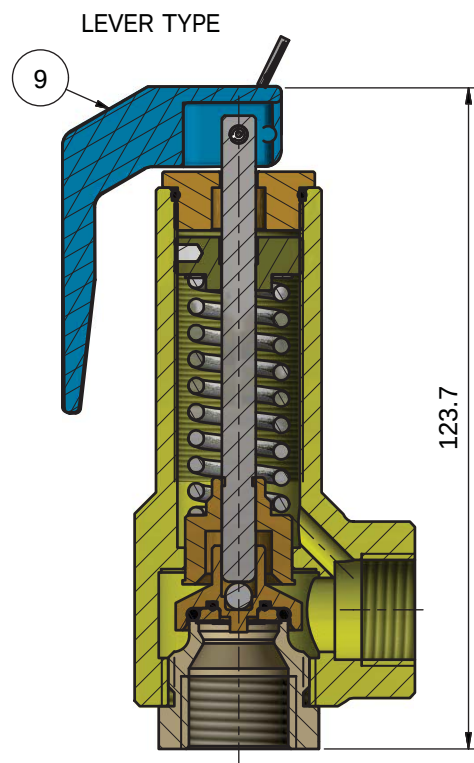
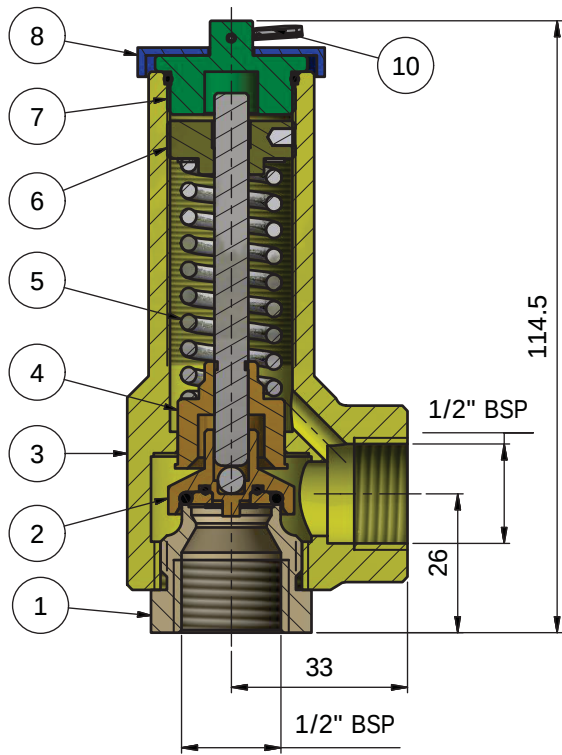




# PARTS LIST AND MATERIAL SPECIFICATION

| ITEM | PART            | MATERIAL                           |
|------|-----------------|------------------------------------|
| 1    | INLET SEAT      | DEZINCIFICATION RESISTANT MATERIAL |
| 2    | SEAL ASSEMBLY   | DEZINCIFICATION RESISTANT MATERIAL |
| 3    | BODY            | BRONZE BS EN 1982 CC491K           |
| 4    | PISTON ASSEMBLY | BRASS BS EN 12164 CW614N           |
| 5    | SPRING          | ST.STL BS EN 10170-3 1.4401        |
| 6    | ADJUSTER        | BRASS                              |
| 7    | CAP             | BRASS                              |
| 8    | COVER           | BRASS                              |
| 9    | LEVER           | BRASS                              |
| 10   | WIRE & SEAL     | ST.STL & LEAD                      |

**APPROVALS:**  
 Designed in accordance with BS EN ISO 4126-1:2013  
 P.E.D 2014/68/EU  
 Quality Management system, module D, Cert. No. COV0812369 /01  
 Type examination module B, Cert. No. 14463-01

WRAS Cert No 1611076

**TECHNICAL DATA:**  
 Overpressure = Set pressure +10% (or 0.1 Bar.g, whichever is greater)  
 Blowdown pressure (Gas & Steam) = Set pressure -15% (or 0.3 Bar.g, whichever is greater)  
 Blowdown pressure (Liquid) = Set pressure -20% (or 0.6 Bar.g, whichever is greater)  
 Maximum set pressure = 24 Bar.g. (subject to seal material)  
 Minimum set pressure = 0.2 Bar.g.  
 Set pressure tolerance = +/-3% of set pressure (or 0.1 Bar.g, whichever is greater)  
 Inlet bore dia = 13.2mm  
 Flow area = 136.85mm<sup>2</sup>  
 Temperature range = -60°C to 200°C subject to seal material (WRAS approval to +85°C)  
 Maximum permissible built up back pressure = 10%  
 Stable operation on flows down to 50% of valve rated capacity.  
 Valve weight: Sealed Cap 0.67 kg  
 Valve weight: Lever Lift 0.71 kg  
 FOR FURTHER INFORMATION, INSTALLATION & OPERATION INSTRUCTIONS, CONVERSION FACTORS ETC. SEE TECHNICAL INFORMATION SECTION.

| INLET CONNECTION | OUTLET CONNECTION | ORDERING CODE | SEALED CAP TYPE | LEVER TYPE |
|------------------|-------------------|---------------|-----------------|------------|
| 1/2" BSP         | 1/2" BSP          | L3615A        | 127             | 327        |

