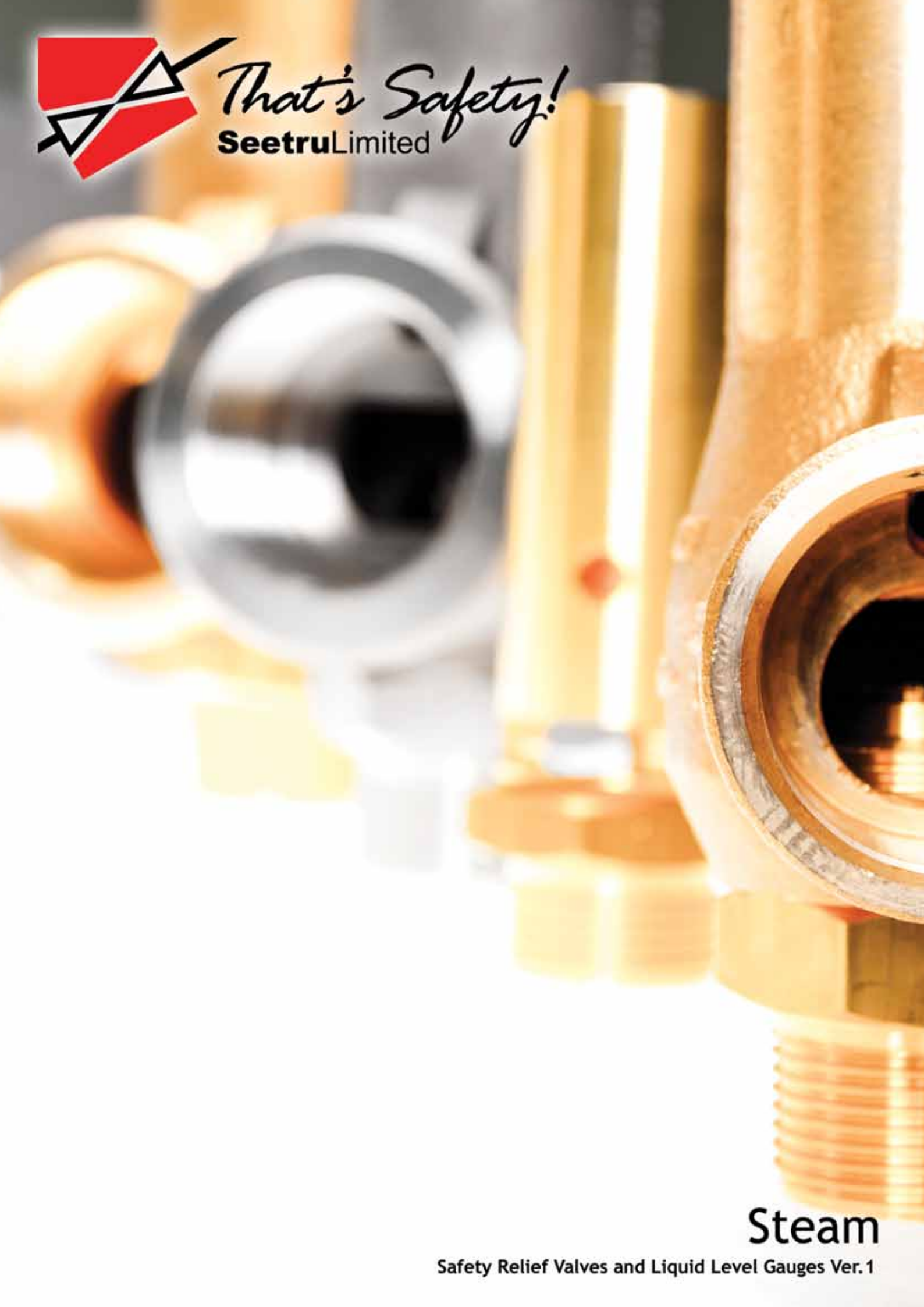


That's Safety!
SeetruLimited

Steam

Safety Relief Valves and Liquid Level Gauges Ver. 1

Seetru Limited

Quality, Innovation & Service

The Company

Seetru Limited was founded in 1949 with the aim of producing the finest liquid level gauges so customers could see the true level even under the most severe conditions.

This philosophy of making the finest through innovation continued with the introduction of the Seetru range of pressure relief devices, circa 1950; the Seetru Tutchtite® sealing system revolutionized the safety valve market with valves that do not leak even after repeated popping and for high pressures.

Today, Seetru have an extensive range of pressure relief valves and liquid level gauges which carry a wide range of international approvals and are supplied worldwide.

The Products

Seetru are manufacturers of safety relief and other special purpose ancillary valves for a wide range of compressed air, industrial gas, refrigerants, powder, steam, liquid and liquefied gas applications.
These valves meet important international standards which include: BS 6759 Parts 2 & 3, AD-Merkblatt A2, ISO 4126 and ASME Section VIII design codes as well as type test approvals from TÜV and the National Board. The products comply with the requirements of the European Pressure Equipment Directive 97/23/EC (PED) and are available with both the CE mark as well as the UV stamp, and have wide international approvals such as the Russian GOST and RTN and the Canadian CRN.

Seetru also has a wide range of special purpose valves, which are largely for the compressed air industry and for medium sized industrial diesel engines. These include minimum pressure valves for screw type compressors and air starting valves for medium size industrial and marine diesel engines.

Seetru liquid level gauges are primarily of two types, sight gauges and magnetic float by-pass gauges. Many of the gauges are direct reading though most have optional electronic remote reading systems and computer interfaces. The range includes the Quickmount, Seemag and CPI gauges for industrial and chemical applications and the Seeflex for marine applications.

The company's substantial design and development department, which includes TÜV approved testing facilities, enables it to provide extensive bespoke design, advisory and manufacturing services to develop or adapt individual products for new applications.

Tel: +44 (0)117 927 9204 Fax: +44 (0)117 929 8193 Email: sales@seetru.com Web: www.seetru.com

The Seetru '**SA**' & '**SP**' Range

The Seetru range of safety valves for steam applications are compact and highly efficient, designed with the exclusive Tutchtite® sealing technology offering repeatable bubble-tight sealing performance. Typical uses of these valves include autoclaves, pharmaceutical industry, vending machines, hot water boilers, steam boilers and plants as well as clean steam applications. Suitable for use up to 250 ˚C and minimum dryness factor of 0.97.

Manufactured in accordance with a wide range of international standards and approvals such as TÜV (Germany) to AD Merkblatt A2, National Board UV Stamp to ASME Section VIII Division 1, GOST/RTN, and compliant with the requirements of the Pressure Equipment Directive 97/23/EC (CE marked).

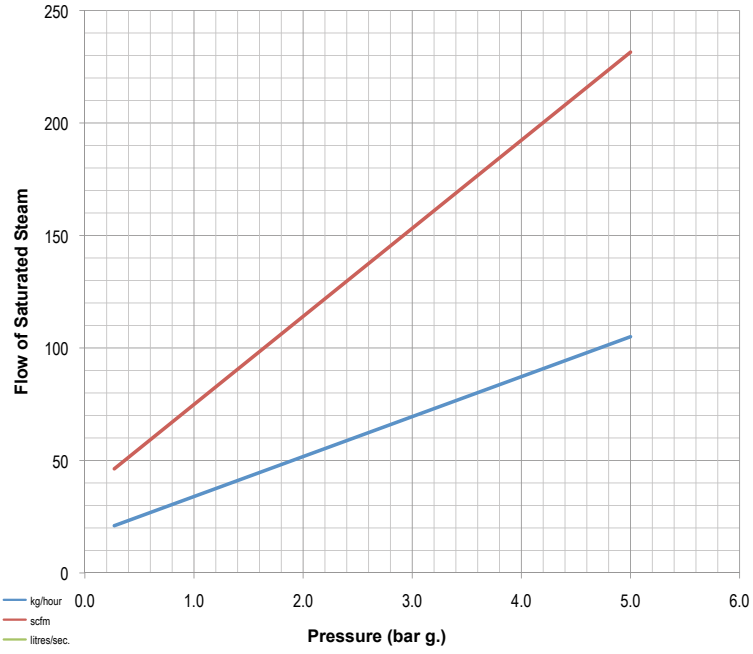
These valves are available with a wide range of sealing materials and technologies as well as a comprehensive range of manual relieving devices to suit application requirements.

SA 319 specifications

		Inlet	
Connections	BSP & NPT	¼"	
		From	**To**
Pressure range	bar	0.27	5
	psi	3.92	72.50
Temperature range	Up to 140°C (subject to seal material)		
Flow area	49.02mm² (7.90 mm inlet bore diameter)		

Notes
- Relieving pressure is set pressure +0.3 bar g.
- Reseating pressure is set pressure -0.3 bar g.

