



ILLUSTRATED SHOWING  
TYPE BV  
BASIC VALVE  
NO EASING GEAR

### PARTS LIST & MATERIAL SPECIFICATION

|   |           |                       |
|---|-----------|-----------------------|
| 1 | BODY      | BRASS BS2874 CZ121    |
| 2 | SEAL      | PERFLUOROELASTOMER    |
| 3 | PLUNGER   | BRASS BS2874 CZ121    |
| 4 | SPRING    | ST.STL. BS2056 302S26 |
| 5 | ADJUSTER  | BRASS BS2874 CZ121    |
| 6 | NAMEPLATE | AL.ALLOY              |

### VALVE SELECTION CHART

| INLET CONNECTION          | ORDERING CODE | TOP FITTING CODE | DIM'N 'A' A/F HEX (mm) | DIM'N 'B' THREAD LENGTH (mm) |
|---------------------------|---------------|------------------|------------------------|------------------------------|
|                           |               | BV               |                        |                              |
| G 1/4 (1/4" BSP PARALLEL) | 81806         | 3218             | 17                     | 10                           |
| R 1/4 (1/4" BSP TAPER)    |               | 3228             | 14                     | 12                           |
| 1/4" NPT                  |               | 3238             | 14                     | 12                           |
| G 3/8 (3/8" BSP PARALLEL) |               | 3248             | 20.6                   | 10                           |
| R 3/8 (3/8" BSP TAPER)    |               | 3258             | 17                     | 12.5                         |
| 3/8" NPT                  |               | 3268             | 18                     | 14.2                         |

Example:  
Ordering code 81806 321 8 is Crimped, Basic type construction, 1/4" BSP Parallel inlet, with Perfluoroelastomer seal.

### APPROVALS

Ad - Merkblatt A2 1998: ( TÜV GERMANY ) TÜV.SV.99-963.6,0.D/G.0,67.p.  
Designed in accordance with ISO4126-1:1991  
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%  
Maximum set pressure = 36.0 Bar.g  
Minimum set pressure = 7.0 Bar.g  
Flow area = 28.3 mm<sup>2</sup>  
Inlet bore diameter = 6 mm  
Temperature range = -30°C to 200°C subject to duty.  
TÜV Derated coefficient of discharge  $\alpha_w$  = 0.67

FOR FURTHER TECHNICAL INFORMATION, CONVERSION FACTORS, INSTALLTION AND OPERATING INSTRUCTIONS ETC. SEE TECHNICAL INFORMATION SECTION.

### FLOW CHART

OTHER SET PRESSURES ARE AVAILABLE.

| SET PRESSURE Bar.g  | 7   | 8     | 9   | 10  | 15   | 20   | 25   | 30   | 31   | 36   |
|---|-----|-------|-----|-----|------|------|------|------|------|------|
| RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar (Kg/h)   | 144 | 162.5 | 181 | 199 | 290  | 381  | 472  | 563  | 582  | 673  |
| RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013mbar (lb/min) | 5.3 | 5.9   | 6.6 | 7.3 | 10.6 | 14.0 | 17.3 | 20.7 | 21.4 | 24.7 |



## SEETRU LIMITED

ALBION DOCKSIDE WORKS, BRISTOL. BS1 6UT  
TELEPHONE +44 (0) 117 927 9204, FAX +44 (0) 117 929 8193  
www.seetru.com enquiries@seetru.com

6mm Nom. Bore BRASS CONSTRUCTION  
DIRECT SPRING LOADED ATMOSPHERIC  
DISCHARGE SAFETY VALVE FOR  
REFRIGERANTS

81806  
REFRIGERATION