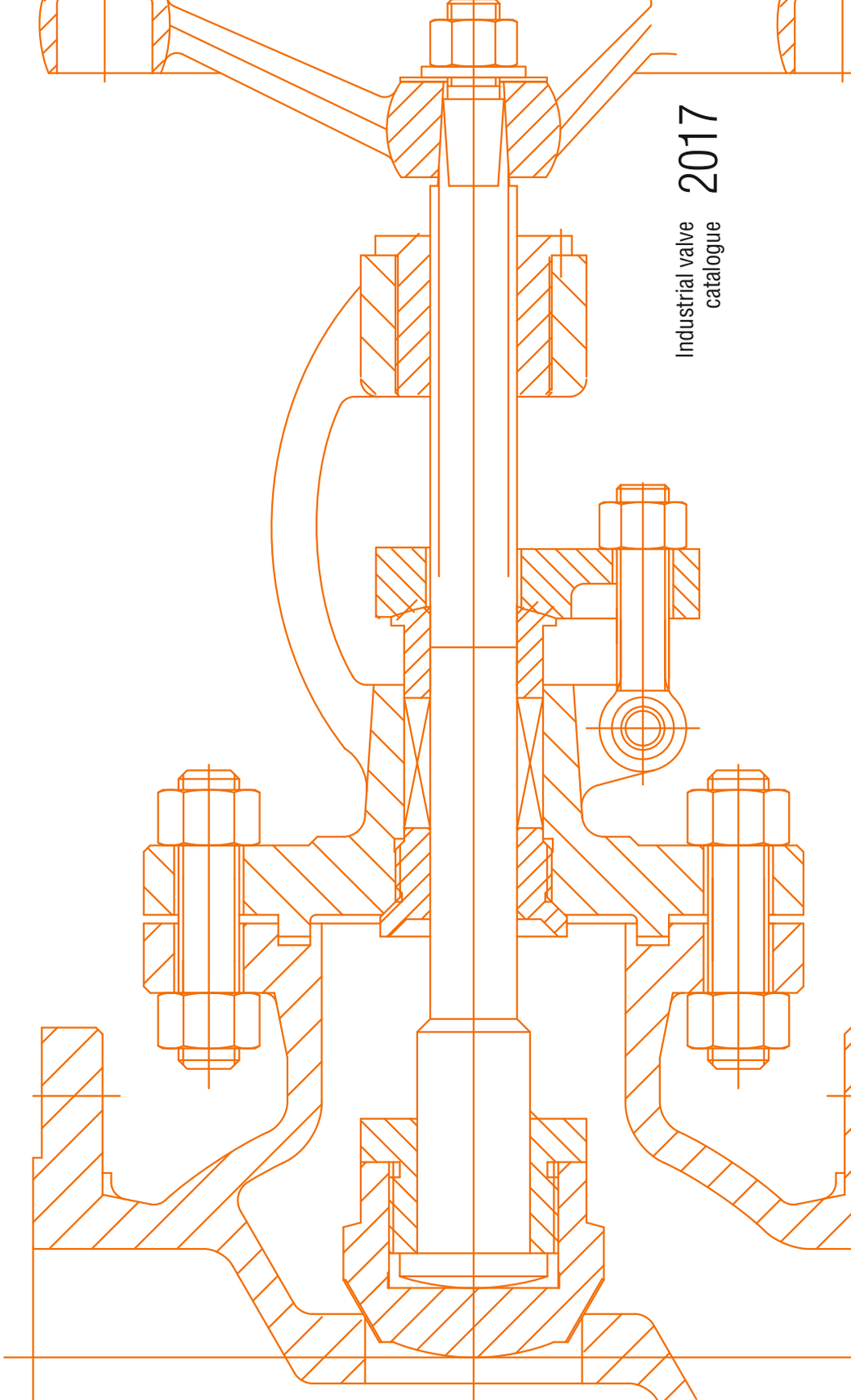
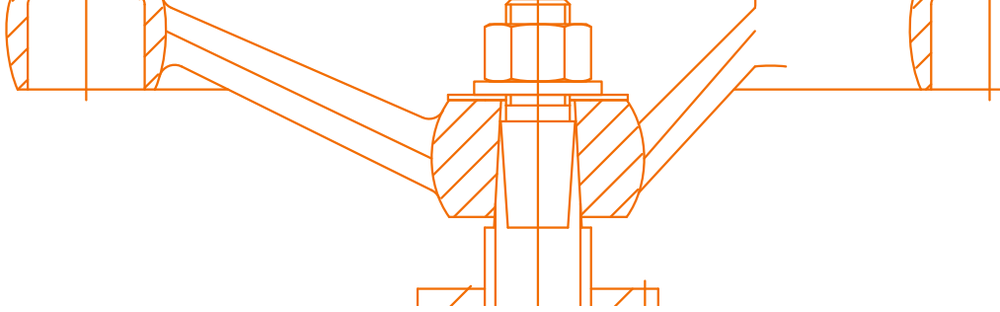
SARATOV
VALVE
PLANT

