Seetru Limited

Seetru are Bristol-based 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. Seetru change-over valves offer increased plant and process efficiency.

Seetru liquid level gauges are primarily of two types, sight gauges and magnetic float bypass gauges. Many of the gauges are direct reading though most have optional electronic remote reading systems and computer interfaces.



Seetru Products

for the Cryogenic and Liquefied Gas Industry

CRYOGENIC AND LIQUEFIED GAS





Edition 4 (18.1.2024)

Seetru Limited

Solution for the Cryogenic & Liquefied Gas Industry



Suitable for the following applications:

- Pressure Vessels
- Liquefied Gases
- Medical Gases
- Natural Gas CNG/LNG
- Technical Gases
- NGV Filling StationsGas Storage
- Cryogenic Systems
- The Seetru range of safety valves for cryogenic & liquefied gas applications are built using Seetru sealing technology, suitable for temperatures down to-196°C, and pressures up to 1100 bar (depending on the specific model). Available with Elastomer Rubber, PTFE, PPS, metal-to-metal or ceramic sealing.

These valves are manufactured to meet demanding applications which include being used on pressure vessels/receivers, pressure equipment and piping, cryogenic plants including oxygen and special gases, cryogenic compressor applications, container lorry/cryogenic trailers, industrial freezing, liquefied gas storage and fire fighting equipment. They are also widely used for natural gas systems including Natural Gas Vehicle (NGV) filling stations for CNG/LNG.

These valves meet important international standards which include: ISO-4126-1 &-7 and ASME BPVC VIII.1 & XIII design codes as well as type test approvals from TÜV and the National Board. These 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 and the Canadian CRN. Seetru products are fully compliant with the requirements of the UK Pressure Equipment (Safety) Regulations and come with the UKCA mark.

Change-over valves (sometimes referred to as selector valves or three-way valves) enables the switching of flow from one safety valve to another. Typically used where plant shutdown is impossible or undesirable for process, engineering or commercial reasons. With change-over valves it is possible to switch over between parallel safety valves without interrupting operation, so that maintenance work can be carried out on each safety valve in turn. Seetru change-over valves in combination with our safety valves provide the best solution for plant safety and efficiency. Seetru products are widely recognised for their exceptional quality and reliability.



Seetru Safety Relief Valves

for Cryogenics and Liquefied Gases

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Туре	Product / Design	Materials	Pressure Range	Details	Page
346 / 356	Enclosed Discharge Safety Valve Threaded connections	Bonze or Stainless steel construction with PTFE sealing	0.83 to 30.76 bar	10mm Nominal Bore Suitable for-196°C to +50°C	4,5,6
329	Enclosed Discharge Safety Valve Threaded connections	Bronze or Stainless steel construction with PTFE or PPS sealing	53.0 to 370.0 bar	6mm Bore Suitable for-196°C to +70°C	7, <u>8,9</u>
936	Enclosed Discharge Safety Valve Threaded connections	Bronze or Stainless steel body & brass inlet with Metal to Metal sealing	0.3 to 28.0 bar (depending on valve bore size)	10mm, 15mm, 20mm or 25mm Bore Suitable for-196°C to +250°C	10,11,12
636	Enclosed Discharge Safety Valve Threaded connections	Bronze body with elastomer rubber sealing	0.32 to 55.2 bar (depending on bore size)	10mm, 13mm, 18mm, 20mm or 25mm Nominal Bore Suitable for-40°C to +200°C	13,14,15
646	Enclosed Discharge Safety Valve Threaded connections	Stainless Steel with elastomer rubber sealing	0.32 to 55.2 bar (depending on bore size)	10mm, 13mm, 18mm, 20mm or 25mm Nominal Bore Suitable for-40°C to +200°C	16,17,18
359	Enclosed Discharge Safety Valve Flanged connections	Stainless Steel with Metal to Metal sealing	35.0 to 500.0 bar	4.6mm Nominal Bore Suitable for-50°C to +200°C	19,20,21
946 Flanged	Enclosed Discharge Safety Valve Flanged connections	Stainless steel construction with metal to metal sealing	0.3 to 28.0 bar	10mm or 15mm Nominal Bore Suitable for-50°C to +250°C	22,23,24
COV10	Change Over Valve	Stainless steel construction with PTFE sealing	For Safety valves with set pressure up to 75.0 bar g	Suitable for Safety Relief Valves with up to 10mm bore (Full Lift Type)	25,26,27
COV13	Change Over Valve	Stainless steel construction with PTFE or Elastomer sealing	For Safety valves with set pressure up to 65.0 bar g	Suitable for Safety Relief Valves with up to 10mm bore (Full Lift Type)	25,26,27
COV30	Change Over Valve	Stainless steel construction with PTFE sealing	For Safety valves with set pressure up to 100.0 bar g	Suitable for Safety Relief Valves with up to 18mm bore (Full Lift Type)	25,26,27



for compressed air or gases

cryogenic & liquefied gas refrigeration

Seetru Limited

Type 346 / 356

Safety valves with either Bronze or Stainless Steel body < Enclosed discharge valve with threaded connections <

Example Applications

- Air/Gas systems
- Pressure vessels
- Medical gases
- Technical Gases
- CO2 refrigeration
- Ammonia refrigeration (34610)
- Cryogenic applications
- Liquefied gases

Specifications

- Inlet connections: 3/8" to 3/4"
- Temperature range:-196°C to +50°C
- Pressure range: 0.83 to 30.76 bar

Materials of Construction



Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- EAC
- Materials meet the requirements of BAM for oxygen service.

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Temperature Range
-196°C to +50°C

Standard seal materials shown, others are available.

