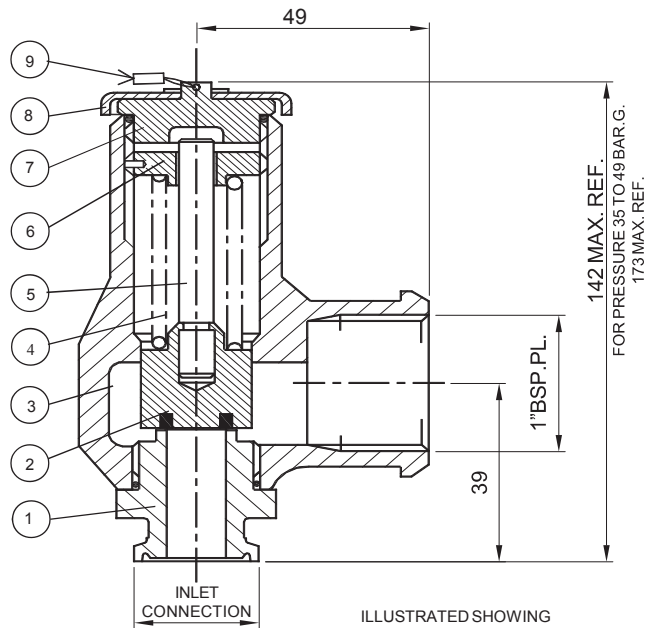
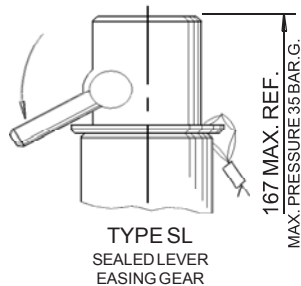


## PARTS LIST & MATERIAL SPECIFICATION



ILLUSTRATED SHOWING  
TYPES  
SEALED  
NO EASING GEAR

### ALTERNATIVE TOP FITTING



		6G613, 6G712, 6G113
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 2000-Merkblatt A2: TÜV. Ref - TÜV.SV.\*\*-761.13,7.D/G.0,71.p.  
P.E.D. 2014/68/EU

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

### 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 mm<sup>2</sup>

Inlet bore diameter = 13.7 mm

BS Derated coefficient of discharge  $K_{dr}$  = 0.78

TÜV alloted 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 = 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) 117 930 6100, FAX +44 (0) 117 929 8193

www.seetru.com info@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 6G610 DATA SHEET

SET PRESSURE Bar <sub>g</sub>	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 m <sup>3</sup> /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 <sub>g</sub>	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 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 )	6G613A	575C	584C
1" CLAMP		6G713A	576C	585C
		6G113A		

Example: Ordering code 6G613A 575C 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

- Safety valve for food industry & other hygienic applications including clean steam & gas applications.
- For protection of installations in which clean service is required only on the inlet.  
e.g. normal operation wetted parts.
- Generally in accordance with 'ASME BPE 2005 Bioprocessing Equipment'.
- Economic design giving small compact size, with high discharge capacities.
- 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<sub>a</sub> 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

- FDA 21 CFR 177.2600
- United States Pharmacopoeia (USP) Class VI
- 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:

- 6G613A = TÜV, B.S. (P.E.D.)
- 6G713A = A.S.M.E. & N.B.
- 6G113A = A.S.M.E. & N.B., TÜV, B.S. (P.E.D.)



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