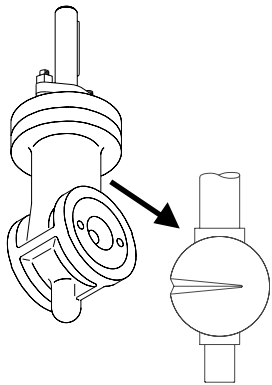




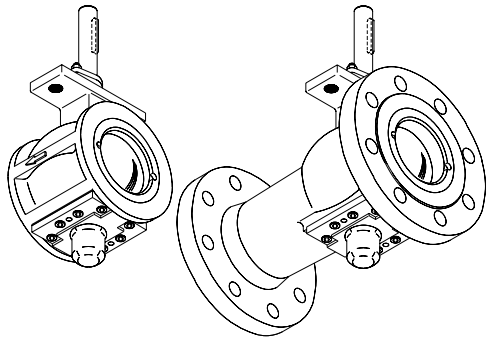
SOMAS - Valve Guide

Edition: 1999-09

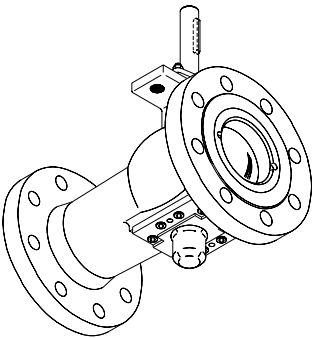
Ball Segment Valves



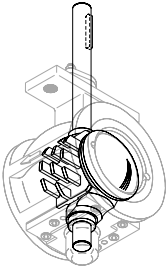
KVT/KVX



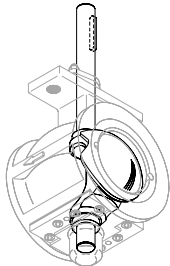
KVT/KVX
KVTW/KVXW



KVTF/KVXF



KVTW LN
KVXW LN



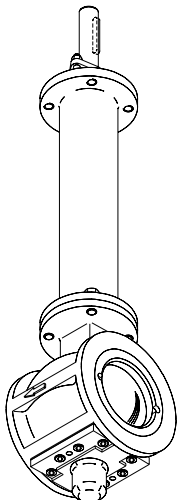
KVM
KVMW

	"Mini Flow"	Wafer	Flanged	Low Noise	High Consistency
SIZE	DN 25/2 - 65 (PN 50) DN 25/5 - 50 (PN 100)	DN 80 - 250 (PN 20-50) DN 80 - 250 (PN 50) DN 80 - 150 (PN 100)	DN 25/2 - 50, 350 (PN 50) DN 80 - 400 (PN 25) DN 350 - 700	DN 50 - 400	DN 40 - 300
Features	12 alternative seat diameters for optimum sizing	High capacity and large control range Good tightness Torque transmission free of backlash	As per the wafer design	Will prevent flashing and cavitation Noise reduction	For high consistency applications
Pressure Classes	PN 10 - 100 ANSI 150 - 600	PN 10 - 100 ANSI 150 - 600	PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300
Material (Body)	SS 2343 (CF8M) Titanium Hastelloy C®	SS 2343 (CF8M) Titanium (DN 80 - 150) Hastelloy C® (DN 80 - 150)	SS 2343 (CF8M)	SS 2343 (CF8M)	SS 2343 (CF8M)
Material (Seat)	PTFE (DN 25/10 - 65) PTFE 53 (DN 25/10 - 65) Stellite (DN 25/2 - 65)	PTFE PTFE 53 Stellite	PTFE PTFE 53 Stellite	PTFE PTFE 53 Stellite	PTFE PTFE 53 Stellite
Kv ⁽¹⁾	0.18 - 191	340 - 2 410	0.18 - 28 740	75 - 4 285	96 - 3 770
Tightness	Class V Class VI	Class IV Class V Class VI	Class IV Class V Class VI	Class IV Class V Class VI	Class IV Class V Class VI
Data Sheet	Si-101 Si-105	Si-102 Si-104 Si-105	Si-110	Si-101 Si-103 Si-107	Si-106 Si-110

