TI-P029-01 ST Issue 8

## spirax sarco

# Bronze Lift Check Valve

#### **Description**

The LCV1 is a bronze lift check valve which is installed in horizontal lines to prevent reverse flow.

#### **Standards**

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

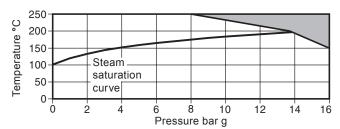
#### Certification

This product is available with certification to EN 10204 2.2. **Note:** All certification/inspection requirements must be stated at the time of order placement.

#### Sizes and pipe connections

1/2", 3/4", 1", 11/4", 11/2", 2" and 3". Screwed BSP or NPT

### Pressure/temperature limits

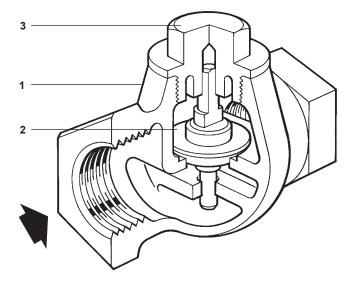


The product **must not** be used in this region.

TMA Maximum allowable temperature  Minimum allowable temperature  PMO Maximum operating pressure for saturated steam service	
TMA Maximum allowable temperature  Minimum allowable temperature  PMO Maximum operating pressure for saturated steam service	PN16
Minimum allowable temperature  PMO Maximum operating pressure for saturated steam service	6 bar g @ 180°C
PMO Maximum operating pressure for saturated steam service	250°C @ 8 bar g
for saturated steam service	-29°C
TMO Maximum operating temperature 2	14 bar g
	250°C @ 8 bar g
Minimum operating temperature	0°C

 $\textbf{Note:} \ \mathsf{For\ lower\ operating\ temperatures\ consult\ Spirax\ Sarco}.$ 

Designed for a maximum cold hydraulic test pressure of 28 bar  ${\tt g}$ 



#### **Materials**

No.	Part	Material	
1	Body	Bronze	EN 1982 CC491K
2	Cone	Brass	BS 2874 CZ 114
3	Сар	Brass	EN 12165 CW617N
4*	Spring	Stainless steel	BS 2056 302 S26

<sup>\*</sup> Not illustrated

#### Ky values

Size	1/2"	3/4"	1"	11/4"	11/2"	2"	3"
K <sub>V</sub>	1.9	4.3	8.5	11.9	18.8	30.8	68.4

For conversion:  $C_V(UK) = K_V \times 0.963$   $C_V(US) = K_V \times 1.156$ 

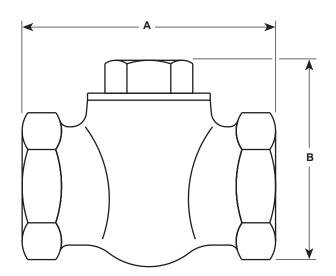
### Opening pressures in mbar

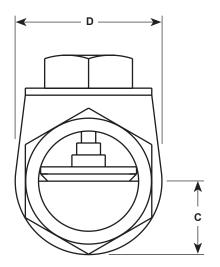
Without springs → Flow pressure						ressures
Size	1/2"	3/4"	1"	11/4"	11/2	2"
<b>→</b>	6.2	7.4	6.5	7.1	7.1	6.9

With springs fitted the opening pressure is the same as the spring strength.

### Dimensions/weights (approximate) in mm and kg

Α	В	С	D	Weight
52	46	18	36	0.2
71	58	20	41	0.5
86	71	28	56	0.8
108	71	28	56	0.8
106	91	36	71	1.9
131	104	43	86	2.7
180	152	61	122	6.9
	52 71 86 108 106 131	52     46       71     58       86     71       108     71       106     91       131     104	52     46     18       71     58     20       86     71     28       108     71     28       106     91     36       131     104     43	52     46     18     36       71     58     20     41       86     71     28     56       108     71     28     56       106     91     36     71       131     104     43     86





**Safety information, installation and maintenance**For full details see the Installation and Maintenance Instructions (IM-P029-06) supplied with the product.

#### Installation note:

Always install the LCV1 horizontally with the flow in the direction indicated on the body.

#### Disposal

This product is recyclable. No ecological hazard is anticipated with the disposal of this product, providing due care is taken.

#### **Spare parts**

There are no spare parts available for this product.

#### How to order

**Example:** 1 off Spirax Sarco 11/4" LCV1 lift check valve having screwed BSP connections.