



# PRESSURE TECH

## Company Overview



# Welcome to Pressure Tech

Established in 2000, I am proud to say that Pressure Tech is a family business with customer service and quality at the heart of our operation. Equally, we pride ourselves on having the technical know-how and professionalism typically associated with larger corporate companies.

Based in the North-West UK, our facilities house the entire process from design, manufacturing and assembly through to sales, purchasing and accounts. The Pressure Tech name is now recognised globally for manufacturing high-quality pressure regulators, and we are supported by a worldwide network of Authorised Resellers.

**Steve Yorke-Robinson**  
*Managing Director of Pressure Tech*



We passionately believe that our products and all-round service represent a market-leading offering, and here's why:

### EXPANDING OUR EXPERIENCE

Our team of over 45 people includes a combination of long-term employees offering extensive product experience and understanding of the applications they have been used on, with the more recent addition of employees who have added specialist knowledge in areas such as strategic business management. It is this blend that continues to add strength and value to our core business of designing and manufacturing high-quality pressure regulators.

### PARTNERING WITH CUSTOMERS

Whether it's offering general advice or help finding a specific solution to an application, our close-working internal infrastructure allows us to respond to questions promptly and effectively to allow our customers to make quick decisions with confidence. Not every system is the same and sometimes 'off-the-shelf' products may not be suitable for some applications. Our sales and design teams work closely with customers to ensure products are designed to meet their exact needs.

### GLOBAL REACH

Our products are used worldwide with 70% being exported for use on critical high-pressure control systems such as wellhead control panels, gas analyser systems, hyperbaric diving systems and the latest hydrogen technology. We continually listen to customer feedback to ensure product realisation is achieved. Our products are supplied to an ever-increasing customer base ranging from family businesses like our own to blue chip multinationals, meaning we offer a personal touch combined with the capacity to fulfil larger projects.

# In-House Capabilities...

## QUALITY

As a company we have always understood the critical importance of maintaining quality throughout our business. We constantly aspire to provide products and services that not only meet, but exceed the requirements of our customers.

It is our long-term commitment to quality that has created a 'quality culture' here at Pressure Tech. When decisions are made, be it to the design of a product, the sourcing of raw materials, or the processes under which we operate, quality and the requirements of our customers are of primary consideration.



## DESIGN



We take great pride in being able to design bespoke solutions to fulfil customer requirements. This in-house service is one of the many reasons why existing customers come back to us time and again, and why, off the back of recommendations, new customers approach Pressure Tech when an off-the-shelf product just won't suffice.

## MANUFACTURING



Our in-house machine shop is operated by an experienced team of machinists and is overseen by our Operations Manager. Regular investments in machinery ensure we have the capacity to maintain stock of 'standard' components for competitive lead times, and to provide the production flexibility to quickly respond to urgent customer requirements.

## ASSEMBLY



Our in-house team of skilled assembly and testing engineers work closely with our design and manufacturing departments, whilst workload is strategically managed and scheduled by our Planning Manager using the latest shop-floor loading software. This strategic approach ensures customer orders are fulfilled on-time.

# Product Range

## ANALYSER & INSTR.



Our Analyser and Instrumentation range includes options such as gas cylinder regulators, two-stage regulators and ATEX certified (2014/34/EU) heated regulators.

## HYDRAULIC



Our extensive range of piston-sensed hydraulic regulators feature precision machined sensing elements for control to 1,380 bar (20,000 psi).

## LOW FLOW



Primarily for use on oxygen, carbon dioxide, natural gas, methane, ammonia, argon, nitrogen and helium. Combined sensor and spring options allow low torque adjustment.

## MEDIUM FLOW



Primarily for gas service. Diaphragm sensed elements control up to 10 bar (145 psi) and piston-sensed elements covering up to 414 bar (6,000 psi). Ports 1/2" to 1".

## HIGH FLOW



Diaphragm and piston-sensed with port sizes from 1/2" to 3" using threaded or flanged connections. Pressure control available up to 600 bar (8,700 psi).

## BACK PRESSURE



Covering port sizes from 1/8" to 2" and controlling pressures from 0.1 bar (2 psi) to 690 bar (10,000 psi) on gas or liquid applications. Accurate and repeatable shut-off.

## DIVING



Cleaned and degreased within the guidelines of ASTM G93 for equipment used in oxygen-enriched environments, and on life support or hyperbaric diving applications.

## HYDROGEN



Our hydrogen range has been designed specifically for applications including refuelling stations, vehicles, drones, forklifts, and electrolyzers.

## SUBSEA



Designed to operate at depths of up to 3,000m (10,000ft). Can use external seawater as a reference pressure, or can be sealed to operate at topside ambient pressures.

# Page...

**05****ANALYSER & INSTRUMENTATION**

MINI300, LF310, LF240, TS310, TS311, CYL310, CYL540, ACS101, ACS240, ACS310, ACU310, XHS410, XHS411, XHR310, XHR311, XHR310 (STEAM) and XHM410.

**09****HYDRAULIC**

LGC690, MF414H, HYD691, LF690, DF1034 and LF691.

**11****LOW FLOW**

LF311, LF540 and LF792.

**12****MEDIUM FLOW**

MF101, MF230, MF231, MF210, MF301, MF400, MF401 and MF414G.

**14****HIGH FLOW**

HF300, HF301, HF250, HF251, HF600, HF210 and HF211.

**16****BACK PRESSURE**

BP010, BP300, BP301, BP-LF540, BP-LF690, BP-LF691, BP-MF690 (05), BP-MF690 (15), BP-MF691 (05), BP-MF400 and BP-MF401.

**19****DIVING**

LF310, MF101D, LF540, MF301D, MF300T and BIBS100.

**21****HYDROGEN**

LW351, CV414-SC, AUTO438, A875, H875, M875, RF1034, LW438, LW-TS414 and BP301.

