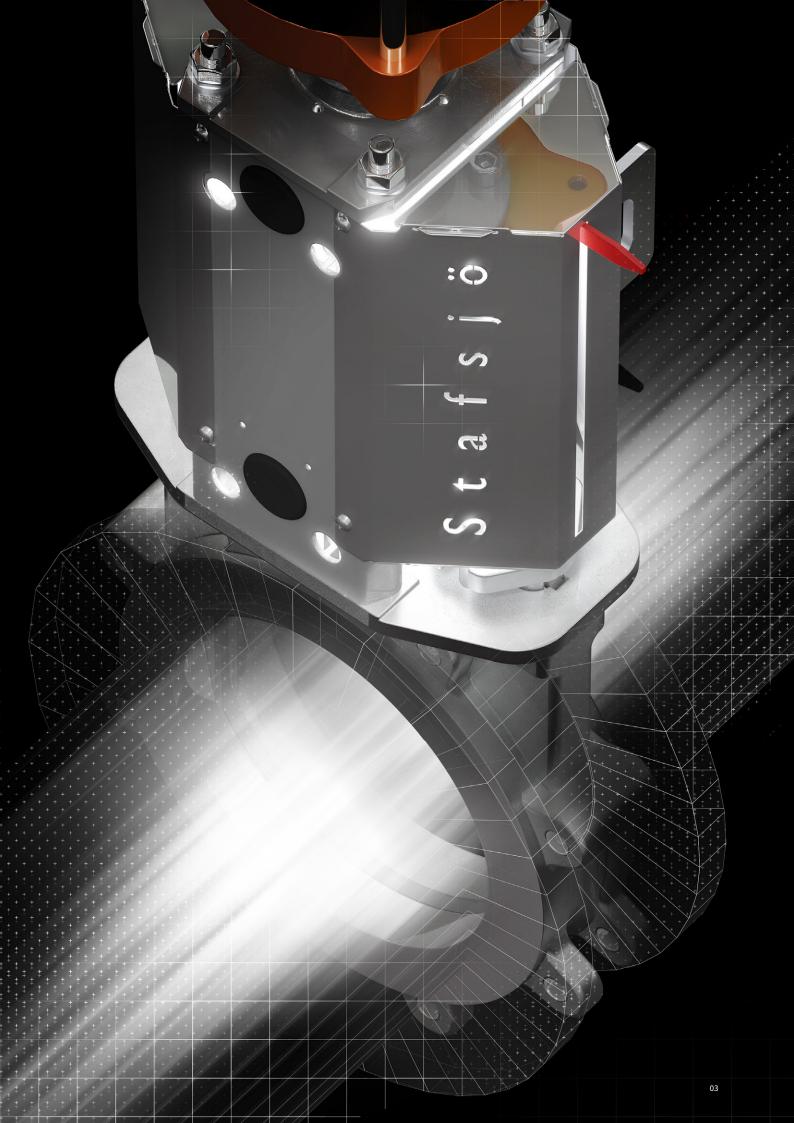


Knife gate valve specification guide



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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.

Stafsjö's 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. The company also offers aftersales support on all continents and automation solutions to meet customer standards across the world.

Stafsjö maintain development and manufacturing on the same location it all started in 1666, in Stavsjö Sweden. The owner Ebro Armaturen Gebr. Bröer GmbH is headquarted in Hagen, Germany.

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 customer 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 provide a reliable isolation or control when 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 unidirectional 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 isolation whenever needed. Some of them are also available in fully lugged versions for dead-end 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 – 100 % tight in any pressure direction.



Knife gate valves for a wide range of industrial applications

The knife gate solutions we manufacture provide reliable isolation or control duty 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. Find your contact on stafsjo.com/contact/.



D2G

The D2G have two hard chromed gates working towards each other in the bore providing extremely fast operation. It is suitable for stock preparation and wood chip cleaners or as junk traps in recycled fibre lines.

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/ 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 $^{\rm o}{\rm C}$ according to EN 12266-1:2003 rate A.

