



Threaded Safety Valves

Series S3100, S3200, S3300 and S3400 threaded safety valves are suitable for service in both cryogenic and oil & gas applications, depending on the materials of construction.



Series S3100

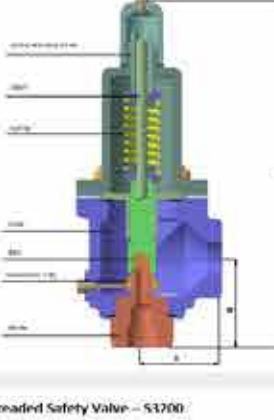
Series S3200

Series S3300

Series S3400

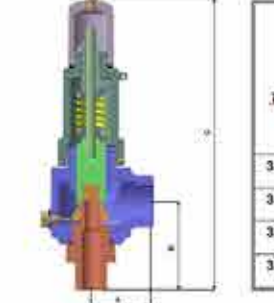
Specifications and Features

Threaded Safety Valve - S3100



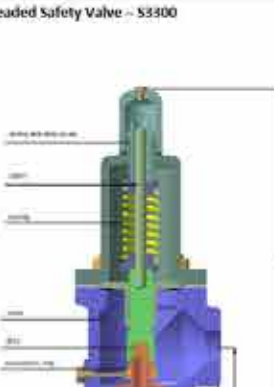
Type	Connections		Orifice area			Overall dimensions				MAX. PRESS. Kg/ cm ²	Set press. range Kg/ cm ²
	Inlet M	Outlet F	Ø mm	cm ²	Sq. Inc.	A	B	C			
S31001	1/2"	1"	10	0.785	0.121	70	83	335	375	105	0.5 - 105
S31002	1"	1 1/2"	13.3	1.390	0.215					78	0.5 - 78
S31003	1/2"	1 1/2"	10	0.785	0.121	70	83	335	375	210	
S31003B	1/2"	1 1/2"	8	0.616	0.08	70	88	350	390	350	105 - 380
S31004	1"	1 1/2"	13.3	1.390	0.215					210	78 - 210
S31005	1 1/2"	2"	16.6	2.104	0.335					140	0.5 - 140
S31006	1 1/2"	2"	19	2.851	0.442					105	0.5 - 105
S31007	2"	2"	21.2	3.830	0.547					70	0.5 - 70

Threaded Safety Valve - S3200



Type	Connections		Orifice area			Overall dimensions				MAX. PRESS. Kg/ cm ²	Set press. range Kg/ cm ²
	Inlet M	Outlet F	Ø mm	cm ²	Sq. Inc.	A	B	C			
S32001	1/2"	1"	8.1	0.516	0.08					150	0.5 - 150
S32002	1/2"	1"	8.1	0.516	0.08	52	77	255	275	150	0.5 - 150
S32003	1"	1"	8.1	0.516	0.08					150	0.5 - 150
S32004	1"	1"	10	0.785	0.121					120	0.5 - 120

Threaded Safety Valve - S3300



Type	Connections		Orifice area			Overall dimensions				MAX. PRESS. Kg/ cm ²	Set press. range Kg/ cm ²
	Inlet M	Outlet F	Ø mm	cm ²	Sq. Inc.	A	B	C			
S33001	1/2"	1 1/4"	10	0.785	0.121	65	95	300	300	40	0.5 - 40
S33002	1"	1 1/4"	13.3	1.390	0.215					40	0.5 - 40
S33003	1 1/8"	1 1/2"	16.6	2.104	0.335	78	103	340	350	40	0.5 - 40
S33004	1 1/4"	1 1/2"	21.2	3.330	0.547					40	0.5 - 40
S33005	1 1/2"	2"	26.5	5.515	0.839	90	118	400	400	40	0.5 - 40
S33006	2"	2"	34	8.079	1.403					20	0.5 - 20
S33007	1 1/4"	2"	22	3.801	0.589	78	103	340	350	40	0.5 - 40
S33008	1 1/4"	2"	23	4.154	0.644					40	0.5 - 40
S33009	1 1/4"	2"	26.5	5.515	0.835	65	95	300	300	20	0.5 - 20
S33010	1 1/4"	1 1/2"	21.2	3.330	0.547					25	0.5 - 25

Threaded Safety Valve - S3400



Type	Connections		Orifice area			Overall dimensions				MAX. PRESS. Kg/ cm ²	Set press. range Kg/ cm ²
	Inlet M	Outlet F	Ø mm	cm ²	Sq. Inc.	A	B	C			
S4000A	1/2"	1/2"	7	0.385	0.059	24.5	39.5	100	→	40	0.5 - 40
S4000	1/2"	1/2"	8	0.516	0.08	30	47	160	170	40	0.5 - 40
S4001	1/2"	1/2"	10	0.785	0.121	40	67	225	225	20	0.5 - 25
S4002	1"	1"	14	1.54	0.238	45	71	240	242	20	0.5 - 25
S4002A	1/2"	1"	14	1.54	0.238	45	71	240	242	20	0.5 - 25
S4003	1" 1/4	1" 1/4	18	2.54	0.393	50	82	275	275	20	0.5 - 20
S4004	1/2"	1/2"	10	0.785	0.121	36	47	160	170	40	0.5 - 40
S4005	1"	1" 1/4	14	1.54	0.238	50	82	275	275	40	0.5 - 40
S4006	1/2"	1" 1/4	14	1.54	0.238	50	82	275	275	40	0.5 - 40