Top Fitting Options

- **Standard Option** Sealed Cap (gas tight cap) - Other options: Sealed lever (gas tight)









Component	Material	Grade	
Inlet	Stainless Steel	1.4401 (316)	
Body	356 Valve = Bronze	C83600	
	346 Valve = Stainless Steel	1.4408 (316)	
Internal Parts	356 Valve = Brass	BS2874 CZ121	
	346 Valve = Stainless Steel	1.4401 (316)	
Spring	Stainless Steel	1.4310 (302)	



Valve drawing

Bore size	9.5mm (34610)			9.5mm (35610)			
Inlet Size	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"	
Outlet Size		3/4"			3/4"		
Flow Area	70.9mm ² 70.9mm ²						
H - Height (Rota-lift cap version)		113mm		99mm			
TÜV alloted outflow coefficient	0.77 above 1.55 bar (contact Seetru for below 1.55 bar)			0.77 above 1.55 bar (contact Seetru for below 1.55 bar)			
Weight (approximate) Kg	0.7 (3	.0 to 30.76 bar)		0.7 (3.0 to 30.76 bar)		6 bar)	
Set Pressure range - PED (CE) bar	0.8			0.8			
Relieving pressure/fully open pressure	Set pressure +10%						
Reseating pressure	Set pressure -10%						

Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced. Stable operation on flows down to 50% of valve rated capacity.

Standard Thread Connection Types

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

Standard Outlet Connection Types

- BSP Parallel female thread
- NPT female thread

Valve Selection Guide

Body Material	Valve Type	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
Stainless Steel	346	0.5	Select inlet size from above table	Select Inlet thread	Select Outlet		DIFE
Bronze	356	9.5mm		type	thread type	Sealed cap	PIFE

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Exampl	e of Valve	Selection	Process						\ ↓
Fxample	Bronze	356	9.5	1/2"	NPT	NPT	Sealed Cap	PTFE	23.5 bar
Selection	Body Material	Valve Type	Bore = 9.5mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Top Fitting	Seal	Set Pressure



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		Bore Size (D0)		
Set Pressure		9.5mm		
bar	psi	Nm³∕Hour		
0.83	12.04	63.8		
1.0	14.50	71.4		
2.0	29.00	119.4		
3.0	43.50	160.3		
4.0	58.00	201.3		
5.0	72.50	242.1		
6.0	87.00	283.0		
7.0	101.50	323.9		
8.0	116.00	364.8		
9.0	130.50	405.7		
10.0	145.00	446.6		
15.0	217.50	651.1		
20.0	290.00	855.5		
25.0	362.50	1060.0		
30.0	435.00	1264.5		
30.76	446.02	1295.6		



for compressed air or gases

cryogenic & liquefied gas refrigeration

hydrogen

Seetru Limited



Safety valves with either Bronze or Stainless Steel body < Enclosed discharge valve with threaded connections <

Example Applications

- Air/Gas systems •
- Natural Gas
- CNG/LNG
- Pressure vessels •
- Medical gases
- **Technical Gases** •
- CO2 refrigeration •
- Ammonia refrigeration (Stainless steel) •
- Cryogenic applications
- Liquefied gases

Specifications

- Inlet connections: 3/8" to 3/4"
- Temperature range:-196°C to +70°C
- Pressure range: 53.0 to 370.0 bar





Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
 - ASME BPVC VIII.1 & XIII (UV)
- EAC
- CRN



Seal Materials

Seal Material	Temperature Range
PTFE (up to 202 bar) PPS (202 to 370 bar)	-196°C to +70°C

Standard seal materials shown, others are available.

Top Fitting Options

- Standard Option Sealed Cap (gas tight cap)





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Bore size	6mm					
Inlet Size	3/8"	1/2"	3/4"			
Outlet Size		3/4"				
Flow Area		28.2mm ²				
H - Height	100mm (53.0 to 240.0 bar) 114mm (240.0 to 370.0 bar)					
TÜV alloted outflow coefficient	0.77					
NB Certified rated slope (ASME)	0.7scfm/psia					
Weight (approximate) Kg		0.8				
Set Pressure range - PED (CE) bar		53.0 to 370.0				
Set Pressure range - ASME (UV) psi	768.5 to 5365.0					
Relieving pressure/fully open pressure	Set pressure +10%					
Reseating pressure	S	et pressure -159	%			

Valve drawing



Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced.

Standard Thread Connection Types

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

Standard Outlet Connection Types

- BSP Parallel female thread
- NPT female thread

Valve Selection Guide

Valve Type	Body Material	Approval Required	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
329 Stainless Steel Bronze	Stainless Steel	PED (CE)		Select inlet size	Calaatulat			
	Bronze	PED (CE), ASME (UV, NB), CRN	6mm	from above table	thread type	thread type	Sealed cap	PTFE

EAC marking available upon request

Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time

Example of Valve Selection Process										_ ↓
Evample	Bronze	329	PED (CE)	6	1/2"	NPT	NPT	Sealed Cap	PTFE	175 bar
Selection	Body Material	Valve Type	Approval	Bore = 6mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Top Fitting	Seal	Set Pressure



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Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 329: Flow rates at 10% above the set pressure

Set Pressure		Bore Size (D0)		
		6mm		
bar	psi	Nm³∕Hour		
53	768.5	879.6		
60	870.0	993.8		
70	1015.0	1156.9		
80	1160.0	1320.0		
90	1305.0	1483.1		
100	1450.0	1646.3		
150	2175.0	2461.9		
200	2900.0	3277.5		
250	3625.0	4093.1		
300	4350.0	4908.7		
350	5075.0	5724.4		
370	5365.0	6050.6		

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with ASME BPVC.XIII, AIR at 60°F and 14.7 psia/scfm. SCFM Type 329: Flow rates at 10% above the set pressure

		Bore Size (D0)		
Set Pressure		6mm		
psi	bar	SCFM		
768.5	53	602		
870	60	680		
913.5	63	714		
1203.5	83	937		
1305	90	1015		
1450	100	1127		
2175	150	1685		
2900	200	2243		
2929	202	2266		
3480	240	2690		
3625	250	2802		
4350	300	3360		
5075	350	3918		
5365	370	4141		



for compressed air or gases

cryogenics & liquefied gases

Seetru Limited

Type 936 Threaded

Safety valves made with brass inlets< Enclosed discharge valve with threaded connections< Metal to metal sealing<

