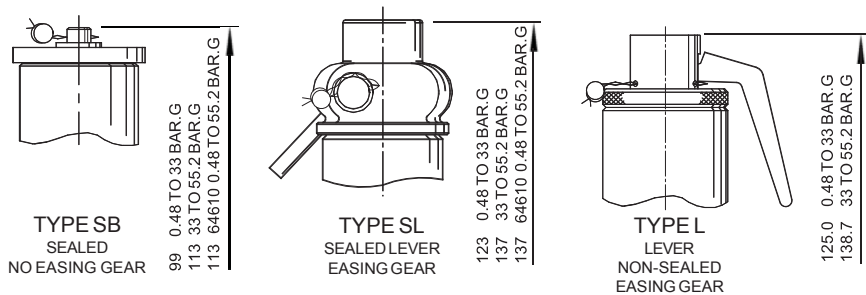


ILLUSTRATED SHOWING
TYPE R
ROTA-LIFT
EASING GEAR
(seal arrangement shown
for above 1.55 Bar.g)

ALTERNATIVE TOP FITTINGS



(OPTION NOT AVAILABLE FOR
64610 & 65610 TYPE VALVES)

PARTS LIST AND MATERIAL SPECIFICATION

	63610	63710, 63110	64610, 64710, 64110 *	65610 *	65710, 65110 *
1 INLET SEAT	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316) SA-479 S31600	ST.STL. BS EN 10088-3 1.4401 (316) SA-479 S31600	
2 TUTCHTITE SEAL	TO SUIT APPLICATION				
3 SEAL RETAINER	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	ST.STL. BS EN 10088-3 1.4401 (316)	
4 PLUNGER	BRASS BS EN 12164 CW602N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW602N	
5 BODY	BRONZE / GUNMETAL BS EN 1982 CC491K SB-62 C83600		ST.STL. BS EN 10283 1.4408 (316) SA-351 CF8M	BRONZE / GUNMETAL BS EN 1982 CC491K SB-62 C83600	
6 SPRING	ST.STL. BS EN 10270-3 1.4310 (302)				
7 SPINDLE	ST.STL. BS EN 10088-3 1.4057 (431)				
8 ADJUSTER	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW614N	
9 CAP	BRASS BS EN 12164 CW614N		ST.STL. BS EN 10088-3 1.4401 (316)	BRASS BS EN 12164 CW614N	
10 NAMEPLATE	AL. ALLOY				
11 WIRE & SEAL	ST. STL & LEAD				

* 64610 & 65610 TYPE VALVES, SEE 'TYPE L' OPTION NOTE.

APPROVALS

AD 2000-Merkblatt A2: (TÜV Germany), Ref- TÜV.SV.**-728.9.5.D/G.0,78.p. (1.55 to 55.2 BAR.G.)
TÜV.SV.**-728.10.D/G.α_w.p. (0.48 to 1.55 BAR.G.)

P.E.D. 2014/68/EU.

Type examination module B, Cert. No. 01 202 642-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%	(0.1 Bar.g. below 1.0 Bar.g)
Reseating pressure	= Set pressure -10%	(0.3 Bar.g minimum)
Maximum set pressure	= 55.2 Bar.g	(12 Bar.g Steam)
Minimum set pressure	= 0.48 Bar.g	(A.S.M.E. 1.55 Bar.g)
Flow area	= 70.9 mm ²	(Above 1.55 Bar.g)
	= 78.5 mm ²	(Below 1.55 Bar.g)
Inlet bore diameter	= 9.5 mm	(Above 1.55 Bar.g)
	= 10 mm	(Below 1.55 Bar.g)
TÜV allotted outflow coefficient α _w	= 0.78	(Below 1.55 Bar.g see graph)
NB Certified rated slope	= 1.71 scfm/psia	
Minimum lift at 10% overpressure	= 2.9 mm	
Temperature Range	= -30°C to 200°C	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.		

