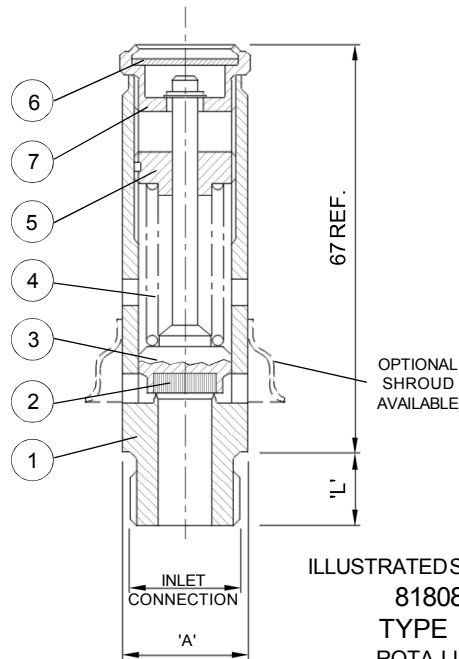
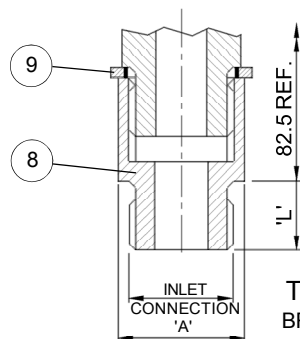




ILLUSTRATED SHOWING
81808
TYPE R
ROTA-LIFT
EASING GEAR



TYPE 82808
BRASS/ST.STL.
ADAPTOR

PARTS LIST & MATERIAL SPECIFICATION

		81808, 81708, 81108	82808, 82708, 82108
1	BODY	BRASS BS EN 12164 CW614N	
2	ELASTOMER SEAL	VITON	
3	VALVE DISC	BRASS BS EN 12164 CW614N	
4	SPRING	ST.STL BS EN 10270-3 1.4310 (302)	
5	ADJUSTER	BRASS BS EN 12164 CW614N	
6	NAMEPLATE	AL.ALLOY	
7	CAP	BRASS BS EN 12164 CW614N	
8	ADAPTOR	N/A	ST.STL.
9	DOWTY SEAL	N/A	VITON

APPROVALS

AD 2000-Merkblatt A2: TÜV.SV.**-893.8.D/G.*.p [* = Variable α_w below 3 Bar.g]

Designed in accordance with BS EN ISO 4126-1.

P.E.D. 2014/68/EU

Type examination module B, Cert No. 01 202 642-B-10015

Quality management system module D, Cert. No. COV0812369/01

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% (0.1 Bar.g below 1.0 Bar.g)

Reseating pressure = Set pressure -10% (0.3 Bar.g below 3.0 Bar.g)

Maximum set pressure = 21 Bar.g

Minimum set pressure = 0.55 Bar.g (A.S.M.E. 3.0 Bar.g)

Flow area = 50.27 mm²

Inlet bore diameter = 8mm

Temperature range = -15°C to 200°C

TÜV allotted outflow coefficient α_w = 0.67 From 3 Bar.g.

TÜV allotted outflow coefficient α_w = Below 3 Bar.g see graph.

NB Rated discharge coefficient K_d = 0.748

Minimum lift at 10% overpressure = 1.4mm

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

www.seetru.com info@seetru.com

8mm Nom. Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ATMOSPHERIC
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES.

SERIES E VALVE
TYPE 81808, 81708, 81108
BRASS
TYPE 82808, 82708, 82108
BRASS/ST.STL. ADAPTOR

SHEET 1 OF 3 SHEETS

FLOW CHART (P.E.D.)

-FOR PRESSURE RANGE BELOW 3 BAR.G.

SET PRESSURE Bar.g	0.55	1	2	3
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std.Litres/s	9	12	20	27
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar Normal m³/h	31.6	44.5	70.7	94.9

BS CALCULATIONS ARE FOR GUIDANCE ONLY

FLOW CHART (P.E.D.)

-FOR PRESSURE RANGE ABOVE 3 BAR.G. TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION
-(FOR GREATER FLOWS REFER TO 10mm BORE TYPE 81810 DATA SHEET, FOR LOWER FLOWS REFER TO 6mm BORE TYPE 81806 DATA SHEET).

SET PRESSURE Bar.g	3	4	5	6	7	8	9	10	11	12	13	14	15	17	21
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std.Litres/s	28	35	42	49	57	64	71	78	85	92	99	107	114	128	156
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar Normal m³/h	98.9	124.1	149.4	174.7	199.8	225.1	250.3	275.5	300.8	326.0	351.2	376.5	401.7	452	553

BS CALCULATIONS ARE FOR GUIDANCE ONLY

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

SET PRESSURE Psig	44	50	60	70	80	90	100	110	120	130	140	150	200	250	300	305
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E. AIR AT 60°F AND 14.7 psia/scfm	67	74	86	98	110	121	133	145	157	168	180	192	251	309	368	373

VALVE TYPE OPTIONS:

81808, 82808 = TUV, B.S. (P.E.D.)
81708, 82708 = A.S.M.E. & N.B.
81108, 82108 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