Example Applications

- Air / gas compressors
- Pressure vessels
- Medical gases/Technical gases
- Thermal relief
- Steam systems

Specifications

- Inlet connections: 1/2" to 2" threaded connections (depending on valve bore size) (for flanged connections see 946 Flanged datasheet).
- Temperature range:-196°C to +250°C (depending on body o'ring material)
- Pressure range: 0.3 to 28.0 bar (depending on valve bore size)

Materials of Construction

Component	Material	Grade
Inlet	Brass	CZ132 / CW602N
Outlet Body (10mm bore valve)	Bronze	SB-62 C8360
Outlet Body (15, 20 & 25mm bore valves)	Stainless Steel	1.4408 (316)
Spring	Stainless Steel	1.4310 (302)
Disc	Stainless Steel	1.4401 (316)



Approvals

hydrogen

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- EAC
- Leak tightness at 90% set pressure to API 527 and in accordance with EN ISO 4126-1
- Materials meet the requirements of BAM (Germany) for oxygen service

C€ 5₽ E₩

Seal Materials

This valve using metal to metal sealing. There is a choice of o'ring used for the sealed cap/lever.

O'ring material	Temperature Range
Viton [®] (FKM)	-20°C to +250°C
Nitrile (NBR)	-196°C to +150°C
Silicone	-50°C to +250°C
PTFE	-196°C to +250°C
EPDM	-40°C to +150°C

-196°C is only suitable for sealed cap/sealed lever valves Standard seal materials shown, others are available.



Easing Gear / Lifting Gear / Top Fitting Options

Sealed Cap (gas tight cap)



- Sealed lever (gas tight)
- Rota-lift (not gas tight)



Open Lever (not gas tight)





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Bore size	10mm (93610)		15	imm (9361	5)	20mm (93620)				25mm (93625)				
Inlet Size	1/2" 3/4"	1"	1"	1 1/4"	1 1/2"	1"	1 1/4"	1 1/2"	1"	1 1/4"	1 1/2"	2"		
Outlet Size	1"		1 1/2"			2"			2"					
Flow Area	78.5mm²	78.5mm²			177mm²			314mm²			491mm²			
H - Height (Sealed Lever version)	114mm	114mm			168mm				225mm					
TÜV alloted outflow coefficient	0.85 (0.7 below 0.8 l	bar)	0.85 (0.7 below 0.8 bar)			0.85 (0.7 below 0.8 bar)			0.85	(0.7 be	low 0.8	bar)		
Weight (approximate) Kg	1.0			2.1		3.5			4.2					
Set Pressure range - PED (CE) bar	0.3 to 28.0	0.3 to 28.0			0.3 to 28.0			0.3 to 20.0						
Relieving pressure/fully open pressure					Set pressure +10% (0.1 bar below 1.0 bar)									
Reseating pressure			:	Set pressur	e -10% (0.3	bar below	3.0 bar)	Set pressure -10% (0.3 bar below 3.0 bar)						

• TÜV alloted outflow coefficients for pressures above 3.0/4.0 bar, for lower pressures please see the flow rate tables or contact Seetru.

- Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced.
- Stable operation on flows down to 50% of valve rated capacity.
- Leak tightness at 90% set pressure to API 527 and in accordance with EN ISO 4126-1

Valve Drawing



- BSP parallel male thread
- BSP taper male thread
- NPT male thread
- BSP parallel female thread (limited option)

Standard INLET Connection Types

Standard OUTLET Connection Types

• BSP parallel female thread

Valve Selection Guide

Valve type	Select Bore	Inlet Size	Inlet Thread Type	Top Fitting	O'ring material (for cap)	Set pressure	
936	Select bore size from above table	Select inlet size from above table	Select Inlet Thread type	Select easing gear/top fitting	See table	Set pressure from available range	

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Example of Valve Selection Process

Fxample	936	15	1"	BSP parallel	Rota Lift	Viton	17.5 bar
Selection	Valve Type	Bore = 15mm	Inlet Size	Inlet Thread Type	Top Fitting	O'ring	Set Pressure



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Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 936: Flow rates at 10% above the set pressure



	1	Bore Size (D0)			
Set Pressure		10mm	15mm	20mm	25mm
bar	psi	Nm³/Hour	Nm³/Hour	Nm³/Hour	Nm³/Hour
0.3	4.35	48.5	109.2	194.2	303.5
0.5	7.25	59.0	132.9	236.2	369.1
1	14.5	96.1	216.2	384.4	600.6
2	29	146.1	328.7	584.4	913.2
3	43.5	196.1	441.3	784.5	1225.8
4	58	246.1	553.8	948.6	1538.4
5	72.5	296.1	666.4	1184.7	1851.1
6	87.00	346.2	778.9	1384.8	2163.7
7	101.5	396.2	891.4	1584.8	2476.3
8	116	446.2	1004.0	1784.9	2788.9
9	130.5	496.2	1116.5	1985.0	3101.6
10	145	546.7	1229.1	2185.1	3414.2
15	217.5	796.3	1791.8	3185.5	4977.3
20	290	1046.4	2354.6	4185.9	6540.4
25	362.5	1296.5	2917.3	5186.3	
28	406	1446.6	3254.9	5786.5	

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with TÜV, STEAM. Kg/hour Type 936: Flow rates at 10% above the set pressure

		Bore Size (D0)			
Set Pressure		10mm	15mm	20mm	25mm
bar	psi	Kg/hour of Steam	Kg/hour of Steam	Kg/hour of Steam	Kg/hour of Steam
0.3	4.35	37.6	84.5	150.2	234.7
0.5	7.25	46.6	104.8	186.3	291.1
1	14.5	76.6	172.5	306.6	479.0
2	29	115.1	259.0	460.5	719.5
3	43.5	153.2	344.6	612.7	957.4
4	58	190.9	429.7	763.9	1193.7
5	72.5	228.6	514.3	914.4	1428.7
6	87.00	266.1	598.6	1064.2	1662.9
7	101.5	303.4	682.6	1213.5	1896.2
8	116	340.6	766.5	1362.6	2129.1
9	130.5	377.9	850.4	1511.8	2362.2
10	145	415.1	933.9	1660.4	2594.4
15	217.5	600.3	1350.7	2401.3	3752.0
20	290	785.4	1767.2	3141.7	4909.0
25	362.5	970.5	2183.7	3882.2	
28	406	1081.9	2434.4	4327.9	



