



PARTS LIST & MATERIAL SPECIFICATION

1	BODY	BRASS BS EN 12164 CW614N
2	ELASTOMER SEAL	VITON
3	VALVE DISC	BRASS BS EN 12164 CW614N
4	SPINDLE	ST.STL. BS EN 10088-3 1.4057 (431)
5	SPRING	ST.STL BS EN 10270-3 1.4310 (302)
6	ADJUSTER	BRASS BS EN 12164 CW614N
7	LIFTING CAP	BRASS BS EN 12164 CW614N
8	NAMEPLATE	AL.ALLOY
9	WIRE & SEAL	ST.STL & LEAD

APPROVALS

Ad-Merkblatt A2: TÜV.SV.07-893.13.D/G.0,64.p.

Designed in accordance with BS6759 & BS EN ISO 4126-1.

P.E.D. 97/23/EC

Type examination module B, Cert. No. 01 202 111-B-00015

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

Meeting the requirements of the A.S.M.E. Boiler & Pressure Vessel Code section VIII for air.

UV Cert. of Authorisation: 35757

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

TECHNICAL DATA

Relieving pressure = Set pressure +10%

Reseating pressure = Set pressure -10%

Maximum set pressure = 21 Bar.g.

Minimum set pressure = 2.8 Bar.g.

Flow area = 132.7mm²

Inlet bore diameter = 13mm

Temperature range = -15°C to 200°C

TÜV derated coefficient of discharge α_w = 0.64

NB Certified rated slope = 2.94 scfm/psia

Minimum lift at 10% over pressure = 2.73mm

FOR FURTHER TECHNICAL INFORMATION, CONVERSION FACTORS, INSTALLATION AND OPERATING INSTRUCTIONS 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

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13mm Nom. Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ATMOSPHERIC
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES

SERIES E VALVE
TYPE 81813, 81713, 81113

SHEET 1 OF 2 SHEETS

FLOW CHART (P.E.D.)

-TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

-FOR LOWER FLOWS REFER TO 10mm BORE TYPE 81810 DATA SHEET, FOR GREATER FLOWS REFER TO 15mm BORE TYPE 81815 DATA SHEET.

SET PRESSURE (Bar.g)	2.8	3	4.4	5	6	7	8	9	10	11	12	13	14	15	16.6	21
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std.Litres/s	66	70	96	107	125	143	161	179	197	215	233	251	269	287	316	395
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar Normal m³/h	236.8	249.5	338.6	376.8	440.5	504.1	567.8	631.5	695.1	758.8	822.4	886.1	949.7	1013.4	1115.2	1395.3

BS CALCULATIONS ARE FOR GUIDANCE ONLY

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

SET PRESSURE Psig	41	50	60	70	80	90	100	150	200	250	300	305
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E. AIR AT 60°F AND 14.7 psia/scfm	176	205	237	270	302	334	367	528	690	852	1013	1030

VALVE TYPE OPTIONS:

- 81813 = TUV, B.S. (P.E.D.)
- 81713 = A.S.M.E. & N.B.
- 81113 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

VALVE SELECTION CHART

INLET CONNECTION	ORDERING CODE	TOP FITTING CODE	DIM'N 'A' A/F HEX (mm)	THREAD LENGTH 'L'
		R		
G 1/2 (1/2" BSP PARALLEL)	81813 81713 81113	0873	27	14
R 1/2 (1/2" BSP TAPER)		0883	27	15
1/2" NPT		0893	30	19
G 3/4 (3/4" BSP PARALLEL)		0903	30	14
R 3/4 (3/4" BSP TAPER)		0913	30	19
3/4" NPT		0923	30	18.5

Example: Ordering code 81813 0913 is:- Wirelocked Rota-lift type construction with 13mm bore, 3/4" BSP Taper inlet connection and Viton® seals.

Note: This range of products are available with Viton® seals only.



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SHEET 2 OF 2 SHEETS