Discharge capacity's

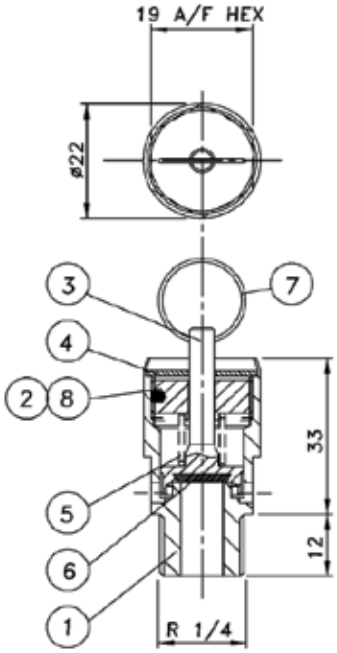


Approvals

Ростехнадзор

Sealing Perfluoroelastomer

DN8



Materials of construction

1	Body	Brass CZ132
2	Adjuster	Brass CZ132
3	Plunger	Brass CZ132
4	NamePlate	Aluminium Alloy
5	Spring	St. Steel
6	Disc Seal	Silcone
7	Pull Ring	St. Steel
8	Locking Slug	Nylon

1 Steam
SA 750

Sealing Silicone

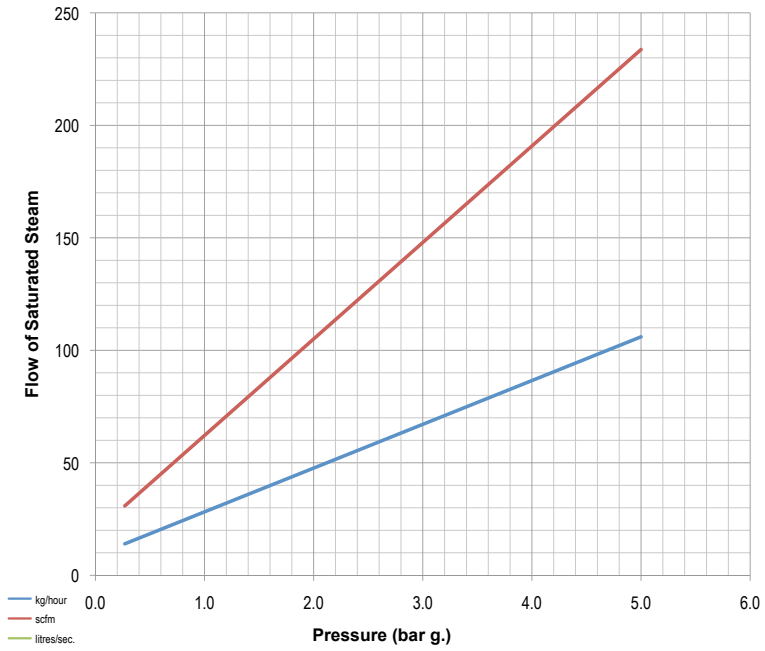
SA 319 specifications

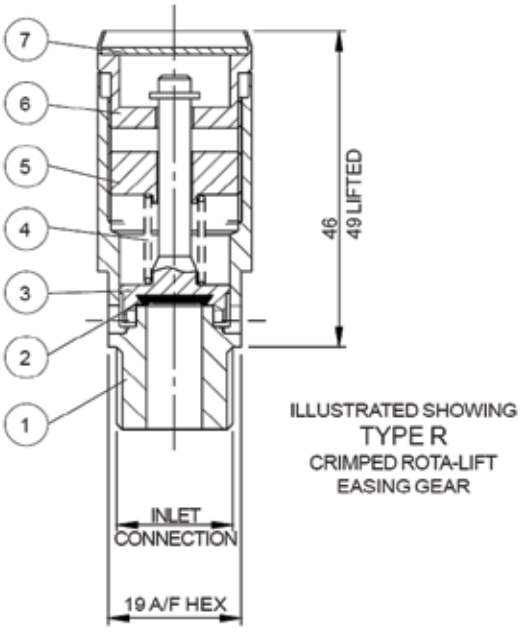
		Inlet	
Connections	BSP & NPT	¼"	
		From	**To**
Pressure range	bar	0.27	5
	psi	3.92	(72.50)
Temperature range		Up to 150°C	
Flow area		49.02mm² (7.90 mm inlet bore diameter)	

Notes
- Relieving pressure is set pressure +10% (0.0 bar g. below 1.0 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. below 3.0 bar g.) • Below 1.00 bar g. PED certified only

DN8

Discharge capacity's

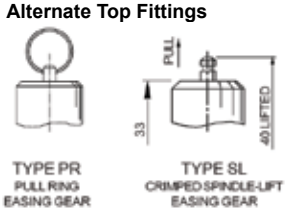




Approvals

Ростехнадзор

Alternate Top Fittings



TYPE PR
PULL RING EASING GEAR

TYPE SL
CRIMPED SPINDLE-LIFT EASING GEAR

Materials of construction

	ASME	**SA 75708 ***
	PED/TÜV/ASME	**SA 75108 ***
	PED/TÜV	**SA 75008**
1	Body	Brass CW602N / CW614N (*)
2	Adjuster	To Suit
3	Plunger	Brass CW602N
4	NamePlate	St. Steel 1.4310 (302)
5	Spring	Brass CW602N
6	Disc Seal	Brass CW602N
7	Pull Ring	Aluminium Alloy

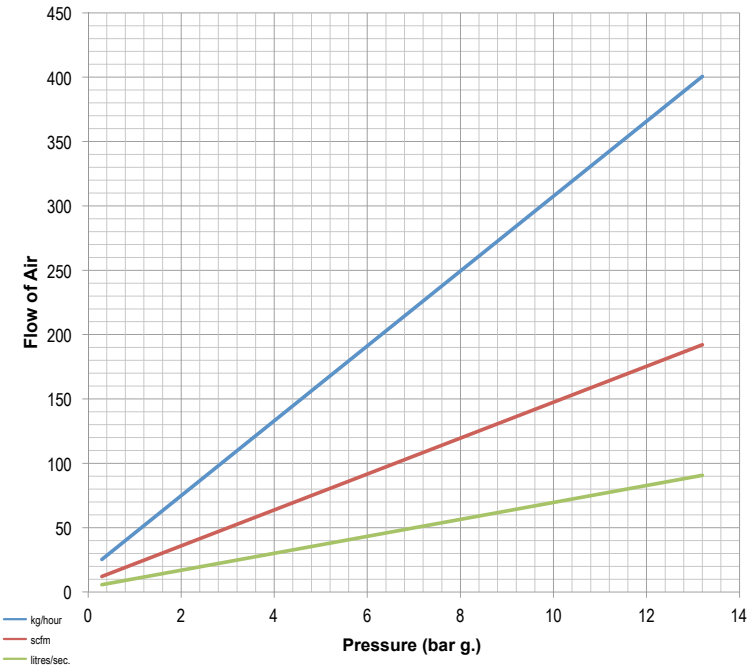
GP 63608 specifications

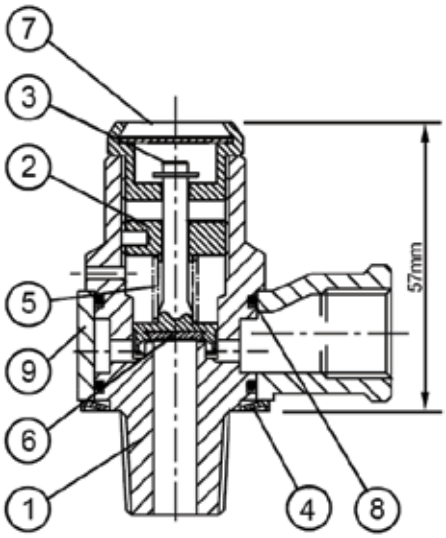
		Inlet	Outlet
Connections	BSP & NPT	¼" to ½"	⅜"
		From	**To**
Pressure range	bar	0.30	4
	psi	4.35	58
Temperature range	-20°C to 180°C (subject to seal material)		
Flow area	49.02mm² (7.90 mm inlet bore diameter)		

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Relieving pressure is set pressure +10% (0.1 bar g. below 1 bar g.)
- Reseating pressure is set pressure -10% (0.1 bar g. minimum)

DN8

Discharge capacity's





ILLUSTRATED SHOWING
TYPE R
CRIMPED ROTA-LIFT
EASING GEAR

Approvals

Ростехнадзор

Materials of construction

1	Body	Brass CZ132
2	Adjuster	Brass CZ132
3	Plunger	Brass CZ132
4	Retaining Clip	Zinc Plated
5	Spring	St. Steel
6	Disc Seal	St. Steel
7	Relieving Screw	Brass
8	'O' ring	As Disc Seal
9	Pipe Collar	PPS 40% Glass Filled