HG

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 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*
Value hadu	Nodular iron EN 5.3105
Valve body	Stainless steel EN 1.4408
	254 SMO equivalent*
	Stainless steel EN 1.4404
Valve gate/	Duplex stainless steel EN 1.4462*
Surface treatments	254 SMO or equivalent*
	Hard chrome or extra polished surface*
	Polyurethane
Valve seat	PTFE or PTFE FDA/EC 1935/2004
	Stainless steel
Valve packing	TwinPack
	WhitePack*
	FDA/EC 1935/2004 approved PTFE*
	Graphite*

* Non-standard materials available as options

** Rate A is not applicable on metal seated valves.





HL

The HL is a compact through-going 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 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/ 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	

HP

The HP is a high pressure through-going 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 300 - DN 900 (12" - 36")
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*
Valve body	Stainless steel EN 1.4408
	254 SMO equivalent*
	Duplex stainless steel EN 1.4462
Valve gate/ Surface treatments	254 SMO or equivalent*
	Hard chrome or extra polished surface*
Value cost	PTFE
Valve seat	PTFE FDA/EC 1935/2004
Valve packing	TwinPack
	WhitePack*
* Non-standard materials available as entions	





HPT

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/150 psi. All wetted parts are supplied in Titanium and PTFE making it suitable for the most corrosive chemicals.

Size range	DN 150 - DN 700 (6" - 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
ATEX availability	On request
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

HX

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*
Value body	Stainless steel EN 1.4408
Valve body	254 SMO equivalent*
	Titanium ASTM B265 Grade 2*
Valve gate/ Surface treatments	Stainless steel EN 1.4404
	Duplex stainless steel EN 1.4462
	Titanium ASTM B265 Grade 2*
	254 SMO or equivalent*
	Hard chrome or extra polished surface*
Valve seat	PTFE
Value packing	TwinPack including PTFE scrapers
Valve packing	WhitePack including PTFE scrapers*





Junk Trap JT

This is a complete solution 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 material.

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/ Surface treatments	Hard chromed duplex stainless steel EN 1.4462
Valve seat	Polyurethane
Valve packing	TwinPack
	WhitePack*

JTV

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
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
Face-to-face	Stafsjö manufacturing standard
Valve body	Stainless steel EN 1.4408
Valve gate/ Surface treatments	Hard chromed duplex stainless steel EN 1.4462
Valve seat	Polyurethane
Valve packing	TwinPack
	WhitePack*

* Non-standard materials available as options

* Non-standard materials available as options

** Apllicable for tank only





MV

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

Size range	DN 50 - DN 1600 (2" - 64")
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*
Male a la asle i	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/	Duplex stainless steel EN 1.4462*
Surface treatments	254 SMO or equivalent*
	Hard chrome or extra polished surface*
	EPDM, FPM/FKM, NBR or Polyurethane
Valve seat	PTFE or PTFE FDA/EC 1935/2004
	Stainless steel
	TwinPack
	WhitePack*
Valve packing	FDA/EC 1935/2004 approved PTFE*
	Graphite*
* No	

RKO

This is a roboust valve for high density cleaners containing large amount of abrasive and difficult solids. A straight bevel gate edge cut through and provide a tight seal against the seat while 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
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
	Stainless steel EN 1.4408
Valve body	Nodular iron EN 5.3105
Valve gate/ Surface treatments	Hard chromed duplex stainless steel EN 1.4462
Valve seat	Polyurethane
	PTFE
Valve packing	TwinPack
	WhitePack*

* Non-standard materials available as options

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

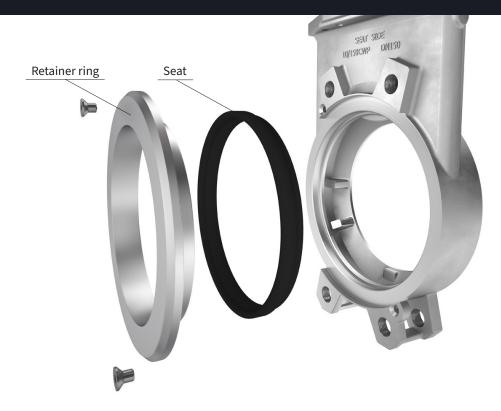




Quick and easy maintenance

Long-term is a well-known characteristic for Stafsjö and our products. We want the products to perform through decades. A quick and easy maintenance is essential to achieve this.

