



TYPE SL
SEALED LEVER
EASING GEAR

ALTERNATIVE TOP FITTING



TYPE SB
SEALED BASIC
NO EASING GEAR



SEETRU LIMITED
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PARTS LIST & MATERIAL SPECIFICATION

ITEM	QTY	PART	94613 FLANGE
1	1	FLANGE	ST.STL.
2	1	INLET NOZZLE	ST.STL.
3	1	BODY	ST.STL.
4	1	SEAL RETAINER	ST.STL.
5	1	TUTCHTITE SEAL	TO SUIT APPLICATION
6	1	PLUNGER	ST.STL.
7	1	SPINDLE	ST.STL.
8	1	SPRING	ST.STL.
9	1	ADJUSTER	ST.STL.
10	1	OUTLET SPIGOT	ST.STL.
11	1	FLANGE	ST.STL.
12	2	O'RING	TO SUIT APPLICATION
13	1	CAP	ST.STL.
14	1	WIRE & SEAL	ST.STL. & LEAD

APPROVALS

Ad 2000-Merkblatt A2: (TÜV Germany) Ref - TÜV.SV.**-761.13,7.D/G.0.71.p.
P.E.D. 2014 /68 /EU

Type examination module B, Cert. No. 202 111-B-10016

Quality management system module D, Cert. No. COV0812369 /01

Designed in accordance with BS EN ISO 4126-1

Meeting the requirements of the A.S.M.E. Boiler & Pressure Vessel code, section VIII for air/gas.

UV Cert. of Authorisation: 35757

Capacities certified by the National Board of Boiler & Pressure Vessel Inspectors.

TECHNICAL DATA

Relieving pressure = Set pressure +10% (0.3 Bar.g below 1.4 Bar.g)

Reseating pressure = Set pressure -10% (0.3 Bar.g. minimum)

Maximum set pressure = 49 Bar.g (12 Bar.g. Steam)

Minimum set pressure = 0.32 Bar.g (TÜV & ASME 1.4 Bar.g.)

Flow area = 147.4mm²

Inlet bore diameter = 13.7mm

BS derated coefficient of discharge K_d = 0.78

TÜV allotted outflow coefficient α_w = 0.71

BS minimum lift at 10% overpressure = 5.7mm

NB certified rated slope = 3.47 scfm/psia

Temperature range = -40°C to 200°C subject to seal material.

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.

APPROXIMATE WEIGHT $\frac{3}{4}$ " x 1" = 3.2kg

FOR FURTHER INFORMATION, INSTALLATION AND OPERATION INSTRUCTIONS, CONVERSION FACTORS ETC.

SEE TECHNICAL INFORMATION SECTION.

SHEET 1 OF 2

13mm Nominal Bore
DIRECT SPRING LOADED ENCLOSED
DISCHARGE SAFETY VALVE, FLANGED,
FOR COMPRESSED AIR, GASES & STEAM

ENCLOSED DISCHARGE
13mm NOMINAL BORE
FLANGED CONNECTIONS
TYPE 64613 ST.STL.

FLOW CHART

TO CALCULATE INTERMEDIATE FLOWS, SEE TECHNICAL INFORMATION SECTION.

SET PRESSURE Bar.g	0.32	1	1.4	2	3	4	5	6	7	8	9	10	20	30	40	49
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std.Litres/s	27	47	56	71	95	120	144	169	193	217	242	266	508	752	995	1214
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TUV, AIR AT 0°C AND 1013 mbar Normal m³/h	86	150.6	182	229	307.5	385.9	464.3	542.7	621.2	699.6	778	856.5	1641	2425	3209	3915

* DISCHARGING TO ATMOSPHERE

FLOW CHART (A.S.M.E.)

SET PRESSURE Psi.g	20	30	40	50	60	70	80	90	100	150	200	250	300	400	500	600	700	710
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH ASME, AIR AT 60°F AND 14.7 psia/scfm	131	166	204	242	280	318	356	395	433	624	814	1005	1196	1578	1960	2341	2723	2761

* DISCHARGING TO ATMOSPHERE

FLOW CHART (P.E.D.) SATURATED STEAM

SET PRESSURE Bar.g	0.32	1	1.4	2	3	4	5	6	7	8	9	10	11	12
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH BS EN 4126 STEAM Kg/hr	71	116	140	179	239	298	358	417	475	534	592	651	709	767
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TUV STEAM Kg/hr	-	116	140	176	237	297	358	418	478	539	599	660	720	780

* DISCHARGING TO ATMOSPHERE

VALVE SELECTION CHART

FLANGE SIZES SHOWN, OTHER SIZES MAY BE AVAILABLE

INLET FLANGE CONNECTION	OUTLET FLANGE CONNECTION	ORDERING CODE	TOP FITTING CODE	
			SB	SL
ASME 3/4" CL150	1" CL150 1" CL300	64613 G 64613 H	600	700
ASME 3/4" CL300			601	701
ASME 3/4" CL600			602	702
ASME 1" CL150			603	703
ASME 1" CL300			604	704
ASME 1" CL600			605	705
DN20 PN16	DN25 PN25 DN25 PN16 DN25 PN40	64613 M 64613 N 64613 O	606	706
DN20 PN25			607	707
DN20 PN40			608	708
DN25 PN16			609	709
DN25 PN25			610	710
DN25 PN40			611	711

O'RING SEAL CHART

RUBBER SEAL MATERIAL	10th DIGIT
NITRILE	1
VITON®	3
NEOPRENE	5
E.PROPYLENE	6
PERFLUOROELASTOMER	8

NOTE:

Digits 1 to 8, indicates the required O'ring material, for advice on rubber seal material selection, refer to Technical Information Section A.



Example:

Ordering code **64613G 700 3** is an all Stainless Steel, Sealed Lever,

Type **SL**, ASME 3/4" CL150 inlet connection, 1" CL150 outlet connection, with Viton® seals.

SHEET 2 OF 2

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