2 Steam
SP 636, 646, 656

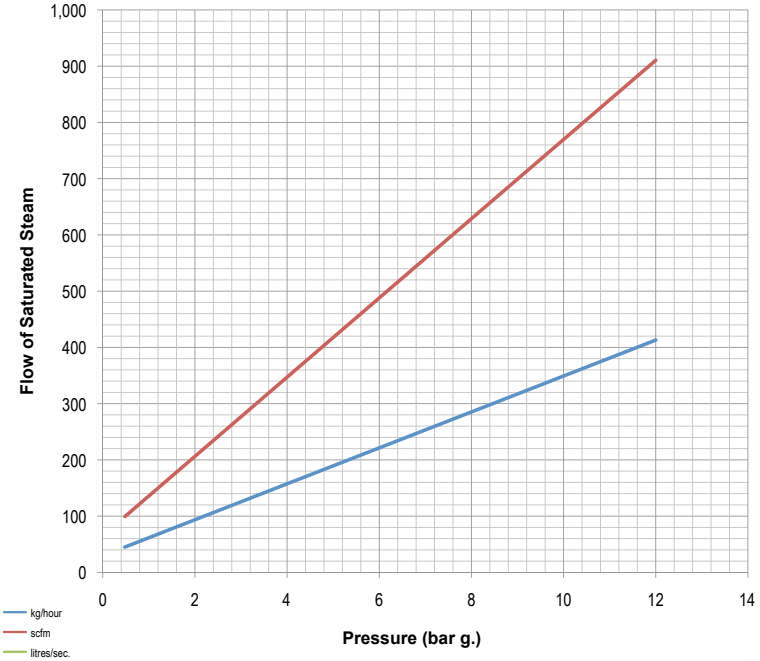
GP 63610, 64610, 65610 specifications

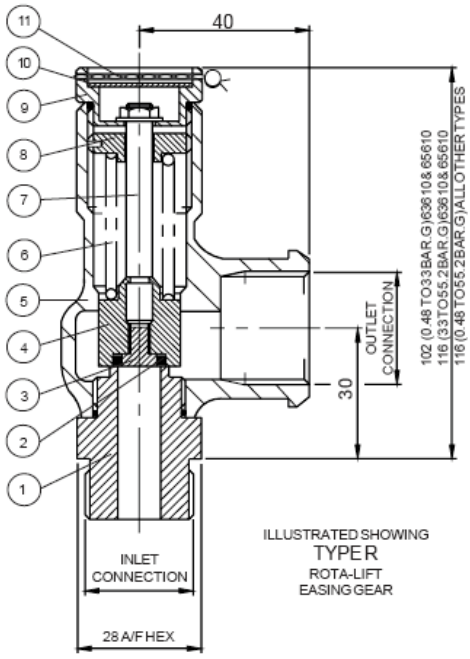
		Inlet	Outlet
Connections	BSP & NPT	⅜" to ½"	¾"
		From	**To**
Pressure range	bar	0.48	12
	psi	6.96	174
Temperature range	Up to 200°C (subject to seal material)		
Flow area	70.88mm² (9.50 mm inlet bore diameter)		

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve related capacity
- Relieving pressure is set pressure +10% (0.3 bar g. below 1.55 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)
- Below 1.55 bar g., PED certified only
- Perflouroelastomer only suitable from 7 bar g.

DN10

Discharge capacity's

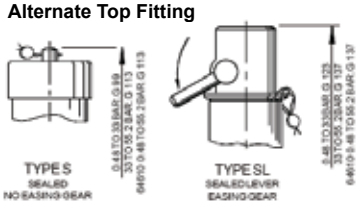




Approvals

Ростехнадзор

Alternate Top Fitting



Materials of construction

	ASME	GP 63710	GP 64710	GP 65710
	PED/TÜV/ASME	GP 63110	GP 64110	GP 65110
	PED/TÜV	GP 63610	GP 64610	GP 65610
1	Inlet Seat	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
2	Seal	To Suit	To Suit	To Suit
3	Seal Retainer	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
4	Plunger	Brass CW602N	St. Steel 1.4401 (316)	Brass CW602N
5	Body	Bronze CC491K (SB-62 C83600)	St. Steel 1.4408 (316)	Bronze CC491K (SB-62 C83600)
6	Spring	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)
7	Spindle	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)
8	Adjuster	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
9	Cap	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
10	Nameplate	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead	St. Steel & Lead

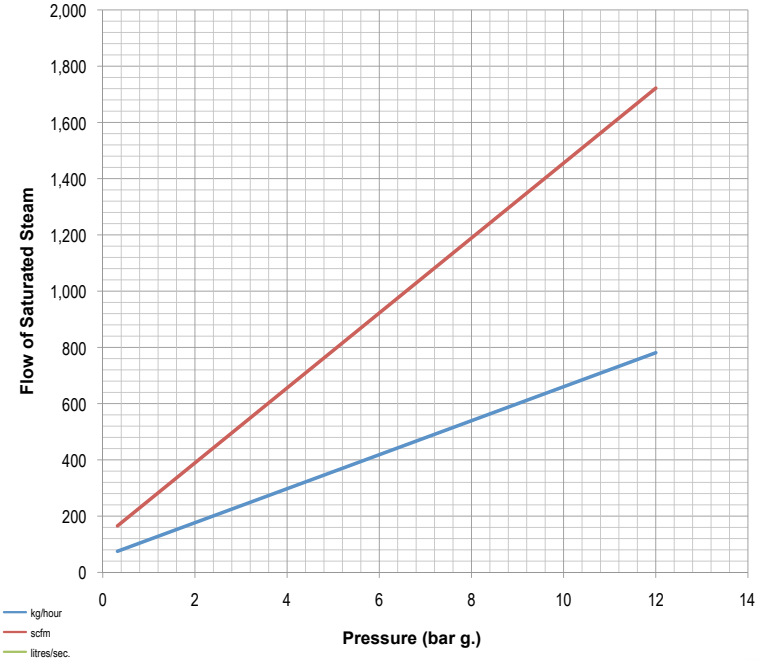
SP 63613, 64613, 65613 specifications

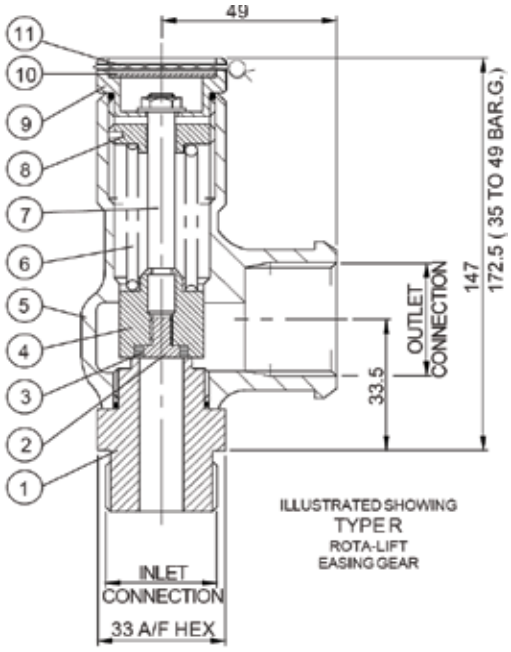
		Inlet	Outlet
Connections	BSP & NPT	¾"	1"
		From	**To**
Pressure range	bar	0.32	12
	psi	4.64	174
Temperature range		Up to 200°C	
Flow area		147.41mm² (13.70 mm inlet bore diameter)	

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve related capacity
- Relieving pressure is set pressure +10% (0.3 bar g. below 1.40 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)
- Below 1.40 bar g., PED certified only
- Perflouroelastomer only suitable from 7 bar g.

DN13

Discharge capacity's

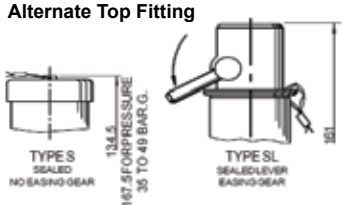




Approvals

Ростехнадзор

Alternate Top Fitting



Materials of construction

	ASME	GP 63713	GP 64713	GP 65713
	PED/TÜV/ASME	GP 63113	GP 64113	GP 65113
	PED/TÜV	GP 63613	GP 64613	GP 65613
1	Inlet Seat	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
2	Seal	To Suit	To Suit	To Suit
3	Seal Retainer	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
4	Plunger	Brass CW602N	St. Steel 1.4401 (316)	Brass CW602N
5	Body	Bronze CC491K (SB-62 C83600)	St. Steel 1.4408 (316)	Bronze CC491K (SB-62 C83600)
6	Spring	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)
7	Spindle	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)
8	Adjuster	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
9	Cap	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
10	Nameplate	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead	St. Steel & Lead

