

LGS

LIQUID
GAS
STEAM

Multi-Purpose Safety Relief Valves
for Liquid, Gas & Steam Applications





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 even at 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.

Our 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 (PED) and are available with both the CE mark as well as the UV stamp, and have wide international approvals such as the EAC (TR CU) customs union certification and declaration (Russia, Belarus and Kazakhstan) and the Canadian CRN.

Seetru also has a wide range of special purpose valves. The range includes [Change-Over Valves](#) (designed for switching parallel safety valves without interrupting operation), [Minimum Pressure Check Valves](#) (typically suitable for application on compressors), [Air-Start Valves](#) (designed to handle a two-stage operation for air starting of engines). We also manufacture a range of [Air Receiver & In-line Check Valves](#).

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 and Seemag for marine applications.

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

Overview

The Seetru LGS® Multi-Purpose Safety Relief Valve range represents state-of-the-art design with dual guided spindle as well as the Seetru Rock-Seal™ seal technology for repeatable high performance sealing. It is a high quality valve of modular design and construction incorporating the Seetru proprietary compact design technology – providing a highly cost-effective range of valve solutions. LGS® valves have a robust and reliable construction designed for the widest range of industrial applications. The LGS® range is suitable for a wide variation in flow characteristics, coping with both low volume and high relief capacity applications. The single trim design means that the components are all common across liquid, gas and steam; and that any LGS® valve can be used in any of these applications.



Valve Types

- LGS Safety Relief Valves: Equal inlet & outlet connections - Pages 3 & 4
- LGS HI-FLOW Safety Relief Valves: Larger outlet connections to enable larger flow - Pages 5 & 6

WRAS Approved



Made In The UK

- Cast materials: 100% EU Foundry
- Bar Materials: 100% sourced from within the EU
- PTFE Seals: 100% UK
- Supply Chain: Fully ISO9000 approved by EU domiciled notified bodies
- ALL Machining: Seetru Factory, Bristol, England.
- ALL Assembly & Testing: Seetru Factory, Bristol, England.
- ALL product research and development carried out by Seetru's own
- R&D department in the UK

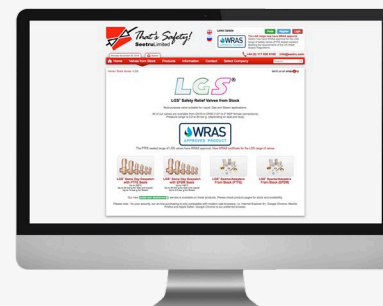


Same Day Despatch

To qualify for our same day despatch service you must place your order before 2pm on a Seetru business day, the total quantity of products (excluding spares) ordered must not exceed 8 otherwise a longer lead-time will apply. For large order quantities we suggest contacting us for a more accurate delivery schedule.

Look out for this logo: **SAME DAY DESPATCH** for available products

Please refer to our [terms and conditions](#) of sale for further details.





Multi-Purpose Safety Relief Valves,
for Liquid, Gas & Steam Applications



Features

- Bronze body with dezincification resistant brass wetted parts; stainless steel spring, spindle and seal retainer
- Size range DN15 to DN65 (½" BSP to 2½" BSP)
- Pressure Range: 0.2 to 24 bar g. (steam up to 14 bar g. with PTFE seals, contact Seetru for information on other seals)
- Temperature Range:-60°C to +200°C (with PTFE seals (EPDM-45°C to +140°C)
- Degrease for oxygen available on request
- PTFE or EPDM sealing as standard (other seal materials available upon request)
- Easy to fit spares kit
- Self-draining design
- Adaptors available to give male connections
- Open Lever or Sealed Cap
- Designed in accordance with the requirements of BS EN ISO 4126 Part 1 and CE marked as a Category IV Safety Accessory
- WRAS approved
- Available for quick delivery using our Same Day Despatch Service **SAME DAY DESPATCH**
- Supplied with Declaration of conformity, EN 10204 3.1 material certification available on request
- Test certificate supplied free of charge

