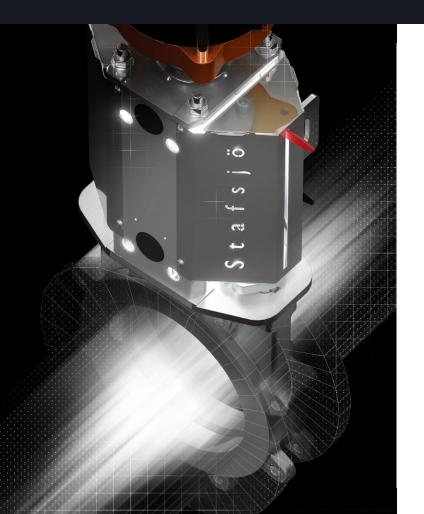
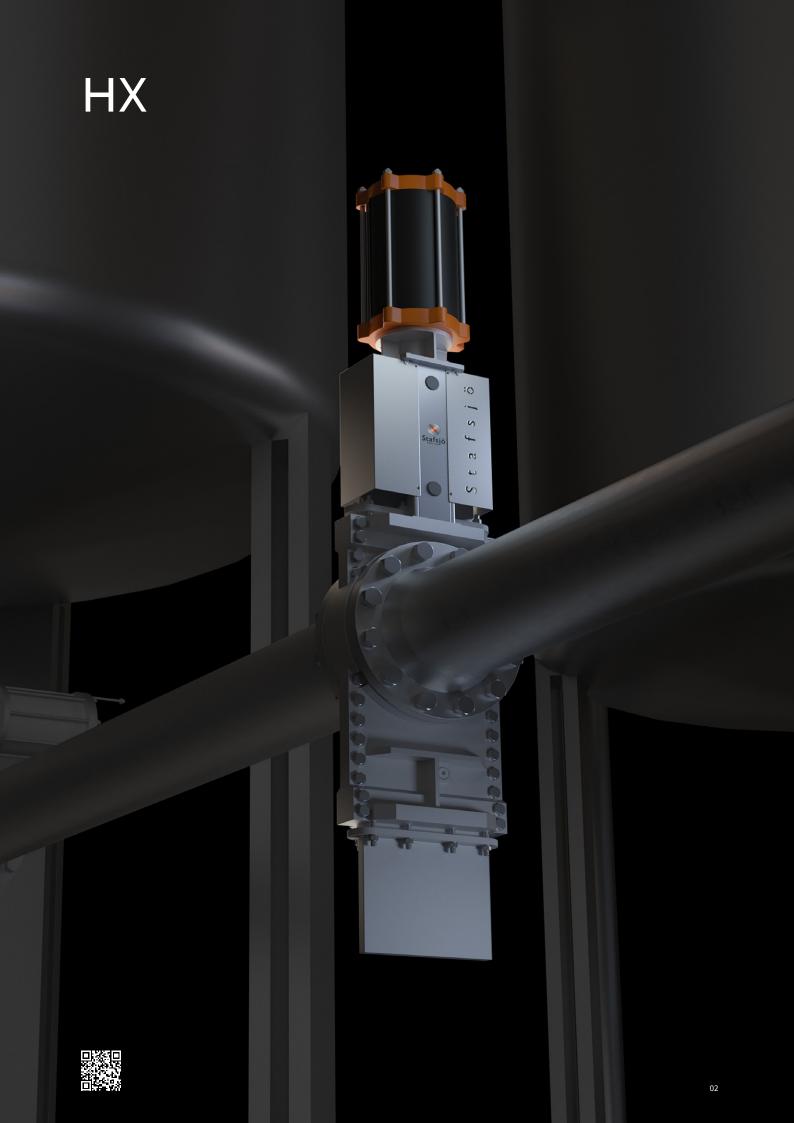


Knife gate valve specification guide

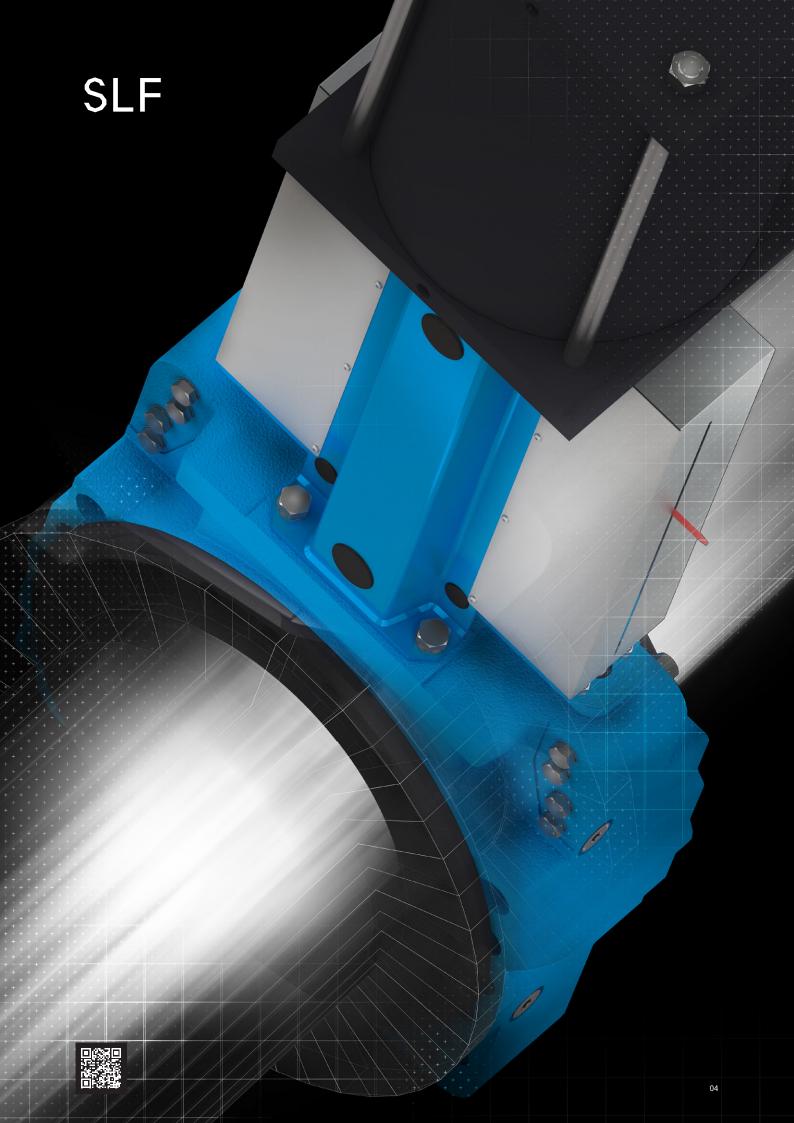






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About Stafsjö

Stafsjö develop and manufacture high performance knife gate valves for reliable and long-lasting operation in demanding industrial processes throughout the world.