2 Steam
SP 636, 646, 656

GP 63618, 64618, 65618 specifications

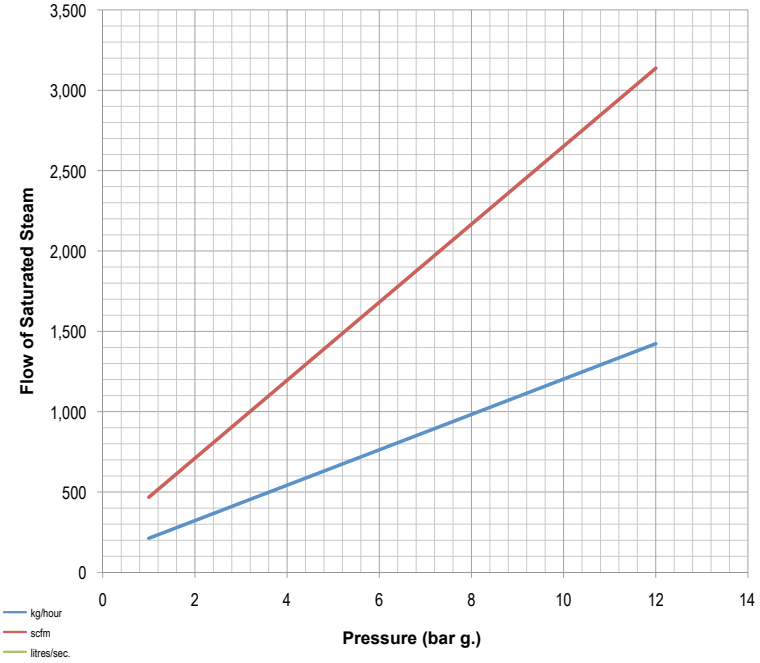
		Inlet	Outlet
Connections	BSP & NPT	1”	1 ½”
		From	**To**
Pressure range	bar	1	12
	psi	14.50	174

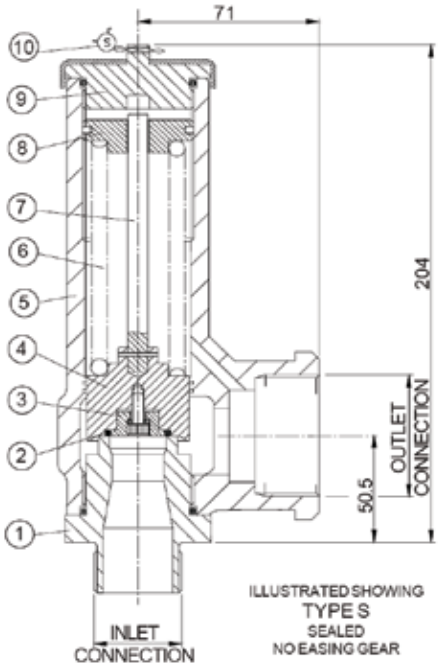
Temperature range	Up to 200°C (subject to seal material)
Flow area	226.98mm² (17 mm inlet bore diameter)

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve related capacity
- Relieving pressure is set pressure +10%
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)
- Below 2.40 bar g., PED certified only
- Perflouroelastomer only suitable from 7 bar g.

DN18

Discharge capacity’s





Approvals

Ростехнадзор

Materials of construction

	ASME	GP 63718	GP 64718	GP 65718
	PED/TÜV/ASME	GP 63118	GP 64118	GP 65118
	PED/TÜV	GP 63618	GP 64618	GP 65618
1	Inlet Seat	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
2	Seal	To Suit	To Suit	To Suit
3	Seal Retainer	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
4	Plunger	Brass CW602N	St. Steel 1.4401 (316)	Brass CW602N
5	Body	Bronze CC491K (SB-62 C83600)	St. Steel 1.4408 (316)	Bronze CC491K (SB-62 C83600)
6	Spring	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)
7	Spindle	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)
8	Adjuster	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
9	Cap	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
10	Wire & Seal	St. Steel & Lead	St. Steel & Lead	St. Steel & Lead

GP 63620, 64620, 65620 specifications

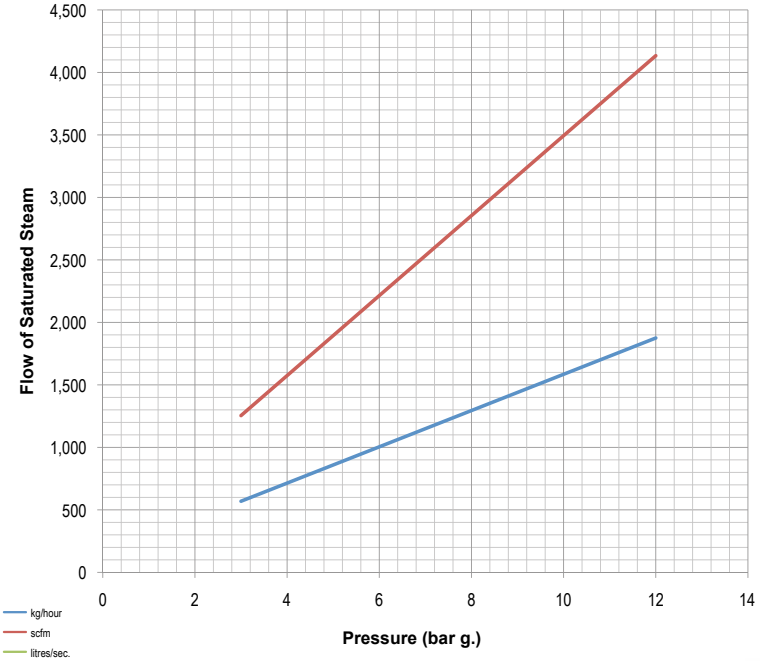
		Inlet	Outlet
Connections	BSP & NPT	1 ¼”	2”
		From	**To**
Pressure range	bar	3	12
	psi	43.50	174

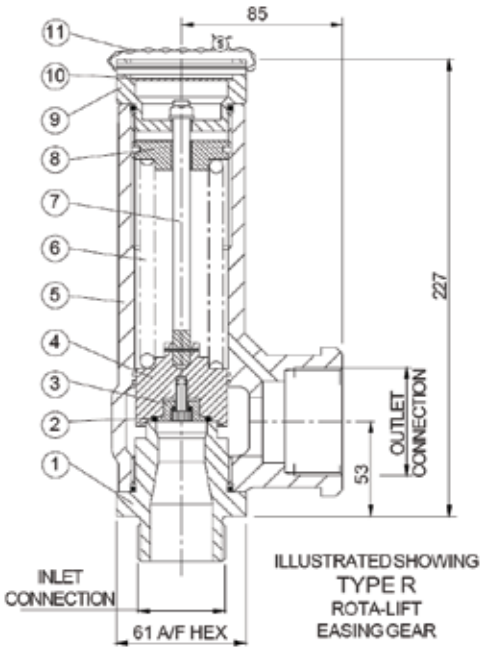
Temperature range	Up to 200°C (subject to seal material)
Flow area	314.16mm² (20 mm inlet bore diameter)

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Perflouroelastomer only suitable from 7 bar g.
- Stable operation on flows down to 50% of valve related capacity
- Relieving pressure is set pressure +10%
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)

DN20

Discharge capacity’s

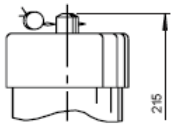




Approvals

Ростехнадзор

Alternate Top Fitting



TYPE S
SEALED
NO EASING GEAR

Materials of construction

	ASME	GP 63720	GP 64720	GP 65720
	PED/TÜV/ASME	GP 63120	GP 64120	GP 65120
	PED/TÜV	GP 63620	GP 64620	GP 65620
1	Inlet Seat	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
2	‘O’ Ring	To Suit	To Suit	To Suit
3	Seal Retainer	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
4	Plunger	Brass CW602N	St. Steel 1.4401 (316)	Brass CW602N
5	Body	Bronze CC491K (SB-62 C83600)	St. Steel 1.4408 (316)	Bronze CC491K (SB-62 C83600)
6	Spring	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)
7	Spindle	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)
8	Adjuster	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
9	Cap	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
10	Nameplate	Aluminium	St.Steel	Aluminium
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead	St. Steel & Lead

2 Steam
SP 636, 646, 656

GP 63625, 64625, 65625 specifications

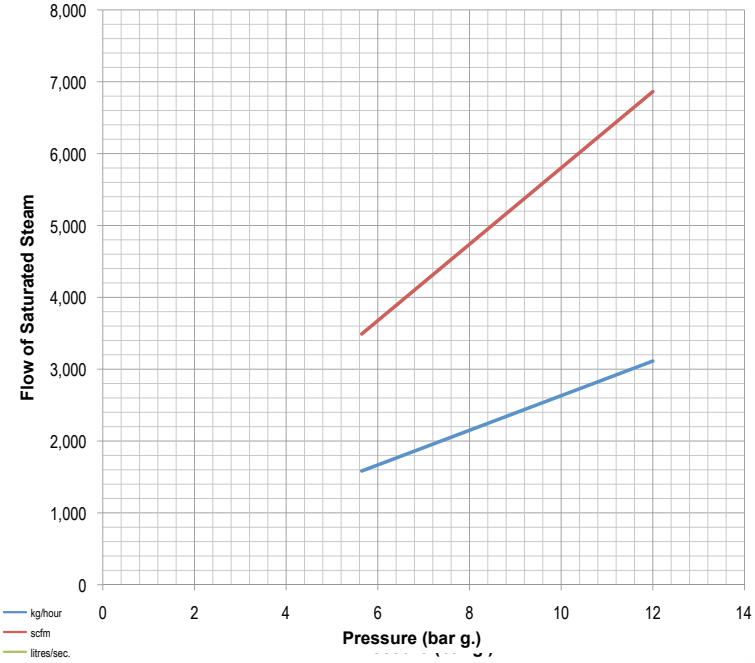
		Inlet	Outlet
Connections	BSP & NPT	1 ½”	2”
		From	**To**
Pressure range	bar	5.65	12
	psi	30	174