**23****SUBSEA**

SS-COM301, SS690, SS691, SS414, SS-BP400, SS231 and Electric Actuator.

**25****VALVES**

AVC/AVO690 and AVC/AVO1034.


**26****BOLTED FLANGES**


The Pressure Tech solution - available on all regulators.


**27****ORDERING INFORMATION**


How to Order, Cv Formulae, What Information We Require and Notes Pages.


# Analyser & Instrumentation Regulators


	<b>MINI300</b> COMPACT							
	PISTON-SENSED		316SS THREADED BONNET		OPTIONAL ADJUSTMENT METHODS		LIGHTWEIGHT & COMPACT	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1/8"	0.06	Gas	210 bar (3,045 psi)	PCTFE	100 bar (1,450 psi)	Piston	Non	
			300 bar (4,350 psi)	PEEK™				


	<b>LF310</b> LOW-FLOW							
	INCONEL® X750 DIAPHRAGM		316SS THREADED BONNET		40 MICRON INLET FILTER		SOLID DISK SEAT DESIGN	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1/4"	0.06 0.15	Gas	50 bar (725 psi)	FEP	35 bar (510 psi)	Inconel® X750 Diaphragm	Non	
			300 bar (4,350 psi)	PCTFE				
			414 bar (6,000 psi)	PEEK™				

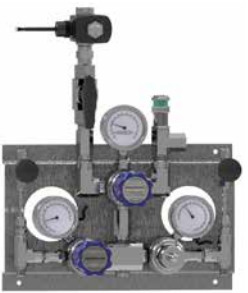
	<b>LF240</b> LOW-FLOW							
	LARGE ELASTOMERIC DIAPHRAGM		LIGHTWEIGHT & COMPACT		LOW DECAYING PRESSURE EFFECT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1/4"	0.06	Gas	300 bar (4,350 psi)	PCTFE	10 bar (145 psi)	PTFE-Lined Elastomeric Diaphragm	Non	
			414 bar (6,000 psi)	PEEK™				

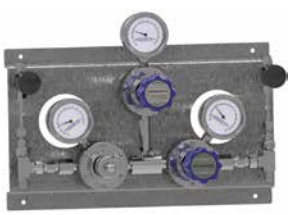
	<b>TS310</b> TWO-STAGE							
	METAL-TO-METAL SEATING DIAPHRAGM		0.04% DECAYING PRESSURE EFFECT		'INTERSTAGE' RELIEF VALVE OPTION			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENT OPTION
1/4"	0.06	Gas	300 bar (4,350 psi)	PCTFE	25 bar (360 psi)	Inconel® X750 Diaphragm	Non	
			414 bar (6,000 psi)	PEEK™				

	<b>TS311</b> TWO-STAGE		PISTON-SENSED   0.04% DECAYING PRESSURE EFFECT		'INTERSTAGE' RELIEF VALVE OPTION		40 MICRON INLET FILTER	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENT OPTION
	1/4"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	20 bar (290 psi)	Piston	Non


	<b>CYL310</b> CYLINDER ASSEMBLY		CUSTOMISABLE TO SUIT APPLICATION		INCONEL® X750 DIAPHRAGM		SOLID DISK SEAT DESIGN   40 MICRON INLET FILTER	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	35 bar (510 psi)	Inconel® X750 Diaphragm	Non


	<b>CYL540</b> CYLINDER ASSEMBLY		COMPACT DESIGN		PISTON-SENSED		SELF OR NON-VENTING   40 MICRON INLET FILTER	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.1	Gas	550 bar (7,975 psi)	PEEK™	35 bar (510 psi)	Piston	Non or Self


	<b>ACS101</b> AUTO-CHANGEOVER		MEDICAL / LAB APPLICATIONS		OPTIONAL SECOND-STAGE REGULATOR		STANDALONE OR WALL-MOUNTABLE	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.5	Gas	300 bar (4,350 psi)	PCTFE or PEEK™	20 bar (290 psi)	Piston	Non


	<b>ACS240</b> AUTO-CHANGEOVER		MEDICAL / LAB APPLICATIONS		~8 BAR PRESSURE CHANGEOVER		OPTIONAL SECOND-STAGE REGULATOR   STANDALONE OR WALL-MOUNTABLE	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas	300 bar (4,350 psi)	PCTFE or PEEK™	10 bar (145 psi)	PTFE-Lined Elastomeric Diaphragm	Non


# Analyser & Instrumentation Regulators






	<b>ACS310</b> AUTO-CHANGEOVER								MEDICAL / LAB APPLICATIONS		USER-FRIENDLY DESIGN		OPTIONAL SECOND-STAGE REGULATOR		STANDALONE OR WALL-MOUNTABLE		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION									
	1/4"	0.06	Gas	300 bar (4,350 psi)	PCTFE or PEEK™	20 bar (290 psi)	Inconel® X750 Diaphragm	Non									

	<b>ACU310</b> AUTO-CHANGEOVER								INCONEL® X750 DIAPHRAGM		USER-FRIENDLY DESIGN		SECOND-STAGE REGULATOR		0.1% DECAYING PRESSURE EFFECT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION									
	1/4"	0.06	Gas	300 bar (4,350 psi)	PCTFE or PEEK™	20 bar (290 psi)	Inconel® X750 Diaphragm	Non									


	<b>XHS410</b> ELECTRIC-HEATED								ATEX & IECX CERTIFIED		REMOTE TEMPERATURE CONTROL AND READOUT		DIGITAL READOUT		115V / 230V AC & 24V DC OPTIONS		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION									
	1/4"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	35 bar (510 psi)	Inconel® X750 Diaphragm	NA									


