

PARTS LIST & MATERIAL SPECIFICATION

		81888, 81788, 81188	82888, 82788, 82188
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	DOWTY SEAL	N/A	VITON
9	ADAPTOR	N/A	ST.STL.

APPROVALS

Ad-Merkblatt A2: (TÜV GERMANY) TÜV.SV.12-893.8.D/G.*.p (* = Variable α_w below 3 Bar.g)
 Designed in accordance with BS EN ISO 4126-1 & BS 6759 Part 2, but not approved.
 P.E.D.97/23/EC

Type examination module B, Cert No. 01202 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% (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 mm ²
Inlet bore diameter	= 8mm
Temperature range	= -15°C to 200°C
TÜV Derated coefficient of discharge α_w	= 0.67 From 3 Bar.g 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

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

SERIES E VALVE
 TYPE 81888, 81788, 81188
 BRASS
 TYPE 82888, 82788, 82188
 BRASS/ST.STL.

SHEET 1 OF 3 SHEETS

FLOW CHART (P.E.D.)

- 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	PRESSURE RANGE BELOW 3 BAR.G				PRESSURE RANGE ABOVE 3 BAR.G																
	0.55	1	2	3	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	9	12	20	27	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	31.6	44.5	70.7	94.9	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:

- 81888, 82888 = TUV, B.S. (P.E.D.)
- 81788, 82788 = A.S.M.E. & N.B.
- 81188, 82188 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

VALVE SELECTION CHART

#	INLET CONNECTION	ORDERING CODE	TOP FITTING CODE		81 TYPE DIM'N 'A' A/F HEX (mm)	82 TYPE DIM'N 'A' A/F HEX (mm)	81 TYPE INLET THRD DIM'N 'L'
			R	SL			
#	G 1/4 (1/4" BSP PARALLEL)	81888 81788 81188	1213	0413	19.0	25.6	10
#	R 1/4 (1/4" BSP TAPER)		1223	0423			12
#	1/4" NPT		1233	0433			12
	G 3/8 (3/8" BSP PARALLEL)	81188	1243	0443	20.6		10
	R 3/8 (3/8" BSP TAPER)	82888 82788 82188	1253	0453	19.0		12.5
	3/8" NPT		1263	0463			15.3
	G 1/2 (1/2" BSP PARALLEL)		82188	1273			0473
	R 1/2 (1/2" BSP TAPER)	1283	0483	19			
	1/2" NPT	1293	0493	19			

Example: Ordering code 81888 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



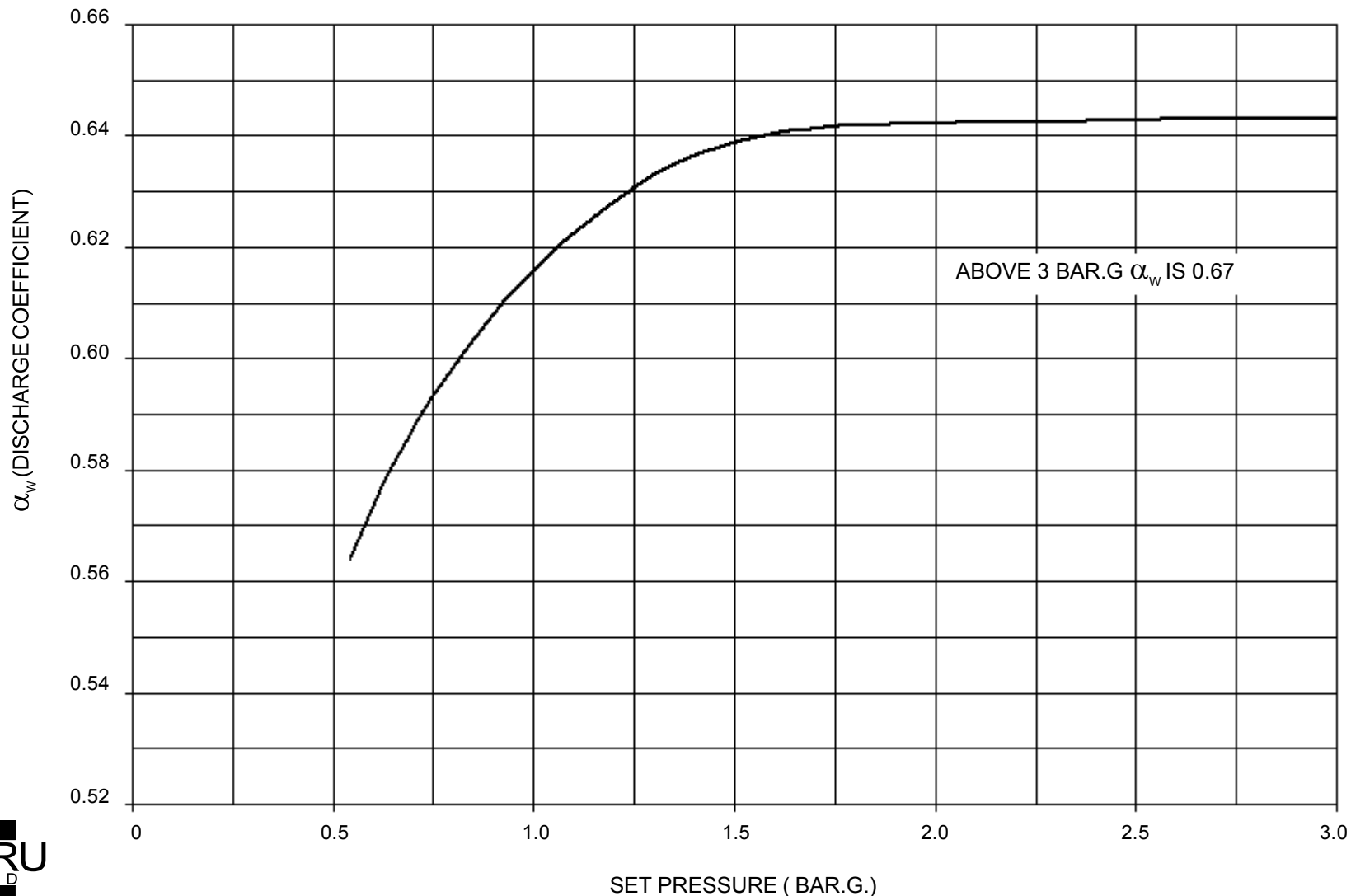
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PRESSURE/DISCHARGE CURVE FOR VALVE 81888
0.55 - 3.0 BAR.G.



ABOVE 3 BAR.G α_w IS 0.67



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