

SPECIFICATION SHEET

Cylinder valve (CV-5)

These cylinder valves are intended for use with 200 or 300 bar cylinders containing an M18 x 1.5mm parallel-thread. Both 200 and 300 bar valve outlets have the same female thread form, with the 300 bar version having a longer outlet, and a pilot vent hole in the side to prevent the inadvertent connection and pressurisation of 200 bar equipment. Additionally, the valve outlet is engraved with either '200' or '300' to denote the correct application.

Some versions of cylinder valve contain a replaceable burst-disc within the valve body so that if the internal air pressure within the cylinder exceeds approximately 270 bar (on 200 bar cylinders) or 405 bar (on 300 bar cylinders), a small metal diaphragm will rupture, harmlessly releasing the contents to atmosphere.

All valves are fitted with a hand-wheel that engages with a ratchet disc. The hand-wheel is spring-loaded and rotates freely when the valve is opened, but must be pulled to disengage the ratchet prior to closing the valve.

On this type of cylinder valve, the hand-wheel is located at ninety degrees to the cylinder valve outlet.

The hand-wheel locates onto a square shank on the upper spindle. The opposite end of the upper spindle has a hexagonal socket, which engages on the hexagonal shank of the lower spindle. The upper and lower spindles rotate within a gland nut, which is screwed into the valve body.

The valve is closed by a nylon seat (located within the lower spindle), which is pushed against a conical jet in the valve body. If the hand-wheel is turned in a clockwise direction, the nylon seat screws into the valve body until the conical jet is closed. Turning the hand-wheel in an anti-clockwise direction withdraws the nylon seat from the valve body, thereby opening the conical jet.

Material Specification

Body	Nickel plated brass
Spindle	Brass
Handwheel	TPU
O-Rings	Nitrile
Buffer	Polychloroprene Rubber

Connection Type

DIN type to EN144-2

Handwheel

Locking handwheel – Spring loaded ratchet mechanism

Valve Neck Thread Type

M18 x 1.5 Parallel to EN144-1

Pressure

Available in 200 and 300 bar maximum operating pressure, tested to one and a half times maximum operating pressure

Cylinder valve assembly

The cylinder valve shall be in accordance with EN 144-2 and the valve will feature a safety locking hand wheel that can be turned on using one hand. The locking hand wheel will prevent the cylinder valve being inadvertently turned.

Created by Tony Pickett – Product Manager

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Pimbo Road • Skelmersdale • Lancashire • England • WN8 9RA Telephone: +44 (0) 1695 711711 • Fax: +44 (0) 1695 711772

www.scottsafety.com • scott.sales.uk@tycointl.com



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