Our knife gate valve manufacturing started already in 1928. With strong focus on customer satisfaction and process excellence, the products have evolved throughout the years and new products have been developed to meet and exceed new challenging process conditions. We also offer aftersales support on all continents and automation solutions to meet customer standards across the world.

Stafsjö maintains development and manufacturing on the same location where it all began in 1666, in Stavsjö Sweden. The owner Ebro Armaturen Gebr. Bröer GmbH is headquarted in Hagen, Germany. Together we create world-leading valve and automation solutions.



Who we are

Expect commitment

We are committed in each and every supply, day by day, year after year. First class product quality can be expected. Our commitment do not end when the products exit our facility. We are just as committed to serve our customers after the products have been in service for years or even decades.

Long-term partner

Long-term is a significant characteristic for Stafsjö. Our solutions are engineered and made to last. Nothing is left to chance. We also believe in close and open collaborations with customers, among colleagues, business partners and other stakeholders. We work hard to earn the trust.



Make a difference

We have a strong devotion to meet and exceed our customers' expectations. Our customers depend on our products performance and reliability to enhance their productivity, efficiency and safety targets. The products we supply are developed and manufactured to perform and to provide reliable isolation whenever required.



Our vision

"First in knife gate solutions"

Our vision describes our ambition to be the most efficient and productive knife gate supplier, the technology leader and the most preferred brand within selected industrial segments.



Shut-off techniques for a wide range of applications

Uni-directional

Knife gate valves: JTV, MV, RKO, RKS and TV

This knife gate valve range have been designed with uni-directional flow in mind even though some of them can deal with certain reverse flow as standard. Installation position and pressure direction are important factors to consider when choosing uni-directional knife gate valves. Independent if it is dry media or liquids, the uni-directional knife gate valves will provide high operation reliability and zero leakage isolation.



Bi-directional

Knife gate valves: WB, WB11, WB14, WB14E and XV

This is the range to choose if you are searching for allround and compact knife gates valves for liquids. All provide a smooth flow path with minimal flow impact and bi-directional zero leakage shut-off. Some of them are also available as fully lugged for deadend services.



Select technique suitable for your process

Bi-directional, through-going

Knife gate valves: HL, HG, HP, HPT and HX

This range enable high operation reliability on highly concentrated media. The gate is able to cut through static media columns and provide zero leakage isolation independent of pressure direction. Several high alloy material options are available on request.



Bi-directional, push through

Knife gate valves: SLF, SLH, SLV and SLX

In tough abrasive mineral processing applications, the most durable knife gate valves are the push through slurry valves. These form a rubber lined extension of the pipe line when they are in opened position. When cycling to closed position, the two seats are displaced axially forming a seal with the gate until it forms a complete closure and provide 100% bi-directional zero leakage shut-off.



Knife gate valves for a wide range of industrial applications

The knife gate solutions we manufacture provide reliable isolation in pulp and paper mills, in mineral concentrator plants and their tailing systems, in waste water treatment plants and in many more industrial systems. We have the solutions for both dry media and liquids, for slightly abrasive to extreme, from moderate corrosive conditions to the very extreme calling for high grade materials such as Titanium. We offer knife gate solutions up to 50 bar pressure class.

Contact our valve experts!

We are never far away. Smooth logistic solutions, local stocks combined with local sales support in many countries ensure you availability and high service level independent where your business operate.





D2G



HG



This product have two hard chromed gates working towards each other in the bore, providing extremely fast shut-off performance. It is suitable for stock preparation and wood chip cleaners or as junk trap valve in recycled fibre lines.

This is a through-going high performance knife gate valve with superior flow characteristics, offering reliable bidirectional zero leakage shut-off on highly concentrated media and static media columns.

| Size range | DN 150 - DN 600 (6" - 24") |
|-----------------------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A** |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| Valve gate and surface treatments | Hard chromed stainless steel EN 1.4404 |
| | Hard chromed duplex stainless steel EN 1.4462* |
| Valve seat | PTFE |
| Valve packing | TwinPack |
| | WhitePack* |

^{*} Non-standard materials available as options **The D2G is subject for pressure test in opened position only with water at 20 °C according to EN 12266-1:2003 rate A.

| Size range | DN 50 - DN 1200 (2" - 48") |
|--------------------------|--|
| Shut-off technique | Bi-directional, through-going |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard Option in MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A** |
| ATEX availability | On request |
| | Duplex stainless steel EN 1.4470* |
| Valua hadu | Nodular iron EN 5.3105 |
| Valve body | Stainless steel EN 1.4408 |
| | 254 SMO equivalent* |
| | Stainless steel EN 1.4404 |
| Valve gate and | Duplex stainless steel EN 1.4462* |
| surface treatments | 254 SMO or equivalent* |
| | Hard chrome or extra polished surface* |
| | Polyurethane |
| Valve seat | PTFE or FDA/EC 1935/2004 approved PTFE |
| | Stainless steel |
| Valve packing | TwinPack |
| | WhitePack* |
| | FDA/EC 1935/2004 PTFE* |
| | Graphite* |
| * Non standard materials | available as antions |





^{*} Non-standard materials available as options
** Rate A is not applicable on metal seated valves.





HP



This is a compact through-going knife gate valve with superior flow characteristics, offering reliable bi-directional zero leakage shut-off on highly concentrated media and static media columns.

| Size range | DN 400 - DN 800 (16" - 32") |
|--------------------------------------|--|
| Shut-off technique | Bi-directional, through-going |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| Valve gate and Surface treatments | Stainless steel EN 1.4404 |
| | Duplex stainless steel EN 1.4462* |
| | Hard chrome or extra polished surface* |
| Valve seat | PTFE |
| Valve packing | TwinPack |
| | WhitePack* |
| | |

^{*} Non-standard materials available as options

This is a high pressure version of the well-known through-going HG knife gate valve, available in 10 bar pressure class all the way up to DN 800 (32") and 6 bar on DN 900 - DN 1000 (36" - 40").

| Size range | DN 300 - DN 1000 (12" - 40") |
|-----------------------------------|--|
| Shut-off technique | Bi-directional, through-going |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard Option in MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Duplex stainless steel EN 1.4470* |
| | Stainless steel EN 1.4408 |
| | 254 SMO equivalent* |
| Valve gate and surface treatments | Duplex stainless steel EN 1.4462 |
| | 254 SMO or equivalent* |
| | Hard chrome or extra polished surface* |
| Valve seat | PTFE |
| Valve packing | TwinPack |
| | WhitePack* |
| | 0.11 |

^{*} Non-standard materials available as options





HPT



HX



The HPT is a through-going knife gate valve with superior flow characteristics, offering reliable bi-directional zero leakage shut-off up to 10 bar. All wetted parts are made of Titanium and PTFE making it suitable for the most corrosive chemicals.

| Size range | DN 100 - DN 700 (4" - 28") |
|--------------------|--|
| Shut-off technique | Bi-directional, through-going |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| Valve body | Titanium ASTM B265 Grade 2 |
| Valve gate | Titanium ASTM B265 Grade 2 |
| Valve seat | PTFE |
| Valve packing | TwinPack |
| | WhitePack* |

