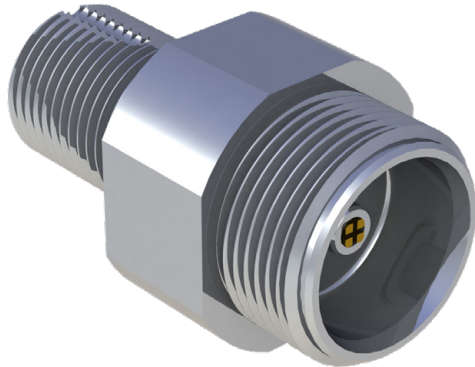


CV414-SC Datasheet

SELF-CLOSING CYLINDER VALVE



● Gas ● Liquid | Max Rating: 414 bar (6,000 psi) | Cv 0.06



TPED
PENDING

INTRODUCING THE CV414-SC...

The CV414-SC is a self-closing cylinder valve for high pressure gas systems, offering users a quick and simple disconnect feature.

When connected, it provides a continual supply of gas to the system. If a cylinder refill is required, the CV414-SC's low torque design means it is easy for users to disconnect the valve to isolate the gas supply, even under high pressure, whilst the valve remains attached to the gas cylinder.

Plus, as an optional extra, a burst disc may be added to offer additional gas cylinder protection.

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body	AISI 316/316L Stainless Steel (UNS S31600/S31603)
Seat	PCTFE
Valve Spring	Inconel® X750
O-Rings	EPDM

SPECIFICATION

Max. Rating	414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	Bubble-tight shut-off

Operating Temperatures	-45°C to +65°C
Weight	0.14kg (0.3lbs)
Certifications	TPED pending

FEATURES AND BENEFITS

1 EASY DISCONNECT FEATURE

Offers a low torque, quick and easy disconnect when a cylinder refill is required.

2 CONTINUAL OPERATION

When connected, the CV414-SC offers a continual supply of gas from the cylinder.

3 LIGHTWEIGHT & COMPACT

It weighs 0.14kg and is just under 50mm (wide).

4 EASY FILLING

Quick cylinder filling connection provides a long life-span.

5 OPTIONAL BURST DISC

For extra gas cylinder protection.

Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues. Pressure Tech Ltd support with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements.



DESIGNED AND BUILT IN THE UK

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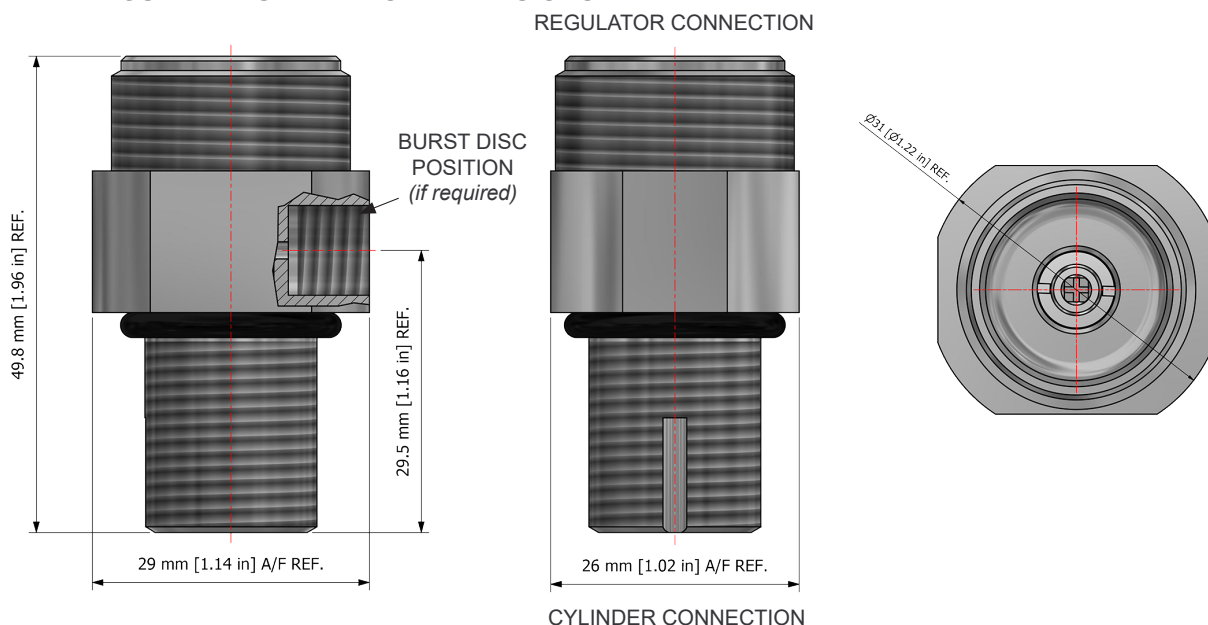
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DRAWINGS AND INSTALLATION DIMENSIONS



ORDERING INFORMATION

To build a Pressure Tech part number, simply combine the characters identified below in sequence:

CV414 - SC - S - 02C - NBD				
VALVE MODEL/SERIES				BURST DISC PORT
CV414 – Cylinder Valve				NBD – No Burst Disc Port
				BDE – Burst Disc Port with 3/8"-24 UNF Thread
				BDN – Burst Disc Port with M11 x 0.75 Thread
TYPE				CYLINDER CONNECTION
SC – Self-Closing				01C – 5/8"-18 UNF Cylinder (Male)
				02C – M18 x 1.5 Cylinder (Male)
BODY MATERIAL				
S – AISI 316/316L Stainless Steel (UNS S31600/S31603)				

OPTIONAL EXTRAS

The following burst discs are available to order separately - please contact the office to enquire or order:

	REF.	THREAD	CYLINDER RATED PRESSURE	MAX.	MIN.
Burst Discs	BD0*	M11 x 0.75	300 bar (4,350 psi)	450 bar (6,525 psi)	427 bar (6,195 psi)
	BD1	3/8"-24 UNF	310 bar (4,500 psi)	517 bar (7,500 psi)	419 bar (6,075 psi)
	BD2*	M11 x 0.75	350 bar (5,075 psi)	525 bar (7,615 psi)	498 bar (7,225 psi)
	BD3*	M11 x 0.75	414 bar (6,000 psi)	621 bar (9,005 psi)	590 bar (8,555 psi)

Note: Burst disc selection is the users' responsibility and the information displayed is for guidance only.

TRADEMARKS: Inconel® is a registered trademark of Inco Alloys International

* Burst disc meets the requirements of ASME UG-134 E and CGA S1.1 standards

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