Stafsjö's retainer ring system offers flexibility in materials and an easy maintenance. It consists of a mechanically locked retainer ring and a seat kit. By simply removing the retainer ring you can easily switch out the seat to a new one and extend the service life repeatedly. Downtime is minimized as well as cost of ownership. The retainer ring system is available on our knife gate valves D2G, HG, HL, HP, HPT, HX, JTV, MV, RKO and XV.



RKS

Stafsjö's RKS is a uni-directional square or rectangular stainless steel knife gate valve, often used in applications with media such as bulk and sludge.

SLF

The wide body SLF is a push through slurry knife gate valve with superior flow characteristics, offering reliable and bi-directional shut-off performance in the most abrasive and demanding mineral processing applications.

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*

Size range	DN 80 - DN 600 (3" - 24")				
Shut-off technique	Bi-directional, push through				
Connection type	Flanged up to DN 400 (16") Fully lugged DN 450 - DN 600 (18" - 24")				
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				
valve seal	Natural rubber				
Valve packing	TwinPack including UHMW-PE scrapers				





SLH

This heavy duty push through slurry knife gate valve is designed to operate and provide bi-directional tight seal up to 20 bar in demanding mineral processing applications, typically slurry tailing systems. SLV

This is a compact push through slurry 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 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/ Surface treatments	Hard anti-stick coated duplex stainless steel EN 1.4470
Value cost	EPDM
Valve seat	Natural rubber
Valve packing	TwinPack including UHMW-PE scrapers

Size range	DN 50 - DN 900 (2" - 36")
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	Duplex stainless steel EN 1.4462
Valve seat	EPDM
valve seat	Natural rubber
Valve packing	TwinPack including UHMW-PE scrapers





SLX

This heavy duty push through slurry knife gate valve is 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/ Surface treatments	Hard anti-stick coated stainless steel 17-4ph					
Valve seat	EPDM					
valve seal	Natural rubber					
Valve packing	TwinPack including UHMW-PE scrapers					

ΤV

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					
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					
	Stainless steel EN 1.4404					
Valve gate	Duplex stainless steel EN 1.4462*					
	EPDM					
	FPM/FKM					
Valve seat	NBR					
	PTFE					
	PTFE FDA/EC 1935/2004					
	TwinPack					
Valvo packing	WhitePack*					
Valve packing	EDA/EC 1025/2004 and DEFE					
	FDA/EC 1935/2004 approved PTFE*					





WB

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

WB11

The WB11 knife gate valve offers superior flow characteristics and bi-directional zero leakage shut-off. It is suitable for fluids such as water, sludge and bio mass. Integrated flange gaskets simplify installation works.

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					
	Duplex stainless steel EN 1.4462*					
Valve gate	Stainless steel EN 1.4301					
	Stainless steel EN 1.4404*					
Valve seat	EPDM					
valve seat	NBR					
Valve packing	TwinPack					
* Non-standard materials available as options						

Size range	DN 50 - DN 300 (2" - 12")					
Shut-off technique	3i-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 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					

6	
State	



WB14

The fully lugged WB14 knife gate valve offers superior flow characteristics and bi-directional zero leakage shut-off. It is suitable for fluids such as water, sludge and bio mass. Integrated flange gaskets simplify installation works.

WB14E

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

Size range	DN 50 - DN 600 (2" - 24")			
Shut-off technique	Bi-directional			
Connection type	Fully lugged			
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			

Size range	DN 50 - DN 750 (2" - 30")					
Shut-off technique	Bi-directional					
Connection type	Fully lugged					
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*					
	EPDM					
Valve seat	FEPM					
	NBR					
Valve packing	TwinPack with PTFE scraper					
* Non-standard material	s available as options					



XV

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 or fully 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	Stainless steel EN 1.4408					
Valve gate	Stainless steel EN 1.4404					
	Duplex stainless steel EN 1.4462*					
Valve seat	PTFE					
valve seat	PTFE FDA/EC 1935/2004*					
	TwinPack					
Valve packing	WhitePack*					
	FDA/EC 1935/2004 approved PTFE*					
	Wafer/Semi lugged					
Connection type	Fully lugged					
	Fully lugged for dead-end service*					