^{*} Non-standard materials available as options

The HX is an extreme through-going high pressure knife gate valve for really demanding applications. It features excellent flow characteristics and provide a tight seal independent of pressure direction.

| Size range | DN 150 - DN 900 (6" - 36") |
|-----------------------------------|--|
| Shut-off technique | Bi-directional, through-going |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| | Duplex stainless steel EN 1.4470* |
| Malaca la adre | Stainless steel EN 1.4408 |
| Valve body | 254 SMO equivalent* |
| | Titanium ASTM B265 Grade 2* |
| | Stainless steel EN 1.4404 |
| Valve gate and surface treatments | Duplex stainless steel EN 1.4462 |
| | Titanium ASTM B265 Grade 2* |
| | 254 SMO or equivalent* |
| | Hard chrome or extra polished surface* |
| Valve seat | PTFE |
| Walan a alda a | TwinPack with PTFE scrapers |
| Valve packing | WhitePack with PTFE scrapers* |
| *** | 9.11 8 |

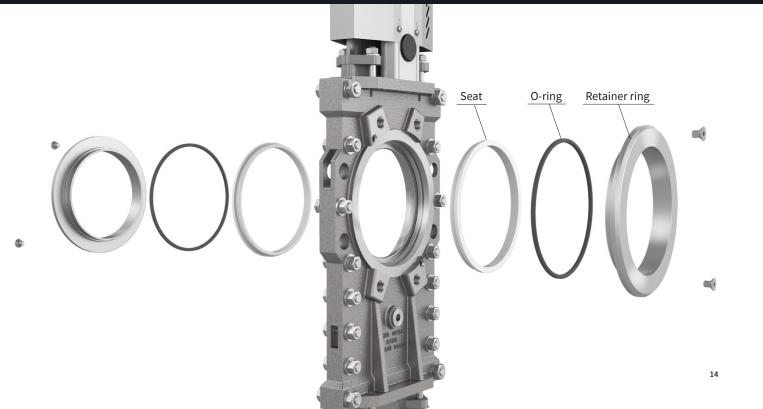
 $^{^{\}star}$ Non-standard materials available as options





Quick and easy maintenance

Long-term is a well-known characteristic for Stafsjö and our products. We want the products to perform through decades. With Stafsjö's retainer ring system you can repeatedly extend the service life, while minimizing downtime and cost. Any maintenance can be carried out quick and easy. The retainer ring system is available on D2G, HG, HL, HP, HPT, HX, JTV, MV, RKO and XV.



JΤ



JTV



This is a complete Junk Trap for abrasive reject separation, primarly for HD cleaners in recycled fibre lines. The JT is specially developed to minimize turbulence, erosive wear and build-up of solids and reject materials.

| Size range | RKO: DN 100 - DN 200 (4" - 8") JTV: 250 x 250 (10" x 10") |
|-----------------------------------|---|
| Shut-off technique | Uni-directional |
| Connection type | Fully lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A The reject tank is pressure tested with water 1,5 times max working pressure** |
| Tank, splash guard | Stainless steel EN 1.4404** |
| Valve body | Stainless steel EN 1.4408 |
| Valve gate and surface treatments | Hard chromed duplex stainless steel EN 1.4462 |
| Valve seat | Polyurethane |
| Valve packing | TwinPack |
| | WhitePack* |
| | |

^{*} Non-standard materials available as options

The JTV is a square knife gate valve for junc traps and high density cleaners separating abrasive materials such as sand, stones, staples, glass and other type of reject from the process media.

| Size range | 250 x 250 (10" x 10") |
|-----------------------------------|---|
| Shut-off technique | Uni-directional |
| Connection type | Fully lugged (Suitable for dead-end service) |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| Valve gate and surface treatments | Hard chromed duplex stainless steel EN 1.4462 |
| Valve seat | Polyurethane |
| Valve packing | TwinPack |
| | WhitePack* |
| | |

^{*} Non-standard materials available as options





^{**} Applicable for tank only





RKO



This is a uni-directional valve for on-off or control, suitable for both liquids and dry media. Extremely reliable shut-off performance have made it popular amongst users worldwide. The modular design and simple maintenance makes it easy to achieve low cost of ownership.

| Size range | DN 50 - DN 1800 (2" - 72") |
|--------------------|--|
| Shut-off technique | Uni-directional |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard Option in MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A** |
| ATEX availability | On request |
| | Duplex stainless steel EN 1.4470* |
| Malua la adu | Nodular iron EN 5.3105, EN-JS1050, GGG50 |
| Valve body | Stainless steel EN 1.4408 |
| | 254 SMO equivalent* |
| | Stainless steel EN 1.4301 or EN 1.4404 |
| Valve gate and | Duplex stainless steel EN 1.4462* |
| surface treatments | 254 SMO or equivalent* |
| | Hard chrome or extra polished surface* |
| | EPDM, FKM/FPM, NBR or Polyurethane |
| Valve seat | PTFE or FDA/EC 1935/2004 approved PTFE |
| | Stainless steel |
| Valve packing | TwinPack |
| | WhitePack* |
| | FDA/EC 1935/2004 approved PTFE* |
| | Graphite* |

^{*} Non-standard materials available as options

This is a roboust valve for high density cleaners with large amount of abrasive and difficult solids. A straight bevel gate edge cut through and provide a tight seal against the seat. The larger square outlet enable full release of difficult media at drain sequence.

| Size range | DN 100 - DN 600 (4" - 24") |
|-----------------------------------|---|
| Shut-off technique | Uni-directional |
| Connection type | Fully lugged (Suitable for dead-end service) |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| | Nodular iron EN 5.3105 |
| Valve gate and surface treatments | Hard chromed duplex stainless steel EN 1.4462 |
| Valve seat | Polyurethane |
| | PTFE |
| Valve packing | TwinPack |
| | WhitePack* |
| | |

^{*} Non-standard materials available as options





^{**} Rate A is not applicable on metal seated valves.

