

ILLUSTRATED SHOWING
TYPE R
ROTA-LIFT
EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

	61610	62610
1 INLET SEAT	BRASS	ST.STL.
2 TUTCHTITE SEAL	SEE SELECTION CHART	
3 SEAL RETAINER	BRASS	ST.STL.
4 PLUNGER	BRASS	
5 BODY	BRASS	
6 SPRING	ST.STL.	
7 SPINDLE	ST.STL.	
8 ADJUSTER	BRASS	
9 LIFTING CAP	BRASS	
10 NAMEPLATE	AL. ALLOY	
11 WIRE AND SEAL	ST.STL & LEAD	

FLOW CHART

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION
- FOR GREATER FLOWS REFER TO 13mm BORE TYPE 61613 DATA SHEET, FOR LOWER FLOWS REFER TO 8mm BORE TYPE 81808/61682 DATA SHEETS

SET PRESSURE Barg (CURRENT APPROVED RANGE)	2.3	3	4	5	6	7	8	9	10	15	20	25	30	31	35	40	44
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	38	47	59	71	82	94	106	118	130	190	250	309	369	381	429	489	536
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013 mbar Normal m ³ /h	124.0	151	189.5	228.0	266.5	305.0	343.5	382.0	420.5	613.0	805.5	998	1190.5	1229	1383	1576	1730

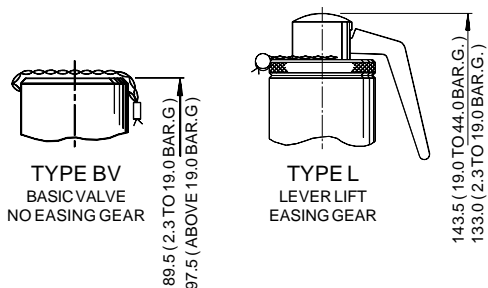
APPROVALS

BS 6759 Part 2 & Part 3 1984 For steam & gas.
Ad-Merkblatt A2 1993: (TÜV Germany) Ref - TÜV.SV .01 - 622.9.6.D/G.0,71.p. I.S.O. 4126 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

TECHNICAL DATA

Relieving pressure = Set pressure + 10%
Reseating pressure = Set pressure - 10% (0.3 Bar.g minimum)
Maximum set pressure = 44 Bar.g
Minimum set pressure = 2.3 Bar.g
Flow area = 72.4 mm²
Inlet bore diameter = 9.6 mm
BS Derated coefficient of discharge K_{dr} = 0.78
TÜV Derated coefficient of discharge α_w = 0.71
BS Minimum lift at 10% overpressure = 2.7 mm
Temperature Range = -20°C to 200°C subject to seal material.
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.

ALTERNATIVE TOP FITTINGS



VALVE SELECTION CHART

Standard sizes shown, other sizes may be available.

INLET CONNECTION	ORDERING CODE	TOP FITTING CODE		
		R	BV	L
R 1/2 (1/2" BSP TAPER)	61610 62610	0083	0483	7683
R 3/4 (3/4" BSP TAPER)		0113	0513	7713

Example:
Ordering code 616100083 is Rotalift easing gear, 1/2" BSP taper inlet connection Viton® seals and wirelocked.
Seal Material:
Last digit of order 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

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



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10mm Nom. Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ATMOSPHERIC
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES.

ATMOSPHERIC DISCHARGE
SERIES M/1
TYPE 61610 BRASS
TYPE 62610 BRASS / ST. STL.