

# CV414-SC Datasheet

SELF-CLOSING CYLINDER VALVE



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



*Note:*  
TPED approval applies up to 350 bar (5,075 psi).

## INTRODUCING THE CV414-SC...

The CV414-SC is a TPED approved 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, a burst disc may be added to offer additional gas cylinder protection.

## TPED

TPED is a certification required for applications involving the transportation of pressure equipment including gas cylinders and their valves. The CV414-SC is TPED 2010/35/U certified for up to 350 bar (5,075 psi).

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Seat	PEEK™ (450G) PCTFE (Kel-F)
O-Rings	EPDM (Ethalyne)

## SPECIFICATION

Max. Rating	414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	Bubble-tight shut-off
Operating Temperatures	-40°C to +65°C
Weight	0.14kg (0.3lbs)

*Note:* Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

## FEATURES AND BENEFITS

<b>1</b> EASY DISCONNECT FEATURE	<b>2</b> CONTINUAL OPERATION	<b>3</b> TPED APPROVED (UP TO 350 BAR)	<b>4</b> EASY FILLING	<b>5</b> OPTIONAL BURST DISC
Offers a low torque, quick and easy disconnect when a cylinder refill is required.	When connected, the CV414-SC offers a continual supply of gas from the cylinder.	For the transportation of pressure equipment including gas cylinders and their valves.	Quick cylinder filling connection provides a long life-span.	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.



### PRESSURE TECH LTD

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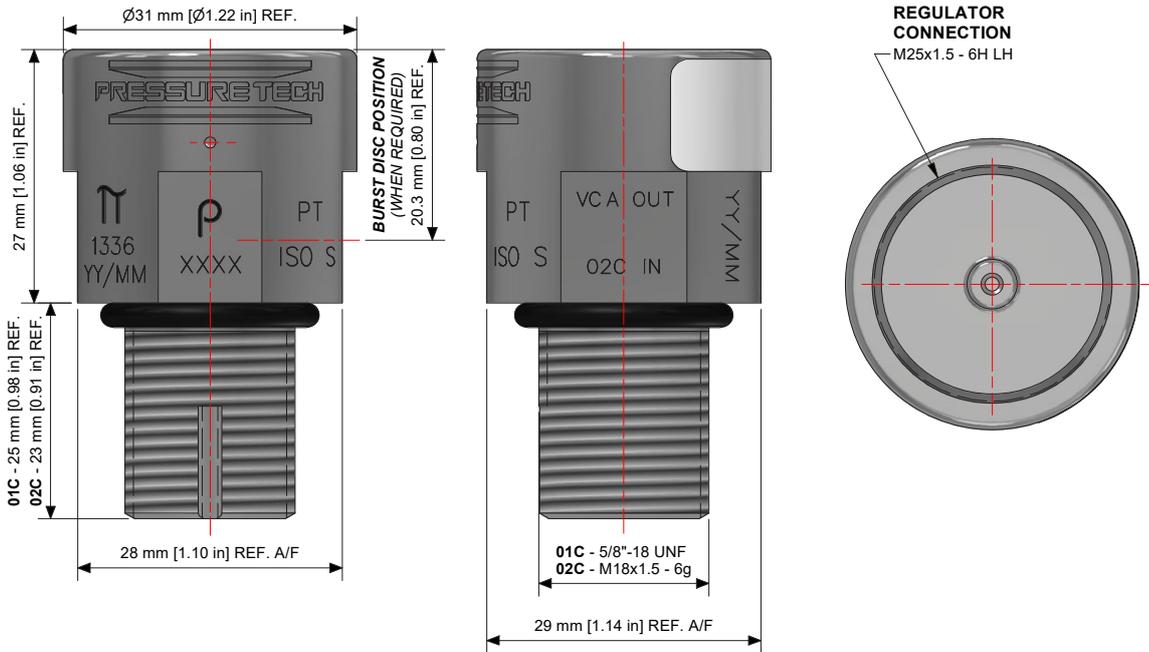
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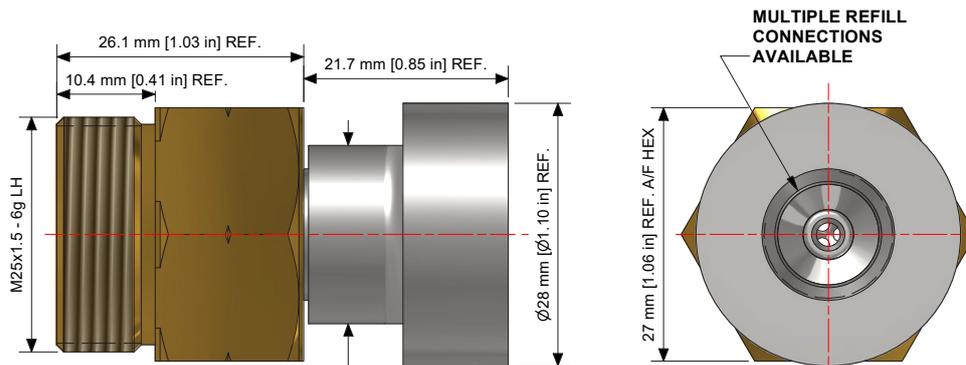
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## DRAWINGS AND INSTALLATION DIMENSIONS



## CV414 REFILL ADAPTOR

Empty gas cylinders can be easily refilled via our CV414-SC and refill adaptor (*sold separately*).



