LIGHTWEIGHT TWO-STAGE PRESSURE REGULATOR



• Gas	Liquid	Diaphragm	Piston	 Self- Venting 	 Non- Venting 	Max Inlet: 4	114 bar (6,000 psi)	Max Outlet:	1 bar (14.5 psi)	Cv 0.06
		đ								
		IC.P IN	LET							

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 PEEKTM 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.

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS	
Body and Bonnet	Aluminium T6511 (UNS AW6082)	
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)	
First-Stage Seat	PEEK™ (450G)	
Filst-Stage Seat	PCTFE (Kel-F)	
Second-Stage Seat	PCTFE (Kel-F)	
Valve Spring	Inconel [®] X750 (UNS N07750)	
Piston	ASTM A479 316/316L Stainless Steel	
O-Rings	FKM/FPM (Viton)	
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)	

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

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

FEATURES AND BENEFITS



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 Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH +44 (0)1457 899 307 | sales@pressure-tech.com | www.pressure-tech.com DESIGNED, MANUFACTURED AND BUILT IN THE UK © 2024 Pressure Tech Ltd. All Rights Reserved.



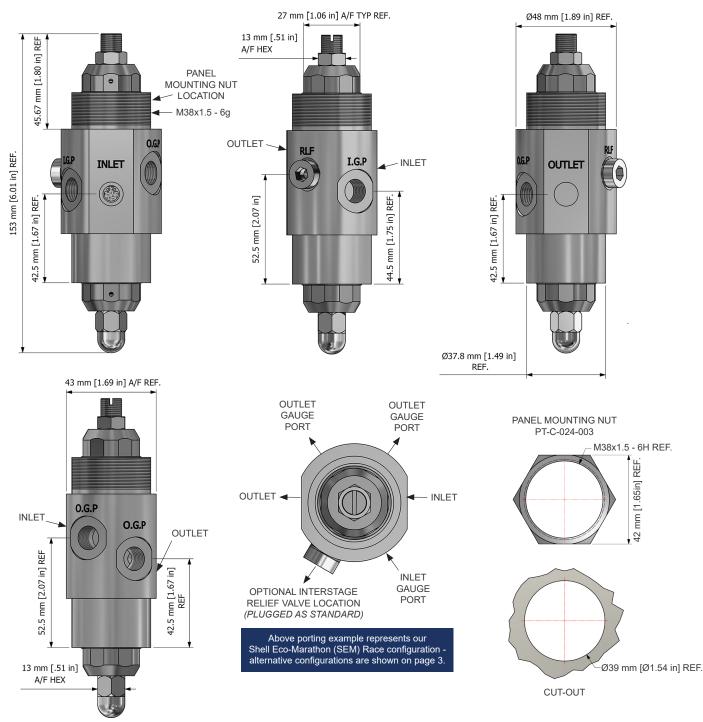
LIGHTWEIGHT TWO-STAGE PRESSURE REGULATOR



PRESSURE TECH

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" BSPP and standard configurations only – please contact the office for other options.



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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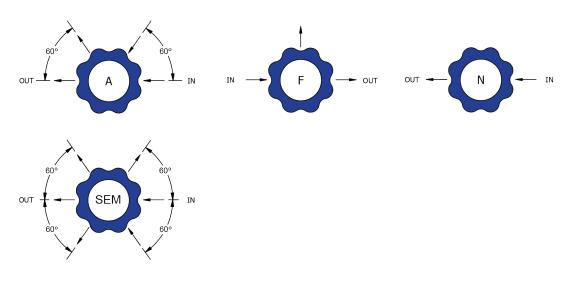


● Gas ● Liquid ● Diaphragm ● Pistor	Self- Venting Venting	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 1 bar (14.5 psi)	Cv 0.06

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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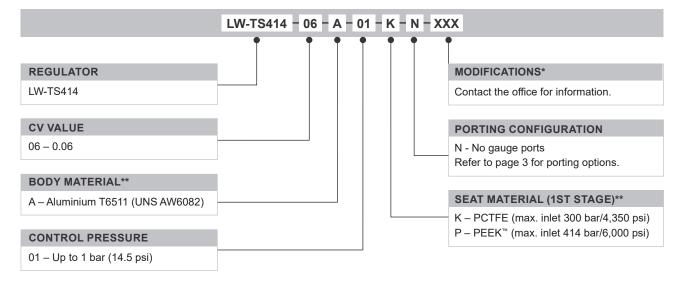
LIGHTWEIGHT TWO-STAGE PRESSURE REGULATOR



● Gas ● Liquid ● Diaphragm ● Piston ● Self- Venting ● 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 EXTRA	S	
	PART NUMBER	DESCRIPTION
Service Kit	SRK-LW-TS414-06-K	PCTFE SEAT and FKM/FPM seals
<i>Note:</i> Ancillary equi	pment also available	

TRADEMARKS: PEEK[∞] is a trademark of Victrex PLC Inconel[®] is a registered trademark of Inco Alloys International * Where applicable ** Other materials may be available

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