* Non-standard configuration or materials available as options



Pressure class (bar)

Below table provide "Max working pressure" / "Max differential pressure". All products pressure class is specified 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	ΗХ	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	4 / 4	10/10		20 / 20			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							4/4	
1200		4/4							4 / 2 or 4	
1400									4 / 2 or 4	
1600									4 / 2 or 4	

1) The JTV features a square bore 250 x 250 mm. 2) MV DN 800 is also available in a 10 / 10 bar version. Offer on request.

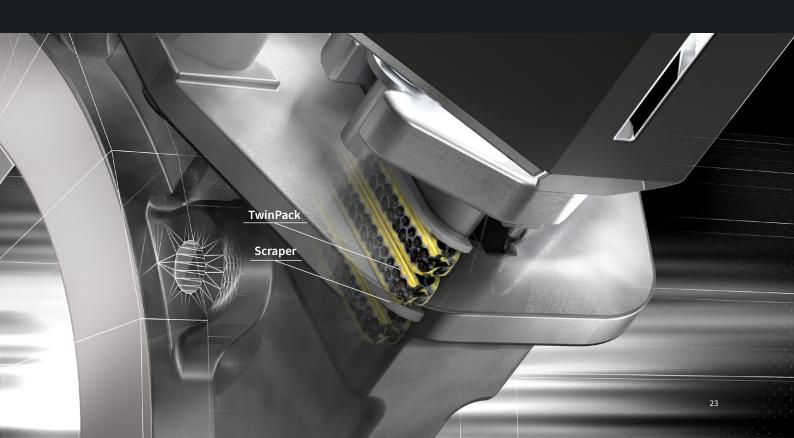
DN	SLV	SLF	SLH	SLX	TV	WB	WB11	WB14	WB14E	XV
50	10/10						10/10	10 / 10	10/10	
65	10/10						10/10	10/10		16/10
80	10/10	10/10	20 / 20	50 / 50	16/3,5		10/10	10/10	10/10	16 / 10 ³⁾
100	10/10	10/10	20 / 20	50 / 50			10/10	10/10	10/10	16 / 10 ³⁾
125	10/10	10/10	20 / 20	50 / 50			10/10	10/10		16 / 10 ³⁾
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 / 10 ³⁾
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				4/4		10 / 4 or 10	10 / 4 or 10	10/6
600	10/6	10/6				4/4		10 / 4 or 10	10 / 4 or 10	10/6
700	5/5					4/2				6/4
750	5/5					4/2			6/4	6 / 4
800	5/5					4/2				6 / 4
900	5/5					4/2				6/4
1000						4/1				4 / 4
1200						4/1				
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. Find your contact on stafsjo.com/contact/.



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 contact Stafsjö at sales@stafsjo.se for advice.