Open Lever / Sealed Cap



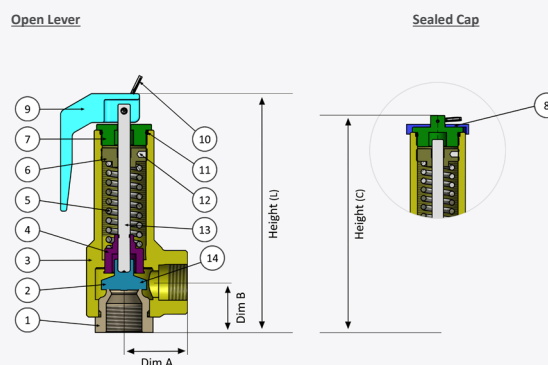
Applications

- Hot water, including boilers (vented and unvented)
- Steam boilers and steam plants
- Pump and thermal relief
- Bypass relief
- Process liquids and gases
- Pressure vessels and lines
- Heating and cooling systems
- Heat exchangers and industrial cooling systems
- Refrigeration systems
- Pressure booster systems
- Solar power systems
- District heating systems
- Water supply systems
- Sewage systems
- Pressure control and regulation
- Chemical plants
- District heating systems
- Ship building and marine applications

Materials of Construction

	COMPONENT	MATERIAL
1	Seat	Dezincification Resistant Material
2	Lift Aid Assembly	Dezincification Resistant Material
3	Body	Bronze CC491K / C83600
4	Piston	Dezincification Resistant Material
5	Spring	Steel 1.4401
6	Adjuster	Brass
7	Cap	Brass
8	Cover	Brass
9	Lever	Brass
10	Wire Lock	Steel & Lead
11	O-Ring	EPDM
12	Locking Slug	Nylon
13	Spindle	Stainless Steel
14	Seal	PTFE or EPDM

Dimensional Drawing



Dimensions

Size (Inlet x Outlet)	Dim A mm (inches)	Dim B mm (inches)	Height (L) mm (inches)	Height (C) mm (inches)
DN15 (½")	33.0 (1.29)	26.0 (1.02)	124.0 (4.88)	114.5 (4.51)
DN20 (¾")	37.0 (1.46)	32.0 (1.26)	130.0 (5.12)	120.5 (4.74)
DN25 (1")	42.0 (1.65)	37.0 (1.46)	156.0 (6.14)	146.5 (5.77)
DN32 (1 ¼")	50.0 (1.97)	42.0 (1.65)	174.0 (6.85)	164.5 (6.48)
DN40 (1 ½")	59.0 (2.32)	50.0 (1.97)	222.5 (8.76)	211.5 (8.33)
DN50 (2")	69.0 (2.72)	59.0 (2.32)	256.5 (9.70)	246.5 (9.70)
DN65 (2 ½")	78.0 (3.07)	83.5 (3.28)	320 (12.60)	310 (12.20)

Standards & Approvals

Name	Region	Logo	Description
PED	EU		PED approved to Category 4, Modules B and D (by TUV & Lloyds) In accordance with BS EN ISO 4126, CE-Marked as standard.
EAC	Russia, Belarus & Kazakhstan		EAC Customs Union Declaration TR TS 010-2011 & EAC Customs Union Certificate of Conformity TR TS 032-2013.
WRAS	UK		WRAS approved, meeting the requirements of the UK Water Supply Regulations.