Seetru Limited

for compressed Air & Gas

hydrogen

cryogenic & liquefied gas

Туре 636 / 631

Safety valves with bronze body < Enclosed discharge valve with threaded connections <

Example Applications

- Air / gas compressors •
- Pressure vessels
- Pneumatic systems
- Medical gases
- Technical gases

Specifications

Materials of Construction

- Inlet connections: 3/8" to 2" (depending on bore size) •
- Temperature:-40°C to +200°C (depending on seal material) •
- Pressure range: 0.32 to 55.2 bar (depending on bore size)

Component	Material	Grade
Inlet	Brass	CW614N
	Stainless Steel	1.4401 (316)
Body	Bronze	CC491K SB-62 C83600
Internal parts	Brass	CW614N
	Stainless Steel	1.4401 (316)
Spring	Stainless Steel	1.4310 (302)

Easing Gear / Lifting Gear Options

Standard option: Rota-lift, twist type (not gas tight)



Other Options:







Sealed Cap (gas tight cap)

Unsealed lever (not gas tight)

Sealed lever (gas tight)



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Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- ASME BPVC VIII.1 & XIII (UV)
- CRN
- EAC



Seal Materials	
Seal Material	Temperature Range
Viton® (FKM)	-15°C to +200°C
Nitrile (NBR)	-40°C to +120°C

Standard seal materials shown, others are available.



Bore size		9.5/10mm			13.7mm			17mm			20mm		25mm			
Inlet Size	3/8"	1/2"	3/4"	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	1"	1 1/4"	1 1/2"	1 1/4"	1 1/2"	2"	
Outlet Size		3/4"			1"		1 1/2"			2"			2"			
Flow Area	(a	70.9mm² bove 1.55 ba	r)		147.7mm²		227mm ²			314mm²			490.4mm ²			
H - Height (Rota-lift cap version)	102m 116m	m (up to 3 im (33-55.)	3 bar) 2 bar)	143m 172.5	143mm (up to 35 bar) 172.5mm (35-49 bar)			204mm			227mm			252mm		
TÜV alloted outflow coefficient		0.78		0.71			0.74 (1.0 to 2.4 bar) 0.84 (2.4 to 35.0 bar)			0.76 (3.0 to 22.0 bar) 0.80 (22.0 to 35.0 bar)			0.85			
NB Certified rated slope (ASME)	1.	74 scfm/ps	ia	3.	47 scfm/ps	ia	5.60 scfm/psia			7.77 scfm/psia			12.26 scfm/psia			
Weight (approximate) Kg		0.8			1.1			3.6			4.0			5.1		
Set Pressure range - PED (CE) bar	().48 to 55.:	2	(0.32 to 49.0 1.0 to 35.0 3.0 to 35.0 5.65 to						.65 to 30.0)				
Set Pressure range - ASME (UV) psi	2	2.5 to 800.	4	2	20.3 to 710.5 34.8 to 507.5 43.5 to 507.5 82.0 to 435						0					
Relieving pressure/fully open pressure		Set Pressure +10%														
Reseating pressure		Set Pressure -10% (0.3 bar minimum)														

Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced. Stable operation on flows down to 50% of valve rated capacity.

Standard Thread Connection Types

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

Standard Outlet Connection Types

BSP Parallel female thread

Valve Selection Guide

• NPT female thread



Approval Required	Valve type	Select Bore	Inlet Size	Thread Type	Outlet Thread Type	Easing Gear	Seal Material
	636 (Brass inlet)			Select Inlet thread type	Select Outlet thread type	Select easing gear/top fitting	Viton® (FKM)
PED (CE)	656 (St. Steel inlet	Select bore size	Select inlet size				Nitrile (NRB)
	631 (Brass inlet)	from above table	from above table				
PED (CE), ASME (UV) & CR	651 (St. Steel inlet						Other

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Example of Valve Selection Process

Fxample	CE/PED	636	20	1 1/2"	BSP Taper	BSP parallel	Rota-lift	Viton	10.5 bar
Selection	Approval	Valve Type	Bore = 20mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal	Set Pressure



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Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 636/656: Flow rates at 10% above the set pressure

Set Dressure	Set Pressure					
Set Pressure		9.5mm	13.7mm	17mm	20mm	25mm
bar	psi	Nm³∕Hour	Nm³/Hour	Nm³/Hour	Nm³∕Hour	Nm³/Hour
0.32	4.64		114.2			
0.48	6.96	48.9	124.5			
1	14.5	76.9	164.9	241.8		
2	29	121.0	229.1	367.6		
3	43.5	162.4	307.5	560.2	701.4	
4	58	203.8	385.9	703.0	880.3	
5	72.5	245.3	464.3	845.9	1059.2	
5.65	81.93	272.2	515.3	938.7	1175.5	2054.3
6	87	286.7	542.7	988.7	1238.2	2163.7
7	101.5	328.1	621.2	1131.6	1417.0	2476.4
8	116	369.5	699.6	1274.5	1596.0	2789.0
9	130.5	410.9	778.0	1417.3	1774.9	3101.7
10	145	452.4	856.4	1560.2	1953.8	3414.3
15	217.5	659.5	1248.5	2274.5	2848.2	4977.5
20	290	866.6	1640.6	2988.7	3742.8	6540.7
25	362.5	1073.8	2032.7	3703.0	4881.2	8103.9
30	435	1280.9	2424.8	4417.3	5823.0	9667.1
35	507.5	1488.1	2816.9	5131.6	6764.6	
40	580	1695.2	3209.0			
45	652.5	1902.3	3601.1			
49	710.5	2068.0	3914.8			
50	725	2109.4				
55.2	800.4	2324.8				

