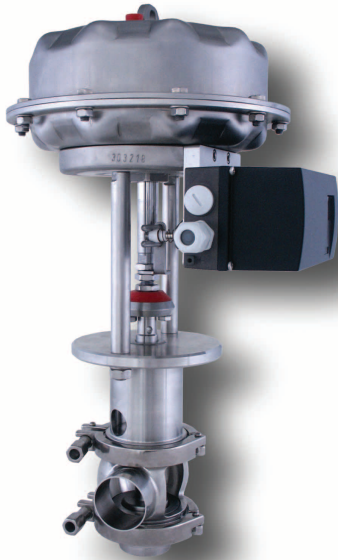


Südmo Control Valves

For all Common Applications





Südmo Control Valves For all Common Applications

Südmo has not only designed a manually operated regulating valve, but also a membrane operated regulating valve for extremely exact processes that have to be regulated quickly, such as in-line dosing of concentrates. We also offer Südmo regulating valves with SVP drive and a digital control head as an economical alternative to membrane actuator.

When developing these valves, we established a standard range of three KV values per nominal diameter and decided on the equal-percentage cone as the standard since this regulating head can cover a wide variety of regulating processes. And if required, we also offer a regulating valve with a linear head with or without sealing function.

Our valves work with all of the common media in the food, beverage, chemical and pharmaceutical industries.

The typical areas of application for regulating valve operation would be CO₂ dosage in the beverage industry, pressure regulation in liquid lines, split-range regulation in buffer tanks and level regulation in buffer tanks.

A general advantage of the new Südmo regulating valve designs is the fact that SVP units with a digital control head and control membrane with an electropneumatic positioner are interchangeable (even subsequently).

Technical Specification (standard)

Dimensions:	metric DN 25 – 100, OD-Tube 1" – 4", ISO DN 25 - 80	
Pressure:	PN 10	
Materials:	product wetted parts: 1.4404; optional: 1.4435 not product wetted parts: 1.4301	
Sealing materials:	EPDM-FDA, optional: HNBR-FDA, other sealing materials at request	
Housing variants::	refer to the order form / feature 1	

Surfaces:	inside	$Ra \leq 0,8 \mu m$
	outside	$Ra \leq 1,6 \mu m$

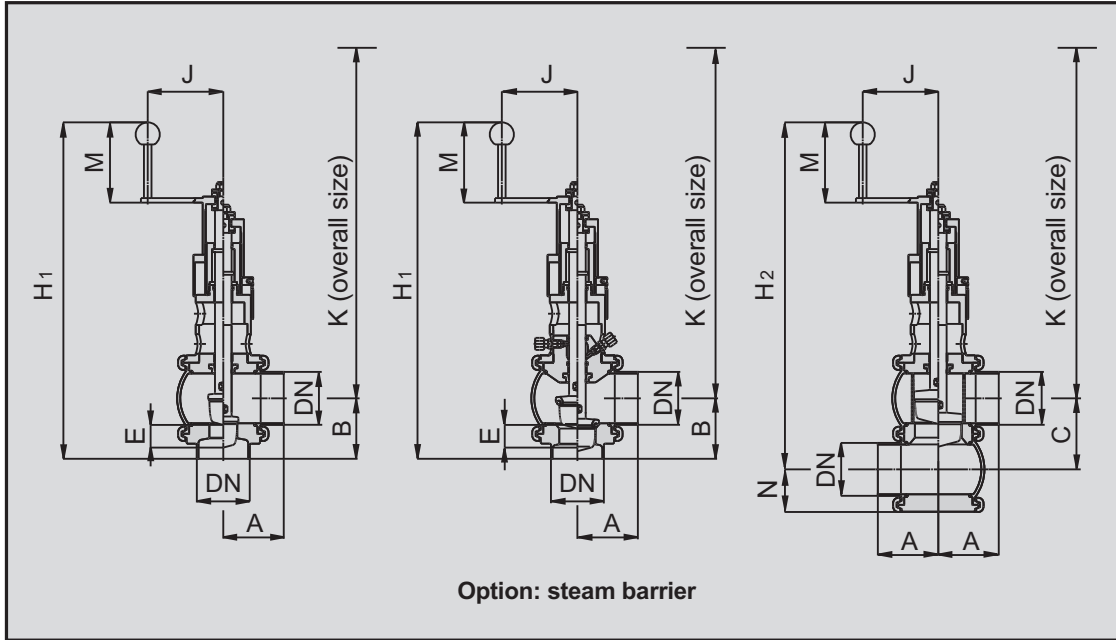
Connections:	welding end for pipes in conformity with DIN 11850, series 2, OD tube or DIN EN ISO 1127 (optional: all common clamp, screw-on and flange connections)
Types / Additional applications:	<ul style="list-style-type: none"> - available with linear or equal-percentage regulating head (also subsequently interchangeable) - interchangeable seat (with varying KV values by exchanging the cone and seat. Please provide removable connections for all connecting ports) - membrane drive and SVP standard operation with attached regulating head are interchangeable - membrane drive with electropneumatic position regulators (customer specification required) - 8630 regulating head available with multipol or PG screw-on connection (the PG screw-on connection is on hand allowing short-term delivery) - 8630 regulating head with PID function and optional stand-alone operation as process regulator without control mechanism (SPC) - metallic or O-ring sealing designs available - all of our regulating valve designs are also available with steam barriers