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 \leq DN 300, WB14-L \leq DN 300, MV-L \leq DN 300
Nodular iron EN 5.3105	-10 °C - +350 °C / 14 °F - +662 °F	HG-L, MV-L ≥ DN 350, SLF, SLH, SLV, SLX, WB ≥ DN 350, WB14 ≥ 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	HPT
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 ≥ 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 \leq DN 350, MV-E, TV, WB14E, XV
Stainless steel 17-4 PH	-18 °C - +300 °C / -0 °F - +572 °F	
Hard anti-stick coated stainless steel 17-4 PH	-18 °C - +250 °C / -0 °F - +482 °F	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
	Service temperatures -125 °C - +200 °C / -193 °F - +392 °F	Standard field of use
Valve body guiding pad materials	- -	Standard field of use MV DN 400 - 800, XV ≥ DN 500
Valve body guiding pad materials Brass	-125 °C - +200 °C / -193 °F - +392 °F	MV DN 400 - 800, XV ≥ DN 500
Valve body guiding pad materials Brass PEHD	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F	MV DN 400 - 800, XV ≥ DN 500
Valve body guiding pad materials Brass PEHD POM-C	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F	MV DN 400 - 800, XV ≥ DN 500 D2G, JTV, MV DN ≥ 1200, RKO, WB ≥ DN 700, WB14E, XV ≥ DN 700
Valve body guiding pad materials Brass PEHD POM-C	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F	MV DN 400 - 800, XV ≥ DN 500 D2G, JTV, MV DN ≥ 1200, RKO, WB ≥ DN 700, WB14E, XV ≥ DN 700
Valve body guiding pad materials Brass PEHD POM-C PTFE	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F	MV DN 400 - 800, XV ≥ DN 500 D2G, JTV, MV DN ≥ 1200, RKO, WB ≥ DN 700, WB14E, XV ≥ DN 700 HG ≥ DN 250, HL, HP, HX, HPT, MV DN 900 - DN 1600
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures	MV DN 400 - 800, XV ≥ DN 500 D2G, JTV, MV DN ≥ 1200, RKO, WB ≥ DN 700, WB14E, XV ≥ DN 700 HG ≥ DN 250, HL, HP, HX, HPT, MV DN 900 - DN 1600 Standard field of use
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F -10 °C - + 180 °C / 14 °F - +356 °F	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM FPM/FKM	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F -10 °C - + 180 °C / 14 °F - +356 °F -15 °C - +180 °C / 5 °F - +356 °F	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM FPM/FKM Graphite tape	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F -10 °C - + 180 °C / 14 °F - +356 °F -15 °C - +180 °C / 5 °F - +356 °F -50 °C - +550 °C / -58 °F - +1022 °F	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM FPM/FKM Graphite tape NBR PTFE	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F -10 °C - + 180 °C / 14 °F - +356 °F -15 °C - +180 °C / 5 °F - +356 °F -50 °C - +550 °C / -58 °F - +1022 °F -25 °C - +100 °C / -13 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F	$\begin{array}{l} MV DN 400 - 800, XV \geq DN 500 \\ \\ D2G, JTV, MV DN \geq 1200, RKO, WB \geq DN 700, WB14E, XV \geq DN 700 \\ \\ HG \geq DN 250, HL, HP, HX, HPT, MV DN 900 - DN 1600 \\ \\ \hline \\ \mathbf{Standard field of use} \\ \\ WB \geq DN 700, WB14E \geq DN 350 \\ \\ WB14E \geq DN 300, HP, HX \geq DN 350, JTV, MHE DN 800, \\ \\ MV DN 900 - DN 1600, RKO \geq DN 300, SLV DN 700 - DN 900, \\ \\ SLF \geq DN 450, SLH \geq DN 350, SLX \geq DN 350, XV \geq DN 700 \\ \\ \\ HG DN 50 - DN 150, RKO DN 100 - DN 250 \\ \\ \hline \\ WB \geq DN 700, WB14E \geq DN 350 \\ \\ \\ HG DN 200 - DN 250, HPT, HX DN 150 - DN 300, SLH \leq DN 300, \\ \\ \\ \\ SLX \leq DN 300 \\ \\ \end{array}$
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM FPM/FKM Graphite tape NBR PTFE Seat materials	-125°C - +200°C / -193°F - +392°F -150°C - +80°C / -238°F - +176°F -40°C - +100°C / -40°F - +212°F -80°C - +260°C / -112°F - +500°F Service temperatures -25°C - +120°C / -13°F - +248°F -10°C - + 180°C / 14°F - +356°F -15°C - +180°C / 5°F - +356°F -25°C - +100°C / -13°F - +212°F -80°C - +260°C / -112°F - +500°F Service temperatures	MV DN 400 - 800, XV \geq DN 500 D2G, JTV, MV DN \geq 1200, RKO, WB \geq DN 700, WB14E, XV \geq DN 700 HG \geq DN 250, HL, HP, HX, HPT, MV DN 900 - DN 1600 Standard field of use WB \geq DN 700, WB14E \geq DN 350 WB14E \geq DN 350 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 HG DN 50-DN 150, RKO DN 100-DN 250 WB \geq DN 700, WB14E \geq DN 350 HG DN 200-DN 250, HPT, HX DN 150-DN 300, SLH \leq DN 300, SLX \leq DN 300
Valve body guiding pad materials Brass PEHD POM-C PTFE Valve body gasket materials EPDM FEPM FPM/FKM Graphite tape NBR PTFE	-125 °C - +200 °C / -193 °F - +392 °F -150 °C - +80 °C / -238 °F - +176 °F -40 °C - +100 °C / -40 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F Service temperatures -25 °C - +120 °C / -13 °F - +248 °F -10 °C - + 180 °C / 14 °F - +356 °F -15 °C - +180 °C / 5 °F - +356 °F -50 °C - +550 °C / -58 °F - +1022 °F -25 °C - +100 °C / -13 °F - +212 °F -80 °C - +260 °C / -112 °F - +500 °F	$\begin{array}{l} MV \ DN \ 400 - 800, \ XV \geq DN \ 500 \\ \\ D2G, \ JTV, \ MV \ DN \geq 1200, \ RKO, \ WB \geq DN \ 700, \ WB14E, \ XV \geq DN \ 700 \\ \\ HG \geq DN \ 250, \ HL, \ HP, \ HX, \ HPT, \ MV \ DN \ 900 - DN \ 1600 \\ \\ \\ \hline \\ \begin{array}{l} \mathbf{Standard field of use} \\ \\ WB \geq DN \ 700, \ WB14E \geq DN \ 350 \\ \\ WB14E \geq DN \ 350 \\ \\ \\ WB14E \geq DN \ 350 \\ \\ \\ HL, \ HG \geq DN \ 300, \ HP, \ HX \geq DN \ 350, \ JTV, \ MHE \ DN \ 800, \\ \\ MV \ DN \ 900 - DN \ 1600, \ RKO \geq DN \ 300, \ SLV \ DN \ 700 - DN \ 900, \\ \\ \\ SLF \geq DN \ 450, \ SLH \geq DN \ 350, \ SLX \geq DN \ 350, \ XV \geq DN \ 700 \\ \\ \\ \\ HG \ DN \ 50 - DN \ 150, \ RKO \ DN \ 100 - DN \ 250 \\ \\ \\ \\ \\ HG \ DN \ 200 - DN \ 250, \ HPT, \ HX \ DN \ 150 - DN \ 300, \ SLH \leq DN \ 300, \\ \\ \\ \\ \\ SLX \leq DN \ 300 \\ \end{array}$