RKS



SLF



This is a uni-directional square or rectangular stainless steel knife gate valve, often used in applications with

media such as bulk and sludge.

| Size range | 200 x 200 - 1000 x 1000 (8" x 8" - 40" x 40") |
|--------------------|--|
| Shut-off technique | Uni-directional |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | TKN 1987 and RN 1978 |
| Test standard | Pressure tests are not performed on the body. Seat tightness test is only performed with NBR seat. |
| Valve body | Stainless steel EN 1.4404 |
| Valve gate | Stainless steel EN 1.4301 |
| | Stainless steel EN 1.4404* |
| Valve seat | Brass |
| | NBR |
| Valve packing | TwinPack |
| | WhitePack* |

^{*} Non-standard materials available as options

This is a heavy duty push through slurry knife gate valve with superior flow characteristics, offering reliable and bidirectional shut-off performance in the most abrasive and demanding mineral processing applications.

| Size range | DN 80 - DN 800 (3" - 32") |
|--------------------|--|
| Shut-off technique | Bi-directional, push through |
| Connection type | Flanged up to DN 400 (16") Fully lugged DN 450 - DN 800 (18" - 32") |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| Valve body | Nodular iron EN 5.3105 |
| Valve gate | Duplex stainless steel EN 1.4462 |
| | EPDM |
| Valve seat | Natural rubber |
| Valve packing | TwinPack with UHMW-PE scraper |
| | |





SLH



SLV



| This heavy duty push through slurry knife gate valve | This is a compact push throug |
|---|---------------------------------|
| is designed to operate and provide bi-directional tight | with superior flow characteris |
| seal up to 20 bar in demanding mineral processing | bi-directional shut-off perform |
| applications, typically slurry tailing systems. | demanding mineral processin |

| Size range | DN 80 - DN 650 (3" - 26") |
|-----------------------------------|--|
| Shut-off technique | Bi-directional, push through |
| Connection type | Fully lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| Valve body | Nodular iron EN 5.3105 |
| Valve gate and surface treatments | Hard anti-stick coated high strength stainless steel |
| Valve seat | EPDM |
| | Natural rubber |
| Valve packing | TwinPack with UHMW-PE scraper |
| | |

| This is a compact push through sturry knife gate valve |
|---|
| with superior flow characteristics, offering reliable and |
| bi-directional shut-off performance in abrasive and |
| demanding mineral processing applications. |
| |

| Size range | DN 50 - DN 900 (2" - 36") |
|--------------------|--|
| Shut-off technique | Bi-directional, push through |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| Valve body | Nodular iron EN 5.3105 |
| Valve gate | Duplex stainless steel EN 1.4462 |
| Valve seat | EPDM |
| | Natural rubber |
| Valve packing | TwinPack with UHMW-PE scraper |
| | |





SLX



TV



This is an extreme push through slurry knife gate valve, designed to operate and provide bi-directional tight seal up to 50 bar in demanding mineral processing applications, typically slurry tailing systems.

| Size range | DN 80 - DN 450 (3" - 18") |
|-----------------------------------|--|
| Shut-off technique | Bi-directional, push through |
| Connection type | Fully lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| Valve body | Nodular iron EN 5.3105 |
| Valve gate and surface treatments | Hard anti-stick coated high strength stainless steel |
| Value and | EPDM |
| Valve seat | Natural rubber |
| Valve packing | TwinPack with UHMW-PE scraper |

This is a transmitter isolation valve that can be used on both dry media and liquids. The compact design and unique flange pattern enable direct installation on the tank wall and downstream transmitter or any other equipment can be disengaged without draining the tank.

| Size range | DN 80 (3") |
|--------------------|--|
| Shut-off technique | Uni-directional |
| Connection type | Fully lugged (Suitable for dead-end service) |
| Face-to-face | Stafsjö manufacturing standard Option in MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| Value gate | Stainless steel EN 1.4404 |
| Valve gate | Duplex stainless steel EN 1.4462* |
| | EPDM |
| | FPM/FKM |
| Valve seat | NBR |
| | PTFE |
| | FDA/EC 1935/2004 approved PTFE |
| | TwinPack |
| Valve packing | WhitePack* |
| | FDA/EC 1935/2004 approved PTFE* |
| | Graphite* |
| *** | 0.11 |

^{*} Non-standard materials available as options





WB



WB11



This compact knife gate valve is suitable for fluids such as water, sludge and biomass. It offers superior flow characteristics and bi-directional zero leakage shut-off.

| Size range | DN 350 - DN 1600 (14" - 64") |
|--------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Wafer/Semi lugged |
| Face-to-face | Stafsjö manufacturing standard |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Nodular iron EN 5.3105 |
| Valve gate | Duplex stainless steel EN 1.4462* |
| | Stainless steel EN 1.4301 |
| | Stainless steel EN 1.4404* |
| Valve seat | EPDM |
| | NBR |
| Valve packing | TwinPack |

^{*} Non-standard materials available as options

This is a bi-directional semi lugged/wafer type knife gate valve with excellent flow characteristics suitable for fluids. Integrated NBR flange gaskets on all sizes simplify installation works.

| Size range | DN 50 - DN 300 (2" - 12") |
|--------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Wafer/Semi lugged |
| Face-to-face | EN 558-1 series 20 and ISO 5752 series 20 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Nodular iron EN-JS1050, GGG50 |
| | Duplex stainless steel EN 1.4462* |
| Valve gate | Stainless steel EN 1.4301 |
| | Stainless steel EN 1.4404* |
| | EPDM |
| Valve seat | FEPM |
| | NBR |
| Valve packing | TwinPack |
| | |

^{*} Non-standard materials available as options





WB14



WB14E



This is a bi-directional fully lugged knife gate valve with excellent flow characteristics suitable for fluids. Integrated NBR flange gaskets on all sizes simplify installation works.

| Size range | DN 50 - DN 600 (2" - 24") |
|--------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Fully lugged (Suitable for dead-end service) |
| Face-to-face | EN558-1 series 20 and ISO 5752 series 20 MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Nodular iron EN 5.3105, EN-JS1050, GGG50 |
| | Duplex stainless steel EN 1.4462* |
| Valve gate | Stainless steel EN 1.4301 |
| | Stainless steel EN 1.4404* |
| | EPDM |
| Valve seat | FEPM |
| | NBR |
| Valve packing | TwinPack |

^{*} Non-standard materials available as options

This is a fully lugged high performance knife gate valve with superior flow characteristics, offering bi-directional zero leakage shut-off. It is suitable for fluids such as pulp stock, chemicals, sludge, biomass and water.

| Size range | DN 50 - DN 900 (2" - 36") |
|--------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Fully lugged (Suitable for dead-end service) |
| Face-to-face | MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| | Duplex stainless steel EN 1.4470 ≥ DN 350 (14")* |
| Valve body | Stainless steel EN 1.4408 |
| | 254 SMO equivalent ≥ DN 350 (14")* |
| | Duplex stainless steel EN 1.4462* |
| Valve gate | Stainless steel EN 1.4404 |
| | 254 SMO or equivalent* |
| Valve seat | EPDM |
| | FEPM |
| | NBR |
| Valve packing | TwinPack with PTFE scraper |
| | |

^{*} Non-standard materials available as options









This is a compact chemical resistant and bi-directional knife gate valve suitable for fluids such as pulp stock, biomass and sludge. The XV is supplied with either a fully or a semi lugged valve body.

| Size range | DN 65 - DN 1000 (2.5" - 40") |
|--------------------|--|
| Shut-off technique | Bi-directional |
| Connection type | Wafer/Semi lugged |
| | Fully lugged |
| | Fully lugged suitable for dead-end service DN 80 - DN 200 (3" - 8") |
| Face-to-face | Stafsjö manufacturing standard Option in MSS-SP81 |
| Design standard | PED 2014/68/EU category I and II module A2 |
| Test standard | EN 12266-1:2003 rate A |
| ATEX availability | On request |
| Valve body | Stainless steel EN 1.4408 |
| Valve gate | Stainless steel EN 1.4404 |
| | Duplex stainless steel EN 1.4462* |
| Value seek | PTFE |
| Valve seat | FDA/EC 1935/2004 approved PTFE |
| Valve packing | TwinPack |
| | WhitePack* |
| | FDA/EC 1935/2004 approved PTFE* |

^{*} Non-standard materials available as options



Pressure class (bar)

Below table provide "Max working pressure" / "Max differential pressure" at 20 °C except for HX which is specified at 110 °C.