Temperatures:

permanent operating temperature: 150° C (EPDM-FDA)
sterilisation temperature: 150° C (EPDM-FDA) on short-term basis

As with all Südmo valves, the specification sheets for the materials used apply here.

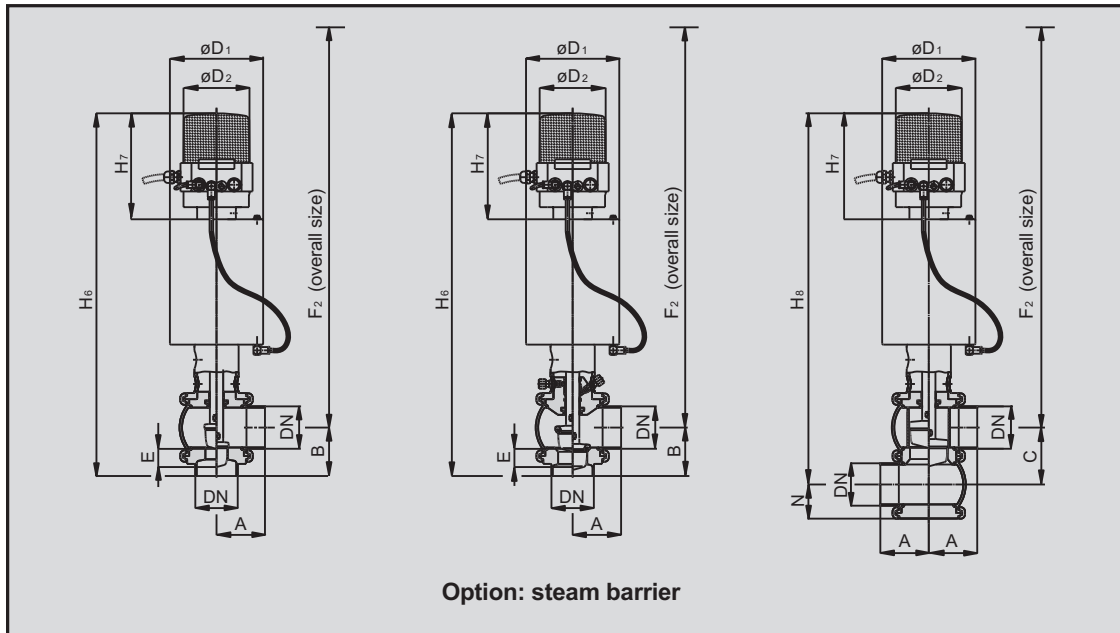
Control Valves S 275 manually operated



DN	Tube Ø	A	B	C	E	H ₁	H ₂	J	K	M	N
Metric											
25	29 x 1,5	60	60	58	20	377	375	70	385	100	39
40	41 x 1,5	60	60	66	20	381	387	70	395	100	43
50	53 x 1,5	70	70	78	20	397	405	70	410	100	49
65	70 x 2	80	80	94	30	445	459	100	460	100	57
80	85 x 2	90	90	109	30	463	482	100	480	100	64
100	104 x 2	125	100	128	30	482	510	100	500	100	74
OD-Tube											
1"	25,4 x 1,65	60	60	58	20	377	375	70	385	100	39
