



Knife Gate Valve Selection Guide

From Simple
to Complex Designs



SABER SERIES

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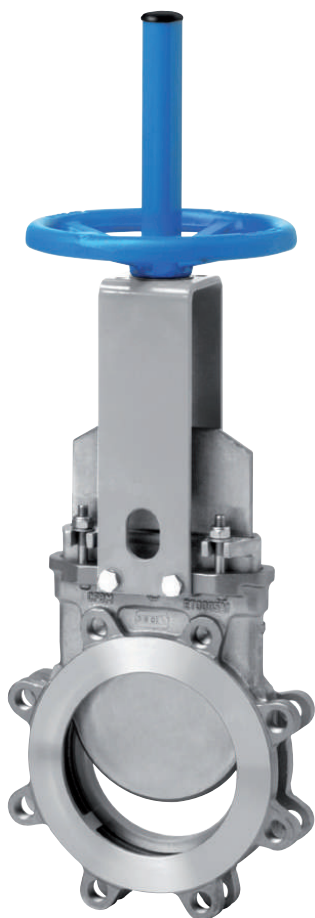




KNIFE GATE VALVES

S20-UT

Knife gate valve
acc. to MSS SP-81



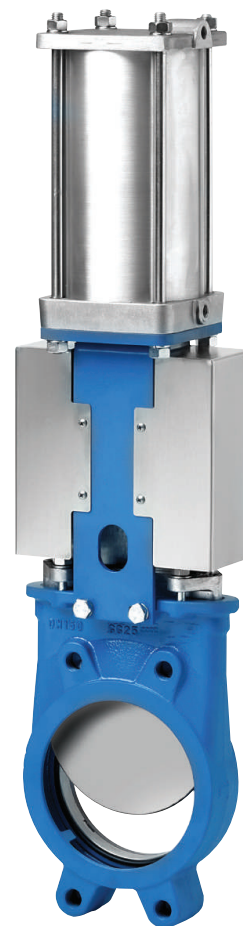
S22-BD

Bi-directional knife gate
valve acc. to MSS SP-81



S10-X

Wafer knife gate valve



	S20-UT	S22-BD	S10-X
APPLICATION	General service (solid, loaded fluids) Pulp & paper, waste water, solids...	General service (solid, loaded fluids) Pulp & paper, waste water, solids...	General service (solid, loaded fluids) Pulp & paper, waste water, solids...
SIZES	2" to 36" (DN 50 to DN 900)	2" to 24" (DN 50 to DN 600)	2" to 48" (DN 50 to DN 1200)
WORKING PRESSURE	2" - 24" (150 psi) DN 50 - DN 600 (10 bar) 30" (100 psi) DN 750 (7 bar) 36" (100 psi) DN 900 (7 bar)	2" - 24" (150 PSI) DN 50 - 500 (10 bar)	2" - 10" (150 psi)/DN 50 - 250 (10 bar) 12" - 16" (90 psi)/DN 300 - 400 (6 bar) 18" (75 psi)/DN 450 (5 bar) 20" - 24" (60 psi)/DN 500 - 600 (4 bar) 28" - 48" (30 psi)/DN 700 - 1200 (2 bar)
FLANGE DRILLING	ANSI 150 PN10	ANSI 150 PN10	ANSI 150 PN10

Note: larger diameters, higher pressures and/or other flange drilling on request.

KNIFE GATE VALVES

SERIES S11

Bi-directional knife gate valve



SERIES S30

Through conduit
knife gate valve



SERIES S70

Round & Square port
knife gate valve



	S11	S30	S70
APPLICATION	General service (solid, loaded fluids) waste water, sludges...	Solid loaded fluids (concentration > 5%) pulp, rejects, solids...	Contaminated, pulp and difficult conditions (junk traps, cleaners...)
SIZES	2" to 48" (DN 50 to DN 1200)	2" to 40" (DN 50 to DN 1000)	4" to 24" (DN 100 to DN 600)
WORKING PRESSURE	2" - 10" (150 psi)/DN 50 - 250 (10 bar) 12" - 16" (90 psi)/DN 300 - 400 (6 bar) 18" (75 psi)/DN 450 (5 bar) 20" - 24" (60 psi)/DN 500 - 600 (4 bar) 28" - 48" (30 psi)/DN 700 - 1200 (2 bar)	2" - 25" (150 psi)/DN 50 - 125 (10 bar) 60" - 10" (115 psi)/DN 150 - 250 (8 bar) 12" - 16" (90 psi)/DN 300 - 400 (6 bar) 18" (75 psi)/DN 450 (5 bar) 20" - 24" (60 psi)/DN 500 - 600 (4 bar) 28" - 40" (30 psi)/DN 700 - 1000 (2 bar)	4" - 16" (100 psi)/DN 100 - 400 (7 bar) 20" - 24" (60 psi)/DN 500 - 600 (4 bar)
FLANGE DRILLING	ANSI 150 PN10	ANSI 150 PN10	ANSI 150 PN10

Note: larger diameters, higher pressures and/or other flange drilling on request.