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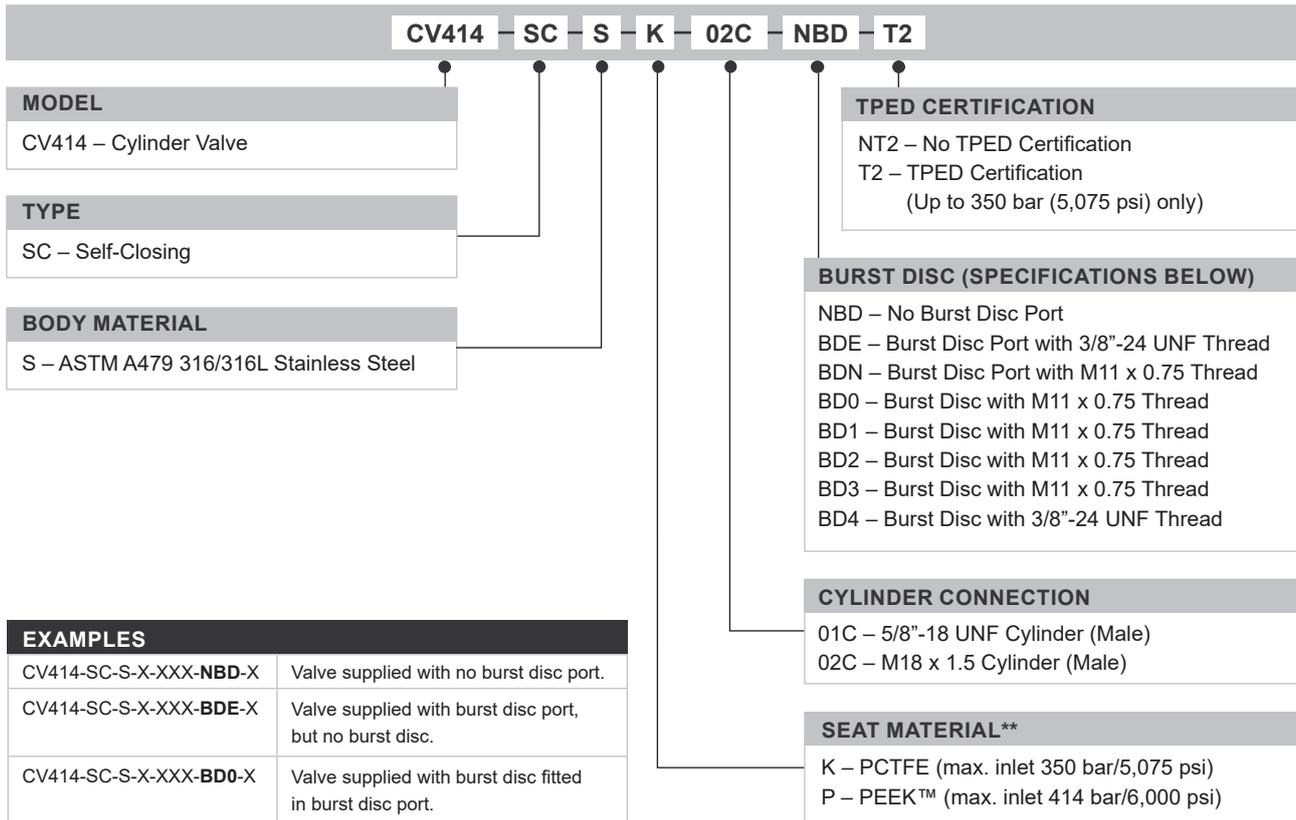
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## ORDERING INFORMATION

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



BURST DISC SPECIFICATIONS					
Burst discs are also available to order separately, as spares - 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*	M11 x 0.75	310 bar (4,500 psi)	517 bar (7,500 psi)	491 bar (7,120 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)
	BD4	3/8"-24 UNF	310 bar (4,500 psi)	517 bar (7,500 psi)	491 bar (7,120 psi)

*Note 1:* Burst disc selection is the users' responsibility and the information displayed is for guidance only.  
*Note 2:* The maximum and minimum pressures shown above represent bursting pressures at 20°C.

**TRADEMARKS:** Inconel® is a registered trademark of Inco Alloys International  
 PEEK™ is a trademark of Victrex PLC

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

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