Discharge capacity for WATER at 10% over-pressure ^{1,2}															Kdr = 0.26
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	DN Out	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	13.5		15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)
0.2	2.9	849.7	3.7	1097.2	4.8	1950.6	8.6	3047.8	13.4	4993.4	22.0	7802.3	34.4	12191.0	53.8
1.0	14.5	1899.9	8.4	2453.4	10.8	4361.6	19.2	6815.0	30.0	11165.7	49.2	17446.4	76.9	27260.0	120.2
2.0	29.0	2686.9	11.8	3469.6	15.3	6168.2	27.2	9637.9	42.5	15790.7	69.6	24672.9	108.8	38551.4	170.0
4.0	58.0	3799.8	16.8	4906.8	21.6	8723.2	38.5	13630.0	60.1	22331.4	98.5	34892.8	153.8	54520.0	240.4
6.0	87.0	4653.8	20.5	6009.6	26.5	10683.7	47.1	16693.3	73.6	27350.2	120.6	42734.7	188.4	66773.0	294.4
8.0	116.0	5373.8	23.7	6939.3	30.6	12336.5	54.4	19275.7	85.0	31581.3	139.2	49345.8	217.6	77102.9	340.0
10.0	145.0	6008.0	26.5	7758.3	34.2	13792.6	60.8	21550.9	95.0	35309.0	155.7	55170.3	243.3	86206.6	380.1
12.0	174.0	6581.5	29.0	8498.8	37.5	15109.0	66.6	23607.8	104.1	38679.1	170.5	60436.0	266.5	94431.3	416.4
15.0	217.5	7358.3	32.4	9502.0	41.9	16892.4	74.5	26394.4	116.4	43244.5	190.7	67569.6	297.9	105577.4	465.5
20.0	290.0	8496.7	37.5	10971.9	48.4	19505.7	86.0	30477.6	134.4	49934.5	220.2	78022.6	344.0	121910.3	537.5
24.0	348.0	9307.6	41.0	12019.1	53.0	21367.4	94.2	33386.5	147.2	54700.5	241.2	85469.5	376.9	133546.1	588.8

¹ Metric units are calculated to BS EN ISO4126-7:2013 and displayed in their customary units
² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units

Discharge capacity for HOT WATER at 10% over-pressure (Unvented Systems) ¹															Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	DN Out	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	13.5		15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec
0.2	2.9	21.1	20.0	27.2	25.8	48.4	45.9	75.7	71.7	124.0	117.5	193.7	183.6	302.7	286.9
1.0	14.5	36.2	34.3	46.7	44.2	83.0	78.7	129.7	122.9	212.5	201.4	332.0	314.6	518.7	491.6
2.0	29.0	55.0	52.1	71.0	67.3	126.2	119.6	197.2	186.9	323.1	306.2	504.8	478.4	788.7	747.6
4.0	58.0	92.6	87.8	119.6	113.3	212.6	201.5	332.2	314.9	544.3	515.9	850.4	806.0	1328.8	1259.4
6.0	87.0	130.2	123.5	168.2	159.4	299.0	283.4	467.2	442.8	765.5	725.5	1196.0	1133.6	1868.8	1771.3
8.0	116.0	167.9	159.1	216.8	205.5	385.4	365.3	602.2	570.8	986.7	935.2	1541.7	1461.2	2408.9	2283.2
10.0	145.0	205.5	194.8	265.4	251.6	471.8	447.2	737.2	698.8	1207.9	1144.8	1887.3	1788.8	2948.9	2795.0
12.0	174.0	243.2	230.5	314.0	297.6	558.2	529.1	872.2	826.7	1429.1	1354.5	2232.9	2116.4	3489.0	3306.9
15.0	217.5	299.6	284.0	386.9	366.7	687.8	652.0	1074.8	1018.7	1760.9	1669.0	2751.4	2607.8	4299.0	4074.7
20.0	290.0	393.7	373.2	508.4	481.9	903.9	856.7	1412.3	1338.6	2313.9	2193.1	3615.5	3426.8	5649.1	5354.4
24.0	348.0	469.0	444.5	605.6	574.0	1076.7	1020.5	1682.3	1594.5	2756.3	2612.5	4306.7	4082.0	6729.2	6378.1

¹ Calculations based on Hot Water at or above 100°C, using the Kdr of Gas
² Calculations are in accordance to BS EN ISO 4126-1:2004 National Annex NA