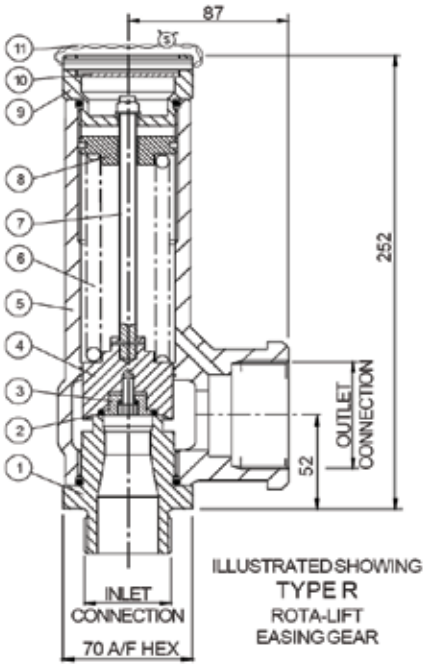
Temperature range	Up to 200°C (subject to seal material)
Flow area	490.87mm² (25 mm inlet bore diameter)

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve related capacity
- Relieving pressure is set pressure +10%
- Reseating pressure is set pressure -10%
- Perflouroelastomer only suitable from 7 bar g.

DN25

Discharge capacity’s

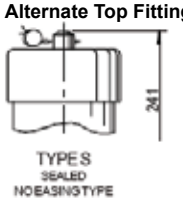




Approvals

Ростехнадзор

Alternate Top Fitting



Materials of construction

	ASME	GP 63725	GP 64725	GP 65725
	PED/TÜV/ASME	GP 63125	GP 64125	GP 65125
	PED/TÜV	GP 63625	GP 64625	GP 65625
1	Inlet Seat	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
2	‘O’ Ring	To Suit	To Suit	To Suit
3	Seal Retainer	Brass CW614N	St. Steel 1.4401 (316)	St. Steel 1.4401 (316)
4	Plunger	Brass CW602N	St. Steel 1.4401 (316)	Brass CW602N
5	Body	Bronze CC491K (SB-62 C83600)	St. Steel 1.4408 (316)	Bronze CC491K (SB-62 C83600)
6	Spring	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)	St. Steel 1.4310 (302)
7	Spindle	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)	St. Steel 1.4057 (431)
8	Adjuster	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
9	Cap	Brass CW614N	St. Steel 1.4401 (316)	Brass CW614N
10	Nameplate	Aluminium/ St. Steel	St.Steel	Aluminium/ St. Steel
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead	St. Steel & Lead

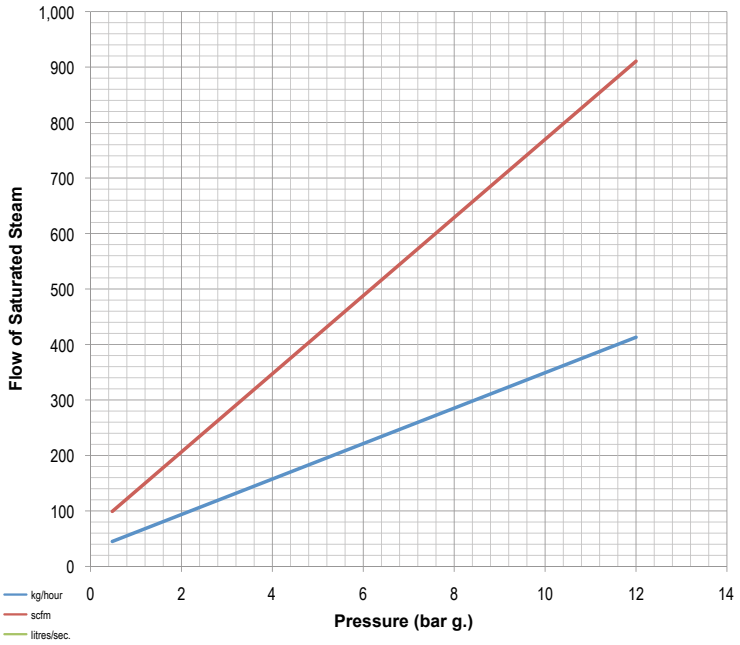
GP 64610 (clean gas service) specifications

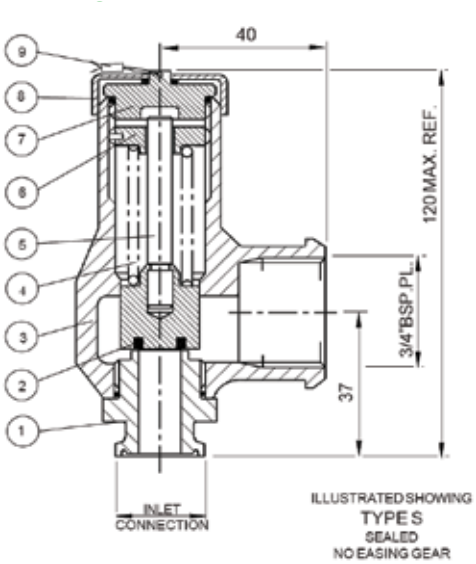
		Inlet	Outlet
Connections	BSP & NPT	½" to 1" TRI-CLAMP	¾"
		From	**To**
Pressure range	bar	0.48	12
	psi	6.96	174
Temperature range	Up to 190°C (subject to seal material)		
Flow area	70.88mm² (9.50 mm inlet bore diameter)		

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.3 bar g. below 1.55 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)
- Below 1.55 bar g., PED certified only
- Tri-Clamp compatible generally in accordance with ASME BPE 2005 & BS 4825-3.

DN10

Discharge capacity's

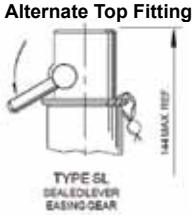




Approvals

Ростехнадзор

Alternate Top Fitting



Materials of construction

		ASME	PED/TÜV/ASME	PED/TÜV
		GP 64710	**GP 64110**	**GP 64610**
1	Inlet Seat	St. Steel 1.4404 (316L)		
2	Plunger	St. Steel 1.4404 (316L)		
3	Body	St. Steel 1.4404 (316)		
4	Spring	St. Steel 1.4404 (302)		
5	Spindle	St. Steel 1.4404 (431)		
6	Adjuster	St. Steel 1.4404 (316)		
7	Cap	St. Steel 1.4404 (316)		
8	Cover	St. Steel		
9	Wire & Seal	St. Steel & Lead		

2 Steam
SP 646

GP 64613 (clean gas service) specifications

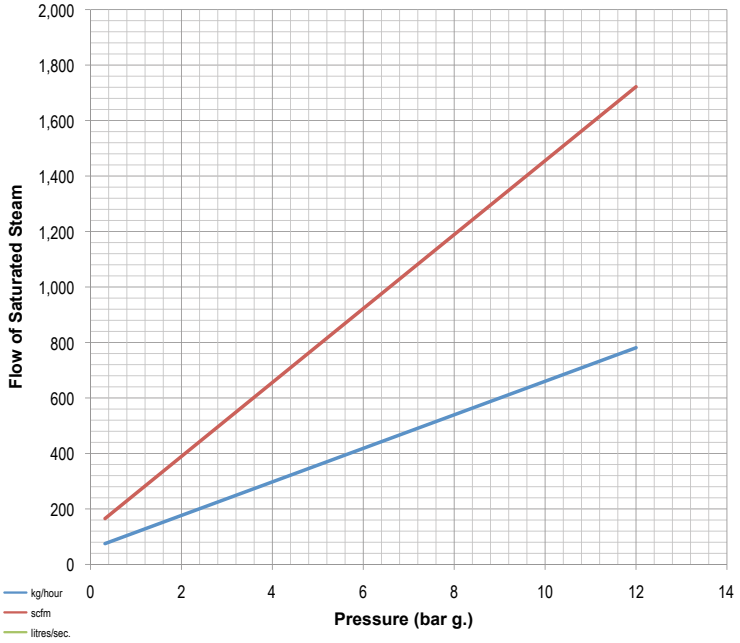
		Inlet	Outlet
Connections	BSP & NPT	¾" to 1" Tri-Clamp®	1"
		From	**To**
Pressure range	bar	0.32	12
	psi	4.64	174
Temperature range	Up to 190°C (subject to seal material)		
Flow area	147.41mm² (13.70 mm inlet bore diameter)		

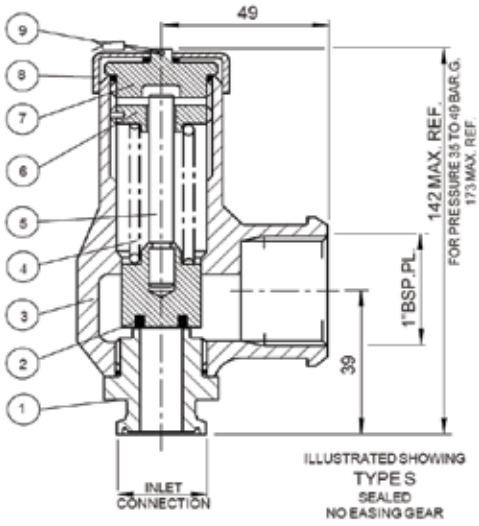
Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.3 bar g. below 1.55 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. minimum)
- Below 1.40 bar g., PED certified only
- Tri-Clamp® compatible generally in accordance with ASME BPE 2005 & BS 4825-3.