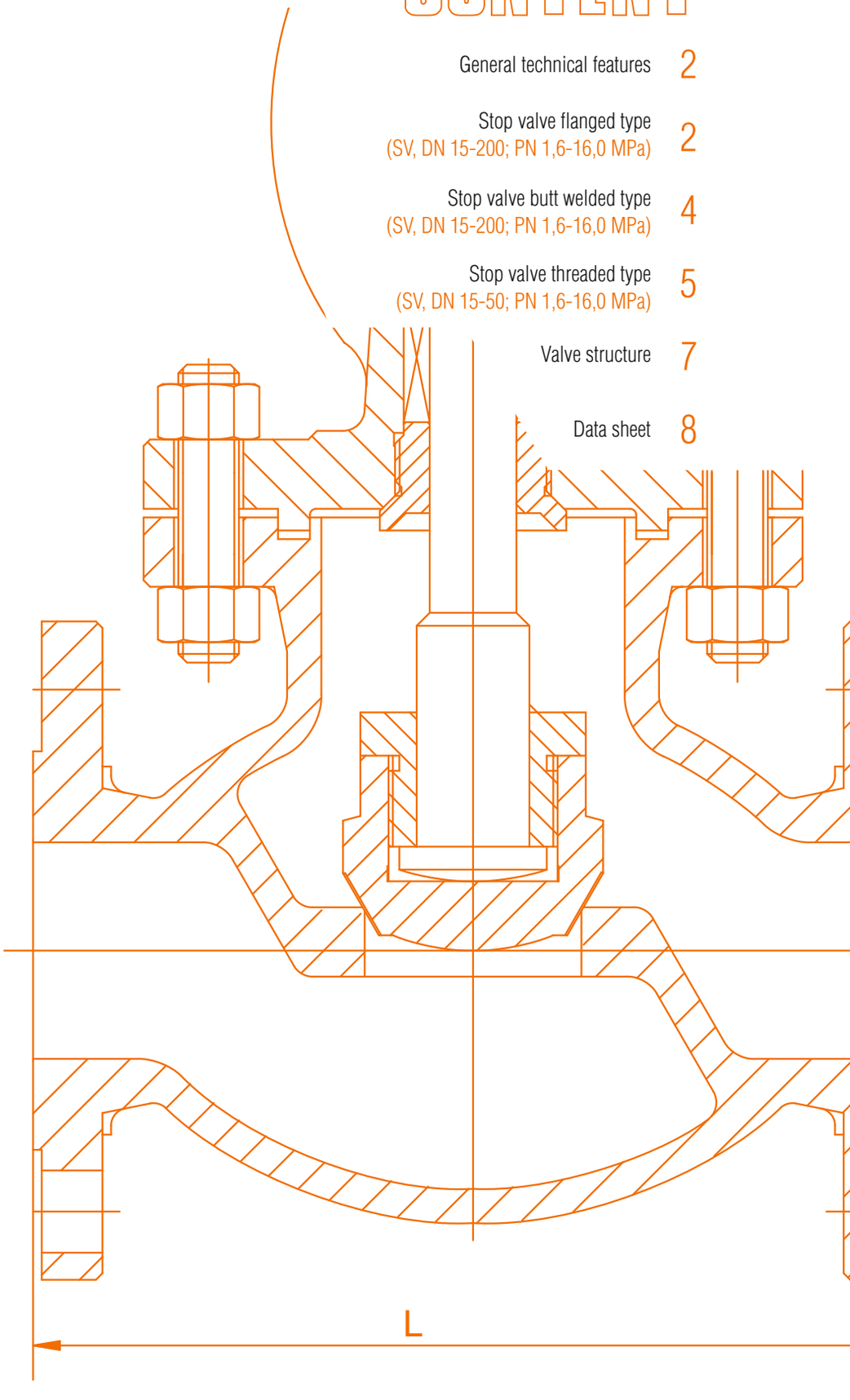
Industrial valve
catalogue
2017



STOP VALVES



CONTENT



GENERAL TECHNICAL FEATURES

Application: shut-off device
Standards: TY 3742-009-55377430-08

Environment

Medium	Corrosive, non-corrosive, explosive medium		
Medium temp., °C	Seat		
	Stainless steel, high temp.steel, paronite	PTFE	Rubber
	Non-corrosive medium +425 (+550*); Corrosive medium +350; Severe corrosive medium +200	Non-corrosive and corrosive medium + 200	Water, steam+120
Climate group	N1, F1, NF1		
Installation	any		
Medium direction	According to indicator		
Connection	Flanged, butt welded, threaded		

*steel 15Х5МЛ (AISI 501/502)

Technical data

Nominal pressure, PN, Mpa	1,6-16,0
Seat leakage	class «A», «B», «C» acc. to GOST P 54808-2011
Valve normal position	Open or Closed
Type of actuator	manual, electric

Main materials

Part	Material
Body, cover	API: WCB, LCB, LC1, CF8, CF8M DIN: 1.0619, 1.1138, 1.43Body, cover06, 1.4308, 1.4408 GOST: 20L, 20GL, 1Cr18Ni9Ti, 1Cr18Ni,10Mo2Ti