Discharge capacity for AIR at 10% over-pressure ^{1,2,3}															Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	DN Out	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	13.5		15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM
0.2	2.9	12.5	26.5	16.1	34.2	28.6	60.7	44.7	94.9	73.2	155.5	114.4	243.0	178.8	379.7
1.0	14.5	21.4	45.3	27.6	58.6	49.0	104.1	76.6	162.7	125.5	266.5	196.1	416.4	306.4	650.6
2.0	29.0	32.5	69.0	41.9	89.0	74.5	158.3	116.5	247.3	190.8	405.2	298.2	633.2	465.9	989.3
4.0	58.0	54.7	116.2	70.6	150.0	125.6	266.7	196.2	416.7	321.5	682.7	502.3	1066.7	784.9	1666.7
6.0	87.0	76.9	163.4	99.3	211.0	176.6	375.1	276.0	586.0	452.1	960.1	706.5	1500.2	1103.9	2344.1
8.0	116.0	99.2	210.6	128.1	271.9	227.7	483.4	355.7	755.4	582.8	1237.6	910.6	1933.7	1422.9	3021.5
10.0	145.0	121.4	257.8	156.8	332.9	278.7	591.8	435.5	924.7	713.5	1515.0	1114.8	2367.3	1741.9	3698.8
12.0	174.0	143.6	305.0	185.5	393.9	329.7	700.2	515.2	1094.1	844.1	1792.5	1318.9	2800.8	2060.9	4376.2
15.0	217.5	177.0	375.8	228.5	485.3	406.3	862.8	634.8	1348.1	1040.1	2208.7	1625.2	3451.1	2539.4	5392.3
20.0	290.0	290.0	493.8	300.3	637.7	533.9	1133.7	834.2	1771.4	1366.8	2902.3	2135.6	4534.9	3336.8	7085.7
24.0	348.0	277.0	588.3	357.7	759.6	636.0	1350.5	993.7	2110.1	1628.1	3457.2	2543.9	5401.9	3974.8	8440.5

¹ Metric units are calculated to BS EN ISO4126-7:2013 and converted to l/sec at 1.013 bar a. @ 15°C
² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units
³ To convert from l/sec (1.013 bar a. @ 15°C) to Nm³/hr (1.013 bar a. @ 0°C) multiply by 3.413

Discharge capacity for SATURATED STEAM at 10% over-pressure ^{1,2,3,4}															Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	DN Out	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	13.5		15		20		25		32		40 (mm)		50	
Set pressure (bar g.)	Set pressure (psi g.)	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr
0.2	2.9	29.1	74.2	37.6	95.8	66.9	170.4	104.5	266.2	171.3	436.2	267.6	681.6	418.2	1064.9
1.0	14.5	59.7	127.2	77.1	164.2	137.0	292.0	214.1	456.2	350.8	747.5	548.1	1167.9	856.4	1824.9
2.0	29.0	89.7	193.4	115.8	249.7	205.9	444.0	321.7	693.7	527.1	1136.6	823.6	1775.9	1286.8	2774.9
4.0	58.0	148.8	325.8	192.1	420.7	341.5	748.0	533.7	1168.7	874.4	1914.8	1366.2	2991.9	2134.7	4674.8
6.0	87.0	207.3	458.2	267.6	591.7	475.8	1052.0	743.4	1643.7	1218.0	2693.0	1903.1	4207.9	2973.7	6574.8
8.0	116.0	265.4	590.7	342.7	762.7	609.2	1356.0	951.9	2118.7	1559.5	3471.3	2436.8	5423.8	3807.5	8474.8
10.0	145.0	323.3	723.1	417.5	933.7	742.3	1660.0	1159.8	2593.7	1900.3	4249.5	2969.2	6639.8	4639.4	10374.7
12.0	174.0	381.1	855.5	492.1	1104.7	874.8	1963.9	1366.9	3068.7	2239.5	5027.7	3499.2	7855.8	5467.5	12274.7
14.0	203.0	438.9	987.9	566.7	1275.7	1007.5	2267.9	1574.2	3543.7	2579.2	5805.9	4030.0	9071.8	6296.9	14174.6

¹ Metric units are calculated to BS EN ISO4126-7:2013 and displayed in their customary units
² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units
³ Calculations for saturated steam only
⁴ PTFE seals up to 14 bar g., EPDM seals up to 2.5 bar g. - contact Seetru for details on maximum steam pressure for other seal materials