Sealing Perfluoroelastomer

DN13

Discharge capacity's

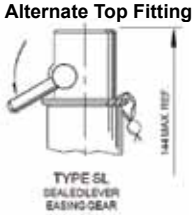




Approvals

Ростехнадзор

Alternate Top Fitting



Materials of construction

		ASME	PED/TÜV/ASME	PED/TÜV
		GP 64713	**GP 64113**	**GP 64613**
1	Inlet Seat	St. Steel 1.4404 (316L)		
2	Plunger	St. Steel 1.4404 (316L)		
3	Body	St. Steel 1.4404 (316)		
4	Spring	St. Steel 1.4404 (302)		
5	Spindle	St. Steel 1.4404 (431)		
6	Adjuster	St. Steel 1.4404 (316)		
7	Cap	St. Steel 1.4404 (316)		
8	Cover	St. Steel		
9	Wire & Seal	St. Steel & Lead		

GP 94610 (Metal Seal) specifications

		Inlet	Outlet
Connections	BSP & NPT	½" to ¾"	1"
		From	**To**
Pressure range	bar	0.30	28
	psi	4.35	406

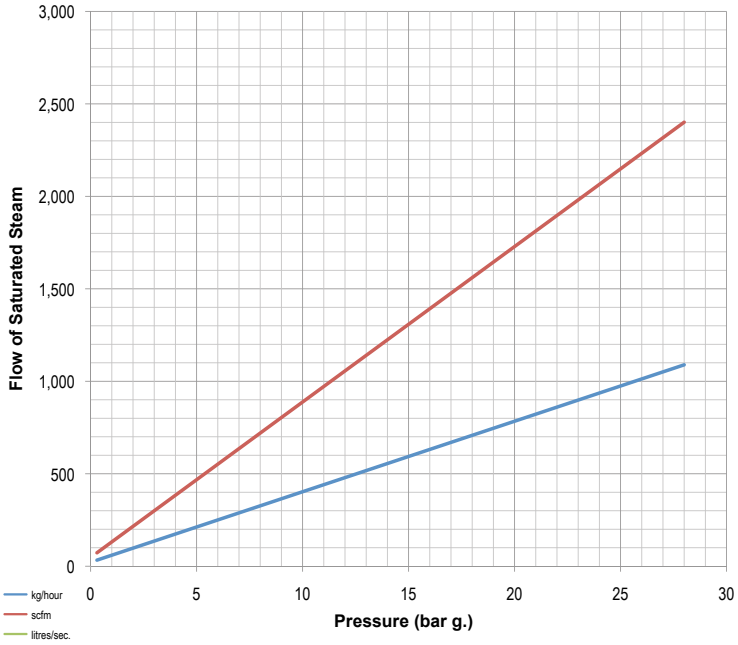
Temperature range	Up to 250°C (subject to seal material)
Flow area	78.54mm² (10.00 mm inlet bore diameter)

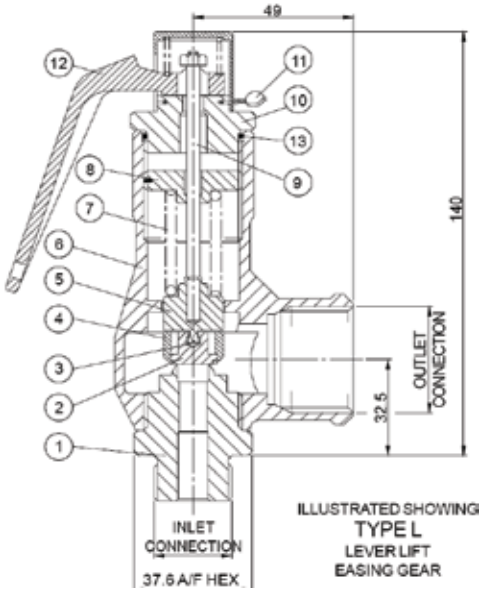
Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.1 bar g. below 1.3 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. below 3.0 bar g.)

Sealing
Metal-to-Metal

DN10

Discharge capacity's





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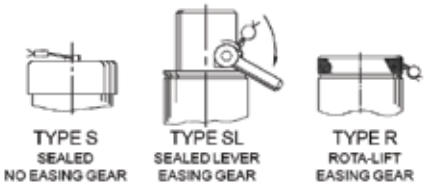
Ростехнадзор

Alternate Top Fittings



Materials of construction

		GP 93610	GP 94610
1	Inlet Seat	Brass	St. Steel
2	Disc	St. Steel 1.4401 (316)	St. Steel 440B
3	Ball	St. Steel	St. Steel
4	Disc Holder	St. Steel	St. Steel
5	Plunger	St. Steel	St. Steel
6	Body	Brass	St. Steel
7	Spring	St. Steel	St. Steel
8	Adjuster	Brass	St. Steel
9	Spindle	St. Steel	St. Steel
10	Cap	Brass	St. Steel
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead
12	Lever	Brass	St. Steel
13	'O' ring	To Suit	To Suit

2 Steam
SP 936, 946

GP 94615 (Metal Seal) specifications

		Inlet	Outlet
Connections	BSP & NPT	¾ to 1½"	1½"
		From	**To**
Pressure range	bar	0.30	28
	psi	4.35	406

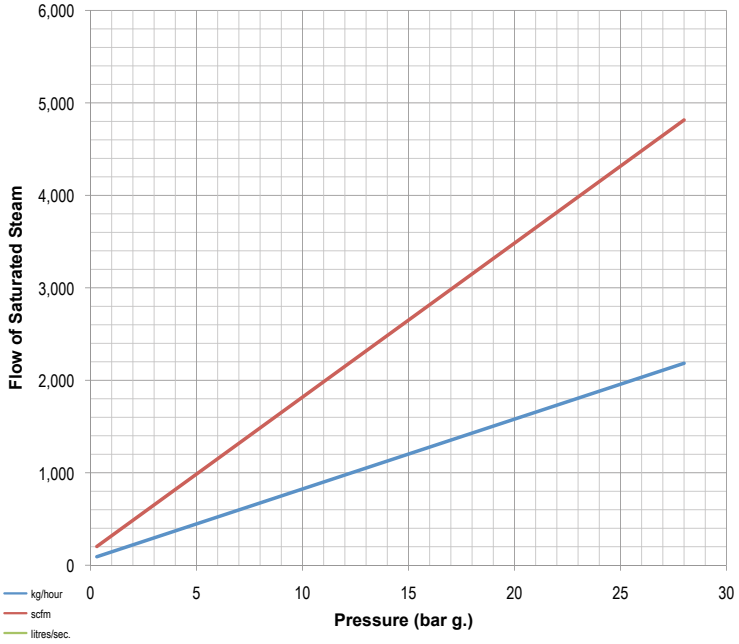
Temperature range	Up to 250°C (subject to seal material)
Flow area	176.71mm² (15.00 mm inlet bore diameter)

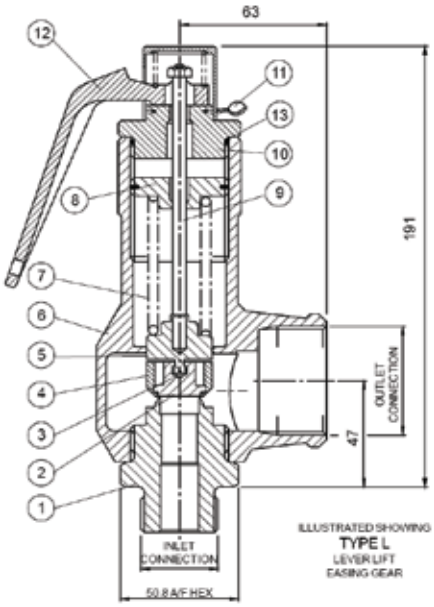
Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.1 bar g. below 1.3 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. below 3.0 bar g.)