1 ½"	38,1 x 1,65	60	60	66	20	381	387	70	395	100	43
2"	50,8 x 1,65	70	70	78	20	397	405	70	410	100	49
2 ½"	63,5 x 1,65	80	80	94	30	445	459	100	460	100	57
3"	76,1 x 1,65	90	90	109	30	463	482	100	480	100	64
4"	101,6 x 2,11	125	100	128	30	482	510	100	500	100	74
ISO											
25	33,7 x 2	60	60	58	20	377	375	70	385	100	39
40	48,3 x 2	70	70	78	20	397	405	70	410	100	49
50	60,3 x 2	80	80	94	30	445	459	100	460	100	57
65	76,1 x 2	90	90	109	30	463	482	100	480	100	64
80	88,9 x 2,3	125	100	128	30	482	510	100	500	100	74

We reserve ourselves the right to make technical changes

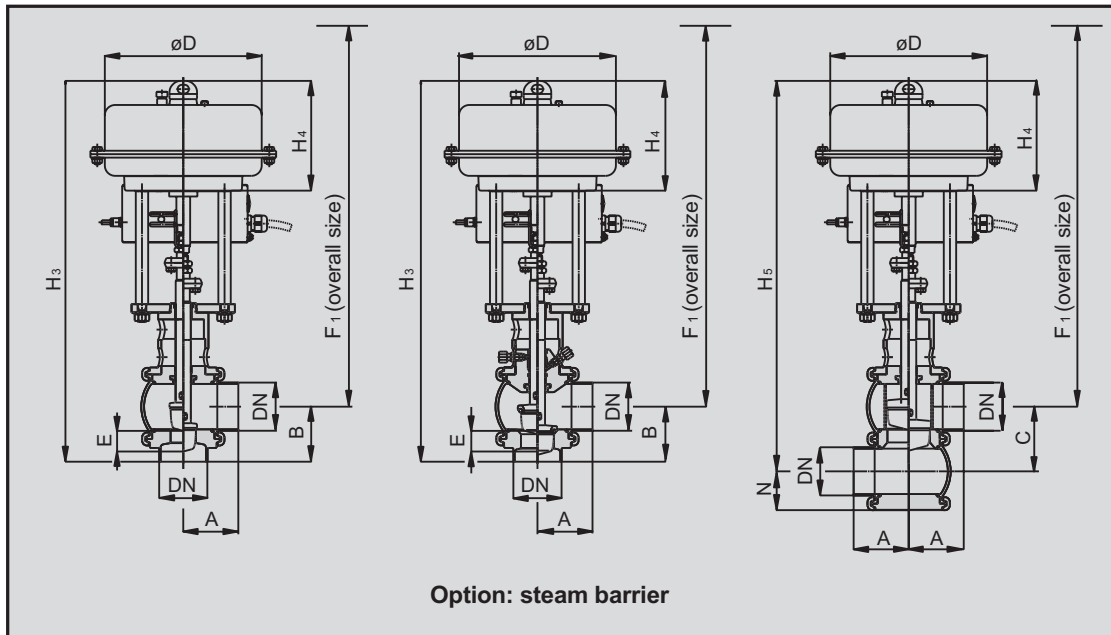
Control Valves S 375 pneumatically operated