KNIFE GATE VALVES

SERIES S61

Rubber sleeve knife
gate valve



SERIES S65

Rubber sleeve knife
gate valve



SERIES S68

Rubber sleeve knife
gate valve. High pressure



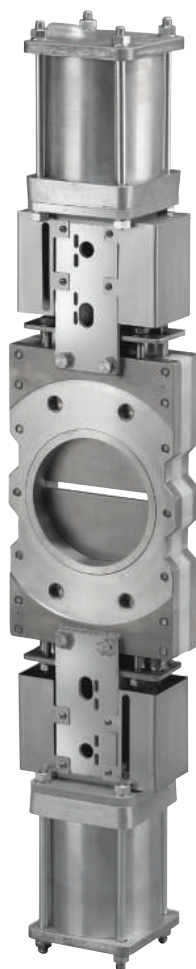
	S 61	S 65	S68
APPLICATION	Abrasive slurries (mining, petrochemical...)		Abrasive slurries (mining, petrochemical...)
SIZES	2" to 36" (DN 50 to DN 900)		4" to 36" (DN 50 to DN 900)
WORKING PRESSURE	2" - 16" (150 psi)/DN 50 - 400 (10 bar) 18" - 24" (90 psi or 150)/DN 450 - 600 (6 bar or 10 bar) 28" - 36" (75 psi or 150 psi)/DN 700 - 900 (5 bar or 10 bar)		2" - 36" (300 psi)/DN 50 - 900 (20 bar)
FLANGE DRILLING	ANSI 150 PN10		ANSI 150/300 PN16/25

KNIFE GATE VALVES

SERIES S14

SERIES S90

Double gate
knife gate valve



Hopper shape
knife gate valve



	S 80	S14	S90
APPLICATION	Contaminated pupl or very high concentration (pupl, rejects...)	Bulk handling (powder, pellets...) silo outlet applications	General service (solid loaded fluids) bulk handling
SIZES	4" to 24" (DN 100 to DN 600)	2" to 40" (DN 50 to DN 600)	6" x 6" to 24" x 24" (150 x 150 to 600 x 600)
WORKING PRESSURE	4" - 10" (150 psi)/DN 100 - 250 (10 bar) 12" - 16" (90 psi)/DN 300 - 400 (6 bar) 18" (75 psi)/DN 450 (5 bar) 20" - 24" (60 psi)/DN 500 - 600 (4 bar)	Opposite seat pressure 2" - 10" (45 psi)/DN 50 - 230 (3 bar) 12" - 16" (30 psi)/DN 300 - 400 (2 bar) 18" (23 psi)/DN 450 (1, 5 bar) 20" - 24" (15 psi)/DN 500 - 600 (1 bar)	6" x 6" (150 x 150) - 24" x 24" (600 x 600) (15 psi) (1 bar)
FLANGE DRILLING	ANSI 150 PN10	ANSI 150 PN10	ORBINOX Standard

Note: larger diameters, higher pressures and/or other flange drilling on request.

DESIGN & MATERIALS

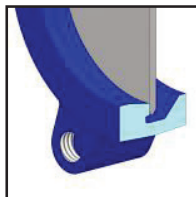
S10/S20/S30

BODY
Cast Iron EN-GJL250
Stainless Steel CF8M

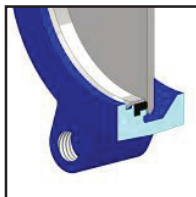
A/B/C RINGS
CF8M Stainless
CA 15
NiHard

GATE
Stainless Steel AISI 304
Stainless Steel AISI 316

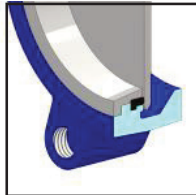
Other materials
on request



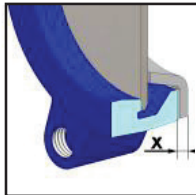
Metal to metal



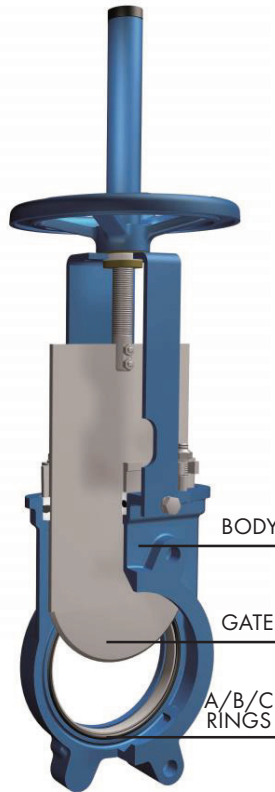
Resilient A Type
(standard)



Resilient B Type
(reinforced)



Direction cone
C Type



BODY

GATE

A/B/C
RINGS

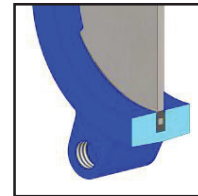
SERIES S11

BODY
Cast Iron EN-GJL250
Stainless Steel CF8M

GATE
Stainless Steel AISI 304
Stainless Steel AISI 316

Other materials
on request

SEAT

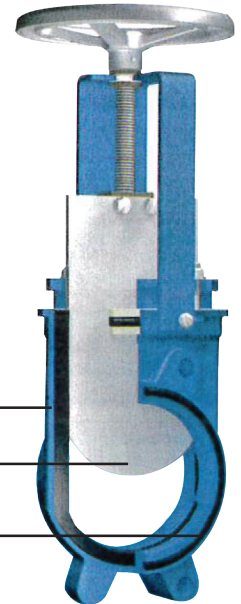


Resilient seat

BODY

GATE

O-RINGS



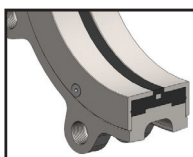
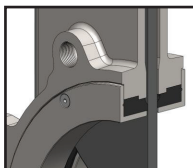
SERIES S22

BODY
Stainless Steel CF8M

Other materials
on request

GATE
Stainless Steel AISI 316

SEAT



Resilient seat

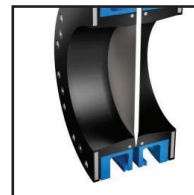


S61/S65/S68

BODY
Ductile iron (60-40-18)
EN-GJS400-18

GATE
Stainless Steel AISI 304
Stainless Steel 17-4 PH
Duplex

SEAT



Rubber sleeves

BODY

GATE