Multi-Purpose Safety Relief Valves,
for Liquid, Gas & Steam Applications

Features

- Bronze body with dezincification resistant brass wetted parts; stainless steel spring, spindle and seal retainer
- Size range DN15 to DN50 (½" BSP to 2" BSP)
- Pressure Range: 0.2 to 24 bar g. (steam up to 14 bar g. with PTFE seals, contact Seetru for information on other seals)
- Temperature Range: -60°C to +200°C (with PTFE seals (EPDM -45°C to +140°C))
- Degrease for oxygen available on request
- PTFE or EPDM sealing as standard (other seal materials available upon request)
- Easy to fit spares kit
- Self-draining design
- Adaptors available to give male connections
- Open Lever or Sealed Cap
- Designed in accordance with the requirements of BS EN ISO 4126 Part 1 and CE marked as a Category IV Safety Accessory
- WRAS approved
- Supplied with Declaration of conformity, EN 10204 3.1 material certification available on request
- Test certificate supplied free of charge

HI-FLOW

Open Lever / Sealed Cap



HI-FLOW

Applications

- Hot water, including boilers (vented and unvented)
- Steam boilers and steam plants
- Pump and thermal relief
- Bypass relief
- Process liquids and gases
- Pressure vessels and lines
- Heating and cooling systems
- Heat exchangers and industrial cooling systems
- Refrigeration systems
- Pressure booster systems
- Solar power systems
- District heating systems
- Water supply systems
- Sewage systems
- Pressure control and regulation
- Chemical plants
- District heating systems
- Ship building and marine applications

HI-FLOW

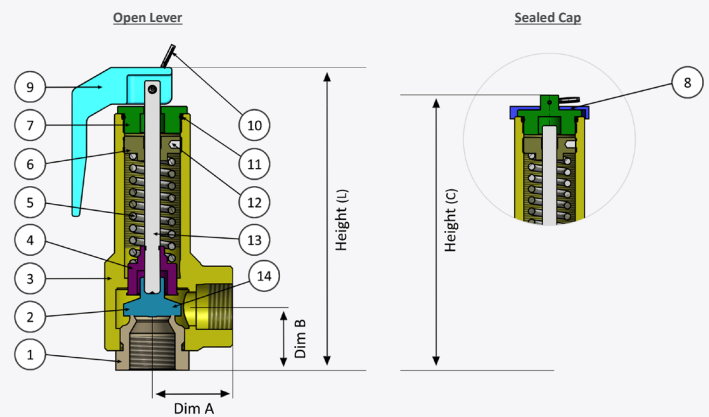
Materials of Construction

HI-FLOW

	COMPONENT	MATERIAL
1	Seat	Dezincification Resistant Material
2	Lift Aid Assembly	Dezincification Resistant Material
3	Body	Bronze CC491K / C83600
4	Piston	Dezincification Resistant Material
5	Spring	Steel 1.4401
6	Adjuster	Brass
7	Cap	Brass
8	Cover	Brass
9	Lever	Brass
10	Wire Lock	Steel & Lead
11	O-Ring	EPDM
12	Locking Slug	Nylon
13	Spindle	Stainless Steel
14	Seal	PTFE or EPDM

Dimensional Drawing

HI-FLOW



Dimensions

HI-FLOW

Size (Inlet x Outlet)	Dim A mm (inches)	Dim B mm (inches)	Height (L) mm (inches)	Height (C) mm (inches)
DN15 (½") x DN20 (¾")	37.0 (1.46)	32.0 (1.26)	130.0 (5.12)	120.5 (4.74)
DN20 (¾") x DN25 (1")	42.0 (1.65)	37.0 (1.46)	156.0 (6.14)	146.5 (5.77)
DN25 (1") x DN32 (1 ¼")	50.0 (1.97)	42.0 (1.65)	174.0 (6.85)	164.5 (6.48)
DN32 (1 ¼") x DN40 (1 ½")	59.0 (2.32)	50.0 (1.97)	222.5 (8.76)	211.5 (8.33)
DN40 (1 ½") x DN50 (2")	69.0 (2.72)	59.0 (2.32)	256.5 (9.70)	246.5 (9.70)
DN50 (2") x DN65 (2 ½")	78 (3.07)	83.5 (3.28)	320.0 (12.60)	310 (12.20)

Standards & Approvals

HI-FLOW

Name	Region	Logo	Description
PED	EU		PED approved to Category 4, Modules B and D (by TUV & Lloyds) In accordance with BS EN ISO 4126, CE-Marked as standard.
EAC	Russia, Belarus & Kazakhstan		EAC Customs Union Declaration TR TS 010-2011 & EAC Customs Union Certificate of Conformity TR TS 032-2013.
WRAS	UK		WRAS approved, meeting the requirements of the UK Water Supply Regulations.