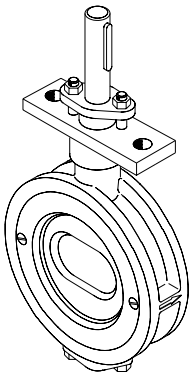
⁽¹⁾ Cv = 1.16Kv

Actuator Double-acting	S-Type The actuator type S is double-acting and designed to meet the highest performances and therefore special attention has been made to achieve low friction and to avoid backlash. Integrated box for limit switches. The torque range covers ball segment valves DN 25/2 - 600 mm and butterfly valves DN 80 - 1000 mm.	C-Type The actuator type C has the same performance as the type S. When completed with limit switches a separate box is required. Torque range covers ball segment valves DN25/2 - 150 mm and butterfly valves DN80 - 200 mm.	Actuator Double-acting
Actuator Spring-return	SR-Type The single-acting type SR is in principle identical to the S-type but completed with a spring device for opening or closing function at air failure. The torque range covers ball segment valves DN25/2 - 250 mm and butterfly valves DN80 - 350 mm.	CR-Type Type CR offers a new concept of spring-return system. By replacing the traditional spiral spring system with one or more gas springs, the spring force will remain more or less constant over the stroke. Torque range same as for the C-type.	Actuator Spring-return
Positioner	The pneumatic positioner type SP400 is designed for a pneumatic input signal 20 - 100 kPa (3 - 15 psi) or split-range. As standard equipped with a linear cam and as an alternative with a cam that gives an equal percentage characteristic. It offers high flow capacity and easy adjustment of span and zero.	The electropneumatic positioner type SPE400 is built on the pneumatic version type SP400, which has been completed with an I/P-converter. This I/P-converter is located in a separate housing which is connected to the pneumatic part. Capacity and adjustment as per type SP400.	Positioner
"Smart" Positioner	SOMAS offers intelligent control solutions by using valves of own design in combination with "Smart" positioners from leading suppliers. We take responsibility for function, assembly and testing. Our flexibility offers the most "state-of-the-art" solutions for all demanding applications within all types of branches.	The valve can be equipped with different types of accessories such as solenoid valves, mechanical switches, proximity switches depending on the application.	Accessories

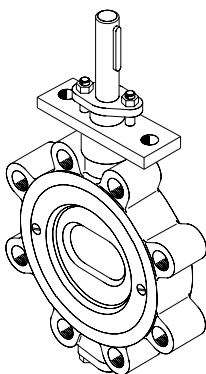
Butterfly Valves and Check Valves



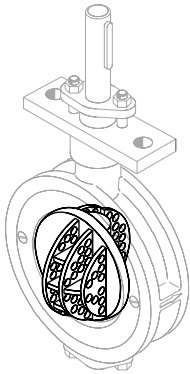
KVT LT / KVX LT
KVTW LT / KVXW



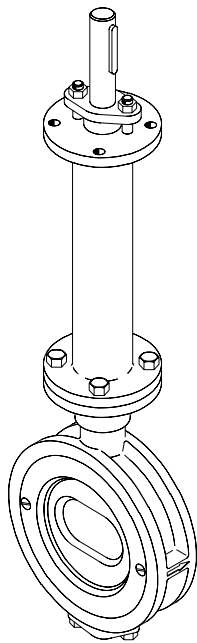
VSS
MTV



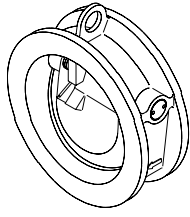
VSS LUGS
MTV LUGS



VSS LN
MTV LN



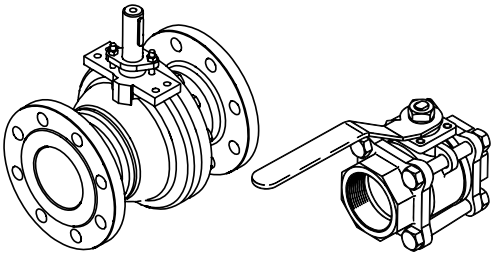
VSS LT



BCV

Cryogenic	Wafer	Lugs	Low Noise	Cryogenic	Wafer
DN 25/2 - 250	DN 80 - 1200 (VSS) DN 80 - 500 (MTV)	DN 80 - 700 (VSS) DN 80 - 500 (MTV)	DN 80 - 600	DN 80 - 500	DN 50 - 600
For temperatures down to -196°C	Wide range of applications up to 550°C Solid seat design - less sensitive to high flow velocity and impurities in the media	As per the wafer design Suitable for end-of-line applications	Will prevent flashing and cavitation Noise reduction	High capacity - low pressure drop	Short closing time Easy maintenance
PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300	PN 10 - 50 ANSI 150 - 300	PN 10 - 25 ANSI 150
SS 2343 (CF8M)	SS 2343 (CF8M)	SS 2343 (CF8M)	SS 2343 (CF8M)	SS 2343 (CF8M)	SS 2343 (CF8M)
PTFE	SS 2377 PTFE	SS 2377 PTFE	SS 2377 PTFE	SS 2377 PTFE	SS 2343 (CF8M)
0.18 - 2 410	235 - 67 000	235 - 20 780	120 - 7 650	235 - 10 485	—————
Class VI	Class V Class VI	Class V Class VI	Class V Class VI	Class V Class VI	Class V
	Si-203 Si-204 Si-205	Si-203 Si-204 Si-205	Si-211	Si-210	Si-710

Ball Valves



SKV

FBG/FBS
FBF

Flanged	3-piece	SIZE
DN 80 - 400	DN 8 - 100	
Spring loaded seats for tight shut-off at low differential pressure	With ISO-connection for actuator mounting With threaded ends (FBG), weld-ends (FBS) or with flanges (FBF)	Features
PN 25 ANSI 150	PN 50 ANSI 300	Pressure Classes
SS 2343 (CF8M)	SS 2343 (CF8M)	Material (Body)
PTFE 53 Stellite	PTFE re-inforced with 15% glass fibre	Material (Seat)
875 - 26 850	8 - 1 586	Kv ⁽¹⁾
Class IV Class V Class VI	Class VI	Tightness
Si-706	Si-704	Data Sheet

SOMSIZE – The SOMAS valve sizing program.
By using SOMSIZE you will easily find the right type of valve and the right size for your application. Somsize is a windows based program. Formulas for flow calculations are according to IEC 534 and noise calculations are according to VDMA 24422. Beside the valve sizing you can also have a valve specification complete with actuator and accessories along with main valve dimensions.
For further information contact Somas or our representatives.