Seat	Stainless steel, high temp. steel, ptfe, rubber

Reliability indicies

Mean working life, min (years)	10
Total mean life, cycles, min	3000
Operating time to failure, cycles, min	400

STOP VALVE DN15-200; PN 1,0-16,0 MPa FLANGED TYPE

Fig.1

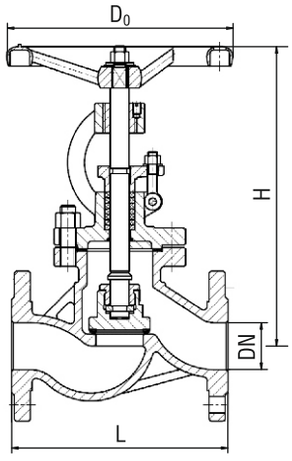
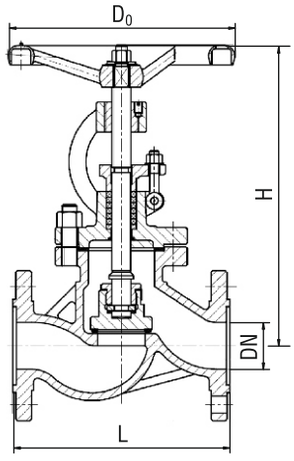


Fig.2



STOP VALVE

SV, DN 15-200; PN 1,6-16,0 MPa

Main overall and connecting dimensions (mm), weight (kg)

PN 1.6 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.16.3310	1	130	218	120	5,2
20	SV 20.16.3310		150	258	140	7,1
25	SV 25.16.3310		160	275	160	7,4
32	SV 32.16.3310		180	280	180	9
40	SV 40.16.3310		200	330	200	13
50	SV 50.16.3310		230	350	240	16
65	SV 65.16.3310		290	355	280	25
80	SV 80.16.3310		310	400	280	30
100	SV 100.16.3310		350	415	320	35
125	SV 125.16.3310		400	460	360	89
150	SV 150.16.3310		480	510	400	198
200	SV 200.16.3310		600	710	400	180

