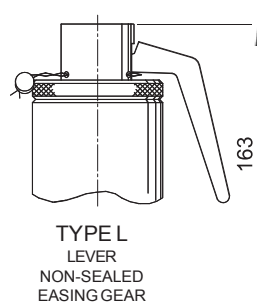
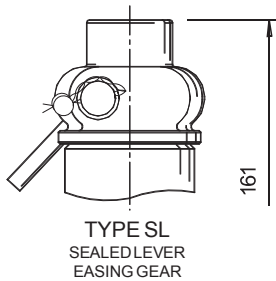
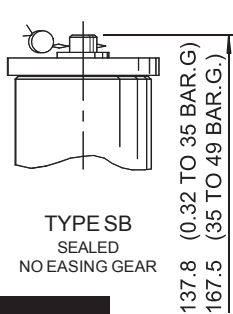


ILLUSTRATED SHOWING  
TYPE R  
ROTA-LIFT  
EASING GEAR

ALTERNATIVE TOP FITTINGS



(OPTION NOT AVAILABLE FOR  
64613 & 65613 TYPE VALVES)



**SEETRU LIMITED**  
ALBION DOCKSIDE WORKS, BRISTOL. BS1 6UT  
TELEPHONE +44 (0) 117 930 6100, FAX +44 (0) 117 929 8193  
www.seetru.com info@seetru.com

PARTS LIST & MATERIAL SPECIFICATION

	63613	63713, 63113	64613, 64713, 64113 *	65613 *	65713, 65113 *
1 INLET SEAT	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316) SA-479 S31600	ST.STL. BS EN 10088-3 1.4401 (316) SA-479 S31600	
2 TUTCHTITE SEAL	TO SUIT APPLICATION				
3 SEAL RETAINER	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	ST.STL. BS EN 10088-3 1.4401 (316)	
4 PLUNGER	BRASS BS EN 12164 CW602N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW602N	
5 BODY	BRONZE / GUNMETAL BS EN 1982 CC491K SB-62 C83600		ST.STL. EN 10283 1.4408 (316) SA-351 CF8M	BRONZE / GUNMETAL BS EN 1982 CC491K SB-62 C83600	
6 SPRING	ST.STL. BS EN 10270-3 1.4310 (302)				
7 SPINDLE	ST.STL. BS EN 10088-3 1.4057 (431)				
8 ADJUSTER	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW614N	
9 CAP	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW614N	
10 NAMEPLATE	ALUMINIUM ALLOY				
11 WIRE & SEAL	ST.STL. & LEAD				

\* 64613 & 65613 TYPE VALVES, SEE 'TYPE L' OPTION NOTE.

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. 01 202 642-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 & A.S.M.E. 1.4 Bar.g.)  
 Flow area = 147.4 mm<sup>2</sup>  
 Inlet bore diameter = 13.7 mm  
 BS Derated coefficient of discharge  $K_{dr}$  = 0.78  
 TÜV allotted outflow coefficient  $\alpha_w$  = 0.71  
 BS Minimum lift at 10% overpressure = 5.7 mm  
 NB Certified rated slope = 3.47 scfm/psia  
 Temperature Range = -30°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.  
 FOR FURTHER INFORMATION, INSTALLATION AND OPERATION INSTRUCTIONS, CONVERSION FACTORS ETC.  
 SEE TECHNICAL INFORMATION SECTION.

SHEET 1 OF 2 SHEETS.

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

ENCLOSED DISCHARGE  
13mm NOMINAL BORE SERIES M/2  
TYPE 63613, 63713, 63113 BRASS  
TYPE 64613, 64713, 64113 ST.STL.  
TYPE 65613, 65713, 65113 BRASS/ST.STL.

### FLOW CHART (P.E.D.)

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.

- FOR GREATER FLOWS REFER TO 18mm BORE TYPE 63618 DATA SHEET, FOR LOWER FLOWS REFER TO 63610 DATA SHEET

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 TÜV, 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

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

SET PRESSURE Psig	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 TÜV STEAM Kg/hr	-	116	140	176	237	297	358	418	478	539	599	660	720	780

### VALVE TYPE OPTIONS:

- 63613, 64613, 65613 = TUV, B.S. (P.E.D.)
- 63713, 64713, 65713 = A.S.M.E. & N.B.
- 63113, 64113, 65113 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

### VALVE SELECTION CHART

Standard thread sizes shown, other sizes may be available.

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE			
			R	SB	SL	L*
G 1/2 ( 1/2" BSP PARALLEL )	G 1 ( 1" BSP PARALLEL )	63613A 63713A 63113A  64613A 64713A 64113A  65613A 65713A 65113A	2073	1273	4073	3273
R 1/2 ( 1/2" BSP TAPER )			2083	1283	4083	3283
1/2" NPT			2093	1293	4093	3293
G 3/4 ( 3/4" BSP PARALLEL )			2103	1303	4103	3303
R 3/4 ( 3/4" BSP TAPER )			2113	1313	4113	3313
3/4" NPT			2123	1323	4123	3323
G 1 ( 1" BSP PARALLEL )			2133	1333	4133	3333
R 1 ( 1" BSP TAPER )			2143	1343	4143	3343
1" NPT			2153	1353	4153	3353

Example:

Ordering code 63613A 210 3 is brass construction Rota lift type R, with 3/4" BSP parallel inlet connection, 1" BSP parallel outlet connection with Viton® seals and wirelocked.

\* 'TYPE L' OPTION NOT AVAILABLE FOR 64613 & 65613 TYPE VALVES.

Seal material:

Last digit of ordering code calls up Viton® seal (since this is the most universal type). When other material is required last digit changes to:

1. NITRILE
3. VITON®
5. NEOPRENE
6. ETHYLENE PROPYLENE
8. PERFLUOROELASTOMER

For advice on seal material selection refer to Technical Information Section A.



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SHEET 2 OF 2 SHEETS.

ENCLOSED DISCHARGE  
 13mm NOMINAL BORE SERIES M/2  
 TYPE 63613, 63713, 63113 BRASS  
 TYPE 64613, 64713, 64113 ST.STL.  
 TYPE 65613, 65713, 65113 BRASS/ST.STL.