



ILLUSTRATED SHOWING  
TYPE R  
CRIMPED ROTA-LIFT  
EASING GEAR

## PARTS LIST & MATERIAL SPECIFICATION

1	BODY	BRASS BS EN 12164 CW614N
2	ELASTOMER SEAL	SEE FLOW CHART *
3	PLUNGER	BRASS BS EN 12164 CW614N
4	SPRING	ST.STL BS EN 10270-3 1.4310 (302)
5	ADJUSTER	BRASS BS EN 12164 CW614N
6	CAP	BRASS BS EN 12164 CW614N
7	NAMEPLATE	AL. ALLOY

\* DEPENDENT ON SET PRESSURE

## APPROVALS

Ad - Merkblatt A2: (TÜV GERMANY) TÜV.SV.09-963.6.0.D/G.0.67.p.

Designed in accordance with BS 6759 Part 2 & BS EN ISO 4126-1, but not approved.

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/gas.

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	= 36.0 Bar.g
Minimum set pressure	= 2.8 Bar.g
Flow area	= 28.3 mm <sup>2</sup>
Inlet bore diameter	= 6mm
Temperature range	= -15°C to 200°C Viton®, -30°C to 110°C Nitrile.
TÜV Derated coefficient of discharge $\alpha_w$	= 0.67
NB Rated discharge coefficient $K_d$	= 0.748

FOR FURTHER TECHNICAL INFORMATION, CONVERSION FACTORS, INSTALLTION 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  
www.seetru.com enquires@seetru.com

6mm Nom. Bore BRASS CONSTRUCTION  
DIRECT SPRING LOADED ATMOSPHERIC  
DISCHARGE SAFETY VALVE FOR  
COMPRESSED AIR OR GASES

SERIES E VALVE  
TYPE 81806  
TYPE 81706  
TYPE 81106

SHT 1 OF 2 SHTS.

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

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

- FOR GREATER FLOWS REFER TO 8mm BORE TYPE 81808 DATA SHEET.

SET PRESSURE Bar.g	2.8	4	5	6	7	8	9	10	15	20	25	30	36
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013mbar Std.Litres/s	15	20	24	28	32	36	40	44	64	84	104	124	148
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar Normal m³/h	52.8	69.9	84	98.2	112.4	126.6	140.8	155	225.9	296.9	367.9	438.9	524
SEAL MATERIAL	NITRILE		VITON / NITRILE										

BS CALCULATIONS ARE FOR GUIDENCE ONLY

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

SET PRESSURE Psi.g	41	50	60	70	80	90	100	150	200	250	300	350	400	522
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E., AIR AT 60°F AND 14.7 psia/scfm	36	42	48	55	62	68	75	108	141	174	207	240	273	355
SEAL MATERIAL	NITRILE		VITON / NITRILE											

### VALVE TYPE OPTIONS:

- 81806 = TUV, B.S. (P.E.D.)
- 81706 = A.S.M.E. & N.B.
- 81106 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

### VALVE SELECTION CHART

#	INLET COECON	ORDERING CODE	TOP FITTING CODE	DIM'N 'A' A/F HEX (mm)	DIM'N 'B' THREAD LENGTH (mm)
			R		
#	G 1/4 (1/4" BSP PARALLEL )	81806 81706 81106	1213	17	12.5
#	R 1/4 (1/4" BSP TAPER )		1223	14	14
#	1/4" NPT		1233	14	12
	G 3/8 (3/8" BSP PARALLEL )		1243	20.6	12.5
	R 3/8 (3/8" BSP TAPER )		1253	17	16
	3/8" NPT		1263	18	14.2

Example: Ordering code 81806 121 3 is Crimped, Rota-lift type construction with 6mm bore, 1/4" BSP Parallel inlet connection and Viton® seals.

Note: This range of products are available below 4.0 Bar.g. with Nitrile seals only.

# Max. tightening torque 14Nm.

SHT 2 OF 2 SHTS.



## 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

6mm Nom. Bore BRASS CONSTRUCTION  
 DIRECT SPRING LOADED ATMOSPHERIC  
 DISCHARGE SAFETY VALVE FOR  
 COMPRESSED AIR OR GASES

SERIES E VALVE  
 TYPE 81806  
 TYPE 81706  
 TYPE 81106