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



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.

SPECIFICATION

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

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

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	Aluminium Alloy (AW6082)
Main Valve Pin	AISI 316/316L Stainless Steel
Wall Valve I III	(UNS S31600/S31603)
First Stage Seat	PCTFE (max. inlet 300 bar (4,350 psi)
First-Stage Seat	PEEK™ (max. inlet 414 bar (6,000 psi)
Second-Stage Seat	PCTFE
Valve Spring	Inconel® X750
Piston	AISI 316 / 316L Stainless Steel
1 131011	(UNS S31600 / S31603)
O-Rings	FKM/FPM
Loading Spring	AISI 302 Stainless Steel
Loading Spring	(UNS S30200)

Seat Leakage	In accordance with ANSI/FCI 70-3
Operating Temperatures	-20°C to +150°C
Weight	0.54kg (1.2lbs)

^{*} Operating temperature range is provided as a guide only

FEATURES AND BENEFITS

TWO-STAGE **DESIGN**

> Accurate pressure control through two-stages of pressure reduction.

0.04% DECAYING PRESSURE EFFECT

> Stable pressure control under varying inlet conditions.

SOLID DISK **SEAT DESIGN**

> Perfect for use in aggressive or harsh conditions challenging conditions.

LIGHTWEIGHT **DESIGN**

> Aluminium body provides users with a lightweight pressure control solution.

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





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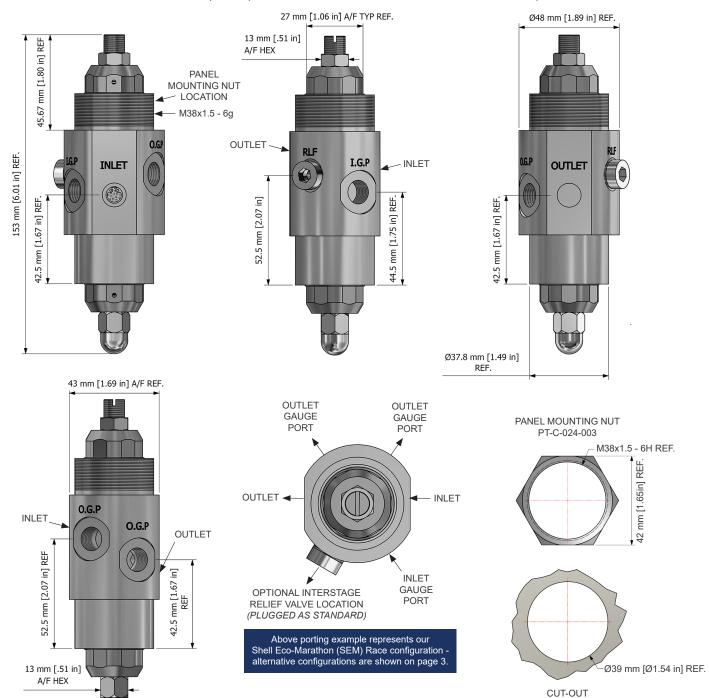
Max Inlet: 414 bar (6,000 psi)

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DRAWINGS AND INSTALLATION DIMENSIONS

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



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





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Note:



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Max Inlet: 414 bar (6,000 psi)

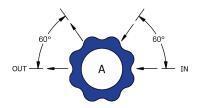
Max Outlet: 1 bar (14.5 psi)

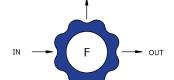
Cv 0.06

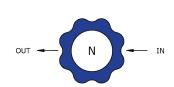
FLOW CURVE

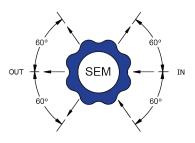
Please contact the office for further information.

PORTING CONFIGURATIONS









Note:

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

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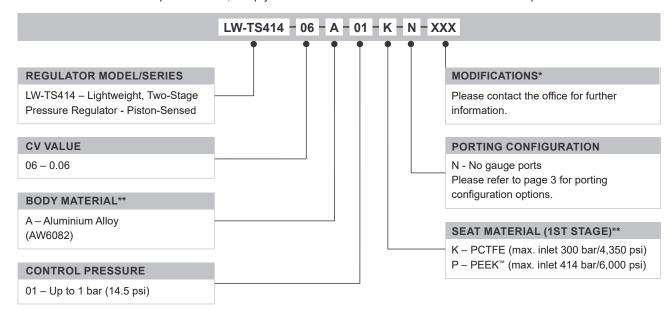
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Cv 0.06

ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-LW-TS414-06-K	PCTFE SEAT and FKM/FPM seals

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

* Where applicable

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^{**} Other materials may be available - please contact the office