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with ASME BPVC.XIII, AIR at 60°F and 14.7 psia/scfm. SCFM Type 631/651: Flow rates at 10% above the set pressure

		Bore Size (D0)				
Set Pressure		9.5mm	13.7mm	17mm	20mm	25mm
psi	bar	SCFM	SCFM	SCFM	SCFM	SCFM
20.3	1.40		131.9			
22.5	2.50	68.7	139.4			
30	2.07	81.5	165.5			
34.8	2.80	90.6	183.8	296.7		
40	2.76	100.4	203.7	328.7		
43.5	3.00	106.9	217.0	350.2	486.0	
50	3.45	119.2	241.8	390.3	541.5	
82	5.66	179.3	363.9	587.3	814.9	1285.8
100	6.90	213.2	432.6	698.1	968.7	1528.4
150	10.34	307.2	623.4	1006.1	1395.9	2202.6
200	13.79	401.2	814.2	1314.0	1823.2	2876.8
250	17.24	495.3	1005.0	1621.9	2250.4	3550.8
300	20.69	589.3	1195.8	1929.8	2677.6	4224.9
350	24.14	683.3	1386.6	2237.8	3104.9	4899.1
400	27.59	777.4	1577.4	2545.7	3532.2	5573.3
435	30.00	843.2	1711.0	2761.2	3831.2	6045.2
450	31.03	871.4	1768.2	2853.6	3959.3	
500	34.48	965.4	1959.0	3161.5	4386.6	
507.5	35.00	979.5	1987.6	3207.7	4450.7	
550	37.93	1059.4	2149.8			
600	41.38	1153.4	2340.6			
650	44.83	1247.5	2531.4			
700	48.28	1341.5	2722.2			
710.5	49.00	1361.3	2762.3			
750	51.72	1435.5				
800.4	55.20	1530.3				

For any intermediate pressures/flows please contact Seetru





for compressed Air & Gas

hydrogen

Seetru Limited

Type 646 / 641

Safety valves with Stainless Steel body < Enclosed discharge valve with threaded connections <

Example Applications

- Air / gas compressors •
- Pressure vessels .
- Pneumatic systems
- Medical gases
- Technical gases

Specifications

Inlet

Body

Spring

Internal Parts

Materials of Construction

Inlet connections: 3/8" to 2" (depending on bore size) •

Stainless Steel

Stainless Steel

Stainless Steel

Stainless Steel

1.4401 (316)

1.4408 (316)

1.4401 (316)

1.4310 (302)

- Temperature:-40°C to +200°C (depending on seal material) •
- Pressure range: 0.32 to 55.2 bar (depending on bore size)



Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- ASME BPVC VIII.1 & XIII (UV)
- CRN
- EAC



Seal Materials	Ľ. ↓
Seal Material	Temperature Range
Viton [®] (FKM)	-15°C to +200°C
Nitrile (NBR)	-40°C to +120°C

Standard seal materials shown, others are available.



Standard option: Rota-lift cap, twist type (not gas tight)



Sealed Cap (gas tight cap)

Sealed lever (gas tight)



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Bore size		9.5/10mm			13.7mm			17mm			20mm			25mm	
Inlet Size	3/8"	1/2"	3/4"	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	1"	1 1/4"	1 1/2"	1 1/4"	1 1/2"	2"
Outlet Size		3/4"			1"			1 1/2"			2"		2"		
Flow Area	(a	70.9mm² (above 1.55 bar)			147.7mm ² 227mm		227mm²		314mm²			490.4mm²			
H - Height (Rota-lift cap version)		116mm		143mm (up to 35 bar) 172.5mm (35-49 bar)			211mm			227mm		252mm			
TÜV alloted outflow coefficient		0.78		0.71			0.74 (1.0 to 2.4 bar) 0.84 (2.4 to 35.0 bar)		bar) bar)	0.76 (3.0 to 22.0 bar) 0.80 (22.0 to 35.0 bar)) bar) 0 bar)	0.85		
NB Certified rated slope (ASME)	1.	74 scfm/ps	ia	3.4	47 scfm/p	sia	5.60 scfm/psia		ia	7.77 scfm/psia		sia	12.26 scfm/psia		
Weight (approximate) Kg		0.8			1.1		3.6			4.0				5.1	
Set Pressure range - PED (CE) bar	().48 to 55.2	2	C).32 to 49.	0	:	1.0 to 35.0			3.0 to 35.0)	5	.65 to 30.0	
Set Pressure range - ASME (UV) psi	2	2.5 to 800.	4	20.3 to 710.5			34.8 to 507.5			43.5 to 507.5		82.0 to 435.0			
Relieving pressure/fully open pressure	Set Pressure +10%														
Reseating pressure							Set I	Pressure -:	10%						

Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced. Stable operation on flows down to 50% of valve rated capacity.

Standard Thread Connection Types

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

Standard Outlet Connection Types

- BSP Parallel female thread
- NPT female thread





Valve Selection Guide

Approval Required	Valve type	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
PED (CE)	646	Select hore size	Select inlet size	Select Inlat	Select Outlet	Select easing	Viton [®] (FKM)
PED (CE), ASME		from above table	from above table	thread type	thread type	gear/top fitting	Nitrile (NRB)
(UV) & CRN	641						Other

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Exampl	e of Valve	Selection	Process						
Example	PED, ASME & CRN	641	20	1 1/2"	BSP Taper	BSP parallel	Rota-lift	Viton	10.5 bar
Selection	Approval	Valve Type	Bore = 20mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal	Set Pressure



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Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 646: Flow rates at 10% above the set pressure

