LIGHTWEIGHT TWO-STAGE PRESSURE REGULATOR



💿 Gas 🌔	Liquid 🔵 Diaphragm	• Piston	 Self- Venting 	 Non- Venting 	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 1 bar (14.5 psi)	Cv 0.06
		INIET					
					STANDARD MATERIALS	S OF CONSTRUCTION	

INTRODUCING THE LW-TS414...

The LW-TS414 is a lightweight, two-stage pistonsensed regulator, providing stable pressure control under decaying inlet conditions.

The first stage of the regulator uses a PCTFE seat for up to 300 bar (4,350 psi) inlet pressure or a PEEK™ for up to 414 bar (6,000 psi) inlet pressure and is preset at the factory and locked to prevent alteration.

The second stage of the regulator, with a PCTFE seat as standard, can be adjusted by the user between various outlet pressures with the selected range.

PART	MATERIALS		
Body and Bonnet	Aluminium Alloy (AW6082)		
Main Valve Pin	AISI 316/316L Stainless Steel (UNS S31600/S31603)		
First-Stage Seat	PCTFE (max. inlet 300 bar (4,350 psi)		
Thist-Olage Deal	PEEK™ (max. inlet 414 bar (6,000 psi)		
Second-Stage Seat	PCTFE		
Valve Spring	Inconel [®] X750		
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)		
O-Rings	FKM/FPM		
Loading Spring	AISI 302 Stainless Steel (UNS S30200)		

In accordance with ANSI/FCI 70-3

-20°C to +150°C

0.54kg (1.2lbs)

SPECIFICATION

Max. Rated Inlet Pres	sure 414 bar (6,000 psi)
Outlet Ranges	Up to 1 bar (14.5 psi)
Design Proof Pressure	e 150% max. working pressure

* Pressure regulator rating may be limited by connection type, Cv and/or seat material

FEATURES AND BENEFITS



Seat Leakage

Weight

Operating Temperatures

* Operating temperature range is provided as a guide only

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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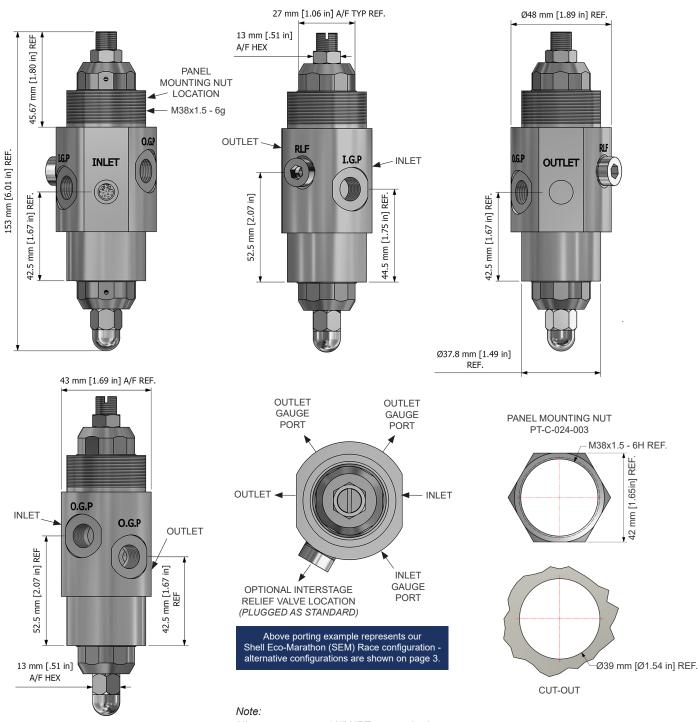
LIGHTWEIGHT TWO-STAGE PRESSURE REGULATOR



PRESSURE TECH

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" BSPP option - please contact the office for additional connection options.



All gauge ports are 1/4" NPT as standard.

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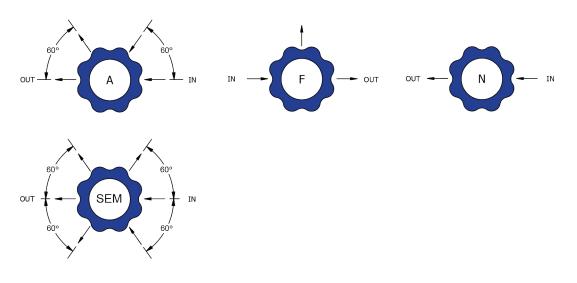
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💿 Gas 🕒 Liquid 📄 Diaphragm	Piston Self- Ventir	ng • Non- Venting	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 1 bar (14.5 psi)	Cv 0.06

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note: Additional porting configurations may be available - please contact the office for further information.

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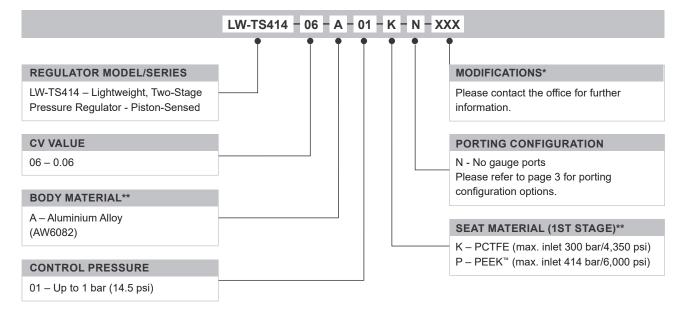
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● Gas ● Liquid ● Diaph	ragm 💿 Piston	Self- Venting • Non- Venting	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 1 bar (14.5 psi)	Cv 0.06	

ORDERING INFORMATION

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



OPTIONAL EXTR	AS	
	PART NUMBER	DESCRIPTION
Service Kit	SRK-LW-TS414-06-K	PCTFE SEAT and FKM/FPM seals
<i>Note:</i> Ancillary equipme	ent also available	

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

* Where applicable

** Other materials may be available - please contact the office

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