HI-FLOW Discharge capacity for WATER at 10% over-pressure ^{1,2}													Kdr = 0.26
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")	
	DN Out	20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)	kg/hr	GPM (US)
0.2	2.9	1097.2	4.8	1950.6	8.6	3047.8	13.4	4993.4	22.0	7802.3	34.4	12191.0	53.8
1.0	14.5	2453.4	10.8	4361.6	19.2	6815.0	30.0	11165.7	49.2	17446.4	76.9	27260.0	120.2
2.0	29.0	3469.6	15.3	6168.2	27.2	9637.9	42.5	15790.7	69.6	24672.9	108.8	38551.4	170.0
4.0	58.0	4906.8	21.6	8723.2	38.5	13630.0	60.1	22331.4	98.5	34892.8	153.8	54520.0	240.4
6.0	87.0	6009.6	26.5	10683.7	47.1	16693.3	73.6	27350.2	120.6	42734.7	188.4	66773.0	294.4
8.0	116.0	6939.3	30.6	12336.5	54.4	19275.7	85.0	31581.3	139.2	49345.8	217.6	77102.9	340.0
10.0	145.0	7758.3	34.2	13792.6	60.8	21550.9	95.0	35309.0	155.7	55170.3	243.3	86206.6	380.1
12.0	174.0	8498.8	37.5	15109.0	66.6	23607.8	104.1	38679.1	170.5	60436.0	266.5	94431.3	416.4
15.0	217.5	9502.0	41.9	16892.4	74.5	26394.4	116.4	43244.5	190.7	67569.6	297.9	105577.4	465.5
20.0	290.0	10971.9	48.4	19505.7	86.0	30477.6	134.4	49934.5	220.2	78022.6	344.0	121910.3	537.5
24.0	348.0	12019.1	53.0	21367.4	94.2	33386.5	147.2	54700.5	241.2	85469.5	376.9	133546.1	588.8

¹ Metric units are calculated to BS EN ISO4126-7:2013 and displayed in their customary units

² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units

HI-FLOW Discharge capacity for HOT WATER at 10% over-pressure (Unvented Systems) ¹													Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")	
	DN Out	20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec	kW	BTU/sec
0.2	2.9	27.2	25.8	48.4	45.9	75.7	71.7	124.0	117.5	193.7	183.6	302.7	286.9
1.0	14.5	46.7	44.2	83.0	78.7	129.7	122.9	212.5	201.4	332.0	314.6	518.7	491.6
2.0	29.0	71.0	67.3	126.2	119.6	197.2	186.9	323.1	306.2	504.8	478.4	788.7	747.6
4.0	58.0	119.6	113.3	212.6	201.5	332.2	314.9	544.3	515.9	850.4	806.0	1328.8	1259.4
6.0	87.0	168.2	159.4	299.0	283.4	467.2	442.8	765.5	725.5	1196.0	1133.6	1868.8	1771.3
8.0	116.0	216.8	205.5	385.4	365.3	602.2	570.8	986.7	935.2	1541.7	1461.2	2408.9	2283.2
10.0	145.0	265.4	251.6	471.8	447.2	737.2	698.8	1207.9	1144.8	1887.3	1788.8	2948.9	2795.0
12.0	174.0	314.0	297.6	558.2	529.1	872.2	826.7	1429.1	1354.5	2232.9	2116.4	3489.0	3306.9
15.0	217.5	386.9	366.7	687.8	652.0	1074.8	1018.7	1760.9	1669.0	2751.4	2607.8	4299.0	4074.7
20.0	290.0	508.4	481.9	903.9	856.7	1412.3	1338.6	2313.9	2193.1	3615.5	3426.8	5649.1	5354.4
24.0	348.0	605.6	574.0	1076.7	1020.5	1682.3	1594.5	2756.3	2612.5	4306.7	4082.0	6729.2	6378.1