PN 2.5 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.25.3310	1	130	233	120	6
20	SV 20.25.3310		150	275	140	7,5
25	SV 25.25.3310		160	285	160	9
32	SV 32.25.3310		180	302	180	12
40	SV 40.25.3310		200	355	200	17
50	SV 50.25.3310		230	373	240	24
65	SV 65.25.3310		290	408	280	33
80	SV 80.25.3310		310	436	320	44
100	SV 100.25.3310		350	480	360	60
125	SV 125.25.3310		400	558	400	89
150	SV 150.25.3310		480	611	400	98
200	SV 200.25.3310		600	720	400	190

PN 4.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.40.3310	2	130	233	120	6
20	SV 20.40.3310		150	275	140	7,5
25	SV 25.40.3310		160	285	160	9
32	SV 32.40.3310		180	302	180	12
40	SV 40.40.3310		200	355	200	17
50	SV 50.40.3310		230	373	240	24
65	SV 65.40.3310		290	408	280	33
80	SV 80.40.3310		310	436	320	44
100	SV 100.40.3310		350	480	360	60
125	SV 125.40.3310		400	558	400	89
150	SV 150.40.3310		480	611	400	98
200	SV 200.40.3310		600	720	400	190

PN 6.3 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.63.3310	2	170	195	140	10
20	SV 20.63.3310		190	228	160	13
25	SV 25.63.3310		210	275	180	15
32	SV 32.63.3310		230	325	200	19
40	SV 40.63.3310		260	360	240	25
50	SV 50.63.3310		300	410	280	35
65	SV 65.63.3310		340	450	320	48
80	SV 80.63.3310		380	485	360	56
100	SV 100.63.3310		430	537	400	125
125	SV 125.63.3310		500	631	400	131
150	SV 150.63.3310		550	646	450	157
200	SV 200.63.3310		650	813	500	283

PN 16.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.160.3310	2	170	148	140	12
20	SV 20.160.3310		190	156	160	15
25	SV 25.160.3310		210	175	180	17
32	SV 32.160.3310		230	200	200	21
40	SV 40.160.3310		260	231	240	32
50	SV 50.160.3310		300	265	250	52

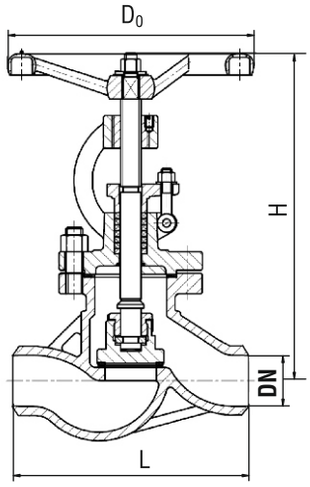
SV, DN 15-200; PN 1,6-16,0 MPa

STOP VALVE

DN	Model	Pic.	L	H	D_0	Weight*, max
65	SV 65.160.3310	2	340	303	320	69
80	SV 80.160.3310		380	341	400	98
100	SV100.160.3310		430	485	450	119
125	SV125.160.3310		500	485	450	119
150	SV 150.160.3310		550	589	500	130
200	SV 200.160.3310		650	783	550	245

STOP VALVE DN15-200; PN 1,6-16,0 MPa BUTT WELDED TYPE

Fig.3



Main overall and connecting dimensions (mm), weight (kg) PN 1.6 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.16.4310	3	130	218	120	5,2
20	SV 20.16.4310		150	258	140	7,1
25	SV 25.16.4310		160	275	160	7,4
32	SV 32.16.4310		180	280	180	9
40	SV 40.16.4310		200	330	200	13
50	SV 50.16.4310		230	350	240	16
65	SV 65.16.4310		290	355	280	25
80	SV 80.16.4310		310	400	280	30
100	SV 100.16.4310		350	415	320	35
125	SV 125.16.4310		400	510	400	98
150	SV 150.16.4310		480	510	400	98
200	SV 200.16.4310		600	710	400	180