Set Pressure		Bore Size (D0)				
Set Flessule		9.5mm	13.7mm	17mm	20mm	25mm
bar	psi	Nm³/Hour	Nm³/Hour	Nm³/Hour	Nm³/Hour	Nm³/Hour
0.32	4.64		114.2			
0.48	6.96	48.9	124.5			
1	14.5	76.9	164.9	241.8		
2	29	121.0	229.1	367.6		
3	43.5	162.4	307.5	560.2	701.4	
4	58	203.8	385.9	703.0	880.3	
5	72.5	245.3	464.3	845.9	1059.2	
5.65	81.93	272.2	515.3	938.7	1175.5	2054.3
6	87	286.7	542.7	988.7	1238.2	2163.7
7	101.5	328.1	621.2	1131.6	1417.0	2476.4
8	116	369.5	699.6	1274.5	1596.0	2789.0
9	130.5	410.9	778.0	1417.3	1774.9	3101.7
10	145	452.4	856.4	1560.2	1953.8	3414.3
15	217.5	659.5	1248.5	2274.5	2848.2	4977.5
20	290	866.6	1640.6	2988.7	3742.8	6540.7
25	362.5	1073.8	2032.7	3703.0	4881.2	8103.9
30	435	1280.9	2424.8	4417.3	5823.0	9667.1
35	507.5	1488.1	2816.9	5131.6	6764.6	
40	580	1695.2	3209.0			
45	652.5	1902.3	3601.1			
49	710.5	2068.0	3914.8			
50	725	2109.4				
55.2	800.4	2324.8				

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with ASME BPVC.XIII, AIR at 60°F and 14.7 psia/scfm. SCFM Type 641: Flow rates at 10% above the set pressure

Sat Prassura		Bore Size (D0)							
Set Plessure		9.5mm	13.7mm	17mm	20mm	25mm			
psi	bar	SCFM	SCFM	SCFM	SCFM	SCFM			
20.3	1.40		131.9						
22.5	2.50	68.7	139.4						
30	2.07	81.5	165.5						
34.8	2.80	90.6	183.8	296.7					
40	2.76	100.4	203.7	328.7					
43.5	3.00	106.9	217.0	350.2	486.0				
50	3.45	119.2	241.8	390.3	541.5				
82	5.66	179.3	363.9	587.3	814.9	1285.8			
100	6.90	213.2	432.6	698.1	968.7	1528.4			
150	10.34	307.2	623.4	1006.1	1395.9	2202.6			
200	13.79	401.2	814.2	1314.0	1823.2	2876.8			
250	17.24	495.3	1005.0	1621.9	2250.4	3550.8			
300	20.69	589.3	1195.8	1929.8	2677.6	4224.9			
350	24.14	683.3	1386.6	2237.8	3104.9	4899.1			
400	27.59	777.4	1577.4	2545.7	3532.2	5573.3			
435	30.00	843.2	1711.0	2761.2	3831.2	6045.2			
450	31.03	871.4	1768.2	2853.6	3959.3				
500	34.48	965.4	1959.0	3161.5	4386.6				
507.5	35.00	979.5	1987.6	3207.7	4450.7				
550	37.93	1059.4	2149.8						
600	41.38	1153.4	2340.6						
650	44.83	1247.5	2531.4						
700	48.28	1341.5	2722.2						
710.5	49.00	1361.3	2762.3						
750	51.72	1435.5							
800.4	55.20	1530.3							



for compressed air & gas

hydrogen

Seetru Limited

Type B4605 / B6605 / 359 Enclosed discharge valve with threaded connections <

Safety valves made from Stainless Steel <

Example Applications

- Air/Gas compressors •
- Natural Gas
- Pressure vessels
- Medical gases •
- **Technical Gases** •
- Hydrogen production/generation



Specifications

- Inlet connections: 3/8" and 1/2"
- Temperature range:
 - 0°C to 200°C (with 1.4057 (431) stainless steel inlet)
 - -50°C to 150°C (with 1.4401 (316) stainless steel inlet)
- Pressure range: 35.0 to 500.0 bar

Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- ASME BPVC VIII.1 & XIII (UV)
- EAC
- CRN



Materials of Construction

Component	Material	Grade
Inlet	Stainless Steel	1.4057 (431)
		1.4401 (316)
Body	Stainless Steel	1.4408 (316)
Internal Parts	Stainless Steel	1.4305 (303)
Spring	Stainless Steel	1.4310 (302)

Inlet Seat Material

This valve seals using a metal ball design

Seal Material	Temperature Range
Stainless steel 1.4057 (431)	0°C to +200°C
Stainless steel 1.4401 (316)	-50C to +150°C

Standard seal materials shown, others are available.

Top Fitting Options

- Standard Option Sealed Cap (gas tight cap)



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Bore size

Inlet Size

Outlet Size

Flow Area

H - Height

TÜV alloted outflow coefficient

NB Certified rated slope (ASME)

Set Pressure range - PED (CE) bar

Set Pressure range - ASME (UV) psi

Relieving pressure/fully open pressure

Weight (approximate) Kg

Reseating pressure

flow is not reduced



1/2"

4.6mm

1/2"

16.6mm²

96mm

0.402

0.34 scfm/psia

0.8

35.0 to 500.0

507.5 to 7250.0

Set pressure +10%

Set pressure -10%

3/8"

	VA	dra	11A/1P	$n\sigma$
va	ve	U C		18
				· O



IMPORTANT NOTE:

These valves should only be tested for set pressure on liquid prior to final installation. Valves that are tested on air & fully lifted will cause damage to the sealing face.