	<b>XHS411</b> ELECTRIC-HEATED								ATEX & IECX CERTIFIED		REMOTE TEMPERATURE CONTROL AND READOUT		DIGITAL READOUT		115V / 230V AC & 24V DC OPTIONS		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION									
	1/4"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	150 bar (2,175 psi)	Piston	NA									


	<b>XHR310</b> ELECTRIC-HEATED								2 X 100W HEATER CARTRIDGES		ATEX & IECX CERTIFIED		INCONEL® X750 DIAPHRAGM		OPTIONAL CABLE SUPPLY ENTRY POINTS		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION									
	1/4"	0.06	Gas or Liquid	414 bar (6,000 psi)	PEEK™	35 bar (500 psi)	Inconel® X750 Diaphragm	Non									


 	<b>XHR311</b> ELECTRIC-HEATED		2 X 100W HEATER CARTRIDGES		ATEX & IECEx CERTIFIED	PISTON-SENSED	OPTIONAL CABLE SUPPLY ENTRY POINTS	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas or Liquid	414 bar (6,000 psi)	PEEK™	150 bar (2,175 psi)	Piston	Non
	<b>XHR310</b> STEAM-HEATED		STEAM-HEATED DESIGN		40 MICRON INLET FILTER	INCONEL® X750 DIAPHRAGM	SOLID DISK SEAT DESIGN	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas or Liquid	414 bar (6,000 psi)	PEEK™	35 bar (500 psi)	Inconel® X750 Diaphragm	Non
 	<b>XHM410</b> HEATER MANIFOLD		ATEX & IECEx CERTIFIED		REMOTE TEMPERATURE CONTROL AND READOUT	DIGITAL READOUT	115V / 230V AC & 24V DC OPTIONS	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	NA	Gas or Liquid	300 bar (4,350 psi)	NA	NA	NA	NA


# Hydraulic Regulators


	<b>LGC690</b> LOGIC-CONTROL	40 MICRON INLET FILTER		PISTON-SENSED	SEGREGATED CAPTURED VENT	EASY ACCESS TO SEAT CARTRIDGE		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8" 1/2"	0.3	Liquid	414 bar (6,000 psi)	PEEK™	20 bar (290 psi)	Piston	Self (captured)

	<b>MF414H</b> MEDIUM-FLOW	PISTON-SENSED	BALANCED DESIGN	SEGREGATED CAPTURED VENT	HIGH FLOW COEFFICIENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4" 1"	2.0	Liquid	414 bar (6,000 psi)	Ceramic	414 bar (6,000 psi)	Piston	Non or Self (captured)


	<b>HYD691</b> HYDRAULIC	COMPACT	CERAMIC SEAT	SEGREGATED CAPTURED VENT	MAIN VALVE CARTRIDGE DESIGN			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8" 1/2"	0.06	Liquid	690 bar (10,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self (captured)


	<b>LF690</b> LOW-FLOW	CERAMIC SEAT	FULLY SUPPORTED MAIN VALVE	SEGREGATED CAPTURED VENT	EASY ACCESS TO SEAT CARTRIDGE			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8" 9/16" 1/2"	0.1 0.3	Liquid	690 bar (10,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self (captured)


	<b>DF1034</b> DUAL-FLOW	DUAL-FLOW DESIGN	BALANCED MAIN VALVE	PISTON SENSED	EASY ACCESS TO SEAT CARTRIDGE			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	9/16" MP	1.5 (primary) 0.06 (secondary)	Liquid	1,034 bar (15,000 psi)	Ceramic or Tecasint	1,034 bar (15,000 psi)	Piston	Self (captured)


	<b>LF691</b> LOW-FLOW							
	CERAMIC SEAT		FULLY SUPPORTED MAIN VALVE		SEGREGATED CAPTURED VENT		EASY ACCESS TO SEAT CARTRIDGE	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
3/8"	0.05	Liquid	1,380 bar (20,000 psi)	Ceramic	1,380 bar (20,000 psi)	Piston	Non or Self (captured)	

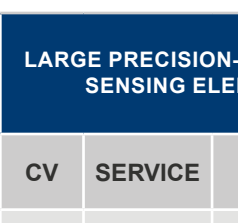
# Low Flow Regulators

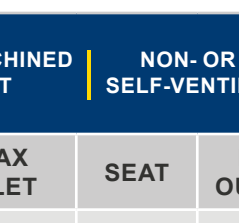
	<b>LF311</b> LOW-FLOW		PISTON-SENSED   316SS THREADED BONNET   40 MICRON INLET FILTER   SOLID DISK SEAT DESIGN					
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	180 bar (2,610 psi)	Piston	Non

	<b>LF540</b> LOW-FLOW		COMPACT & ECONOMICAL   PISTON-SENSED   NON- OR SELF-VENTING   PRECISION-MACHINED SENSING ELEMENT					
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8"	0.1	Gas or Liquid	690 bar (10,000 psi)	PEEK™	414 bar (6,000 psi)	Piston	Non or Self


	<b>LF792</b> LOW-FLOW		ENHANCED SEAT SUPPORT   PISTON-SENSED   SEGREGATED CAPTURED VENT   EASY ACCESS TO SEAT CARTRIDGE					
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8"	0.1	Gas	1,034 bar (15,000 psi)	Tecasint®	1,034 bar (15,000 psi)	Piston	Non or Self (captured)


	<b>MF101</b> MEDIUM-FLOW		<b>LARGE PRECISION-MACHINED SENSING ELEMENT</b>		<b>NON- OR SELF-VENTING</b>	<b>LIGHTWEIGHT &amp; COMPACT</b>		
	<b>PORT SIZE</b>	<b>CV</b>	<b>SERVICE</b>	<b>MAX INLET</b>	<b>SEAT</b>	<b>MAX OUTLET</b>	<b>SENSING ELEMENT</b>	<b>VENTING OPTION</b>
	1/4"	0.5	Gas or Liquid	100 bar (1,450 psi) Unbalanced	PCTFE	35 bar (510 psi) Self-Vent	Piston	Non or Self
				300 bar (4,350 psi) Balanced	PCTFE			
414 bar (6,000 psi) Balanced				PEEK™	40 bar (580 psi) Non-Vent			


