

**ATMOSPHERIC DISCHARGE
8mm NOMINAL BORE SERIES M/1
HIGH PRESSURE
TYPE 61682**

PARTS LIST & MATERIAL SPECIFICATION

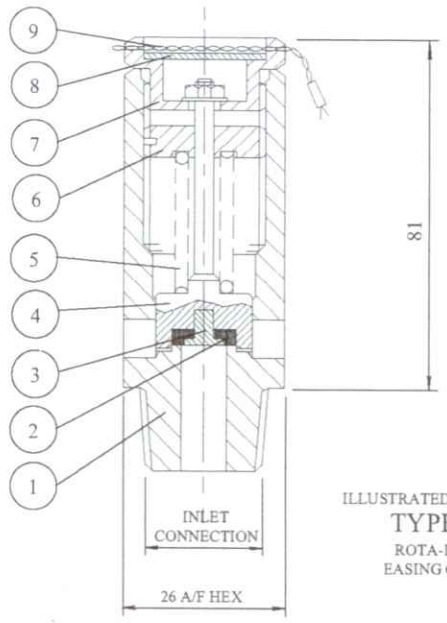
1	BODY	BRASS BS2874 CZ121
2	TUTCHTITE SEAL	SUIT APPLICATION
3	SEAL RETAINER	BRASS BS2874 CZ121
4	SPINDLE/PLUNGER	BRASS BS2874 CZ121
5	SPRING	ST STL BS2056 302S26
6	ADJUSTER	BRASS BS2874 CZ121
7	CAP	BRASS BS2874 CZ121
8	NAMEPLATE	AL. ALLOY
9	WIRE & SEAL	ST STL & LEAD

APPROVALS

Ad-Merkblatt A2 1993: (TÜV Germany)
 Ref. TÜV SV 92-685.8.0.D/G 0,70.p.
 Designed in accordance with I.S.O. 4126 & BS 6759
 Part 2 & Part 3 1984 for Steam & Gas. A.O.T.C.
 approval ref- TC86011.

TECHNICAL DATA

Relieving pressure = Set pressure + 10%
 Reseating pressure = Set pressure - 10%
 Maximum set pressure = 34 bar.g
 Minimum set pressure = 14.5 bar.g
 Flow area = 50.27 mm²
 Inlet bore diameter = 8.0 mm
 BS Derated coefficient of discharge $K_d = 0.78$
 TÜV Derated coefficient of discharge $\alpha_d = 0.70$
 BS Minimum lift at 10% overpressure = 2.5 mm
 Temperature Range = -20°C to 200°C subject to seal material.
 Stable operation on flows down to 80% of valve rated capacity.
 FOR FURTHER INFORMATION, INSTALLATION AND OPERATION INSTRUCTIONS, CONVERSION FACTORS ETC. SEE TECHNICAL INFORMATION SECTION.



ILLUSTRATED SHOWING
TYPE R
ROTA-LIFT
EASING GEAR

FLOW CHART - TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.

FOR GREATER FLOWS REFER TO 10mm BORE TYPE 61610 DATA SHEET, FOR LOWER FLOWS REFER TO HIGH PRESSURE 7.9mm BORE TYPE 31176 DATA SHEET

SET PRESSURE bar.g	14.5	15	16	17	18	19	20	25	30	34
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	128	132	141	149	157	166	174	216	257	291
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013 mbar Normal m ³ /h	406.8	420.0	446.4	472.8	498.8	525.2	551.5	683.4	815.2	920.6

VALVE SELECTION CHART

Standard sizes shown, other sizes may be available.

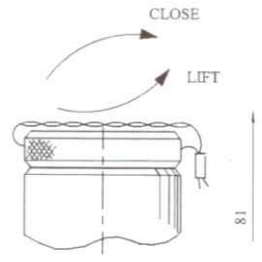
INLET CONNECTION	ORDERING CODE	TOP FITTING CODE		
		R	BV	PR
R 3/8 (3/8" BSP TAPER)	61682	0053	0453	8853
R 1/2 (1/2" BSP TAPER)		0083	0483	8883

Example: Ordering code **61682 0083** 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

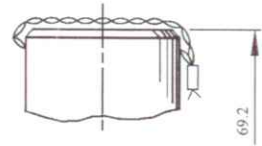
For advice on seal selection refer to Technical Information Section A.

PREFERRED TYPE

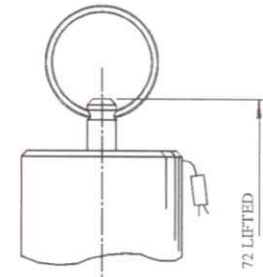


TYPE R
ROTA-LIFT
EASING GEAR

ALTERNATIVE TOP FITTINGS



TYPE BV
BASIC VALVE
NO EASING GEAR



TYPE PR
PULL RING
EASING GEAR

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

**ATMOSPHERIC DISCHARGE
SERIES M/1
TYPE 61682**