Standard Thread Connection Types

Maximum permissible built up back pressure = 10% of set pressure at or below which

- BSP Parallel male thread
- BSP Taper male thread
- NPT male thread

Standard Outlet Connection Types

- BSP Parallel female thread
- NPT female thread

Valve Selection Guide

Valve Type	Inlet Material	Approval Required (Avaialble for both Inlet materials)	Select Bore	Inlet Size	Inlet Thread Type	Outlet Thread Type	Easing Gear	Seal Material
B6605	Stainless Steel 1.4057 (431)	PED (CE)						
B4405	Stainless Steel 1.4401 (316)	PED (CE)		Select inlet	Select Inlet	Select Outlet		Metal ball
B6105	Stainless Steel 1.4057 (431)	PED (CE), ASME (UV, NB), CRN	4.66mm	size from above table	thread type	thread type	Sealed cap	seal
B4105	Stainless Steel 1.4401 (316)	PED (CE), ASME (UV, NB), CRN						

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Example of Valve Selection Process										Å
Evample	1.4057 (431)	359	PED (CE)	4.66	1/2"	BSP taper	BSP	Sealed Cap	Ball Seal	385 bar
Selection	Inlet Material	Valve Type	Approval	Bore = 4.6mm	Inlet Size	Inlet Thread Type	Outlet Thread Type	Top Fitting	Seal	Set Pressure



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Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Flow rates at 10% above the set pressure

4	

		Bore Size (D0)					
Set Pressure		4.6mm					
bar	psi	Nm³/Hour					
35	507.5	179.8					
50	725.0	254.9					
100	1450.0	505.2					
150	2175.0	755.5					
200	2900.0	1005.8					
250	3625.0	1256.0					
300	4350.0	1506.3					
350	5075.0	1756.6					
400	5800.0	2006.9					
450	6525.0	2257.2					
500	7250.0	2507.5					

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance ASME section VIII Div I, AIR at 60°F and 14.7 psia/scfm. SCFM Flow rates at 10% above the set pressure

		Bore Size (D0)		
Set Pressure		4.6mm		
psi	bar	SCFM		
507.5	35	195		
725	50	276		
1450	100	547		
2175	150	818		
2900	200	1090		
3625	250	1361		
4350	300	1632		
5075	350	1903		
5800	400	2174		
6525	450	2445		
7250	500	2716		



for compressed air or gases

hydrogen

Seetru Limited

Type 946 Flanged

Safety valves made from Stainless Steel < Enclosed discharge valve with flanged connections <

Metal to metal sealing <

Example Applications

- Air / gas compressors
- Pressure vessels
- Medical gases/Technical gases
- Refrigeration (including ammonia)
- Thermal relief •
- Steam systems
- Hydrogen

Specifications

- Inlet connections: DN15 (1/2), DN20 (3/4") or DN25 (1") flange – DIN EN1092 and ANSI flanges are available
- Temperature range:-50°C to +250°C (depending on body o'ring material)
- Pressure range: 0.3 to 28.0 bar

Materials of Construction



Approvals

- Designed in accordance with BS EN ISO-4126-1 &-7
- PED 2014/68/EU (CE)
- PE(S)R UK SI 2016 No. 1105 (UKCA)
- EAC
- Leak tightness at 90% set pressure to API 527 and in accordance with EN ISO 4126-1

C€ ╬ [#[

Inlet & Outlet Flanges Stainless Steel 1.4401 (316) 1.4408 (316) Body Stainless Steel Internal Parts Stainless Steel 1.4401 (316) Stainless Steel 1.4310 (302) Spring Stainless Steel AISI 440B Disc

Seal Materials

O'ring material – Top cap	Temperature Range
Viton® (FKM)	-20°C to +250°C
Nitrile (NBR)	-30°C to +150°C
Silicone	-50°C to +250°C
EPDM	-40°C to +150°C

Standard seal materials shown, others are available.



Sealed Cap (gas tight cap)



Sealed lever (gas tight)







• TÜV alloted outflow coefficients for pressures above 3.0 bar, for lower pressures please see the flow rate tables or contact Seetru.

- Maximum permissible built up back pressure = 10% of set pressure at or below which flow is not reduced.
- Stable operation on flows down to 50% of valve rated capacity.
- Leak tightness at 90% set pressure to API 527 and in accordance with EN ISO 4126-1.

Standard INLET Connection Types

- DIN EN1092 Flange PN16, PN25 or PN40
- ASME Flange CL150, CL300 or CL600

Standard OUTLET Connection Types

- DIN EN1092 Flange PN16, PN25 or PN40
- ASME Flange CL150 or CL300

Valve Selection Guide

Valve type	Select Bore	Inlet Size	Inlet Flange Type	Outlet Flange Type	Easing Gear	O'ring material (for cap)
946	Select bore size from above table	Select inlet size from above table	Select Inlet Flange type	Select Outlet Flange type	Select easing gear/top fitting	See table

EAC marking available upon request

*Please send your selected details to Seetru and we can provide the full ordering code, price and lead-time.

Example of Valve Selection Process Example Selection 946 10 DN20 DIN EN1092 Flange PN16 DIN EN1092 Flange PN16 Sealed Lever Viton 10.5 bar 16.2 bar Valve Type Bore = 10mm Inlet Size Inlet Flange Type Outlet Flange Type Top Fitting O'ring Set Pressure Set Pressure



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Valve Drawing





Capacity Table - In accordance with TÜV, AIR at 0°C and 1013mbar. Normal m³/hour Type 946: Flow rates at 10% above the set pressure

		Bore Size (D0)					
Set Pressure		10mm	15mm				
bar	psi	Nm³∕Hour	Nm³/Hour				
0.3	4.35	39	76				
0.5	7.25	56	104				
1	14.5	84	155				
2	29	135	270				
3	43.5	191	384				
4	58	240	482				
5	72.5	289	580				
6	87.00	338	678				
7	101.5	386	776				
8	116	425	874				
9	130.5	484	972				
10	145	533	1070				
15	217.5	777	1560				
20	290	1021	2049				
25	362.5	1266	2539				
28	406	1412	2833				

For any intermediate pressures/flows please contact Seetru

Capacity Table - In accordance with TÜV, STEAM. Kg/hour Type 946: Flow rates at 10% above the set pressure

		Bore Size (D0)					
Set Pressure		10mm	15mm				
bar	psi	Kg/hour of Steam	Kg/hour of Steam				
0.3	4.35	32.5	63.3				
0.5	7.25	44.5	82.5				
1	14.5	66.1	121.7				
2	29	106.2	213.4				
3	43.5	149	299				
4	58	186	373				
5	72.5	222	446				
6	87.00	259	520				
7	101.5	295	592				
8	116	332	666				
9	130.5	368	738				
10	145	405	812				
15	217.5	585	1174				
20	290	765	1535				
25	362.5	947	1900				
28	406	1055	2116				