	<b>MF230</b> MEDIUM-FLOW		<b>LARGE SENSITIVE ELASTOMERIC DIAPHRAGM</b>		<b>BALANCED DESIGN</b>	<b>LOW DECAYING PRESSURE EFFECT</b>		
	<b>PORT SIZE</b>	<b>CV</b>	<b>SERVICE</b>	<b>MAX INLET</b>	<b>SEAT</b>	<b>MAX OUTLET</b>	<b>SENSING ELEMENT</b>	<b>VENTING OPTION</b>
	1/2"	1.0	Gas or Liquid	50 bar (725 psi)	PTFE	10 bar (145 psi)	Diaphragm	Non
230 bar (3,350 psi)				PCTFE or PEEK™				


	<b>MF231</b> MEDIUM-FLOW		<b>LARGE SENSITIVE ELASTOMERIC DIAPHRAGM</b>		<b>BALANCED DESIGN</b>	<b>LOW DECAYING PRESSURE EFFECT</b>		
	<b>PORT SIZE</b>	<b>CV</b>	<b>SERVICE</b>	<b>MAX INLET</b>	<b>SEAT</b>	<b>MAX OUTLET</b>	<b>SENSING ELEMENT</b>	<b>VENTING OPTION</b>
	1/2"	1.0	Gas	35 bar (510 psi)	PTFE	100 bar (1,450 psi)	Piston	Non
230 bar (3,350 psi)				PCTFE or PEEK™				


## Medium-Flow Regulators


	<b>MF210</b> MEDIUM-FLOW	PTFE-LINED DIAPHRAGM		NO O-RINGS	RANGE OF END CONNECTORS	LARGE HANDWHEEL		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4" 1"	1.8	Gas	40 bar (580 psi)	PCTFE	10 bar (145 psi)	PTFE-Lined Elastomeric Diaphragm	Non


	<b>MF301</b> MEDIUM-FLOW	PISTON- SENSED	BALANCED DESIGN	LOW DECAYING PRESSURE EFFECT	EASY ACCESS TO SEAT CARTRIDGE			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4"	2.0	Gas or Liquid	300 bar (4,350 psi)	PCTFE or PEEK™	300 bar (4,350 psi)	Piston	Non or Self


	<b>MF400</b> MEDIUM-FLOW	BALANCED DESIGN	OPTIONAL CONNECTION TYPES	DIAPHRAGM- SENSED	HIGH FLOW COEFFICIENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4"	2.0	Gas or Liquid	400 bar (5,800 psi)	PCTFE or PEEK™	10 bar (145 psi)	Diaphragm	Non


	<b>MF401</b> MEDIUM-FLOW	BALANCED DESIGN	OPTIONAL CONNECTION TYPES	PISTON- SENSED	HIGH FLOW COEFFICIENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4"	2.0	Gas or Liquid	400 bar (5,800 psi)	PCTFE or PEEK™	400 bar (5,800 psi)	Piston	Non


	<b>MF414G</b> MEDIUM-FLOW	PISTON- SENSED	BALANCED DESIGN	SEGREGATED CAPTURED VENT	HIGH FLOW COEFFICIENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4"	2.0	Gas	414 bar (6,000 psi)	PEEK™	414 bar (6,000 psi)	Piston	Non or Self (captured)

	<b>HF300</b> HIGH-FLOW							
	<b>BALANCED DESIGN</b>		<b>ELASTOMERIC DIAPHRAGM</b>		<b>HIGH FLOW COEFFICIENT</b>		<b>GAS OR LIQUID APPLICATIONS</b>	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1"	4.0	Gas	300 bar (4,350 psi)	PEEK™	10 bar (145 psi)	Elastomeric Diaphragm	Non	
		Liquid		Vespel®				


	<b>HF301</b> HIGH-FLOW							
	<b>BALANCED DESIGN</b>		<b>PISTON-SENSED</b>		<b>HIGH FLOW COEFFICIENT</b>		<b>GAS OR LIQUID APPLICATIONS</b>	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1"	4.0	Gas	300 bar (4,350 psi)	PEEK™	300 bar (4,350 psi)	Piston	Non	
		Liquid		Vespel®				


	<b>HF250</b> HIGH-FLOW							
	<b>BALANCED DESIGN</b>		<b>DIAPHRAGM-SENSED</b>		<b>HIGH FLOW COEFFICIENT</b>		<b>GAS OR LIQUID APPLICATIONS</b>	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENT OPTION
1" 1 1/2"	7.0	Gas	250 bar (3,625 psi)	PCTFE	10 bar (145 psi)	Diaphragm	Non	
		Liquid		PEEK™				


	<b>HF251</b> HIGH-FLOW							
	<b>BALANCED DESIGN</b>		<b>PISTON-SENSED</b>		<b>HIGH FLOW COEFFICIENT</b>		<b>GAS OR LIQUID APPLICATIONS</b>	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENT OPTION
1" 1 1/2"	7.0	Gas	250 bar (3,625 psi)	PCTFE	200 bar (3,625 psi)	Piston	Non	
		Liquid		PEEK™				


	<b>HF600</b> HIGH-FLOW							
	<b>BALANCED DESIGN</b>		<b>PISTON-SENSED</b>		<b>HIGH FLOW COEFFICIENT</b>		<b>GAS OR LIQUID APPLICATIONS</b>	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENT OPTION
1" 1 1/2"	7.0	Gas	600 bar (8,700 psi)	Vespel®	600 bar (8,700 psi)	Piston	Non	
		Liquid						