PN 2.5 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.25.4310	3	130	233	120	6
20	SV 20.25.4310		150	275	140	7,5
25	SV 25.25.4310		160	285	160	9
32	SV 32.25.4310		180	302	180	12
40	SV 40.25.4310		200	355	200	17
50	SV 50.25.4310		230	373	240	24
65	SV 65.25.4310		290	408	280	33
80	SV 80.25.4310		310	436	320	44
100	SV 100.25.4310		350	480	360	60
125	SV 125.25.4310		400	558	400	89
150	SV 150.25.4310		480	611	400	98
200	SV 200.25.4310		600	720	400	190

STOP VALVE

SV, DN 15-200; PN 1,6-16,0 MPa

PN 4.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.40.4310	3	130	233	120	6
20	SV 20.40.4310		150	275	140	7,5
25	SV 25.40.4310		160	285	160	9
32	SV 32.40.4310		180	302	180	12
40	SV 40.40.3310		200	355	200	17
50	SV 50.40.3310		230	373	240	24
65	SV 65.40.3310		290	408	280	33
80	SV 80.40.3310		310	436	320	44
100	SV 100.40.3310		350	480	360	60
125	SV 125.40.3310		400	558	400	89
150	SV 150.40.3310		480	611	400	98
200	SV 200.40.3310		600	720	400	190

PN 6.3 MPa

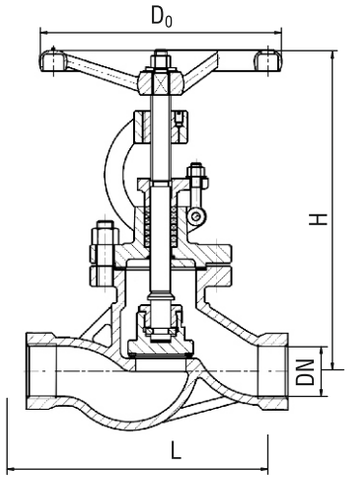
DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.63.4310	3	210	195	140	10
20	SV 20.63.4310		230	228	160	13
25	SV 25.63.4310		230	275	180	15
32	SV 32.63.4310		260	325	200	19
40	SV 40.63.3310		260	360	240	25
50	SV 50.63.3310		300	410	280	35
65	SV 65.63.3310		340	450	320	48
80	SV 80.63.3310		380	485	360	56
100	SV 100.63.3310		430	537	400	125
125	SV 125.63.3310		500	631	400	131
150	SV 150.63.3310		550	646	450	157
200	SV 200.63.3310		650	813	500	283

PN 16.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.160.4310	3	210	220	140	12
20	SV 20.160.4310		230	262	160	15
25	SV 25.160.4310		230	275	180	17
32	SV 32.160.4310		260	326	200	21
40	SV 40.160.3310		260	362	240	32
50	SV 50.160.3310		300	417	250	52
65	SV 65.160.3310		340	455	320	60
80	SV 80.160.3310		380	485	400	69
100	SV 100.160.3310		430	540	450	130
125	SV 125.160.3310		500	631	450	140
150	SV 150.160.3310		550	646	500	170
200	SV 200.160.3310		650	813	550	290

STOP VALVE DN15-50; PN 1,6-16,0 MPa THREADED

Fig.4



SV, DN 15-200; PN 1,6-16,0 MPa

STOP VALVE

Main overall and connecting dimensions (mm), weight (kg)

PN 1.6 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.16.1310	4	90	218	120	3,5
20	SV 20.16.1310		110	258	140	5
25	SV 25.16.1310		130	275	160	6
32	SV 32.16.1310		160	280	180	8
40	SV 40.16.1310		180	330	200	11
50	SV 50.16.1310		200	350	240	13

PN 2.5 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.25.1310	4	90	233	120	5
20	SV 20.25.1310		110	275	140	6,5
25	SV 25.25.1310		130	285	160	7,5
32	SV 32.25.1310		160	302	180	10
40	SV 40.25.1310		180	355	200	14
50	SV 50.25.1310		200	373	240	20