Change-Over Valves

for compressed air or gases

cryogenic & liquefied gas

frigeration

Seetru Limited

COV10 / COV13 / COV30

Solutions for plant and process efficiency

hydrogen

Change-over valves (sometimes referred to as selector valves or three-way valves) enables the switching of flow from one safety valve to another. Typically used where plant shutdown is impossible or undesirable for process, engineering or commercial reasons. With change-over valves it is possible to switch over between parallel safety valves without interrupting operation, so that maintenance work can be carried out on each safety valve in turn. Seetru change-over valves in combination with our safety valves provide the best solution for plant safety and efficiency. Seetru products are widely recognised for their exceptional quality and reliability.

Features



Fluid Mahcanics



The Seetru Change-Over Valves were designed and developed using Computational Fluid Dynamics (CFD) in order to simulate and optimise the flow of the fluids through the valve.



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Specifications: COV10

System Connections	½" to 1" BSP, BSPT & NPT
Valve Connectiond	$\frac{1}{2}$ " NPT or 3/4" BSP (with or without orientators)
Change-Over Valve Kv	10.0 (Cv= 11.5)
Materials of Construction	Stainless Steel
Seat Materials	25% Carbon filled P.T.F.E.
Temperature Range	-196°C to +200°C
Max Design Pressure	75 bar
Material Certifiation	BS EN ISO10204 3.1 Pressure Retaining Parts (Optional Extra)
Safety Valve Orifice Size	Up to 10mm (Full Lift Type)
Maximum Safety Valve Set Pressure	75 bar

Specifications: COV13

System Connections	Please contact Seetru for information	
Valve Connections	Please contact Seetru for information	
Materials of Construction	Stainless Steel with Mild Steel or Stainless Steel Internals	
Seat Materials	Elastomer P.T.F.E	
Maxium Safety valve Set Pressure	65.0 bar	
Temperature Range	-30 °C to 200 °C (subject to seal material)	~

Specifications: COV30

System Connections	1" to 1-1/2" BSP, BSPT, NPT, CL150 to CL600 & PN16 to PN100	
Valve Connections	¾" to 1" BSP, BSPT, NPT (with or without orientators), CL150 to CL600 & PN16 to PN100	
Change-Over Valve Kv	30	
Materials of Construction	CF8M/316/1.4401	
Seat Materials	25% Carbon filled P.T.F.E.	Ł
Temperature Range	-196°C to +200°C	
Max Design Pressure	CL600 or PN100	1
Material Certifiation	BS EN ISO10204 3.1 Pressure Retaining Parts (Optional Extra)	>
Safety Valve Orifice Size	Up to 18mm (Full Lift Type)	
Maximum Safety Valve Set Pressure	100 bar	-



Operation Instructions: COV10 / COV30	
1	Unlock handle if locking device fitted (recommended).
2	Starting in a motion away from the duty SRV, rotate handle through 180° (COV10) or anticlockwise dependent uponstart starting position

 or anticlockwise dependent uponstart starting position.

 3
 Once fully rotated, lock in position if locking device fitted (recommended).

 4
 If the now standby SRV is to be remove: with caution, un-tighten vent nut of standby Change-over arm by 1 to 2 revolutions to exhaust trapped fluid from change-over arm.

 5
 Once trapped fluid has de-pressurised, re-tighten vent plug with a tightening torque of 3.0 Nm.

 6
 Remove the standby SRV.

 7
 The user may plug the vacant outlet if desired, however sufficient safety procedures (for example Lock out Tag out) must be in place to prevent inadv inadvertent change over, thus rendering the system un-protected against exces

sive pressure. If the outlet is plugged, vent arm of pressure, as previously described, prior to removal.



Fittings, Adaptors and Connections



- The Seetru COV10 and COV30 Change-Over Valves can be supplied with a range of fittings and adaptors to provide compatibility with a large variety of systems.

- The COV30 is also available with flanged connections (A or PN).



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Valves from Stock: Same-Day-Despatch

QUICKTESTER

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Our products are recognised globally for their exceptional quality and reliability, and in recent years Seetru have worked hard to maximise the efficiency of our manufacturing processes, to ensure that we are able to meet demands for supply and distribution. We now hold a large variety of safety valves in stock, allowing customers to purchase certain quantities from our website, and see them despatched on the same day.

Seetru offer atmospheric discharge safety valves and pipped discharge safety valves in brass / bronze or stainless steel. The Seetru LGS® range of pressure relief valves (for liquid, steam, and gasses) are available in bronze construction, with open-lever and sealed-cap options. These valves can be fitted with PTFE or EPDM seals, with both types having the WRAS approval- for installation on public water supply systems.

Seetru also operate a standardised three-day-despatch delivery service, which covers the entire range of valves we manufacture.

MAXIMUM WORKIN Safety Valve Testing Equipment: The Seetru Quicktester™ PRESSURE 55.0 BAR

This compact, lightweight and portable design is very robust and able to meet the demands of a busy maintenance workshop or mobile operation. The Seetru Quicktester[™] can be used with plant generated air supplies or with mobile bottled gas. This test-bench can be supplied with a range of adaptors allowing connection between 1/4" to 1" BSP as standard, additional adaptors are available increasing the connection sizes up to 2" BSP. The Quicktester[™] is also available with NPT connection adaptors upon request. It is suitable for use with a wide range of elastomer sealed valves

Liquid Level Gauges

SEETRU

There are many industrial applications that require the monitoring of the liquid level in tanks. While the function of a level gauge is relatively simple, there are a variety of options available. The suitability and robustness of construction materials play a role in determining which gauge is required, as do the operating temperature and pressure requirements. Seetru liquid level gauges are primarily of two types, sight gauges and magnetic float by-pass gauges. Many of the Seetru 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.

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