# High-Flow Regulators


	<b>HF210</b> HIGH-FLOW		SPRING OR DOME-LOADED		DIAPHRAGM-SENSED	HIGH FLOW COEFFICIENT	GAS OR LIQUID APPLICATIONS	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	2"	13.0	Gas Liquid	210 bar (3,045 psi)	PCTFE PEEK™	10 bar (145 psi)	Diaphragm	Non


	<b>HF211</b> HIGH-FLOW		PILOT-OPERATED AS STANDARD		PISTON-SENSED	HIGH FLOW COEFFICIENT	GAS OR LIQUID APPLICATIONS	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	2"	13.0	Gas Liquid	210 bar (3,045 psi)	PCTFE PEEK™	200 bar (2,900 psi)	Piston	Non

	<b>BP010</b> BACK PRESSURE						
	ELASTOMERIC DIAPHRAGM		PTFE-LINED DIAPHRAGM	BOLTED BONNET	316SS THREADED BONNET		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas	10 bar (145 psi)	PCTFE	5 bar (75 psi)	PTFE-Lined Elastomeric Diaphragm	


	<b>BP300</b> BACK PRESSURE						
	INCONEL® X750 DIAPHRAGM		GAS OR LIQUID APPLICATIONS	LOW FLOW COEFFICIENT	LIGHTWEIGHT & COMPACT		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas or Liquid	35 bar (510 psi)	FKM / FPM	20 bar (290 psi)	Inconel® X750 Diaphragm	


	<b>BP301</b> BACK PRESSURE						
	PISTON-SENSED		GAS OR LIQUID APPLICATIONS	CHOICE OF LOW FLOW COEFFICIENTS	LIGHTWEIGHT & COMPACT		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas Liquid	150 bar (2,175 psi)	PCTFE PCTFE or PEEK™	150 bar (2,175 psi)	Piston	


	<b>BP-LF540</b> LOW-FLOW						
	PISTON-SENSED		GAS OR LIQUID APPLICATIONS	LOW FLOW COEFFICIENT	OPTIONAL AIR-ACTUATOR		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas or Liquid	550 bar (7,975 psi)	PEEK™	414 bar (6,000 psi)	Piston	


	<b>BP-LF690</b> LOW-FLOW						
	PISTON-SENSED		RANGE OF SEAT MATERIALS	LOW FLOW COEFFICIENT	OPTIONAL AIR-ACTUATOR		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas Liquid	550 bar (7,975 psi)	PEEK™ 316SS	414 bar (6,000 psi)	Piston	


# Back Pressure Regulators


	<b>BP-LF691</b> LOW-FLOW	PISTON-SENSED		RANGE OF SEAT MATERIALS	LOW FLOW COEFFICIENT	OPTIONAL AIR-ACTUATOR	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	1/4"	0.1	Gas Liquid	1,034 bar (15,000 psi)	PEEK™ 316SS	900 bar (13,050 psi)	Piston

	<b>BP-MF690 (05)</b> MEDIUM-FLOW	PISTON-SENSED		PRECISION-MACHINED SENSING ELEMENT	OPTIONAL AIR-ACTUATOR	OPTIONAL FLANGED CONNECTION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	1/2"	0.5	Gas Liquid	550 bar (7,975 psi)	PEEK™ Hastelloy	414 bar (6,000 psi)	Piston


	<b>BP-MF690 (15)</b> MEDIUM-FLOW	PISTON-SENSED		CERAMIC SEATING	OPTIONAL AIR-ACTUATOR	FLANGED OPTION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	3/4"	1.5	Gas Liquid	690 bar (10,000 psi)	PEEK™ Ceramic	300 bar (4,350 psi)	Piston


	<b>BP-MF691 (05)</b> MEDIUM-FLOW	PISTON-SENSED		PRECISION-MACHINED SENSING ELEMENT	OPTIONAL AIR-ACTUATOR	OPTIONAL FLANGED CONNECTION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	1/2"	0.5	Liquid	690 bar (10,000 psi)	Hastelloy®	690 bar (10,000 psi)	Piston


	<b>BP-MF400</b> MEDIUM-FLOW	ELASTOMERIC DIAPHRAGM		EASY ACCESS TO SEAT CARTRIDGE	FLANGE-TYPE BONNET		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	1/2"	3.0	Gas Liquid	10 bar (145 psi)	PCTFE PEEK™	10 bar (145 psi)	Diaphragm


	<b>BP-MF401</b> MEDIUM-FLOW		ELASTOMERIC DIAPHRAGM	EASY ACCESS TO SEAT CARTRIDGE	FLANGE-TYPE BONNET	BALANCED DESIGN	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	1/2"	3.0	Gas	400 bar (5,800 psi)	PCTFE	200 bar (2,900 psi)	Piston
Liquid			PEEK™				


# Diving Regulators


	<b>LF310</b> LOW-FLOW	INCONEL® X750 DIAPHRAGM		316SS THREADED BONNET	40 MICRON INLET FILTER	SOLID DISK SEAT DESIGN		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06 0.15	Gas or Liquid	50 bar (725 psi)	FEP	35 bar (510 psi)	Inconel® X750 Diaphragm	Non
				300 bar (4,350 psi)	PCTFE			
414 bar (6,000 psi)				PEEK™				

	<b>MF101D</b> MEDIUM-FLOW	LARGE PRECISION-MACHINED SENSING ELEMENT			NON- OR SELF-VENTING	LIGHTWEIGHT & COMPACT	ASTM G93 LEVEL C	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.5	Gas	100 bar (1,450 psi) Unbalanced	PCTFE	35 bar (510 psi) Self-Vent or	Piston	Non or Self
				300 bar (4,350 psi) Balanced		40 bar (580 psi) Non-Vent		