SHEET 1 OF 3 SHEETS



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

10mm Nominal Bore
DIRECT SPRING LOADED ENCLOSED
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR, GASES & STEAM

ENCLOSED DISCHARGE
10mm NOMINAL BORE SERIES M/2
TYPE 63610, 63710, 63110 BRASS
TYPE 64610, 64710, 64110 ST.STL.
TYPE 65610, 65710, 65110 BRASS/ST.STL.

FLOW CHART (P.E.D.) AIR

TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

FOR GREATER FLOWS REFER TO 13mm BORE TYPE 63613 DATA SHEET, FOR LOWER FLOWS REFER TO SEETRU.

SET PRESSURE Bar _g	PRESSURE RANGE														
	0.48	1	1.55	2	3	4.5	5	10	15	20	30	33	40	50	55.2
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std. Litres/s	14	22	29	34	46	63	69	128	187	245	363	398	480	598	659
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013 mbar Normal m ³ /h	48	77	102	121	162.4	224.5	245.3	452.4	659.5	866.7	1280.9	1405.2	1695.2	2109.5	2325

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

SET PRESSURE Psig	23	30	40	50	75	100	150	200	300	400	500	600	700	800
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH A.S.M.E. AIR AT 60°F AND 14.7 psia/scfm	70	82	100	119	166	213	307	401	589	777	966	1154	1342	1530

* DISCHARGING TO ATMOSPHERE

FLOW CHART (P.E.D.) SATURATED STEAM

SET PRESSURE Bar _g	0.48	1	1.55	2	3	4	5	6	7	8	9	10	11	12
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH BS EN 4126 STEAM Kg/hr	37	59	76	95	126	158	189	220	251	282	313	344	374	405
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TÜV STEAM Kg/hr	37	59	79	93	125	157	189	220	253	285	316	348	380	412

VALVE TYPE OPTIONS:

- 63610, 64610, 65610 = TUV, B.S. (P.E.D.)
- 63710, 64710, 65710 = A.S.M.E. & N.B.
- 63110, 64110, 65110 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)

VALVE SELECTION CHART

Standard thread sizes shown, other sizes may be available

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE			
			R	SB	SL	L *
G 3/8 (3/8" BSP PARALLEL)	G 3/4 (3/4" BSP PARALLEL)	63610A 63710A 63110A 64610A 64710A 64110A 65610A 65710A 65110A	2043	1243	4043	3243
R 3/8 (3/8" BSP TAPER)			2053	1253	4053	3253
3/8" NPT			2063	1263	4063	3263
G 1/2 (1/2" BSP PARALLEL)			2073	1273	4073	3273
R 1/2 (1/2" BSP TAPER)			2083	1283	4083	3283
1/2" NPT			2093	1293	4093	3293
G 3/4 (3/4" BSP PARALLEL)			2103	1303	4103	3303
R 3/4 (3/4" BSP TAPER)			2113	1313	4113	3313
3/4" NPT			2123	1323	4123	3123

Example:

Ordering code 63610A 207 3 is brass construction. Rota lift type R, with 1/2" BSP parallel inlet connection, 3/4" BSP parallel outlet connection with Viton® seals & wirelocked.

* 'TYPE L' OPTION NOT AVAILABLE FOR 64610 & 65610 TYPE VALVES.

Seal material:

Last digit of ordering code calls up Viton® seal (since this is the most universal type).

When other material is required last digit changes to:

1. NITRILE
3. VITON®
5. NEOPRENE
6. ETHYLENE PROPYLENE
8. PERFLUOROELASTOMER

For advice on seal material selection refer to Technical Information Section A.



