainless steel tie rods, which gives good corrosion resistance and a stable operation. As standard it comes with a ratchet wrench in stainless steel.

The TV valve is designed, manufactured, inspected and tested according to the European Pressure Equipment Directive (PED 97/23/EC) category I and II module A1. The valve is CE marked when it is applicable.



### Proven and reliable shut-off

The gate and valve body design, especially the bore, gives the valve its ability to securely and effectively shut-off almost any flow. Minimal friction makes the valve easy to operate.



### Unique flange drilling enables end-of-pipe installations

The TV valve is possible to mount directly on the tank without any counter-flange and the ratchet wrench enables fast and easy operation of the valve.



### Excellent adaptability

TV can easily be customized. The retainer ring system offers flexibility and cost-efficient on-site maintenance.

## Design data

| Sizes                                                                                       | Flange drilling                                                                                                                                          | Face-to-face dimension                                                                                                                                                                                                                                                   | ATEX design                                             |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| DN 80                                                                                       | EN 1092 PN 10-<br>Stafsjö standard<br>ASME/ANSI B16.5<br>Class 150-<br>Stafsjö standard<br>ASME/ANSI B16.5<br>Class 150-<br>ASME/ANSI B16.5<br>Class 150 | Stafsjö manufacturing<br>standard<br>MSS SP-81<br>TAPPI TIS 405-8                                                                                                                                                                                                        | ATEX 94/ 9/EC II cat 3 G/D for zone 2 and 22 on request |
| Leakage rate                                                                                |                                                                                                                                                          | Pressure tests                                                                                                                                                                                                                                                           |                                                         |
| EN 12266-1:2012 rate A: No visually detectable leakage is allowed for duration of the test. |                                                                                                                                                          | Pressure tests are performed with water at 20° C according to EN 12266-1:2012.<br>Pressure shell test: 1,5 times maximum allowable working pressure for open valve.<br>Pressure seat tightness test: 1,1 times maximum allowable differential pressure for closed valve. |                                                         |
| Maximum working pressure body at 20°C                                                       |                                                                                                                                                          | Maximum differential pressure at 20°C                                                                                                                                                                                                                                    |                                                         |
| DN                                                                                          | bar                                                                                                                                                      | DN                                                                                                                                                                                                                                                                       | bar                                                     |
| 80                                                                                          | 16                                                                                                                                                       | 80                                                                                                                                                                                                                                                                       | 3,5                                                     |

## Basic equipment

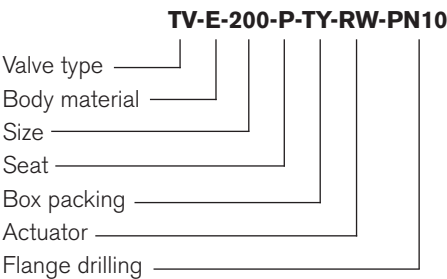
| A. Valve Body            |                     |                        |                        |
|--------------------------|---------------------|------------------------|------------------------|
| Material                 | Code                | Type                   | Maximum temperature °C |
| Stainless steel          | (E)                 | EN 1.4408              | 400                    |
|                          |                     |                        |                        |
| B. Gate                  |                     |                        |                        |
| Material                 | Type                |                        |                        |
| Stainless steel          | EN 1.4404/AISI 316L |                        |                        |
|                          |                     |                        |                        |
| C. Retainer ring         |                     |                        |                        |
| Material                 | Type                |                        |                        |
| Stainless steel          | EN 1.4408           |                        |                        |
|                          |                     |                        |                        |
| D. Seat                  |                     |                        |                        |
| Material                 | Code                | Maximum temperature °C |                        |
| EPDM                     | (E)                 | 120                    |                        |
| Nitrile                  | (N)                 | 100                    |                        |
| Viton                    | (V)                 | 180                    |                        |
| PTFE with o-ring Nitrile | (P)                 | 100                    |                        |
| PTFE with o-ring Viton   | (PV)                | 180                    |                        |
|                          |                     |                        |                        |
| E. Box Packing           |                     |                        |                        |
| Material                 | Code                | Maximum temperature °C |                        |
| TwinPack™                | (TY)                | 260                    |                        |
| PTFE                     | (TF)                | 280                    |                        |

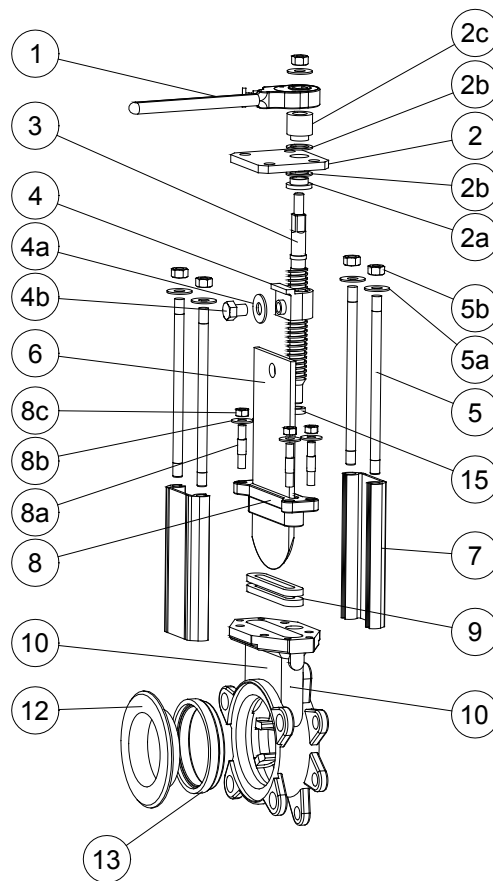
## Actuators

| Manual                       |      |
|------------------------------|------|
| Ratchet wrench <sup>2)</sup> | (RW) |

# Specify the Stafsjö valve

Stafsjö's valves are modular designed and they can easily be customized with gate, seat and box packings and accessories according to media and requirements. Below are examples of how you can specify your Stafsjö valve. Further information is available on [www.stafsjo.com](http://www.stafsjo.com).