Seat materials	Service temperatures	Standard field of use
FEPM	-10 °C - + 180 °C / 14 °F - +356 °F	WB11/WB14 DN 50, DN 80-DN 300, WB14E DN 50-DN 600
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	

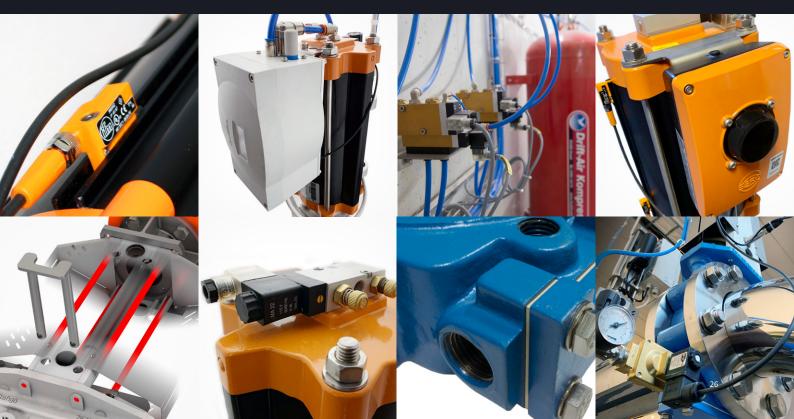
Box packing scraper materials	Service temperatures	Standard field of use
Brass	-125 °C - +200 °C / -193 °F - +392 °F	
PEHD	-30 °C - +80 °C / -22 °F - +176 °F	MV DN 500-DN 800
PTFE	-80 °C - +280 °C / -112 °F - +536 °F	HX, WB14E
UHMW-PE	-200 °C - +85 °C / -328 °F - +185 °F	SLV, SLF, SLH, SLX, XV ≤ DN 600, 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	All products
Auma GK bevel gears	-25 °C - + 80 °C / -13 °F - +176 °F	All products
Ceson double-acting hydraulic cylinder	-20 °C - +80 °C / -4 °F - +176 °F	All products
CFP double-acting pneumatic cylinders	-20 °C - +70 °C / -4 °F - +158 °F	D2G & RKS
CFP single-acting pneumatic cylinders	-20 °C - +70 °C / -4 °F - +158 °F	
Linak LA36 actuator unit	-30°C - +65°C / -22 °F - +149 °F	MV/WB11/WB14/WB14E ≤ DN 300
Linak control unit	+5°C - +40°C / -41 °F - +104 °F	MV/WB11/WB14/WB14E ≤ DN 300
RDC double-acting pneumatic cylinders	-34 °C to 120 °C / -30 °F to 250 °F	
RDC single-acting pneumatic cylinders	-34 °C to 120 °C / -30 °F to 250 °F	
SC double-acting pneumatic cylinders	-30 °C - +100 °C / -22 °F - +212 °F	All products except D2G & RKS