¹ Calculations based on Hot Water at or above 100°C, using the Kdr of Gas

² Calculations are in accordance to BS EN ISO 4126-1:2004 National Annex NA

HI-FLOW Discharge capacity for AIR at 10% over-pressure ^{1,2,3}													Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")	
	DN Out	20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM	l/sec	SCFM
0.2	2.9	16.1	34.2	28.6	60.7	44.7	94.9	73.2	155.5	114.4	243.0	178.8	379.7
1.0	14.5	27.6	58.6	49.0	104.1	76.6	162.7	125.5	266.5	196.1	416.4	306.4	650.6
2.0	29.0	41.9	89.0	74.5	158.3	116.5	247.3	190.8	405.2	298.2	633.2	465.9	989.3
4.0	58.0	70.6	150.0	125.6	266.7	196.2	416.7	321.5	682.7	502.3	1066.7	784.9	1666.7
6.0	87.0	99.3	211.0	176.6	375.1	276.0	586.0	452.1	960.1	706.5	1500.2	1103.9	2344.1
8.0	116.0	128.1	271.9	227.7	483.4	355.7	755.4	582.8	1237.6	910.6	1933.7	1422.9	3021.5
10.0	145.0	156.8	332.9	278.7	591.8	435.5	924.7	713.5	1515.0	1114.8	2367.3	1741.9	3698.8
12.0	174.0	185.5	393.9	329.7	700.2	515.2	1094.1	844.1	1792.5	1318.9	2800.8	2060.9	4376.2
15.0	217.5	228.5	485.3	406.3	862.8	634.8	1348.1	1040.1	2208.7	1625.2	3451.1	2539.4	5392.3
20.0	290.0	300.3	637.7	533.9	1133.7	834.2	1771.4	1366.8	2902.3	2135.6	4534.9	3336.8	7085.7
24.0	348.0	357.7	759.6	636.0	1350.5	993.7	2110.1	1628.1	3457.2	2543.9	5401.9	3974.8	8440.5

¹ Metric units are calculated to BS EN ISO4126-7:2013 and converted to l/sec at 1.013 bar a. @ 15°C

² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units

³ To convert from l/sec (1.013 bar a. @ 15°C) to Nm³/hr (1.013 bar a. @ 0°C) multiply by 3.413

HI-FLOW Discharge capacity for SATURATED STEAM at 10% over-pressure ^{1,2,3,4}													Kdr = 0.38
Valve size	DN In	15mm (½")		20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")	
	DN Out	20mm (¾")		25mm (1")		32mm (1¼")		40mm (1½")		50mm (2")		65mm (2½")	
	d _g (mm)	15		20		25		32		40		50	
Set pressure (bar g.)	Set pressure (psi g.)	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr
0.2	2.9	37.6	95.8	66.9	170.4	104.5	266.2	171.3	436.2	267.6	681.6	418.2	1064.9
1.0	14.5	77.1	164.2	137.0	292.0	214.1	456.2	350.8	747.5	548.1	1167.9	856.4	1824.9
2.0	29.0	115.8	249.7	205.9	444.0	321.7	693.7	527.1	1136.6	823.6	1775.9	1286.8	2774.9
4.0	58.0	192.1	420.7	341.5	748.0	533.7	1168.7	874.4	1914.8	1366.2	2991.9	2134.7	4674.8
6.0	87.0	267.6	591.7	475.8	1052.0	743.4	1643.7	1218.0	2693.0	1903.1	4207.9	2973.7	6574.8
8.0	116.0	342.7	762.7	609.2	1356.0	951.9	2118.7	1559.5	3471.3	2436.8	5423.8	3807.5	8474.8
10.0	145.0	417.5	933.7	742.3	1660.0	1159.8	2593.7	1900.3	4249.5	2969.2	6639.8	4639.4	10374.7
12.0	174.0	492.1	1104.7	874.8	1963.9	1366.9	3068.7	2239.5	5027.7	3499.2	7855.8	5467.5	12274.7
14.0	217.5	566.7	1275.7	1007.5	2267.9	1574.2	3543.7	2579.2	5805.9	4030.0	9071.8	6296.9	14174.6