DN	Tube \varnothing	A	B	C	$\varnothing D_1$	$\varnothing D_2$	E	F ₂	H ₆	H ₇	H ₈	N
Metric												
25	29 x 1,5	60	60	58	104	109	20	500	468	175	466	39
40	41 x 1,5	60	60	66	104	109	20	505	472	175	478	43
50	53 x 1,5	70	70	78	104	109	20	530	488	175	496	49
65	70 x 2	80	80	94	154	109	30	650	599	175	613	57
80	85 x 2	90	90	109	154	109	30	675	617	175	636	64
100	104 x 2	125	100	128	154	109	30	700	636	175	664	74
OD-Tube												
1"	25,4 x 1,65	60	60	58	104	109	20	500	468	175	466	39
1 1/2"	38,1 x 1,65	60	60	66	104	109	20	505	472	175	478	43
2"	50,8 x 1,65	70	70	78	104	109	20	530	488	175	496	49
2 1/2"	63,5 x 1,65	80	80	94	154	109	30	650	599	175	613	57
3"	76,1 x 1,65	90	90	109	154	109	30	675	617	175	636	64
4"	101,6 x 2,11	125	100	128	154	109	30	700	636	175	664	74
ISO												
25	33,7 x 2	60	60	58	104	109	20	500	468	175	466	39
40	48,3 x 2	70	70	78	104	109	20	530	488	175	496	49
50	60,3 x 2	80	80	94	154	109	30	650	599	175	613	57
65	76,1 x 2	90	90	109	154	109	30	675	617	175	636	64
80	88,9 x 2,3	125	100	128	154	109	30	700	636	175	664	74

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Control Valves S 376 Diaphragm-Actuator






DN	Tube ø	A	B	C	ø D	E	F 1	H 3	H 4	H 5	N
Metric											
25	29 x 1,5	60	60	58	270	20	520	490	311	488	39
40	41 x 1,5	60	60	66	270	20	530	494	311	500	43
50	53 x 1,5	70	70	78	270	20	550	510	311	518	49
65	70 x 2	80	80	94	270	30	600	553	337	567	57
80	85 x 2	90	90	109	270	30	630	571	337	590	64
100	104 x 2	125	100	128	270	30	655	591	337	619	74
OD-Tube											
1"	25,4 x 1,65	60	60	58	270	20	520	490	311	488	39
1 ½"	38,1 x 1,65	60	60	66	270	20	530	494	311	500	43
2"	50,8 x 1,65	70	70	78	270	20	550	510	311	518	49
2 ½"	63,5 x 1,65	80	80	94	270	30	600	553	337	567	57
3"	76,1 x 1,65	90	90	109	270	30	630	571	337	590	64
4"	101,6 x 2,11	125	100	128	270	30	655	591	337	619	74
ISO											
25	33,7 x 2	60	60	58	270	20	520	490	311	488	39
40	48,3 x 2	70	70	78	270	20	550	510	311	518	49
50	60,3 x 2	80	80	94	270	30	600	553	337	567	57
65	76,1 x 2	90	90	109	270	30	630	571	337	590	64
80	88,9 x 2,3	125	100	128	270	30	655	591	337	619	74

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Available Regulating Cones

KV's Value		DN 25 DN 1" DN 25-ISO	DN 40 DN 1 1/2"	DN 50 DN 2" DN 40-ISO	DN 65 DN 2 1/2" DN 50-ISO	DN 80 DN 3" DN 65-ISO	DN 100 DN 4" DN 80-ISO
metallic regulating cones and O-ring sealing	1,0	ql%	Standard				
		lin	Standard				
	1,6	ql%	Standard				
		lin	Standard				
	2,5	ql%	Standard	Standard			
		lin	Standard	Standard			
	4	ql%	Standard	Standard	Standard		
		lin	Standard	Standard	Standard		
	7	ql%	Standard	Standard	Standard	Standard	
		lin	Standard	Standard	Standard	Standard	
	11	ql%	Optional	Standard	Standard	Standard	Standard
		lin	Optional	Standard	Standard	Standard	Standard
	18	ql%		Standard	Standard	Standard	Standard
		lin		Standard	Standard	Standard	Standard
	26	ql%		Optional	Standard	Standard	Standard
		lin		Optional	Standard	Standard	Standard
43	ql%			Optional	Standard	Standard	
	lin			Optional	Standard	Standard	
68	ql%				Optional	Standard	
	lin				Optional	Standard	
100	ql%					Optional	
	lin					Optional	

We reserve ourselves the right to make technical changes

-  = bandwidth of KV's values covered with standard
-  = bandwidth of KV's values covered with options
-  = only optional in the metric range

other KV's values at request



Südmö Components GmbH

Industriestrasse 7 · D-73469 Riesbürg · Germany
T +49 (0) 9081 803-0 · F +49 (0) 9081 803-158
E info@sudmo.de · I www.sudmo.de

Südmö Components GmbH reserves the right to make changes in the technical specifications at any time.