PN 4.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.40.1310	4	90	233	120	5
20	SV 20.40.1310		110	275	140	6,5
25	SV 25.40.1310		130	285	160	7,5
32	SV 32.40.1310		160	302	160	10
40	SV 40.40.1310		180	355	180	14
50	SV 50.40.1310		200	373	200	20

PN 6.3 MPa

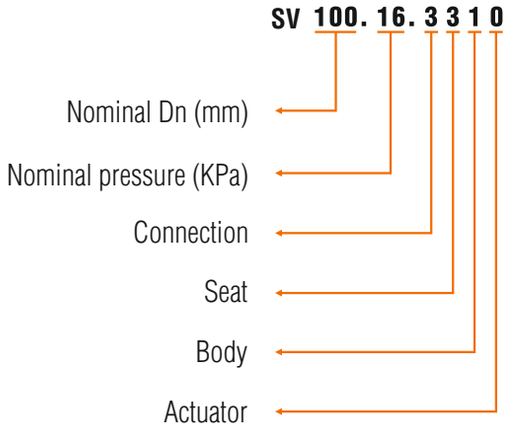
DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.63.1310	4	90	195	140	8,5
20	SV 20.63.1310		110	228	160	10
25	SV 25.63.1310		130	275	180	12
32	SV 32.63.1310		160	325	200	17
40	SV 40.63.1310		180	360	240	21
50	SV 50.63.1310		200	410	280	30

PN 16.0 MPa

DN	Model	Pic.	L	H	D_0	Weight*, max
15	SV 15.160.1310	4	90	148	140	10
20	SV 20.160.1310		110	156	160	12
25	SV 25.160.1310		130	175	180	15
32	SV 32.160.1310		160	200	200	18
40	SV 40.160.1310		180	231	240	28
50	SV 50.160.1310		200	265	250	46

Stop valves made of carbon steel are represented in the table
For more information, concerning materials used in stop valves, please refer to Chapter "Valve structure" Page 7

VALVE STRUCTURE



CONNECTION:
1 - threaded
3 - flanged
4 - butt welded

SEAT:
1 - rubber
2 - PTFE
3 - Stainless steel
4 - Paronite
5 - High temp. steel

BODY:
1 - carbon steel
2 - Stainless steel
3 - cold resistant steel
4 - Stainless steel with Mo content
5 - High temp. steel

ACTUATOR:
0 - manual
1 - electric

QUESTIONNAIRE (DATA SHEET)

№_____

Customer: _____

Contact person _____

Unit _____

Table figure _____ **designation** _____

Valve types

ball valve ☐ stop valve ☐ wedge gate valve ☐
check valve ☐ knife gate valve ☐
butterfly valve with symmetrical disk ☐
double offset butterfly valve ☐
triple offset butterfly valve ☐

Body _____

Nominal diameter DN (mm) _____ **Nominal pressure PN (MPa)** _____

Medium

chemical composition _____
aggregate state liquid ☐ gas ☐ vapour ☐
density, kg/m^3 _____ temperature, °C from _____ up to _____
additional information: _____

Environment

environment temperature, °C from _____ up to _____ additional information:

Operational parameters

flow rate: min / norm. / max, m^3/hr _____ / _____ / _____
rated capacity Cv , m^3/hr _____
flow characteristic: linear ☐ equal percentage ☐
min differential pressure, MPa _____
leakage class standard GOST _____ other _____

Connection

wafer ☐ coupling ☐ choke-nipple ☐
flanged ☐ welded ☐ choke ☐

Accessory

counter flanges, gaskets, fasteners ☐

Installation (placement)

indoor ☐ outdoor ☐
additional information: _____
pipe size, DN * S, mm _____

Actuator

manual (hand wheel ☐, handle ☐, gearbox ☐) pneumatic actuator ☐ hydraulic actuator ☐
electric actuator (general purpose industrial ☐, explosion-proof ☐)

The number (pcs) _____

Additional requirements: _____

GENERAL DEALER: LLC TH "Energomashcomplect"
37/45 Shelkovichnaja str.
Saratov, Russia, 410017
Tel. +7 (8452) 45-44-33 E-MAIL: emk@emk.ru www.emk.ru