	<b>LF540</b> LOW-FLOW	COMPACT & ECONOMICAL	PISTON- SENSED	NON- OR SELF-VENTING	PRECISION-MACHINED SENSING ELEMENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.1	Gas or Liquid	690 bar (10,000 psi)	PEEK™	414 bar (6,000 psi)	Piston	Non or Self

	<b>MF301D</b> MEDIUM-FLOW	PISTON- SENSED	BALANCED DESIGN	LOW DECAYING PRESSURE EFFECT	EASY ACCESS TO SEAT CARTRIDGE	ASTM G93 LEVEL C		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2"	2.0	Gas	300 bar (4,350 psi)	PCTFE	300 bar (4,350 psi)	Piston	Non or Self


	<b>MF300T</b> MEDIUM-FLOW		PISTON-SENSED   TRACKING DESIGN MAINTAINS PRESSURE DIFFERENTIAL					
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2"	2.0	Gas or Liquid	300 bar (4,350 psi)	PCTFE	25 bar (360 psi)	Piston	Self

	<b>BIBS100</b> NEGATIVE BIASED		LARGE SENSITIVE ELASTOMERIC DIAPHRAGM		EASY ACCESS TO SEAT CARTRIDGE	FINE ADJUSTMENT OF BIAS SPRING	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
	3/4"	2.0	Gas	50 bar (725 psi)	PCTFE	30 bar (435 psi)	Elastomeric Diaphragm


# Hydrogen Regulators


	<b>LW351</b> H2 DRONES	LIGHTWEIGHT & COMPACT		PISTON-SENSED	0.15% DECAYING PRESSURE EFFECT	WIDE RANGE OF CONNECTION OPTIONS		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas	350 bar (5,075 psi)	Devlon X100	3 bar (45 psi)	Piston	Non


**TPED**  
APPROVED


	<b>CV414-SC</b> CYLINDER VALVE	EASY DISCONNECT		CONTINUAL GAS SUPPLY	QUICK & EASY FILLING	LIGHTWEIGHT & COMPACT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	TYPE	APPROVAL	
	5/8" UNF M18	0.06	Gas	350 bar (5,075 psi)	PCTFE	Self-Closing	TPED	
414 bar (6,000 psi)				PEEK™	-			


DESIGNED TO  
**EC79**  
STANDARDS


	<b>AUTO438</b> H2 BUSES & TRUCKS	EASY ACCESS TO SEAT CARTRIDGE		IN-LINE VENT PORT	BALANCED DESIGN			
	PORT SIZE	CV	SERVICE	MAX INLET	MAX OUTLET	SENSING ELEMENT	VENTING OPTION	APPROVAL
	1/4", 3/8", 1/2" SAE 3/4 / 6/8	0.25	Gas	438 bar (6,350 psi)	20 bar (290 psi)	Piston	Non	-


	<b>A875</b> H2 VEHICLES	ELECTRONIC VALVES		INTEGRATED PRV	BALANCED MAIN VALVE	INTEGRATED FILTRATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	HSL
	SAE & MP options	0.35 or 0.5	Gas	875 bar (12,690 psi)	Acetal (POM)	30 bar (435 psi)	Piston	H35 or H70


	<b>H875</b> H2 VEHICLES	TWO-STAGE REGULATOR		LIGHTWEIGHT & COMPACT DESIGN	SUPERIOR PRESSURE CONTROL	DUAL STAGE FILTRATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	HSL
	NPT, SAE & MP options	0.5	Gas	875 bar (12,690 psi)	Vespel®	100 bar (1,450 psi)	Piston	H35 or H70

	<b>M875</b> H2 MOBILITY		MODULAR DESIGN		COMPACT DESIGN	BALANCED MAIN VALVE	INTEGRATED FILTRATION	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	HSL
	SAE & MP options	0.35 or 0.5	Gas	875 bar (12,690 psi)	Acetal (POM)	60 bar (900 psi)	Piston	H35 or H70


	<b>RF1034</b> H2 REFUELLING		HIGH FLOW	DESIGNED TO ISO 19880-3	PISTON-SENSED	VARIOUS ACTUATOR OPTIONS		
	PORT SIZE	CV	SERVICE	SEAT	MAX INLET	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8" MP / HP 9/16" MP / HP	0.5 or 1.0	Gas	Tecasint® 2011	1,034 bar (15,000 psi)	1,034 bar (15,000 psi)	Piston	Non or Self (Captured)

	<b>LW438</b> H2 MATERIAL HANDLING		LIGHTWEIGHT DESIGN	PISTON-SENSED	BALANCED DESIGN			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	SAE-4	0.06	Gas	438 bar (6,350 psi)	Acetal (POM)	20 bar (290 psi)	Piston	Non


	<b>LW-TS414</b> H2 LIGHTWEIGHT MOBILITY		TWO-STAGE DESIGN	0.04% DECAYING PRESSURE EFFECT	SOLID DISK SEAT DESIGN	LIGHTWEIGHT DESIGN		
	PORT SIZE	CV	SERVICE	MAX INLET	1ST STAGE SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.06	Gas	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	1 bar (14.5 psi)	Piston	Non

	<b>BP301</b> H2 ENERGY PRODUCTION		PISTON-SENSED	STABLE CONTROL	LIGHTWEIGHT & COMPACT	ADDITIONAL BACK PRESSURE REGULATORS AVAILABLE		
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT	
	1/4"	0.1	Gas or Liquid	150 bar (2,175 psi)	PCTFE	150 bar (2,175 psi)	Piston	


# Subsea Regulators


	<b>SS-COM301</b> SUBSEA	SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	PRESSURE REDUCTION PLUS BACK PRESSURE CONTROL		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.5	Gas	300 bar (4,350 psi)	PCTFE	50 bar (725 psi)	Piston	Self