Stafsjö's valves are subject for pressure tests before delivery in opened and closed position with water at 20 °C according to EN 12266-1:2003 rate A. No visually detectable leakage is allowed for duration of the test. Rate A is not applicable on metal seated valves. On request Stafsjö can provide 2.2 test report and 3.1 inspection certificate according to EN 10204.

| DN | D2G | HG | HL | HP | HPT | НХ | JT | JTV ¹⁾ | MV | RKO |
|------|------|---------|-----|---------|---------|---------|-----|-------------------|----------|----------|
| 50 | | 10 / 10 | | | | | | | 16 / 16 | |
| 65 | | | | | | | | | 16 / 16 | |
| 80 | | 10 / 10 | | | | | | | 16 / 16 | |
| 100 | 10/6 | 10 / 10 | | | 10 / 10 | | 6/6 | | 16 / 16 | 10 / 6,2 |
| 125 | 10/6 | 10 / 10 | | | 10 / 10 | | 6/6 | | 16 / 16 | 10 / 6,2 |
| 150 | 10/6 | 10 / 10 | | | 10 / 10 | 20 / 20 | 6/6 | | 10 / 10 | 10 / 6,2 |
| 200 | 10/6 | 10 / 10 | | | 10 / 10 | 20 / 20 | 6/6 | | 10 / 10 | 10 / 6,2 |
| 250 | 10/6 | 10 / 10 | | | 10 / 10 | 20 / 20 | 6/6 | 6/6 | 10 / 10 | 10 / 6,2 |
| 300 | 10/6 | 6/6 | | 10 / 10 | 10 / 10 | 20 / 20 | | | 10 / 10 | 10 / 6,2 |
| 350 | 10/6 | 6/6 | | 10 / 10 | 10 / 10 | 20 / 20 | | | 6/6 | 10 / 6,2 |
| 400 | 10/6 | 6/6 | 6/6 | 10 / 10 | 10 / 10 | 20 / 20 | | | 6/6 | 10 / 6,2 |
| 450 | | 6/6 | | 10 / 10 | 10 / 10 | 20 / 20 | | | 6/6 | 10 / 6,2 |
| 500 | 6/4 | 6/6 | 4/4 | 10 / 10 | 10 / 10 | 20 / 20 | | | 6/6 | 6/4 |
| 600 | 6/4 | 6/6 | 4/4 | 10 / 10 | 10 / 10 | 20 / 20 | | | 6/6 | 6/4 |
| 700 | | 6/6 | 4/4 | 10 / 10 | 10 / 10 | 20 / 20 | | | 4/4 | |
| 750 | | 6/6 | | 10 / 10 | | | | | 4/4 | |
| 800 | | 6/6 | 4/4 | 10 / 10 | | 20 / 20 | | | 4 / 42) | |
| 900 | | 4/4 | | 6/6 | | 16 / 16 | | | 4/4 | |
| 1000 | | 4/4 | | 6/6 | | | | | 4/4 | |
| 1200 | | 4/4 | | | | | | | 4/2 or 4 | |
| 1400 | | | | | | | | | 4/2 or 4 | |
| 1600 | | | | | | | | | 4/2 or 4 | |
| 1800 | | | | | | | | | 4/2 or 4 | |

¹⁾ The JTV has a square 250 x 250 mm bore.

²⁾ MV DN 800 is also available in a 10 / 10 bar version. Offer on request.

| DN | SLV | SLF | SLH | SLX | TV | WB | WB11 | WB14 | WB14E | XV |
|------|---------|---------|---------|---------|----------|------------|---------|--------------|--------------|-----------------------|
| 50 | 10 / 10 | | | | | | 10 / 10 | 10 / 10 | 10 / 10 | |
| 65 | 10 / 10 | | | | | | 10 / 10 | 10 / 10 | | 16 / 10 |
| 80 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | 16 / 3,5 | | 10 / 10 | 10 / 10 | 10 / 10 | 16 / 10 ³⁾ |
| 100 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | | 10 / 10 | 10 / 10 | 10 / 10 | 16 / 10 ³⁾ |
| 125 | 10 / 10 | | | | | | 10 / 10 | 10 / 10 | | 16 / 10 ³⁾ |
| 150 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | | 10 / 10 | 10 / 10 | 10 / 10 | 16 / 10 ³⁾ |
| 200 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | | 10 / 10 | 10 / 10 | 10 / 10 | 10 / 103) |
| 250 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | | 10 / 10 | 10 / 10 | 10 / 10 | 10 / 10 |
| 300 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | | 10 / 10 | 10 / 10 | 10 / 10 | 10 / 10 |
| 350 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | 6/6 | | 10 / 6 or 10 | 10 / 6 or 10 | 10 / 10 |
| 400 | 10 / 10 | 10 / 10 | 20 / 20 | 50 / 50 | | 6/6 | | 10 / 6 or 10 | 10 / 6 or 10 | 10/6 |
| 450 | 10/6 | 10/6 | 20 / 20 | 50 / 50 | | | | 10 / 6 or 10 | 10 / 6 or 10 | 10/6 |
| 500 | 10/6 | 10/6 | 20 / 20 | | | 4/4 | | 10 / 4 or 10 | 10 / 4 or 10 | 10/6 |
| 600 | 10/6 | 10/6 | 20 / 20 | | | 4/4 | | 10 / 4 or 10 | 10 / 4 or 10 | 10/6 |
| 650 | | | 20 / 20 | | | | | | | |
| 700 | 5/5 | | | | | 4/2 or 4 | | | | 6/4 |
| 750 | | 5/5 | | | | | | | 4/4 or 6/6 | |
| 800 | 5/5 | 5/5 | | | | 4 / 2 or 4 | | | 4/4 or 6/6 | 6/4 |
| 900 | 5/5 | | | | | 4 / 2 or 4 | | | | 6/4 |
| 1000 | | | | | | 4/1 or 2 | | | | 4 / 4 |
| 1200 | | | | | | 4/1 or 2 | | | | |
| 1400 | | | | | | 2/1 | | | | |
| 1600 | | | | | | 2/1 | | | | |

³⁾ The XV is also available in a 12,5 bar version in DN 80 - DN 200 (3" - 8").

A first-rate seal to atmosphere

Stafsjö's TwinPack offers high mechanical strength, excellent chemical resistance and a tight seal to atmosphere. The TwinPack braid is made up by an elastic silicon rubber core surrounded by diagonally interlocked graphite filled PTFE with aramid fiber reinforced corners. The TwinPack braids resist pH 2-13 and temperatures -60 °C up to 260 °C. The stuffing box can also be reinforced with scrapers to further support the seal and some knife gate valves are also available with double gland for the most demanding applications.

