



ILLUSTRATED SHOWING
TYPE SL
SPINDLE LIFT
EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

1	BODY	BRASS
2	TUTCHTITE SEAL	TO SUIT APPLICATION
3	SPRING	ST.STL.
4	CAP	BRASS
5	PLUNGER	BRASS
6	SET SCREW	STEEL
7	WIRELOCKING	ST.STL. & LEAD

APPROVALS

Designed in accordance with ISO 4126-1:1991
P.E.D. 97/23/EC
Type examination module B, Cert No. 2002/034/8878/2
Quality management system module D, Cert. No. EDS0002011/01

TECHNICAL DATA

Relieving pressure = Set pressure + 10%
Reseating pressure = Set pressure - 15%
Maximum set pressure = 134.5 Bar.g
Minimum set pressure = 20.6 Bar.g
Flow area = 8.0 mm²
Inlet bore diameter = 3.2 mm
Derated coefficient of discharge K_{dr} = 0.54
Temperature Range = -50°C to 200°C subject to seal material.

FOR FURTHER INFORMATION, INSTALLATION AND OPERATION INSTRUCTIONS, CONVERSION FACTORS ETC. SEE TECHNICAL INFORMATION SECTION.

FLOW CHART

TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

FOR GREATER FLOWS REFER TO 8mm BORE LOW PRESSURE TYPE 61682 or 33110 DATA SHEETS, FOR LOWER FLOWS REFER TO SEETRU

SET PRESSURE Bar.g	20.6	30	40	50	60	70	80	90	100	110	120	130	134.5
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	19.7	28.4	37.6	46.8	56.0	65.1	74.3	83.5	92.7	101.9	111.0	120.2	124.4

VALVE SELECTION CHART

Standard thread sizes shown, other sizes may be available

INLET CONNECTION	ORDERING CODE	TOP FITTING CODE
		SL
R 1/4 (1/4" BSP TAPER)	31180	0703
G 1/4 (1/4" BSP PARALLEL)		0203

Example:

Ordering code 31180 0703 is Spindle lift type easing gear. 1/4" BSP taper inlet connection, wirelocked with Viton® seals.

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
- 2. VITON®
- 3. NITRILE
- 4. NEOPRENE
- 5. NEOPRENE
- 6. ETHYLENE PROPYLENE

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



SEETRU LIMITED

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**3mm Nom. Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ATMOSPHERIC
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES**

**ATMOSPHERIC DISCHARGE
MINISERIES
HIGH PRESSURE
TYPE 31180**

REVISION LOG FOR 31180

EDITION:E

<u>Date</u>	<u>Letter</u>	<u>Details of change.</u>	
26.06.92	A	First edition. Produced on Desk Top Publishing equipment.	
26.11.92	B	'Greater Flows' reference was 61681, now 61682 / 33110.	
20.08.97	C	Flow Chart was corrected. Max. set pressure was 96.5 Bar.g. now 110 Bar.g. Data Sheet updated & produced by the Design Office.	Mod. Request DS-068.
27.05.03	D	Data sheet updated, Hanover Place - removed from address. Web site & e-mail address added to template. P.E.D. approval's added to list. Max set pressure was 110 Bar.g, min set press was 20.7 Bar.g. Kdr was 0.40 now 0.54, flow chart altered to suit. Wirelocked spindle lift option deleted. Dim 40 now 42 lifted. 'Statement on amendment of specification' added to template.	Mod. Request DS-202.
21.03.11	E	Due to approvals, the Data Sheet should show Wire locking! Valve now shown wirelocked, VSC edited to show correct codes for wirelocked bodies, was 060 3 & 010 3. [DATA SHEETS ARE NOW MODIFIED UNDER STANDARD MOD. No. SYSTEM]	Mod No. 6143



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