Sealing
Metal-to-Metal

DN15

Discharge capacity's





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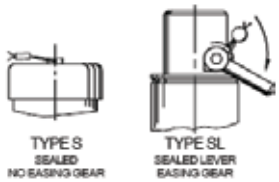
Ростехнадзор

Alternate Top Fittings



Materials of construction

		GP 93615	GP 94615
1	Inlet Seat	Brass	St. Steel
2	Disc	St. Steel 1.4401 (316)	St. Steel 440B
3	Ball	St. Steel	St. Steel
4	Disc Holder	St. Steel	St. Steel
5	Plunger	St. Steel	St. Steel
6	Body	St. Steel	St. Steel
7	Spring	St. Steel	St. Steel
8	Adjuster	Brass	St. Steel
9	Spindle	St. Steel	St. Steel
10	Cap	Brass	St. Steel
11	Wire & Seal	St. Steel & Lead	St. Steel & Lead
12	Lever	Brass	St. Steel
13	'O' ring	To Suit	To Suit

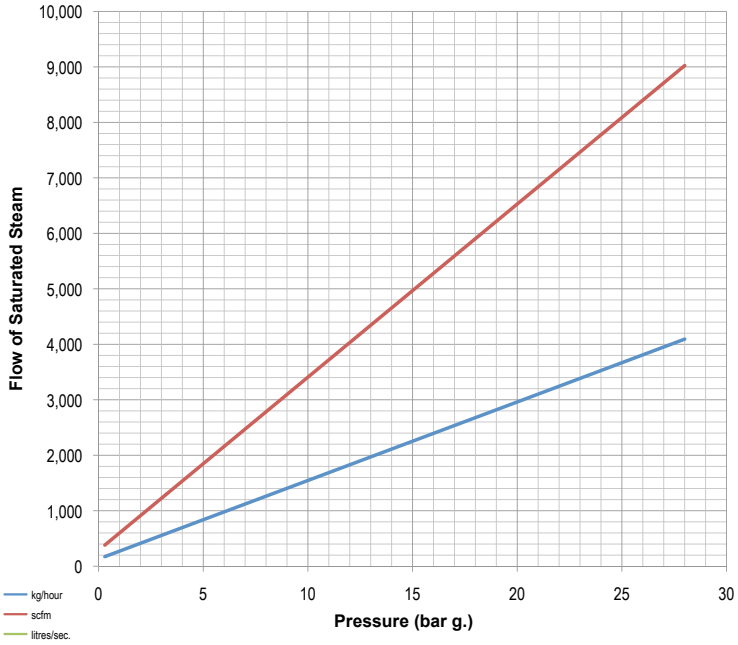
GP 94620 (Metal Seal) specifications

		Inlet	Outlet
Connections	BSP & NPT	1" to 1½"	2"
		From	**To**
Pressure range	bar	0.30	28
	psi	4.35	406

Temperature range	-196°C to 250°C (subject to seal material)
Flow area	314.16mm² (20.00 mm inlet bore diameter)

Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.1 bar g. below 1.3 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. below 3.0 bar g.)

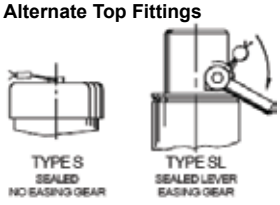
Discharge capacity's



Approvals

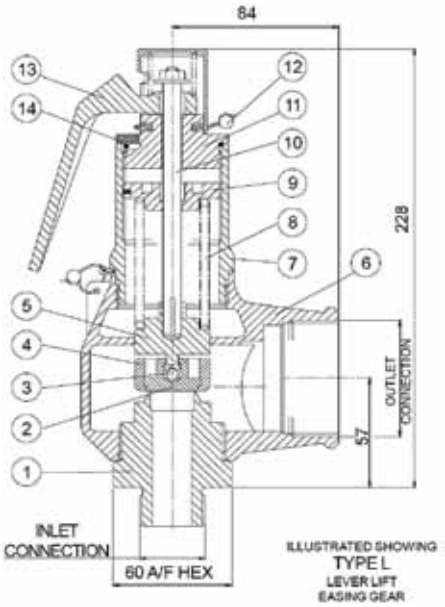
Ростехнадзор

Alternate Top Fittings



Sealing
Metal-to-Metal

DN20



Materials of construction

		GP 93620	GP 94620
1	Inlet Seat	Brass	St. Steel
2	Disc	St. Steel 1.4401 (316)	St. Steel 440B
3	Ball	St. Steel	St. Steel
4	Disc Holder	St. Steel	St. Steel
5	Plunger	St. Steel	St. Steel
6	Body	Brass	St. Steel
7	Spring Housing	Brass	St. Steel
8	Spring	St. Steel	St. Steel
9	Adjuster	Brass	St. Steel
10	Spindle	St. Steel	St. Steel
11	Cap	Brass	St. Steel
12	Wire & Seal	St. Steel & Lead	St. Steel & Lead
13	Lever	Brass	St. Steel
14	'O' ring	To Suit	To Suit

2 Steam
SP 936, 946

GP 94625 (Metal Seal) specifications

		Inlet	Outlet
Connections	BSP & NPT	1¼" to 2"	2"
		From	**To**
Pressure range	bar	0.30	20
	psi	4.35	290

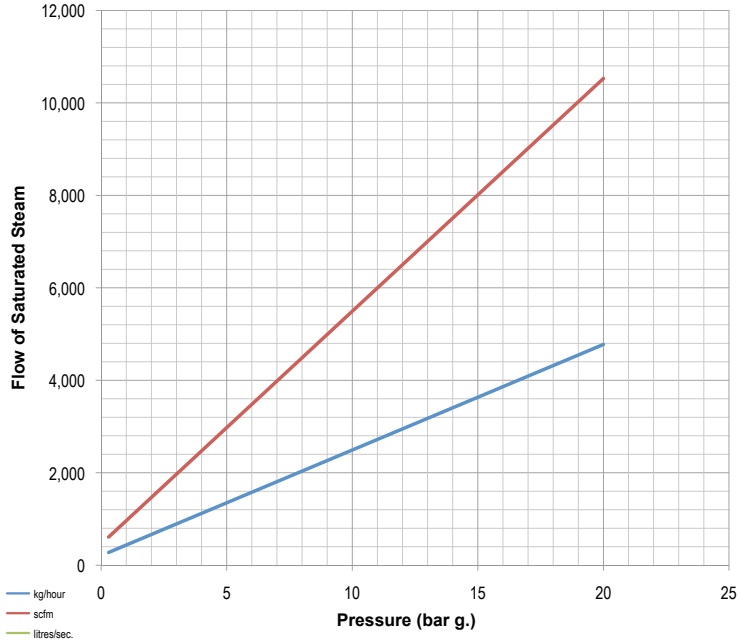
Temperature range	-196°C to 250°C (subject to seal material)
Flow area	490.87mm² (25.00 mm inlet bore diameter)

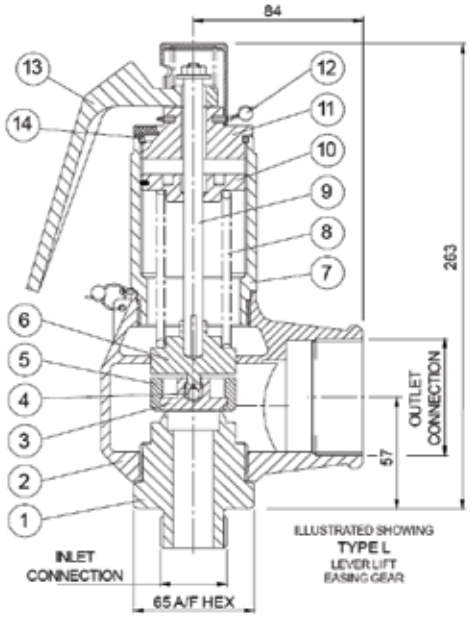
Notes
- Maximum permissible built up back pressure is 10% of set pressure
- Stable operation on flows down to 50% of valve rated capacity
- Relieving pressure is set pressure +10% (0.1 bar g. below 1.3 bar g.)
- Reseating pressure is set pressure -10% (0.3 bar g. below 3.0 bar g.)

Sealing
Metal-to-Metal

DN25

Discharge capacity's

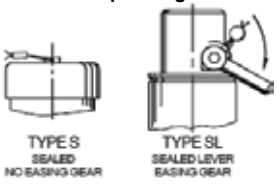




Approvals

Ростехнадзор

Alternate Top Fittings



Materials of construction

		GP 93625	GP 94625
1	Inlet Seat	Brass	St. Steel
2	Body	St. Steel	St. Steel
3	Disc	St. Steel 1.4401 (316)	St. Steel 440B
4	Ball	St. Steel	St. Steel
5	Disc Holder	St. Steel	St. Steel
6	Plunger	St. Steel	St. Steel
7	Spring Housing	Brass	St. Steel
8	Spring	Brass	St. Steel
9	Spindle	St. Steel	St. Steel
10	Adjuster	Brass	St. Steel
11	Cap	Brass	St. Steel
12	Wire & Seal	St. Steel & Lead	St. Steel & Lead
13	Lever	Brass	St. Steel
14	'O' Ring	To Suit	To Suit

The Seetru '**G22**' Quickmount Tubular Gauge

For Hot Water

The Seetru Quickmount liquid level gauge is a direct reading, tubular design for general industrial use. The unique isolating valve and collar design, allows for maintenance of the gauge column without tools and the need to drain the tank. Available with automatic safety shut off valves and drain valve. The construction provides a modern gauge, which is aesthetically pleasing.

Suitable for a wide range of pressures and temperatures, the gauge is fitted with elastomer seals in materials to suit the required service.

