



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 97/23/EC
 Quality Management system, module D, Cert. No. COV0812369 /01
 Type examination module B, Cert. No. 14463-01

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 = 40.0mm
 Flow area = 1256.6mm²
 Temperature range = -10°C to 200°C subject to seal material
 Maximum permissible built up back pressure = 10%
 Stable operation on flows down to 50% of valve rated capacity.
 Valve weight: Sealed Cap 4.82 kg
 Valve weight: Lever Lift 4.89 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
2" BSP	2" BSP	L3650A	142	342

EXAMPLE

Ordering Code: **L3650A 342 7** is a Lever Type valve with PTFE seal.

Available seal Material:

- 6. EPDM [up to 2.5 Bar g. for Steam application]
- 7. PTFE [up to 14.0 Bar g. for Steam application]



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LGS DN50
 DIRECT SPRING LOADED ENCLOSED
 DISCHARGE SAFETY VALVE FOR
 LIQUID, COMPRESSED GASES & STEAM

ENCLOSED DISCHARGE
 40.0mm NOMINAL BORE
 TYPE L0050

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

SET PRESSURE (bar g.)	SET PRESSURE (psi g.)	kg/hr	GPM (US)
0.2	2.9	7802.3	34.4
1.0	14.5	17446.4	76.9
2.0	29.0	24672.9	108.8
4.0	58.0	34892.8	153.8
6.0	87.0	42734.8	188.4
8.0	116.0	49345.8	217.6
10.0	145.0	55170.3	243.3
12.0	174.0	60436.0	266.5
15.0	217.5	67569.6	297.9
20.0	290.0	78022.6	344.0
24.0	348.0	85469.5	376.9

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

SET PRESSURE (bar g.)	SET PRESSURE (psi g.)	kW	BTU/sec
0.2	2.9	193.7	183.6
1.0	14.5	332.0	314.6
2.0	29.0	504.8	478.4
4.0	58.0	850.4	806.0
6.0	87.0	1196.0	1133.6
8.0	116.0	1541.7	1461.2
10.0	145.0	1887.3	1788.8
12.0	174.0	2232.9	2116.4
15.0	217.5	2751.4	2607.8
20.0	290.0	3615.5	3426.8
24.0	348.0	4306.7	4082.0

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

SET PRESSURE (bar g.)	SET PRESSURE (psi g.)	l/sec	SCFM
0.2	2.9	114.4	243.0
1.0	14.5	196.1	416.4
2.0	29.0	298.2	633.2
4.0	58.0	502.3	1066.7
6.0	87.0	706.5	1500.2
8.0	116.0	910.6	1933.7
10.0	145.0	1114.8	2367.3
12.0	174.0	1318.9	2800.8
15.0	217.5	1625.2	3451.1
20.0	290.0	2135.6	4534.9
24.0	348.0	2543.9	5401.9

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

SET PRESSURE (bar g.)	SET PRESSURE (psi g.)	kg/hr	lb/hr
0.2	2.9	267.6	681.6
1.0	14.5	548.1	1167.9
2.0	29.0	823.6	1775.9
4.0	58.0	1366.2	2991.9
6.0	87.0	1903.1	4207.9
8.0	116.0	2436.8	5423.8
10.0	145.0	2969.2	6639.8
12.0	174.0	3499.2	7855.8
14.0	203.0	4030.0	9071.8



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SHEET 2 OF 2