Our valve experts at Stafsjö and all around the world are ready to support if you have any questions on knife gate valve configurations suitable for your process.



Material and actuator service temperatures



The following material and actuator temperatures can be used as guidelines to define minimum and maximum temperatures for the knife gate valve. Please feel free to contact Stafsjö for advise.

| Valve body/retainer ring materials | Service temperatures | Standard field of use |
|--|-------------------------------------|--|
| Duplex stainless steel EN 1.4470 | -50 °C - +250 °C / -58 °F - +482 °F | |
| Hastelloy C276 | -30 °C - +425 °C / -22 °F - +797 °F | |
| Nodular iron EN-JS1050, GGG50 | -10 °C - +200 °C / 14 °F - +392 °F | WB11 ≤ DN 300, WB14-L ≤ DN 300, MV-L ≤ DN 300 |
| Nodular iron EN 5.3105 | -10 °C - +350 °C / 14 °F - +662 °F | HG-L, MV-L \geq DN 350, SLF, SLH, SLV, SLX, WB \geq DN 350, WB14 \geq DN 350 |
| Super duplex stainless steel EN 1.4469 | -50 °C - +250 °C / -58 °F - +482 °F | |
| Stainless steel EN 1.4408 | -50 °C - +400 °C / -58 °F - +752 °F | D2G, HG, HL, HP, HX, JTV, MV, RKO, TV, WB14E, XV |
| Titanium ASTM B265 Grade 2 | -40 °C - +300 °C / -40 °F - +572 °F | НРТ |
| 254 SMO stainless steel equivalent | -40 °C - +399 °C / -40 °F - +750 °F | |

| Gate materials | Service temperatures | Standard field of use |
|---|--------------------------------------|---|
| Duplex stainless steel EN 1.4462 | -40 °C - +400 °C / -40 °F - +752 °F | JTV, HP, HX \geq DN 400, SLF, SLH, SLV, RKO |
| Hard anti-stick coated duplex stainless steel EN 1.4462 | -40 °C - +250 °C / -40 °F - +482 °F | SLH |
| Super duplex stainless steel EN 1.4410 | -40 °C - +400 °C / -40 °F - +752 °F | |
| Stainless steel EN 1.4301 | -40 °C - +400 °C / -40 °F - +752 °F | MV-L DN 50-DN 500, RKS, WB, WB11, WB14-L |
| Stainless steel EN 1.4404 | -40 °C - +400 °C / -40 °F - +752 °F | D2G, HG, HL, HX ≤ DN 350, MV-E, TV, WB14E, XV |
| Stainless steel UNS17400 Type 630 ASTM A69 | 3 -18 °C - +300 °C / -0 °F - +572 °F | |
| Hard anti-stick coated stainless steel UNS17400 Type 630 ASTM A693 | -18 °C - +250 °C / -0 °F - +482 °F | SLH, SLX |
| Titanium ASTM B265 Grade 2 | -40 °C - +300 °C / -40 °F - +572 °F | HPT |
| 254 SMO stainless steel or equivalent | -40 °C - +399 °C / -40 °F - +750 °F | |

| Valve body guiding pad materials | Service temperatures | Standard field of use |
|----------------------------------|---------------------------------------|--|
| Brass | -125 °C - +200 °C / -193 °F - +392 °F | |
| PEHD | -150 °C - +80 °C / -238 °F - +176 °F | MV DN 400 - 800, XV ≥ DN 500 |
| POM-C | -40 °C - +100 °C / -40 °F - +212 °F | D2G, JTV, MV DN 400 - 800, ≥ 1200, RKO, SLH, SLX, WB ≥ DN 700, WB14E, XV ≥ DN 700 |
| PTFE | -80 °C - +260 °C / -112 °F - +500 °F | HG ≥ DN 250, HL, HP, HX, HPT, MV ≥ DN 900, WB14E |

| Valve body gasket materials | Service temperatures | Standard field of use |
|-----------------------------|--------------------------------------|---|
| EPDM | -25 °C - +120 °C / -13 °F - +248 °F | $WB \ge DN 700, WB14 \ge DN 350, WB14E \ge DN 350$ |
| FEPM | -10 °C - + 180 °C / 14 °F - +356 °F | WB11, WB14, WB14E |
| FPM/FKM | -15 °C - +180 °C / 5 °F - +356 °F | HL, HG \geq DN 300, HP, HX \geq DN 350, JTV, MHE DN 800, MV DN 900-DN 1600, RKO \geq DN 300, SLV DN 700-DN 900, SLF \geq DN 450, SLH \geq DN 350, SLX \geq DN 350, XV \geq DN 700 |
| Graphite tape | -50 °C - +550 °C / -58 °F - +1022 °F | HG DN 50-DN 150, RKO DN 100-DN 250 |
| NBR | -25 °C - +100 °C / -13 °F - +212 °F | WB ≥ DN 700, WB14 ≥ DN 350, WB14E ≥ DN 350 |
| PTFE | -80 °C - +260 °C / -112 °F - +500 °F | HG DN 200-DN 250, HPT, HX DN 150-DN 300, SLH \leq DN 300, SLX \leq DN 300 |