¹ Metric units are calculated to BS EN ISO4126-7:2013 and displayed in their customary units

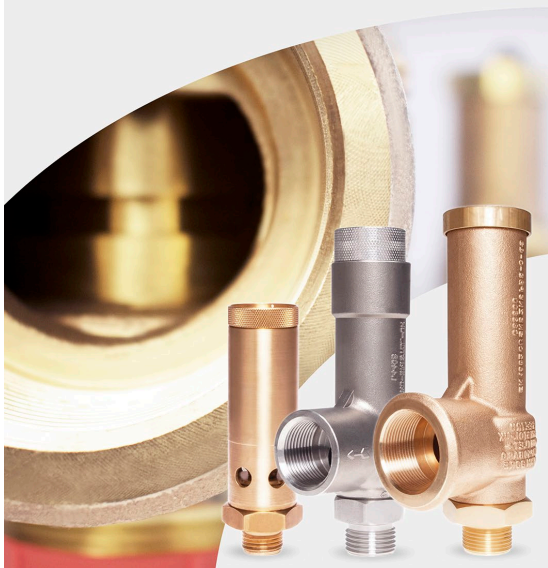
² Imperial units are calculated to ASME Section VIII Division 1 and displayed in their customary units

³ Calculations for saturated steam only

⁴ PTFE seals up to 14 bar g., EPDM seals up to 2.5 bar g. - contact Seetru for details on maximum steam pressure for other seal materials

Safety Relief Valves

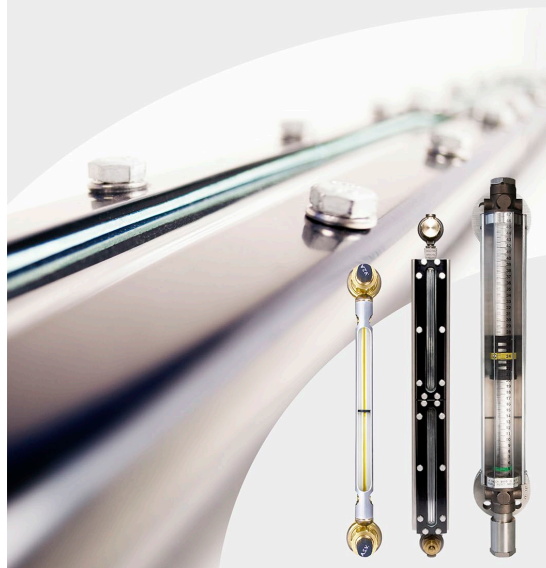
- Repeatable Bubble-Tight Sealing Performance



The Seetru range of Safety Relief Valves are compact, highly efficient and incorporate the exclusive Tutchtite seal technology for repeatable bubble-tight sealing performance: designed for applications including compressed air, industrial gas, refrigerants, powder, steam, liquid and liquefied gas. These valves are manufactured in bronze, brass or stainless steel and offer a wide range of connections, for applications up to 250°C

Liquid Level Gauges

- Sight Gauges and Magnetic Float By-Pass Gauges



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 and Seemag for marine applications.

Seetru Engineering Services

- Redefining Maintenance Standards -

LESER
AUTHORISED REPAIR CENTERS
LESER UK Bristol & Stockton-on-Tees

Seetru Engineering Services (SES) are the service arm of Seetru Limited who are a long established Safety Valve manufacturer of over 60 years. SES has been founded on the ability to react to customers individual requirements and to deliver total engineering solutions that improve the safety, quality, and value of our customer's activities.

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at a glance

LESER

The-Safety-Valve.com

A comprehensive range of flanged safety valves are available from Seetru's sister company Leser UK. LESER offers spring-loaded and pilot-operated safety valves for all industrial applications according to PED and ASME VIII as well as application-based solutions for special requirements.