**API 17F**  
APPROVED


	<b>SS690</b> SUBSEA	SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8"	0.1	Liquid	690 bar (10,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self


**API 17F**  
APPROVED


	<b>SS691</b> SUBSEA	SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8"	0.1	Liquid	1,034 bar (15,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self

	<b>SS792</b> SUBSEA	SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8"	0.3	Liquid	690 bar (10,000 psi)	Tecasint®	690 bar (10,000 psi)	Piston	Non or Self

	<b>SS414</b> SUBSEA	SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8"	2.0	Gas	414 bar (6,000 psi)	PEEK™	250 bar (3,625 psi)	Piston	Non or Self
		Liquid	Ceramic					

	<b>SS-BP400</b> SUBSEA		SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	SENSING ELEMENT	VENTING OPTION	
	1/2"	2.0	Gas	10 bar (145 psi)	PCTFE	Piston	Non	

	<b>SS-BPLF690</b> SUBSEA		SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	SENSING ELEMENT	VENTING OPTION	
	9/16"	0.1	Liquid	550 bar (7,975 psi)	Ceramic	Piston	Non	

	<b>SS231</b> SUBSEA		SUITABLE FOR DEEP WATERS		ANTI-TAMPER LOCKING CAP	MP35N SPRING	OPTIONAL REMOTE OPERATION	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/4"	1.0	Gas	230 bar (3,335 psi)	PCTFE	35 bar (510 psi)	Piston	Non

## ELECTRIC ACTUATOR FOR REMOTE CONTROL


For applications that are difficult to obtain access to, such as those in subsea environments, we also offer an optional compact electric actuator for remote regulator control.


Capable of operating at depths of up to 3,000m or 10,000ft, and at temperatures ranging from -20°C to 65°C (-4°F to 149°F), our remote solution features a fully closed loop servo motion system for precision control.

[ASK FOR DETAILS](#)



# Valves

	<b>AVC/ AVO690</b> ACTUATED VALVE						
	HIGH FLOW		FAIL SAFE OPERATION		SOLENOID VALVE OPTION		LOW ACTUATION PRESSURE
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	FAIL SAFE OPERATION
1/4"	0.8	Gas or Liquid	690 bar (10,000 psi)	PEEK™	690 bar (10,000 psi)	Normally Open or Closed	

	<b>AVC/ AVO1034</b> ACTUATED VALVE						
	HIGH FLOW		FAIL SAFE OPERATION		SOLENOID VALVE OPTION		LOW ACTUATION PRESSURE
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	FAIL SAFE OPERATION
1/4"	0.8	Gas or Liquid	1,034 bar (15,000 psi)	PEEK™	1,034 bar (15,000 psi)	Normally Open or Closed	

# Bolted Flanges...

In addition to NPT, BSPP and medium pressure fittings, we also offer flanged connections on our full range of Pressure Tech regulators. Flanges offer easy maintenance, repair and inspection, and are typically used on Chemical Injection and Produced Water Systems.

Traditionally our flanged connections have been supplied welded, but this is a time consuming process. Every order including a welded flange required a full design overview to ensure the correct weld ends were selected for each application.

Our Engineering team worked to provide an alternative solution. Our bolted flange concept is based on three standard modular designs to cover up to class 4500, and created to accommodate any of our pressure regulators. These are:

RANGE	CLASSES			PRESSURE RATING
Up to Class 600	150	300	600	Up to 99.3 bar
Up to Class 2500	900	1500	2500	Up to 413.7 bar
Up to Class 4500	4500	-	-	Up to 744.6 bar

## MODULAR DESIGN



Our bolted flange concept is based on three standard modular designs to cover up to class 4500.

This allows us to offer bolted flange connections onto any pressure regulator within our product range.

## STANDARDS



The bolted design for flange connections conforms to a range of standards including:

- ASME 16.5
- API
- DIN
- Grayloc

## TIME SAVING



Time savings include:

- No requirement for subcontract welding
- Only need to programme three body set-ups, reducing machine set-up times
- Straightforward assembly

# Ordering

## Get in Touch...

To make it as convenient as possible to make an enquiry or place an order, there are 3 different options to choose from:

### DIRECT

Should you need any assistance, whether this is relating to a new enquiry, existing order or technical assistance, our Pressure Tech sales team will gladly assist. They are available Monday to Thursday from 08:30 to 17:00, and Friday from 08:30 to 13:00.

**+44 (0)1457 899 307**  
**sales@pressure-tech.com**

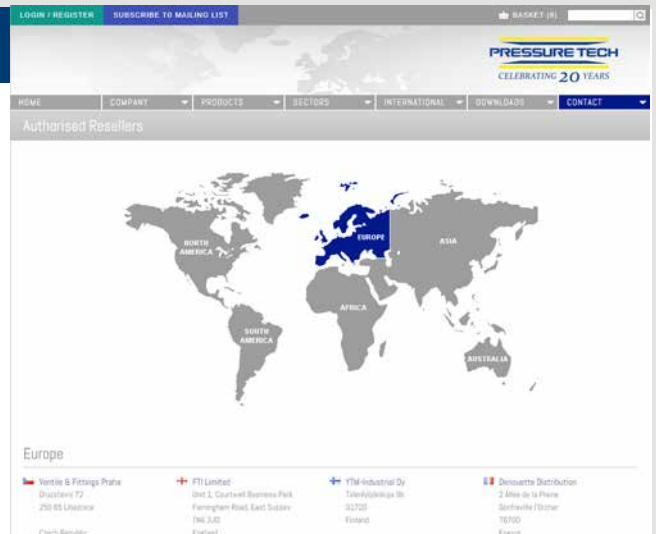


### AUTHORISED RESELLERS

We understand that it is sometimes more convenient to work with a local contact. To support our customers across the globe, we have a knowledgeable network of Pressure Tech 'Authorised Resellers'.