| Seat materials | Service temperatures | Standard field of use |
|--|--|---|
| Brass | -125 °C - +200 °C / -193 °F - +392 °F | RKS |
| EPDM | -25 °C - +120 °C / -13 °F - +248 °F | MV, TV, SLV, SLF, SLH, SLX, WB, WB11, WB14, WB14E |
| FEPM | -10 °C - + 180 °C / 14 °F - +356 °F | WB11, WB14, WB14E |
| FPM/FKM | -15 °C - +180 °C / 5 °F - +356 °F | MV |
| Natural rubber | -25 °C - +80 °C / 5 °F - +176 °F | SLF, SLH, SLV and SLX |
| NBR | -25 °C - +100 °C / -13 °F - +212 °F | MV, RKS, WB, WB11, WB14, WB14E |
| Polyurethane | -25 °C - +90 °C / -13 °F - +194 °F | HG, JTV, MV, RKO |
| PTFE with o-ring NBR | -25 °C - +100 °C / -13 °F - +212 °F | D2G, HG, HL, HP, HPT, HX, MV, RKO, TV, XV |
| PTFE with o-ring EPDM | -25 °C - +120 °C / -13 °F - +248 °F | D2G, HG, HL, HP, HPT, HX, MV, RKO, TV, XV |
| PTFE with o-ring FPM/FKM | -15 °C - +180 °C / 5 °F - +356 °F | D2G, HG, HL, HP, HPT, HX, MV, RKO, TV, XV |
| Stainless steel with grafoil tape | -40 °C - +400 °C / -40 °F - +752 °F | MV, HG |
| Stainless steel EN 1.4408 with o-ring NBR | -25 °C - +100 °C / -13 °F - +212 °F | MV, HG |
| Stainless steel EN 1.4408 with o-ring EPDM | -25 °C - +120 °C / -13 °F - +248 °F | MV, HG |
| Stainless steel EN 1.4408 with o-ring FKM | -15 °C - +180 °C / 5 °F - +356 °F | MV, HG |
| | | |
| Box packing materials | Service temperatures | Standard field of use |
| Graphite (pH range: 2-13) | -200 °C - +600 °C / -328 °F - +1112 °F | |
| PTFE (pH range: 0-14) | -80 °C - +260 °C / -112 °F - +500 °F | |
| TwinPack (pH range: 2-13) | -60 °C - +260 °C / -76 °F - +500 °F | All products |
| WhitePack (pH range: 2-13) | -60 °C - +260 °C / -76 °F - +500 °F | |
| | | |
| Box packing scraper materials | Service temperatures | Standard field of use |
| Brass | -125 °C - +200 °C / -193 °F - +392 °F | |
| PEHD | -30 °C - +80 °C / -22 °F - +176 °F | MV DN 500-DN 800 |
| PTFE | -80 °C - +280 °C / -112 °F - +536 °F | HX, WB14E |
| UHMW-PE | -200 °C - +85 °C / -328 °F - +185 °F | SLV, SLF, SLH, SLX, XV ≤ DN 600, WB 350-DN 600, WB11/WB14 DN 200-DN 300 |
| | | |
| Actuators | Service temperatures | Standard field of use |
| Auma SA actuators | -30 °C - +70 °C / -22 °F - +158 °F | |
| Auma GK bevel gears | -25 °C - + 80 °C / -13 °F - +176 °F | |
| | | |

-20 °C - +80 °C / -4 °F - +176 °F

-20 °C - +70 °C / -4 °F - +158 °F

-20 °C - +70 °C / -4 °F - +158 °F

-30°C - +65°C / -22 °F - +149 °F

+5°C - +40°C / -41 °F - +104 °F

-34 °C - +120 °C / -30 °F to 250 °F

 $-34 \,^{\circ}\text{C} - +120 \,^{\circ}\text{C} \, / \, -30 \,^{\circ}\text{F} \, \text{to} \, 250 \,^{\circ}\text{F}$

-30 °C - +100 °C / -22 °F - +212 °F

D2G & RKS

WB11, WB14, WB14E, MV DN 50-DN 300

WB11, WB14, WB14E, MV DN 50-DN 300

All products except D2G & RKS

Ceson double-acting hydraulic cylinder

CFP double-acting pneumatic cylinders

CFP single-acting pneumatic cylinders

PA double-acting pneumatic cylinders

PA single-acting pneumatic cylinders

SC double-acting pneumatic cylinders

Linak LA36 actuator unit

Linak control unit

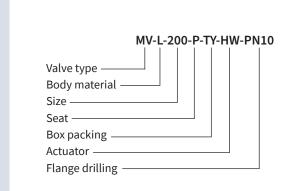
Automation equipment customized for your process

For decades, we have been providing knife gate solutions to process industries around the world. We are used to adapting the knife gate valves to local requirements. No matter where in the world the plant is located, the products we supply should meet or exceed our customers' expectations.



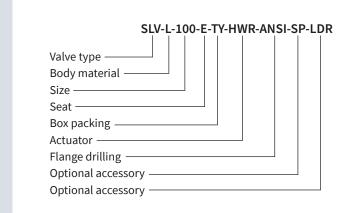
Describe your knife gate valve

Following descriptions can be used to briefly define material, actuator and accessories of desired Stafsjö knife gate valve. Please feel free to contact Stafsjö for advise.



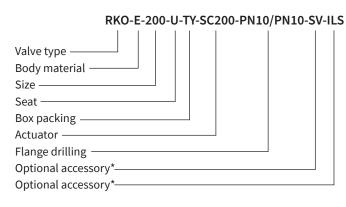
Standard configuration

Retainer ring and gate material as well as accessories only has to be mentioned in end of the description if it is different from standard.



Standard configuration with accessories

In this example the customer also wants to have stem protection and load distribution rings. This is mentioned in end of the description.



- * SV: Solenoid valve Stafsjö standard 220/230 V AC
- * ILS: Inductive limit switches Stafsjö standard 20-250V AC/DC

Standard configuration with optional flange pattern

In this example the customer wants to have PN10 flange pattern on both inlet and outlet/discharge side. This is only possible on RKO DN 100 - DN 200. The accessories are mentioned in end of the description.

Knife gate valve options D2G HL HG ΗP HPT HX JTV JΤ MV RKO RKS SLV SLF SLH SLX TV XV SL (semi lugged version) XV FL (fully lugged version) XV FLD (fully lugged version for dead-end services) WB WB11 WB12

| Valve | bodv | material | options |
|-------|------|----------|---------|
| | | | |

WB14

WB14E

| D | Duplex stainless steel EN 1.4470 |
|-----|--|
| E | Stainless steel EN 1.4408 |
| L | Nodular iron EN 5.3105, EN-JS1050, GGG50 |
| SMO | Equivalent material to 254 SMO stainless steel |

Titanium ASTM B265 Grade 2

See product data sheet for each knife gate valve for available material options.

Seat material options

| E | EPDM |
|-------|--|
| F | FEPM |
| V | FPM/FKM/Viton |
| NR | Natural rubber |
| N | NBR |
| М | Metal with o-ring NBR (Brass on the RKS valve) |
| MV | Metal with o-ring FPM/FKM |
| MHT | Metal with grafoil tape |
| P | PTFE with o-ring NBR |
| PE | PTFE with o-ring EPDM |
| PV | PTFE with o-ring FPM/FKM |
| PFDA | FDA/EC 1935/2004 approved PTFE with o-ring NBR |
| PEFDA | FDA/EC 1935/2004 approved PTFE with o-ring EPDM |
| PVFDA | FDA/EC 1935/2004 approved PTFE with o-ring FPM/FKM |
| U | Polyurethane |

See product data sheet for each knife gate valve for available material options.

Gland box packing options

| TG | Graphite |
|----|----------|
| TF | PTFE |

TFFDA FDA/EC 1935/2004 approved PTFE

TwinPack TY

TYS TwinPack with a UHMW-PE scraper **TYPS** TwinPack with PTFE scraper TYB TwinPack with brass scraper

WP

See product data sheet for each knife gate valve for available material options.

