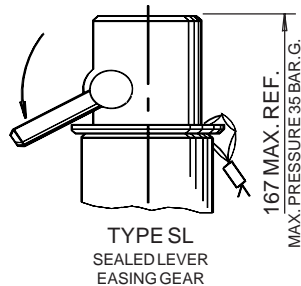


ALTERNATIVE TOP FITTING



PARTS LIST & MATERIAL SPECIFICATION

		64613, 64713, 64113
1	INLET SEAT	ST.STL. BS EN 10088-3 1.4404 (316L)
2	PLUNGER/SEAL	ST.STL. BS EN 10088-3 1.4404 (316L) / TO SUIT APPLICATION
3	BODY	ST.STL. BS EN 10283 1.4408 (316) SA-351 CF8M
4	SPRING	ST.STL. BS EN 10270-3 1.4310 (302)
5	SPINDLE	ST.STL. BS EN 10088-3 1.4057 (431)
6	ADJUSTER	ST.STL. BS EN 10088-3 1.4401 (316)
7	CAP	ST.STL. BS EN 10088-3 1.4401 (316)
8	COVER	ST.STL.
9	WIRE & SEAL	ST.STL & LEAD

APPROVALS

Ad-Merkblatt A2: (TÜV Germany) Ref - TÜV.SV.04-761.13,7.D/G.0,71.p.
P.E.D.97/23/EC

Type examination module B, Cert. No. 01 202 111-B-00016

Quality management system module D, Cert. No. EDS 0002011/01

Designed in accordance with BS6759 & 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)

SUBJECT TO CLAMP PRESSURE RATING

Minimum set pressure = 0.32 Bar.g (TÜV & A.S.M.E. 1.4 Bar.g)

Flow area = 147.4 mm²

Inlet bore diameter = 13.7 mm

BS Derated coefficient of discharge K_{dr} = 0.78

TÜV Derated coefficient of discharge α_w = 0.71

BS Minimum lift at 10% overpressure = 5.7 mm

NB Certified rated slope = 3.47 scfm/psia

Temperature Range = 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.



SEETRU LIMITED

ALBION DOCKSIDE WORKS, BRISTOL. BS1 6UT

TELEPHONE +44 (0) 117 927 9204, FAX +44 (0) 117 929 8193

www.seetru.com enquires@seetru.com

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

SHEET 1 OF 2 SHEETS.

ENCLOSED DISCHARGE
13mm NOMINAL BORE SERIES M/2

TYPE 64613, 64713, 64113 ST.STL.

FLOW CHART (P.E.D.)

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.
- FOR GREATER FLOWS REFER TO SEETRU, FOR LOWER FLOWS REFER TO 64610 DATA SHEET

SET PRESSURE Bar.g	NOT APPROVED		APPROVED PRESSURE RANGE													
	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

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 TUV STEAM Kg/hr	-	116	140	176	237	297	358	418	478	539	599	660	720	780

VALVE SELECTION CHART

Standard seat sizes shown, other sizes may be available.

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE	
			S	SL
3/4" CLAMP	G 1 (1" BSP PARALLEL)	64613A	5758	5848
1" CLAMP		64713A 64113A	5768	5858

Example: Ordering code 64613A 5758 is St.Stl. construction Sealed, no easing gear, type S, with 3/4" Clamp inlet connection, 1" BSP parallel outlet connection with Perfluoroelastomer (Isolast®) seals & wirelocked.

Seal material: Last digit of ordering code calls up Perfluoroelastomer (Isolast®) seal.

When other material is required last digit changes to:

- 6. ETHYLENE PROPYLENE Temperature range (-40°C to 150°C)
- 8. PERFLUOROELASTOMER (ISOLAST®) Temperature range (-15°C to 190°C)

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

APPLICATION

1. Safety valve for food industry & other hygienic applications including clean steam & gas applications.
2. For protection of installations in which clean service is required only on the inlet.
e.g. normal operation wetted parts.
3. Generally in accordance with 'ASME BPE 2005 Bioprocessing Equipment'.
4. Economic design giving small compact size, with high discharge capacities.
5. Elastomer soft sealing for high level sealing tightness at operating pressure, with minimum leakage for cost effective operation.

SURFACE FINISH

Process Contact Surface

In accordance with ASME BPE-2005 Table SF-5.

Surface designation R_a Max 15 μinches, 0.4 μm, Electropolished.

Other Surfaces

Not greater than 60 μinches, 1.5 μm.

SEAL MATERIAL

Elastomer soft sealing specifically developed for food & pharmaceutical industries.

Compliant to

1. FDA 21 CFR 177.2600
2. United States Pharmacopoeia (USP) Class VI
3. SP3A Sanitary Standards for Multiple Use Rubber Dairy Equipment No 18-03.

CONNECTIONS

Inlet

Tri-Clamp® compatible generally in accordance with ASME BPE 2005 & BS 4825-3.

Outlet

Pipe threads (G) where pressure tight joints are not made on the thread in accordance with BS EN ISO 228. For other threads & clamp connections consult Seetru.

VALVE TYPE OPTIONS:

- 64613 = TUV, B.S. (P.E.D.)
- 64713 = A.S.M.E. & N.B.
- 64113 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)



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