Automation equipment customized for your process

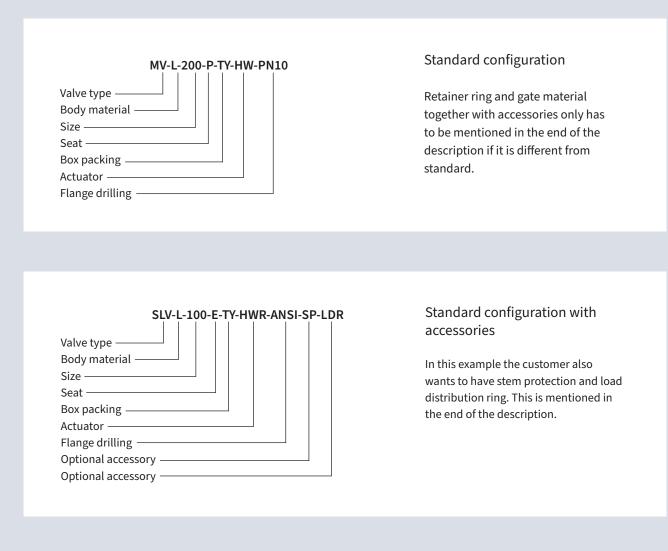
For decades we have provided knife gate solutions to process industries all around the world. We are used to adapt our valves and accessories to local demands and requirements. For us it is important, independent where the site is in the world, that the products we supply meet or exceed our customers' expectations. This includes automation equipment and accessories.

Contact our value experts. We are ready to support your business operations. stafsjo.com/contact/ \rightarrow



Describe your knife gate valve

Following descriptions can be used to briefly define material, actuator and accessories of desired Stafsjö knife gate valve. Please contact Stafsjö at sales@stafsjo.se for advise.



RKO-E-200-U-TY-SC200-PN	10/PN10-SV-ILS
Valve type Body material	
Size	
Seat	
Box packing	
Actuator	
Flange drilling ————	
Optional accessory*	
Optional accessory*	

Standard configuration with optional flange pattern

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

* SV: Solenoid valve Stafsjö standard 220/230 V AC

* ILS: Inductive limit switches Stafsjö standard 20-250V AC/DC

Knife gate valve options
D2G
HL
HG
НР
НРТ
HX
VTL
JT
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
WB14
WB14E

Valve body material 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	
Т	Titanium ASTM B265 Grade 2	

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

Seat material options				
E	EPDM			
F	FEPM			
V	FPM/FKM/Viton			
NR	Natural rubber			
Ν	NBR			
М	Metal with o-ring NBR (Brass on the RKS valve)			
MV	Metal with o-ring FPM/FKM			
MHT	Metal with grafoil tape			
Р	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 type for available material options.

