

Cryogenic, Steam, Water, Air & Gases  
 Max Working Pressure 4,200 Kpa (610 psi)  
 Cleaned for Oxygen Service



The Mack short stem cryogenic cylinder valve has been designed from the ground up, to provide a robust and dependable shut-off device for use on portable cylinders. Its clever design enables it to move from fully closed to fully open, without changing the overall height, making it perfect for application in the tight confines of a liquid cylinder.

Inherent complexity of the cylinder valve means that each part (forged and machined) is carefully inspected before assembly, to ensure its been machined as per design specifications and tolerances. This practice ensures its dependability through application, in the tight confines, yet not risking leaks and safety of the surrounding environment.

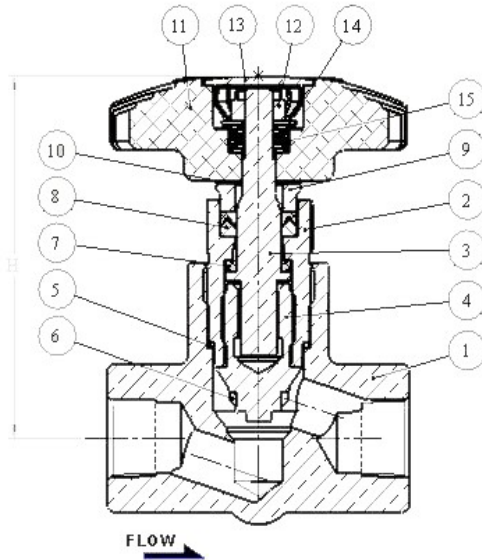
### SELECTION & APPLICATION

The liquid cylinder valve will operate in any liquid cylinder application to aid the filling and withdrawal process. It will operate from -196°C through to +70°C. It has a forged body to ensure the strength required to operate under the high pressure situations. Beyond the performance benefits, varying length pipe ends can be manufactured to aid in vessel manufacture, while the cap over the handle nut, can be custom printed for application.

### PRODUCT NUMBERING

Liquid Cylinder Valve										
LC	-	##					##		-	###
Base No.	-	Material of Construction					End Connection		-	Size (mm)
		Body		Trim		Disc				
LC		2	Brass	2	Brass	PCTFE	08	Rc - BSPT		008
							8A	NPT		010
							8F	Stub Ends		015

All build options are available from Mack on special order, thus enabling clients to create their own specifications for their own specific needs, but our stock is based around common material specifications favoured by the cryogenic, steam and general process industries.



ITEM NO.	DESCRIPTION
1	Body
2	Bonnet
3	Upper Stem
4	Lower Spindle
5	Gasket
6	Disc
7	Stem Seal Gasket
8	Packing Ring
9	Packing Gland
10	Top Washer
11	Handwheel
12	Nut
13	Hub Cap
14	Washer
15	Spring Washer

	Face to Face		Height mm	Handwheel ØG mm	Orifice mm	Cv US Gal/Min	Kv m <sup>3</sup> /hr	Weight kg
	NPT/BSPT mm	Stub Ends (50mm Long) mm						
8mm	64.5	164.5	70	70	6.25	1.09	0.94	0.6
10mm	64.5	164.5	70	70	10.25	2.02	1.74	0.57
15mm	64.5	164.5	70	70	10.25	2.08	1.79	0.54

**Notes:**

- 1) Degreased, packed and labelled for Oxygen Service (ASTM G93)
- 2) Spring loaded to take account of any wear