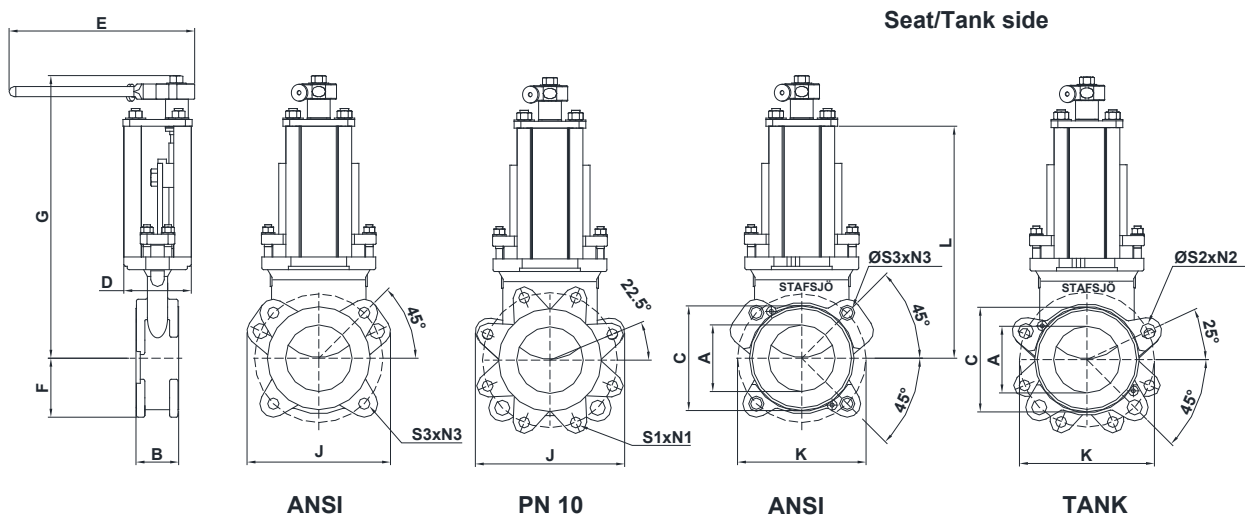


## Part list

| Pos. | Part           | Material (Name)             |
|------|----------------|-----------------------------|
| 1    | Ratchet wrench | Stainless steel (EN 1.4408) |
| 2    | Yoke           | Stainless steel (EN 1.4301) |
| 2a   | Bearing        | Brass (CuZn39Pb3)           |
| 2b   | Bearing washer | POM                         |
| 2c   | Bearing        | Brass (CuZn39Pb3)           |
| 3    | Stem           | Stainless steel (EN 1.4016) |
| 4    | Stem nut       | Brass (CW603N)              |
| 4a   | Washer         | Stainless steel A2          |
| 4b   | Screw          | Stainless steel A2          |
| 5    | Tie rod        | Stainless steel (EN 1.4301) |
| 5a   | Washer         | Stainless steel (A2)        |
| 5b   | Nut            | Stainless steel (A2)        |

| Pos.             | Part          | Material (Name)                   |
|------------------|---------------|-----------------------------------|
| 6                | Gate          | See equipment B                   |
| 7                | Beam          | Aluminium (EN AW-6063-T6)         |
| 8                | Gland         | Stainless steel (EN 1.4408)       |
| 8a               | Stud bolt     | Stainless steel (A2), zinc coated |
| 8b               | Washer        | A2                                |
| 8c               | Nut           | Stainless steel (A2), zinc coated |
| 9 <sup>1)</sup>  | Box packing   | See equipment E                   |
| 10               | Valve body    | See equipment A                   |
| 12               | Retainer ring | See equipment C                   |
| 13 <sup>1)</sup> | Seat          | See equipment D                   |
| 15               | Bushing       | Oil-bronze                        |

<sup>1)</sup> Recommended spare parts



## Main dimensions

| Dimensions (mm)              |    |    |     |    |     |    |     |     |     |     |     |    |    |    |               |    |
|------------------------------|----|----|-----|----|-----|----|-----|-----|-----|-----|-----|----|----|----|---------------|----|
| Flange drilling              | A  | B  | C   | D  | E   | F  | G   | J   | K   | L   | S1  | N1 | S2 | N2 | S3            | N3 |
| PN 10                        | 79 | 51 | 124 | 80 | 220 | 88 | 335 | 177 | 160 | 275 | M16 | 8  | 18 | 4  | -             | -  |
| ASME/ANSI<br>B16.5 Class 150 | 79 | 51 | 124 | 80 | 220 | 70 | 335 | 170 | 152 | 275 | -   | -  | 18 | 4  | 5/8-11<br>UNC | 4  |

### Weight valve with ratchet wrench

|    |    |
|----|----|
| DN | 80 |
| kg | 8  |

Main dimensions are only for information. Contact Stafsjö for certified drawings.

Further information is available on [www.stafsjo.com](http://www.stafsjo.com)



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