Flanged Safety Valves

Series 3000 - Specifications and Features:

- Flanged connection (RF flange, class from 150# to 2500# according to ASME - ISO - GOST)
- Design according to API 526 / 527 / 520
- DN: from 1/4" to 8"
- Orifice area from 0.785 sq.cm to 183.3 sq.cm
- K=0.93
- Overpressure std. 10%
- Blowdown 10%
- Metal to metal seat
- Spring loaded
- Balanced Bellows as option
- Lever on demand
- GAG on demand
- Suitable for Gases and Liquids
- Temperature range (-)196°C to +540°C
- Minimum Set Pressure 0.5 barg



Cryogenic Globe Valves



Series 15300 and 15100 - Specifications and Features

- Design according to ASME B16.34
- DN Inlet from 1/2" to 2", PN100 (15300 - Angle Globe Valve)
- DN inlet from 1/4" to 10", PN100 (15100 - Globe Valve)
- Face to face STD FEMA
- Bolted Bonnet
- PTFE stem packing
- Fire Safe design (optional)
- Handwheel operated
- END features: BW / SW / RF
- Suitable for Gases and Liquids
- Temperature range (-)196°C to +150°C

Check Valves

Specifications and Features

- Design according to ASME B16.34
- Suitable for Gases and Liquids
- Temperature range (-)196°C to +100°C

Piston Check valves - Series VDR 8355



- DN inlet from 1/2" to 3", PN100
- Soft seat sealing, PTFE
- END features: BW / SW / RF
- Anti-rotation system

Swing Check valves Series VDR-SC 8800



- DN inlet from 4" to 10"
- Class: ASME150/300/600
- Connections: BW & RF
- Uni-directional valve

Special Safety Valve for Viscous Fluids

The S2000 is specially designed for optimum safety and reliability with highly viscous fluids and polymers including polypropylene, polyethylene, rubber and others. Unlike a standard valve the S2000 is engineered such that the polymer only runs inside the pipe thereby preventing blockages.

Bolted Bonnet - extended stem

DN inlet from 1" up to 8", outlet up to 10"

RF flanges

Class from ASME 150# to ASME 900#

Orifice from E up to R

K=0.71 for gases

Overpressure rate +5% / -12%

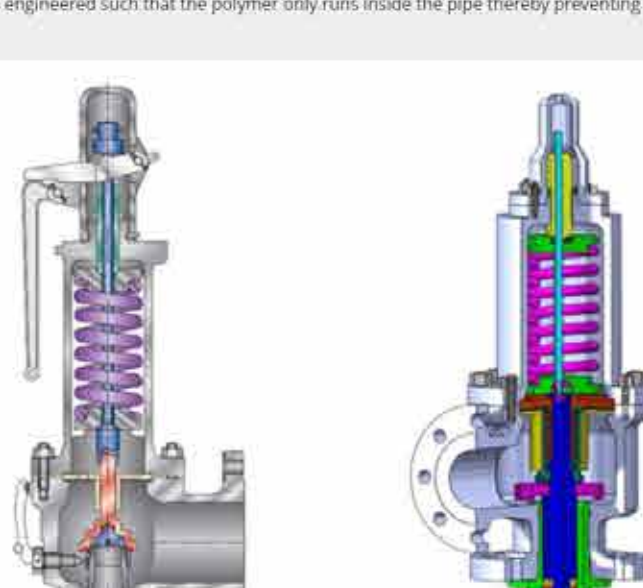
- Disc Sealing: Soft sealing
- Material selection based on discharge temp. Vespel sp1/sp21 for temp. greater than 100 °C
- PCTFE for temp. less than 100 °C

Features

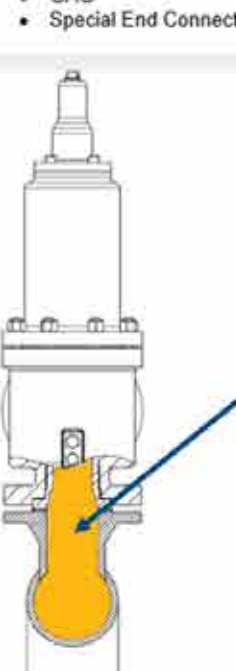
- Spring energized
- Balanced Bellows
- Suitable for gases and liquids

Options

- Lever
- GAG
- Special End Connection



Standard valve vs S2000



In a standard safety valve the fluid with the polymer flows both inside the pipe and the valve neck. If polymerization occurs in vulnerable areas the valve gets blocked.

In the S. 2000, the fluid with the polymer only flows inside the pipe. This removes the vulnerable areas where polymerization could occur.



Specifications:

- DN Inlet from 1" up to 8", outlet up to 10"
- RF flanges
- Class from ASME 150# to ASME 900#
- Orifice from F up to R
- K=0.71 for gases
- Overpressure rate +5% / -12%

Features

- Spring loaded
- Balanced bellows
- Suitable for Gases and Liquids

Options:

- Lever
- GAG
- Special end connection

Changeover Valves - Series 4000, 4100, 4300

Series 4000, 4100 and 4300 changeover valves are suitable for service in both cryogenic and oil & gas applications, depending on the materials of construction.



- Design in accordance with ASME B 16.34 - shuttle type
- DN from 1/4" to 16"
- Class from ASME 150# to ASME 2500#
- Metal to metal seat / Soft seat only for S4300
- Balanced bellows as an option
- Connections: Flanged (RF flange, class from 150# to 2500# according to ASME - ISO - GOST) and screwed (S4300)