



Cert. No. LRQ 0963008

ISO 9001

# spirax sarco

TI-P029-01  
ST Issue 5

## LCV1

## Bronze

## Lift Check Valve

### Description

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

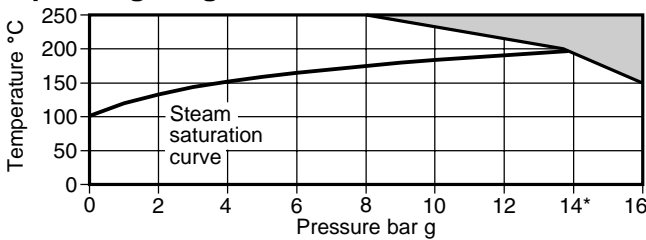
### Sizes and pipe connections

½", ¾", 1", 1¼", 1½", 2" and 3".  
Screwed BSP or NPT

### Limiting conditions

Body design conditions	PN16
PMA - Maximum allowable pressure	16 bar g
TMA - Maximum allowable temperature	250°C
Designed for a maximum cold hydraulic test pressure of 28 bar g	

### Operating range



The product must not be used in this region.

\*PMO - Maximum operating pressure when used for steam service.

### K<sub>v</sub> values

Size	½"	¾"	1"	1¼"	1½"	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) =  $K_v \times 0.97$        $C_v$  (US) =  $K_v \times 1.17$

### Opening pressures in mbar

Size	½"	¾"	1"	1¼"	1½"	2"
→	6.2	7.4	6.5	7.1	7.1	6.9

Without springs      → Flow pressures  
With springs fitted the opening pressure is the same as the spring strength.

### Materials

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

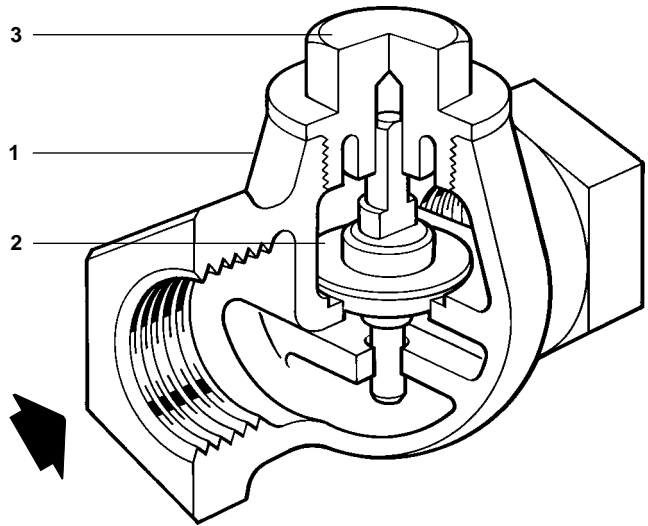
\* Not illustrated

### Installation

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

### How to order

**Example:** 1 off Spirax Sarco LCV1 lift check valve having 1¼" BSP connections.



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

Size	A	B	C	D	Weight
½"	53	46	18	36	0.2
¾"	71	58	20	41	0.5
1"	86	71	28	56	0.8
1¼"	86	71	28	56	0.8
1½"	109	91	36	71	1.9
2"	135	104	43	86	2.7
3"	180	152	61	122	6.9