Please visit the Pressure Tech website and navigate to our 'Authorised Resellers' page to find the contact details of your nearest Pressure Tech reseller.

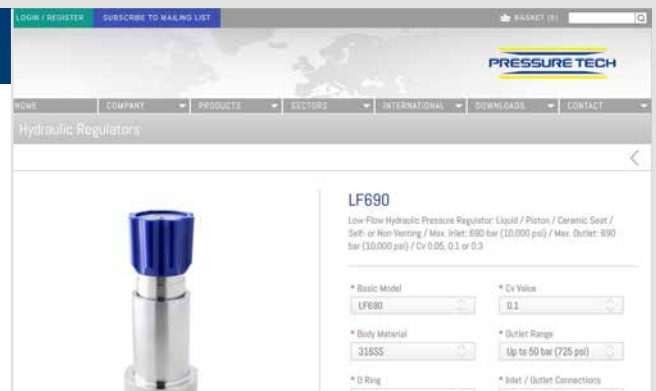
**www.pressure-tech.com**



### ONLINE

If you would like to request a quote online, please visit the Pressure Tech website and submit a quote request form. Our sales team will reply as soon as possible.

**www.pressure-tech.com**



# Cv Formulae...

The Cv or flow capacity of a regulator is the maximum flow capability of a regulator (i.e. when the regulator is fully open) under a specific set of conditions. The Cv calculation varies based on the media used in your application.

Please refer to the relevant formula below to calculate the Cv for your application:

For Liquids (e.g. Water, Oil etc)		
FORMULA	KEY	NOTES
$C_v = Q \sqrt{\frac{S}{\Delta P}}$	<p><b>Cv:</b> Valve flow coefficient (US GPM with P=1 psi)  <b>Q:</b> Fluid flow (US GPM)  <b>S:</b> Specific gravity of fluid  <b>ΔP:</b> P1 - P2 at maximum flow (psi)</p>	<p>Specific gravity correction is negligible for water below 93°C (200°F) - use S=1.0.</p> <p>Use actual specific gravity of other liquids at actual flow temperature.</p>
$C_v = K_1 Q \sqrt{\frac{S}{\Delta P}}$	<p><b>Cv:</b> Valve flow coefficient (US GPM with P=1 psi)  <b>K1:</b> Viscosity correction factor for fluids  <b>Q:</b> Fluid flow (US GPM)  <b>S:</b> Specific gravity of fluid  <b>ΔP:</b> P1 - P2 at maximum flow (psi)</p>	<p>Use this formula for fluids with viscosity correction factor.</p> <p>Use actual specific gravity of other liquids at actual flow temperature.</p>
For Gases (e.g. Air, Natural Gas, Propane, etc)		
FORMULA	KEY	NOTES
$C_v = \frac{Q_a \sqrt{G(T + 460)}}{1360 \sqrt{\Delta P (P_2)}}$	<p><b>Cv:</b> Valve flow coefficient (US GPM with P=1 psi)  <b>Qa:</b> Air or gas flow (SCFH) at 14.7 psi and 60°F  <b>G:</b> Specific gravity of gas relative to air at 14.7 psi and 60°F  <b>T:</b> Flow air or gas temperature (°F)  <b>ΔP:</b> P1 - P2 at maximum flow (psi)  <b>P2:</b> Outlet pressure at maximum flow (psi abs.)</p>	<p>Use this formula when P2 is <i>greater than</i> 50% of P1.</p>
$C_v = \frac{Q_a \sqrt{G(T + 460)}}{660 P_1}$	<p><b>Cv:</b> Valve flow coefficient (US GPM with P=1 psi)  <b>Qa:</b> Air or gas flow (SCFH) at 14.7 psi and 60°F  <b>G:</b> Specific gravity of gas relative to air at 14.7 psi and 60°F  <b>T:</b> Flow air or gas temperature (°F)  <b>P1:</b> Inlet pressure at maximum flow (psi abs.)</p>	<p>Use this formula when P2 is <i>less than</i> or equal to 50% of P1.</p>

# Information Required...

Should you need assistance with product selection, please provide the following information about your application:

<b>01</b>	Inlet Pressure	<b>06</b>	Temperature
<b>02</b>	Outlet Pressure	<b>07</b>	Non-Venting or Self-Venting
<b>03</b>	Required Accuracy	<b>08</b>	Connection Type and Size
<b>04</b>	Cv or Flow Rate	<b>09</b>	Porting Configuration
<b>05</b>	Media	<b>10</b>	Materials of Construction

*Please note:*

Pressure Tech supports with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements.

## Frequently Asked Questions...

What is your VAT number?

GB 776 740 883.

How do I check my order status?

Please send an email to [expediting@pressure-tech.com](mailto:expediting@pressure-tech.com) with your order details. You will then receive an update on the current status of your order.

How do I find my nearest Authorised Reseller?

Please visit the 'Contact' section of our website, navigate to the 'Authorised Resellers' page and then click on the world map to select your region. You will see the contact details of all Authorised Resellers within that region.

How do I apply for a credit account?

Please visit the 'Customer Resources' section of our website, download and complete our 'Trade Credit Account' application form and then email to [accounts@pressure-tech.com](mailto:accounts@pressure-tech.com).

What currencies do you accept?

We accept GBP (£), EUR (€), CAN (\$) and USD (\$).





# PRESSURE TECH

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**PRESSURE TECH LTD**

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

T +44 (0)1457 899 307

E [sales@pressure-tech.com](mailto:sales@pressure-tech.com)

W [www.pressure-tech.com](http://www.pressure-tech.com)

**DESIGNED, MANUFACTURED AND BUILT IN THE UK**

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