VALVE SELECTION CHART

#	INLET CONNECTION	ORDERING CODE	TOP FITTING CODE	81 TYPE	82 TYPE	81 TYPE
			R	DIM'N 'A' A/F HEX (mm)	DIM'N 'A' A/F HEX (mm)	82 TYPE INLET THR'D DIM'N 'L'
#	G 1/4 (1/4" BSP PARALLEL)	81808 81708 81108	1213	19.0	20.6	10
#	R 1/4 (1/4" BSP TAPER)		1223			12
#	1/4" NPT		1233			12
	G 3/8 (3/8" BSP PARALLEL)		1243			10
	R 3/8 (3/8" BSP TAPER)	82808 82708 82108	1253	19.0	24.0	12.5
	3/8" NPT		1263			15.3
	G 1/2 (1/2" BSP PARALLEL)		1273			12
	R 1/2 (1/2" BSP TAPER)		1283			19
	1/2" NPT		1293			19

Example: Ordering code 81808 121 3 is a, Rota-lift type construction with 8mm bore, 1/4" BSP Parallel inlet connection and Viton® seals.

Note: Standard seal Viton®, other materials may be available.

Max. tightening torque 14Nm.

SHEET 2 OF 3 SHEETS



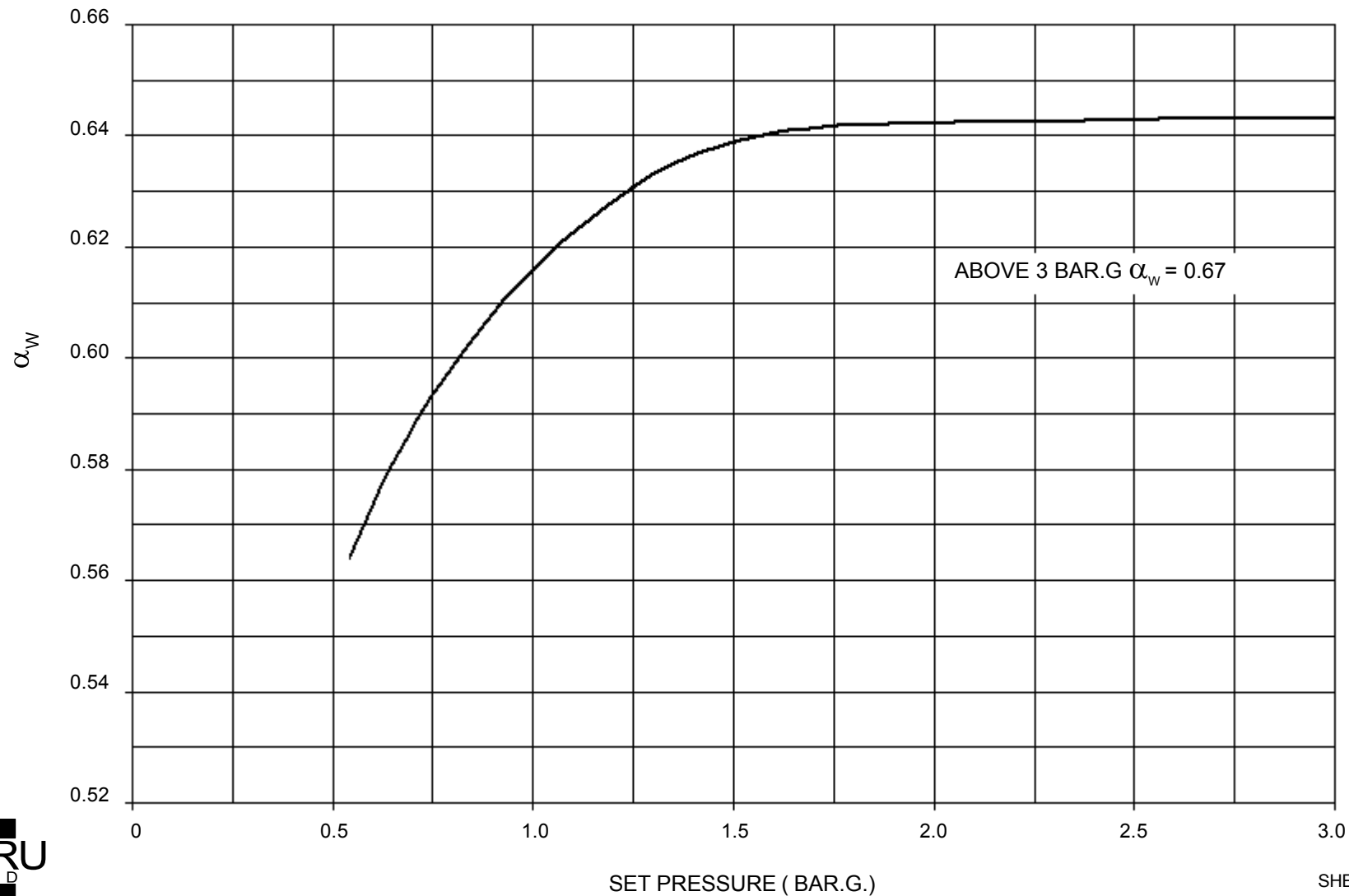
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BRASS
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PRESSURE/DISCHARGE CURVE FOR VALVE 81808
0.55 - 3.0 BAR.G.



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SHEET 3 OF 3 SHEETS