

## PARTS LIST & MATERIAL SPECIFICATION

	61618	62618
1 INLET SEAT	BRASS BS EN 12164 CW614N	ST.STL. BS EN 10088-3 1.4401 (316)
2 TUTCHTITE SEAL	SUIT APPLICATION	
3 SEAL RETAINER	BRASS BS EN 12164 CW614N	ST.STL. BS EN 10088-3 1.4401 (316)
4 PLUNGER	BRASS BS EN 12164 CW614N	
5 BODY	BRASS BS EN 12164 CW614N	
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	
9 CAP	BRASS BS EN 12164 CW614N	
10 NAMEPLATE	AL.ALLOY	
11 WIRE & SEAL	ST.STL. & LEAD	
12 O'RING	TO SUIT APPLICATION	

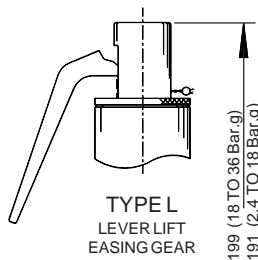
## APPROVALS

Designed in accordance with BS 6759 Part 2 & Part 3 1984.  
 Ad-Merkblatt A2: (TÜV Germany) TÜV.SV.11-622.18,0.D/G.0,81.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  
 Meeting the requirements of the A.S.M.E. Boiler & Pressure Vessel Code section VIII for air.  
 UV Cert. of Authorisation: 35757  
 Capacities certified by the National Board of Boiler & Pressure Vessel Inspectors.

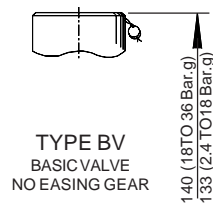
## TECHNICAL DATA

Relieving pressure = Set pressure +10%  
 Reseating pressure = Set pressure -10% (0.3 Bar.g minimum)  
 Maximum set pressure = 36 Bar.g  
 Minimum set pressure = 2.1 Bar.g  
 Flow area = 254.5mm<sup>2</sup>  
 Inlet bore diameter = 18.0mm  
 TÜV Derated coefficient of discharge  $\alpha_w$  = 0.81  
 Temperature Range = -30°C to 180°C subject to seal material.  
 NB Certified rated slope = 6.04 scfm/psia  
 BS Minimum lift at 10% overpressure = 6 mm  
 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.

### PREFERRED TYPE



### ALTERNATIVE TOP FITTINGS



## SEETRU LIMITED

ALBION DOCKSIDE WORKS, BRISTOL. BS1 6UT  
 TELEPHONE +44 (0) 117 927 9204, FAX +44 (0) 117 929 8193  
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18mm Nom. Bore BRASS CONSTRUCTION  
 DIRECT SPRING LOADED ATMOSPHERIC  
 DISCHARGE SAFETY VALVE FOR  
 COMPRESSED AIR OR GASES

ATMOSPHERIC DISCHARGE  
 SERIES M/1 TYPE  
 61618, 61718, 61118 BRASS  
 62618, 62718, 62118  
 BRASS / ST.STL.

SHEET 1 OF 2

## FLOW CHART

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

- FOR GREATER FLOWS REFER TO 61620 OR 63620 DATA SHEET, FOR LOWER FLOWS REFER TO 13mm BORE TYPE 61613 DATA SHEET

SET PRESSURE Bar.g	2.1	3	4	5	6	7	8	9	10	15	20	25	30	35	36
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013 mbar Normal m³/h	466.5	605.5	760	914.5	1069	1223	1378	1532	1686.5	2459	3231	4003	4775.5	5548	5702

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

SET PRESSURE Psi.g	30.45	40	50	60	70	80	90	100	150	200	250	300	350	400	450	500	522
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E. AIR AT 60°F AND 14.7 psia/scfm	291	355	421	487	554	620	687	753	1085	1418	1750	2082	2414	2746	3079	3411	3557

### VALVE TYPE OPTIONS:

- 61618 = TUV, B.S. (P.E.D.)  
 61718 = A.S.M.E. & N.B.  
 61118 = A.S.M.E. & N.B. TUV, B.S. (P.E.D.)

### VALVE SELECTION CHART

Standard sizes shown, other sizes may be available.

INLET CONNECTION	ORDERING CODE	TOP FITTING CODE		
		L	R	BV
R 1 (1" BSP TAPER)	61618	7743	0143	0543
	61718			
	61118			
R 1 1/2 (1 1/2" BSP TAPER)	62618	7803	0203	0603
	62718			
	62118			

Example:

Ordering code 61618 0143 is Rota-Lift easing gear. 1" 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 the last digit changes to:-

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

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



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SHEET 2 OF 2

# REVISION LOG FOR 61618

EDITION: J

Date	Edition	Letter	Details of change.	
01.10.91	A		First issue with D.O. verification. Produced on desk top publishing equipment.	
16.10.91	B		The word 'INERT' removed from the title.	
04.06.92	C		Technical information ref. updated.	
05.03.93	D		Brass / Stainless Steel option added.	
25.11.96	E		Flow chart corrected. Data Sheet updated & produced by the Design Office.	Mod. Request DS-036.
28.04.98	F		Inlet bore dia. was 17.9mm now 18mm (in the 'Technical Data'), flow chart corrected to suit.	Mod. Request DS-091.
29.01.01	G		'Lever-lift' views now show the new version. Height increase from 180 to 199 & 172 to 191. 'Statement on amendment of specification' added to template.	Mod. Request DS-144.
18.02.02	H		P.E.D. Type examination & quality management certificate no.'s added to 'Approval' notes. 'Knob-lift' option deleted from alternative top fittings & from 'Valve Selection Chart'. TUV date was '96 now '01. Pressure range extended downwards from 2.4 Bar.g to 2.1 Bar.g. Main view was 'Lever-lift' now 'Rota-lift', parts list altered to suit.	Mod. Request DS-161.
25.02.04	I		Viton now has '®' registered trademark. A.O.T.C. approval ref TC86011, deleted. Copyright statement, added to template. Seetru address, e-mail and website altered/added. Temperature corrected, max was 200°C, now 180°C. Ref. to steam in 'Approvals' removed. Ad-Merkblatt date updated was 1993 now 1998. BS discharge removed from 'Technical Data' and from 'Flow Chart'.	Mod. Request DS-210.
16.09.11	J		Valve type options 61718 & 61118 added. <b>A.S.M.E.</b> & National Board approval, Material Part's list, Flow Chart & Technical Data, added to all. Sheet 2 added. Ad-Merkblatt date '1998' removed. TUV date was '01' updated to '11'. Temperature range was -20 Deg C now -30 Deg C [for Nitrile]. [DATA SHEETS ARE NOW MODIFIED UNDER STANDARD MOD No. SYSTEM]	Mod 6247



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