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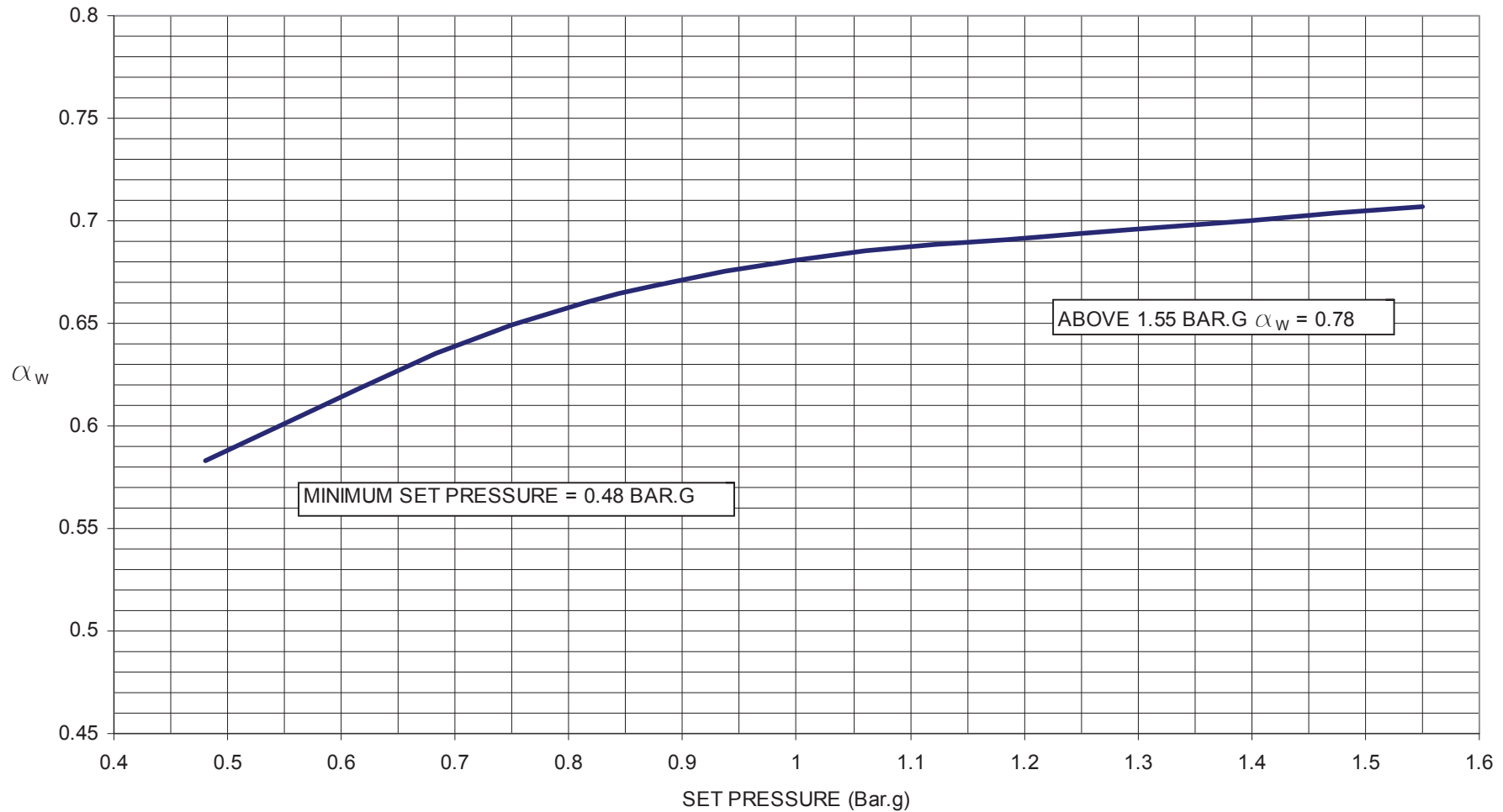
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SHEET 2 OF 3 SHEETS

ENCLOSED DISCHARGE
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 TYPE 63610, 63710, 63110 BRASS
 TYPE 64610, 64710, 64110 ST.STL.
 TYPE 65610, 65710, 65110 BRASS/ST.STL.

ALLOTTED OUTFLOW COEFFICIENT FOR SET PRESSURES BELOW 1.55 BAR.G



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SHEET 3 OF 3 SHEETS

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