Actuator options

| BS | Bare shall, actuator excluded |
|----|-------------------------------|
| | |

CW Chain wheel

CFPXXX CFP (or PA) double-acting pneumatic cylinder in

size XXX

CFPXXXMO CFP (or PA) double-acting pneumatic cylinder in

size XXX with manual override

CFPXXXC CFP (or PA) double-acting pneumatic cylinder in

size XXX including pneumatic cushioning

CFPSOXXX CFP (or PA) single-acting pneumatic cylinder in size

XXX with spring return to open the valve

CFPSCXXX CFP (or PA) single-acting pneumatic cylinder in size

XXX with spring return to close the valve

CFP (or PA) single-acting pneumatic cylinder in **CFPSOXXXMO**

size XXX with spring return to open the valve and

manual override

CFPSCXXXMO CFP (or PA) single-acting pneumatic cylinder in

size XXX with spring return to close the valve and

manual override

HL Hand lever

HC Stafsjö standard double-acting hydraulic cylinder

HW Hand wheel with non-rising stem

HWALU Hand wheel in aluminum with non-rising stem **HWSS** Hand wheel in stainless steel with non-rising stem

HWR Hand wheel with rising stem

ΕM Electrical motor for open-close duty with rising stem. Brand, size, voltage and extra module must

always be specified.

EMR

Electrical motor for modulating duty with rising stem. Brand, size, voltage and any extra module

must always be specified

LI Electric motor from LINAK. Control unit must be

specificied.

PrepEM The valve is preparred for assembly of electric

motors with interface FXX and output drive type A

(rising stem) according ISO 5210.

PrepEMB3 The valve is preparred for assembly of electric

motors with interface FXX and output drive type B3

(non-rising stem) according ISO 5210.

PrepBG The valve is preparred for assembly of bevel

gear with interface FXX and output drive type A

according ISO 5210.

SCXXX SC double-acting pneumatic cylinder in size XXX

(100, 125, 160, 200, 250, 320). Magnetic piston is

standard up to Ø 200 barrel size.

SC double-acting pneumatic cylinder with **SCXXXM**

magnetic piston in size XXX (250, 320)

Flange drilling options

| ANSI150 | ANSI/ASME B16.5 Class 150 or B 16.47 Class 150 |
|---------|--|
| ANSI300 | ANSI/ASME B16.5 Class 300 |
| ASD | AS 2129 Table D |
| ASE | AS 2129 Table E |
| ASF/H | AS 2129 Table F/H |
| BS | BS 10 table D |
| JIS | JIS B 2238 10K |
| PN10 | EN 1092 PN10 |
| PN16 | EN 1092 PN16 |
| PN25 | EN 1092 PN25 |
| PN40 | EN 1092 PN40 |
| SS | Stafsjö Standard |

See product data sheet for each knife gate valve for available flange drilling options. Flange drill pattern on the outlet/discharge side of RKO must also be specified if it is not standard square pattern.

Flange drill pattern on the inlet/seat/tank side of TV must also be specified if it is not Stafsjö standard.

On JTV knife gate valves, keep in mind to also to mention if metric or UNC threads is needed.

| Reta | ıner | rıng | options |
|------|------|------|---------|

D Duplex stainless steel EN 1.4470
E Stainless steel EN 1.4408

L Nodular iron EN 5.3105, EN-JS1050, GGG50
SMO Equivalent material to 254 SMO stainless steel

T Titanium ASTM B265 Grade 2

See product data sheet for each knife gate valve for available material options. Retainer ring material only has to be specified in end of the description if it is different from standard.

Gate material and surface treatment options

| FAL | Duplex stainless steel EN 1.4462, S32205 |
|--------|---|
| EPS | Extra polished surface (max Ra 0,8) |
| HCR | Hard chromed surface |
| SF2 | Nedox SF2 coating |
| SMO | 254 SMO stainless steel or equivalent |
| T | Titanium ASTM B265 Grade 2 |
| 174ph | Stainless steel UNS17400 Type 630 ASTM A693 |
| | hardened 43 HRC |
| 1.4301 | Stainless steel EN 1.4301/AISI 304 |

Stainless steel EN 1.4404/AISI 316L

See product data sheet for each knife gate valve for available material options. Gate material and surface treatment only has to be specified in end of the description if it is different from standard.

Standard accessorie options

1.4404

LDR

MLS

PPS

PPC

MagLS

MSSSP81 POS

PPCSSPW

| Standard acce | ssorie options |
|---------------|---|
| ATEX | ATEX approved solution. Category, zone and temperature also have to be specified. |
| BC | Bottom cover |
| CoC | Country of Origin Certificate legalized by Chamber of Commerce |
| CS4 | Painted valve parts fulfill in applicable areas corrosion protection against environment according EN ISO 12944, corrosivity category C4 medium |
| CS5 | Painted valve parts fulfill in applicable areas corrosion protection against environment according EN ISO 12944, corrosivity category C5 high. |
| DC | Deflection cone |
| DG | Double gland |
| FC | Floor column to stem extensions |
| FSAT | Fail-safe solution with air accumulator tank |
| FAPSAIR | Fully automated purge systems with air purging |
| FAPS | Fully automated purge systems with water purging |
| FRL | Filter regulator Stafsjö standard including assembly bracket. Make a note if 1/4" or 1/2" should be supplied. |
| FRLNPT | Filter regulator Stafsjö standard with NPT threads including including assembly bracket. Make a note if 1/4" or 1/2" should be supplied. |
| ILS | Inductive limit switch Stafsjö standard. Make a note if it should be for 20 - 250 V AC/DC or 10 - 36 V DC. |
| JB | Junction box Stafsjö standard. |
| JBALU | Junction box Stafsjö standard in aluminum. |
| JBSS | Junction box Stafsjö standard in stainless steel. |
| LD | Lockout with locking device/pin |
| | |

Load distribution rings

Magnetic limit switches Stafsjö standard.

Mechanical limit switch Stafsjö standard.

Brand and type must be specified.

quantity must be specified.

specified.

Purge ports extra, standard positions.

Face-to-face dimensions according MSS-SP81.

Purge ports, customized postions. Position and

Purge ports customized postions including stainless steel pipe works. Position and quantity must be

| PrepILS | Hand wheel operated valves is preparred with indicator pin and beams with holes. Brackets for switches excluded. |
|---------|--|
| SBU | Ebro SBU switch box |
| SBUIO | Ebro SBU IO-Link switch box |
| SEL | Stem extension long. Extra supports must be specified. |
| SES | Stem extension short. Extra supports must be specified. |
| SSPW | Stainless steel pipe works (air tubes) |
| SP | Stem and piston rod protection/Bellow. |
| SSP | Stainless steel pillar top works |
| SSTWLD | Stainless steel top works including lockout |
| SV | Solenoid valve, Namur interface, Stafsjö standard. Make a note if should be supplied for 24 V DC, 110 V AC or 220/230 V AC. |
| SVNPT | Solenoid valve, Namur interface, NPT ports, Stafsjö standard. Make a note if should be supplied for 24 V DC, 110 V AC or 220/230 V AC. |
| SVB | Solenoid valve excluding namur interface, including bracket. Make a note if should be supplied for 24 V DC, 110 V AC or 220/230 V AC. |
| TAG | Tag plate |
| RFK | MV reverse flow kit |
| T-key | Stem extension with a T-key |
| Vp | V-port in stainless steel |
| 2.2 | 2.2 test report according to EN 10204 |
| 3.1 | 3.1 inspection certificate according to EN 10204 |
| | |

Your notes

WB14E