Gland box packing options

TG	Graphite
TF	PTFE
TF	PTFE
TFFDA	FDA/EC 1935/2004 approved PTFE
TY	TwinPack
TYS	TwinPack with a UHMW-PE scraper
TYPS	TwinPack with PTFE scraper
TYB	TwinPack with brass scraper
WP	WhitePack

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

Actuator optio	ns
BS	Bare shaft, actuator excluded
CW	Chain wheel
CFPXXX	CFP (or RDC) double-acting pneumatic cylinder in size XXX
CFPMOXXX	CFP (or RDC) double-acting pneumatic cylinder in size XXX with manual override
CFPCXXX	CFP (or RDC) double-acting pneumatic cylinder in size XXX including pneumatic cushioning
CFPSXXXO	CFP (or RDC) single-acting pneumatic cylinder in size XXX with spring return to open the valve
CFPSXXXC	CFP (or RDC) single-acting pneumatic cylinder in size XXX with spring return to close the valve
CFPSMOXXXO	CFP (or RDC) single-acting pneumatic cylinder in size XXX with spring return to open the valve and manual override
CFPSXXXMOC	CFP (or RDC) 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
EM	Electrical motor for open-close duty with rising stem. Brand, size, voltage and any 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 according ISO 5210 FXX connection A (rising stem)
PrepEMB3	The valve is preparred for assembly of electric motors according ISO 5210 FXX connection B3 (non-rising stem)
PrepBG	The valve is preparred for assembly of bevel gear according ISO 5210 FXX connection A (rising stem).
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
SCXXXM	SC double-acting pneumatic cylinder with magnetic piston in size XXX (250, 320)

Flange drilling options

ANSI	ANSI/ASME B16.5 Class 150 and/or B 16.47 Class 150, series A
ANSI300	ANSI/ASME B16.5 Class 300
ASD	AS 2129 Table D
ASE	AS 2129 Table E
BS	BS 10 table D
JIS	JIS B 2238 10K
PN10	EN 1092 PN10
PN16	EN 1092 PN16
PN25	EN 1092 PN25
PN50	EN 1092 PN50
SS	Stafsjö Standard

See product data sheet for each knife gate valve type for available flange drilling options.

Flange drill pattern on the outlet/discharge side of RKO must also be specified if not standard square pattern.

Flange drill partern 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.

Retainer ring 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	
Т	Titanium ASTM B265 Grade 2	

See product data sheet for each knife gate valve type 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	
Т	Titanium ASTM B265 Grade 2	
174ph	Hardened 43 HRC 17-4 PH/ASME SA-693 Type630	
1.4301	Stainless steel EN 1.4301/AISI 304	
1.4404	Stainless steel EN 1.4404/AISI 316L	

See product data sheet for each knife gate valve type 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
Stanuaru	accessorie	options

ATEX	Valves supplied according directive 2014/34/EU Group II. Category and zone also have to be specified.	
BC	Bottom cover	
CoC	Country of Origin Certificate legalized by Chamber of Commerce	
CUTR	Technical passsport according CUTR 010/32	
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 including including assembly bracket and a NPT adapter for the air inlet port. 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.	
LD	Lockouts with locking device/pin	
LDR	Load distribution rings assembled on the valve	
MagLS	Magnetic limit switches Stafsjö standard.	
MLS	Mechanical limit switch Stafsjö standard.	
MSSSP81	Face-to-face dimensions according MSS-SP81.	
POS	Positioner Stafsjö standard. Other brand and types must be specified.	
PPS	Purge ports extra, standard positions.	
PPC	Purge ports, customized postions. Position and quantity must be specified.	
PPCSSPW	Purge ports customized postions including stainless steel pipe works. Position and quantity must be specified.	

Hand wheel operated valves is preparred with indicator pin and beams with holes. Brackets for switches excluded.
Ebro SBU switch box
Ebro SBU IO-Link switch box
Stem extension long. Extra supports must be specified.
Stem extension short. Extra supports must be specified.
Stainless steel pipe works (air tubes)
Stem and piston rod protection/Bellow.
Stainless steel pillars
Stainless steel top works including lockout
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.
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 plate
MV reverse flow supports
Stem extension with a T-key
V-port in stainless steel
2.2 test report according to EN 10204
3.1 inspection certificate according to EN 10204



Stafsjö Valves AB SE-618 95 Stavsjö, Sweden