**EXAMPLE**  
 Ordering Code: **L3615A 327 7** is a Lever Type valve with PTFE seal.

Available seal Material:  
 6. EPDM [up to 2.5 Bar g. for Steam application] -45°C to 140°C  
 7. PTFE [up to 14.0 Bar g. for Steam application] -60°C to 200°C



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LGS DN15  
 DIRECT SPRING LOADED ENCLOSED  
 DISCHARGE SAFETY VALVE FOR  
 LIQUID, COMPRESSED GASES & STEAM

ENCLOSED DISCHARGE  
 13.2mm NOMINAL BORE  
 TYPE L0015

DISCHARGE CAPACITY  
FOR WATER @ 10% OVER-PRESSURE  
Kdr FOR LIQUID = 0.26

| SET<br>PRESSURE<br>(bar g.) | SET<br>PRESSURE<br>(psi g.) | kg/hr  | GPM (US) |
|-----------------------------|-----------------------------|--------|----------|
| 0.2                         | 2.9                         | 849.7  | 3.7      |
| 1.0                         | 14.5                        | 1899.9 | 8.4      |
| 2.0                         | 29.0                        | 2686.9 | 11.8     |
| 4.0                         | 58.0                        | 3799.8 | 16.8     |
| 6.0                         | 87.0                        | 4653.8 | 20.5     |
| 8.0                         | 116.0                       | 5373.8 | 23.7     |
| 10.0                        | 145.0                       | 6008.0 | 26.5     |
| 12.0                        | 174.0                       | 6581.5 | 29.0     |
| 15.0                        | 217.5                       | 7358.3 | 32.4     |
| 20.0                        | 290.0                       | 8496.7 | 37.5     |
| 24.0                        | 348.0                       | 9307.6 | 41.0     |

DISCHARGE CAPACITY  
FOR HOT WATER @ 10% OVER-PRESSURE (UNVENTED SYSTEMS)  
Kdr FOR GAS = 0.38

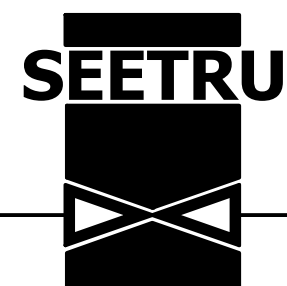
| SET<br>PRESSURE<br>(bar g.) | SET<br>PRESSURE<br>(psi g.) | kW    | BTU/sec |
|-----------------------------|-----------------------------|-------|---------|
| 0.2                         | 2.9                         | 21.1  | 20.0    |
| 1.0                         | 14.5                        | 36.2  | 34.3    |
| 2.0                         | 29.0                        | 55.0  | 52.1    |
| 4.0                         | 58.0                        | 92.6  | 87.8    |
| 6.0                         | 87.0                        | 130.2 | 123.5   |
| 8.0                         | 116.0                       | 167.9 | 159.1   |
| 10.0                        | 145.0                       | 205.5 | 194.8   |
| 12.0                        | 174.0                       | 243.2 | 230.5   |
| 15.0                        | 217.5                       | 299.6 | 284.0   |
| 20.0                        | 290.0                       | 393.7 | 373.2   |
| 24.0                        | 348.0                       | 469.0 | 444.5   |

DISCHARGE CAPACITY  
FOR AIR @ 10% OVER-PRESSURE  
Kdr FOR GAS = 0.38

| SET<br>PRESSURE<br>(bar g.) | SET<br>PRESSURE<br>(psi g.) | l/sec | SCFM  |
|-----------------------------|-----------------------------|-------|-------|
| 0.2                         | 2.9                         | 12.5  | 26.5  |
| 1.0                         | 14.5                        | 21.4  | 45.3  |
| 2.0                         | 29.0                        | 32.5  | 69.0  |
| 4.0                         | 58.0                        | 54.7  | 116.2 |
| 6.0                         | 87.0                        | 76.9  | 163.4 |
| 8.0                         | 116.0                       | 99.2  | 210.6 |
| 10.0                        | 145.0                       | 121.4 | 257.8 |
| 12.0                        | 174.0                       | 143.6 | 305.0 |
| 15.0                        | 217.5                       | 177.0 | 375.8 |
| 20.0                        | 290.0                       | 290.0 | 493.8 |
| 24.0                        | 348.0                       | 277.0 | 588.3 |

DISCHARGE CAPACITY  
FOR SATURATED STEAM @ 10% OVER-PRESSURE  
Kdr FOR STEAM = 0.38

| SET<br>PRESSURE<br>(bar g.) | SET<br>PRESSURE<br>(psi g.) | kg/hr | lb/hr |
|-----------------------------|-----------------------------|-------|-------|
| 0.2                         | 2.9                         | 29.1  | 74.2  |
| 1.0                         | 14.5                        | 59.7  | 127.2 |
| 2.0                         | 29.0                        | 89.7  | 193.4 |
| 4.0                         | 58.0                        | 148.8 | 325.8 |
| 6.0                         | 87.0                        | 207.3 | 458.2 |
| 8.0                         | 116.0                       | 265.4 | 590.7 |
| 10.0                        | 145.0                       | 323.3 | 723.1 |
| 12.0                        | 174.0                       | 381.1 | 855.5 |
| 14.0                        | 203.0                       | 438.9 | 987.9 |



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SHEET 2 OF 2