G27 Quickmount specifications

Connections	BSP and NPT threaded connections or ANSI / DIN flanges
Lengths	To Suit Requirements (minimum 150mm)
Valve types	Manual screw down, Manual screw down complete with automatic safety shut-off valves
Maximum Temperature	150°C[1]
Maximum Pressure	22 bar[2]

[1] Maximum temperature is dependant of the sight tube and seal materials selected.
[2] Maximum allowable operating pressure is dependent upon operating temperature and sight tube material, contact Seetru for full information.

Tubular sight glass design
Sight tubes are available in glass or polycarbonate. Metal protecting tubes are available in a variety of materials with optional supplementary transparent polycarbonate protecting tube.

Ease of installation and maintenance
The Quickmount liquid level gauge can be installed without the use of special tools. Threaded end units are screwed into female tank bosses. The gauge collars slip over these units and are secured by hand tightening retaining nuts. 'O' ring sealing is used throughout. The isolating valves will allow column removal without need to drain the tank.

Tank calibration
Where a measure of the precise storage volume is required an engraved scale plate can be provided marked with the capacity units.

Tank connection
A closed circuit or open circuit pattern may be selected for the gauge.

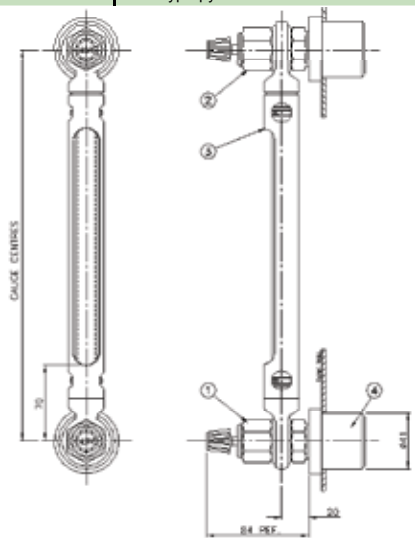
Closed circuit pattern
Direct connection from the top of the gauge to the tank can be made with a screw-down valve or a valveless unit.

Open circuit pattern
The upper end of the liquid level gauge can be supplied with an automatic safety vent valve or, alternatively, a pipe union connection. The automatic safety vent valve will allow air to pass, but will seal against a liquid level. In the case of the pipe union connection design, a 10 mm o/d steel vent pipe is returned to the tank or into the tank vent pipe. Open circuit connection is only allowable when it is possible for the gauge column to extend above the top of the tank.

Electronic & Digital Readout
Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented.

Materials of construction

1	Sight tube	Borosilicate Glass or Polycarbonate plastic
2	Guard tube	Anodised aluminium Brass Stainless steel Zinc plated mild steel
3	Seal	Elastomer
4	End Unit	Brass Stainless steel Polypropylene



3 Steam
G22 Reflex Gauge

The Seetru '**G34**' Reflex Gauge

The G34 Reflex gauge is a heavy duty (flat glass) liquid level gauge, suitable for high pressure/temperature combinations.
The modular design is made up of compact and robust standard stainless steel precision cast elements.

Variations on the isolating valves ranging from quarter turn ball valves to heavy duty hand wheel isolating valves complete with auto safety shut off safety features are available in a number of flexible configurations offering end mounted, side mount, rear entry connections, with full centre to centre visibility can be secured with minimum overall length.

G34 Reflex specifications

Connections	BSP & NPT threaded connections or ANSI/DIN flanges
Lengths	Minimum: 216 mm Maximum: 3246 mm
Valve types	Hand wheel operated isolation valves or ¼ Turn ball isolation valves
Maximum Temperature	250°C
Maximum Pressure	75 bar

Column arrangements:
The Reflex gauge is available with either a straight or staggered column, and a choice of valve positions, to provide uninterrupted centre to centre liquid level indication. With the use of extension pieces most centre to centre distance requirements can be achieved.

Valve options:
A choice of isolation valves are available, either ¼ turn ball valves or CPI screw down valves with ASV (auto shut-off valves). The ASV feature means that in the unlikely event that the glass is damaged the contents of the tank will not be lost. Also available are drain and vent valves.

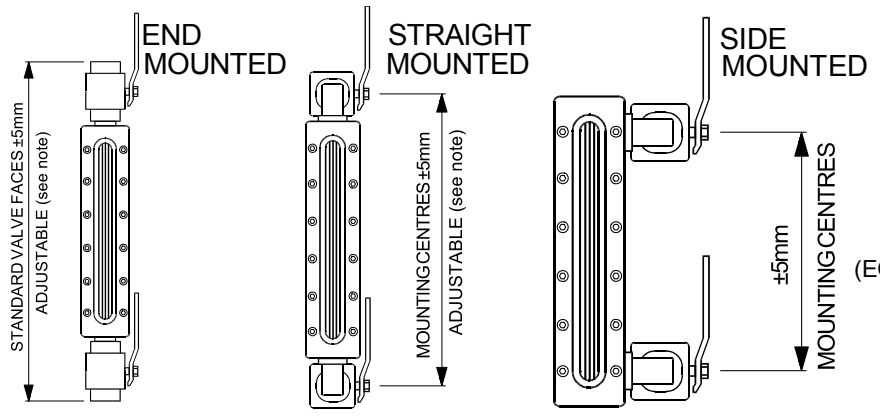
Low temperature applications:
A polycarbonate frost shield is available which enables the gauge to be used down to –30°C subject to fluid suitability.

Electronic & digital readout
Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented.

Graduation:
Where a measure of the precise storage volume is required an engraved scale plate can be provided marked with the capacity units.

Materials of construction

1	Sight tube	Toughened Borosilicate Reflex Glass
2	Guard tube	Stainless steel heavy duty front bezel
3	Seal	PTFE as standard (Other Elastomer Seals Available)
4	End Unit	Stainless steel



ISOLATING VALVES
SIDE MOUNTED
(EQUAL TO LENGTH OF VISION)

The Seetru '**G35**' Seemag® Magnetic Gauge

The Seetru Seemag® tank content indicator or gauge is a high quality yet economical magnetic level indicator. Its unique design offers considerable advantages over conventional magnetic gauges including accurate step-less reading with all round visibility and the option of high/low level alarms with remote digital reading.

G34 Reflex specifications

Connections	Threaded connections, flanged connections or stub pipe for welding
Lengths	Minimum: 500 mm Maximum: 5000 mm
Valve types	Valveless (¼ Turn ball isolation valves available)
Densities	0.6 to 2.0 SG.
Maximum Temperature	180°C
Maximum Pressure	22 bar

Magnetic bypass design
The gauge utilises a marker strip on a movable carriage fitted on the outside of a stainless steel tube, which by way of magnets moves up and down in unison with a float inside the tube. The marker strip is adjustable to suit the specific gravity of the liquid to be measured.

Ease of installation and maintenance
The Seemag liquid level gauge can be provided with a variety of end fittings to customer requirement. These include stub pipe for welding, ball valves, and flanges. The gauge is fitted with blanking plugs at the top and bottom of the gauge column. These can be easily removed to allow cleaning of the gauge column.

Tank calibration
A scale plate graduated in mm is incorporated into the Perspex front cover of the Seemag gauge. Other scale plates can be supplied graduated to customer requirement.

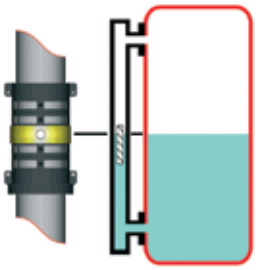
Tank connection
Seemag gauges are closed circuit design and both the top and bottom of the gauge is fitted to the tank.

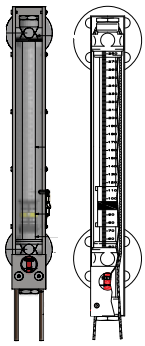
Alarms and electronic/digital outputs
Options available include electronic high and low level alarm sensors, continuous electronic read out signals and displays as well as a digital data feed for direct computer interfaces and digital control systems.

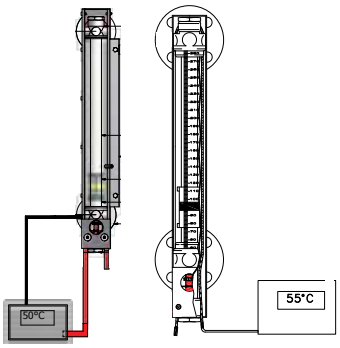
Heating system for high viscosity liquids
The Seemag gauge is available with an electrical, thermal oil and steam heating system. This heats the tube to allow the measurement of high viscosity fluids, such as heavy fuel oils on ships.

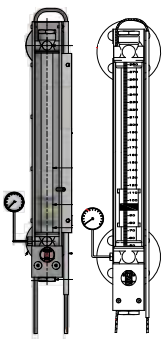
Materials of construction

1	Sight tube	Toughened Borosilicate Reflex Glass
2	Guard tube	Polycarbonate
3	Seal	PTFE
4	End Unit	Stainless steel









Other Products & Services from the Seetru Limited Organisation

The contents of this leaflet do not constitute an offer. SEETRU LIMITED reserve the right while maintaining the essential characteristics of the equipment and services described and illustrated to amend specification without notice.

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