



PRESSURE TECH

CELEBRATING 20 YEARS

Company Overview



www.pressure-tech.com

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 30 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 fuel cell 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 understand 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 & INSTRUMENTATION



Typically incorporating Inconel® X750 diaphragm-sensed elements to provide strength and flexibility, our Analyser and Instrumentation range includes options from gas cylinder regulators to ATEX certified (94/9/EC) heated regulators.

HIGH PRESSURE



Piston-sensed high pressure regulators, typically with ceramic seating. These include our hydraulic range with precision machined and fully supported sensor elements to cover pressure ranges up to 1,034 bar (15,000 psi). Port sizes from 1/8" to 3/8".

MEDIUM-FLOW



Primarily for gas service with diaphragm-sensed elements to 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 210 bar (3,045 psi).

BACK PRESSURE



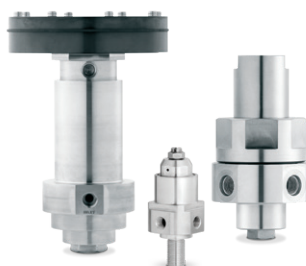
Covering port sizes from 1/8" to 2" and controlling pressures from 0.1 bar (2 psi) to 690 bar (10,000 psi) on gas or liquid applications. Accurate and repeatable shut-off.

DIVING



Our brass regulators are cleaned and degreased within the guidelines of ASTM G93 for equipment used in oxygen-enriched environments, and intended for use on critical life support or hyperbaric diving applications.

HYDROGEN



From ultra-compact and lightweight regulators (0.2kg) to onboard vehicle regulators and high-pressure refuelling solutions with fast fill times, our products cover a wide range of hydrogen fuel cell applications.

SUBSEA



Designed to operate at depths of up to 3,000m (10,000ft), our subsea pressure regulators can either use external seawater pressure as a reference pressure, or, they can be sealed to operate at topside ambient pressure conditions.

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ANALYSER & INSTRUMENTATION

MINI300, LF310, LF240, TS310, TS311, CYL310, CYL540, ACS310, ACU310, XHS310, XHS311, XHR310, XHR311, XHR310 (STEAM) and XHM300.

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HIGH PRESSURE: GAS

LF311, LF540 and LF792.

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HIGH PRESSURE: LIQUID

LGC690, HYD691, LF690, LF691 and MF414H.

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MEDIUM-FLOW

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

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HIGH-FLOW

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

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BACK PRESSURE

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

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DIVING

LF310, MF101, LF540, MF301, MF300T and BIBS100.

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HYDROGEN

LW351, AUTO438, AUTO875, RF1034, LW438, LW-TS414 and CV414-SC.

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SUBSEA


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


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ORDERING


How to order, Cv formulae and what information we require.


Analyser & Instrumentation Regulators


	MINI300 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™				

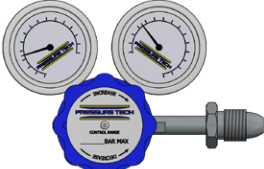
	LF310 LOW-FLOW							
	INCONEL® X750 DIAPHRAGM		316SS THREADED BONNET		40 MICRON INLET FILTER		SOLID DISK SEAT DESIGN	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
1/4"	0.06 0.15	Gas or Liquid	50 bar (725 psi)	FEP	35 bar (510 psi)	Inconel® X750 Diaphragm	Non	
			300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


	LF240 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™				

	TS310 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™				


	TS311 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)	PCTFE	20 bar (290 psi)	Piston	Non	
			414 bar (6,000 psi)	PEEK™				



	CYL310 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)	PCTFE	35 bar (510 psi)	Inconel® X750 Diaphragm	Non	
			414 bar (6,000 psi)	PEEK™				



	CYL540 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	



	ACS310 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	




Analyser & Instrumentation Regulators


	ACU310 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									




 	XHS310 ELECTRIC-HEATED								100W HEATER CARTRIDGE		SIDE-ENTRY OR IN-LINE		ATEX & IECX CERTIFIED		INCONEL® X750 DIAPHRAGM		
	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									

 	XHS311 ELECTRIC-HEATED								100W HEATER CARTRIDGE		SIDE-ENTRY OR IN-LINE		ATEX & IECX APPROVED		PISTON- SENSED		
	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	Non									


 	XHR310 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									


  	XHR311 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


	XHR310 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


  	XHM300 HEATER MANIFOLD		ATEX & IECEx CERTIFIED		ALTERNATIVE MATERIALS AVAILABLE		COMPACT DESIGN	115V OR 230V POWER SUPPLY
	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


High-Pressure Regulators: Gas


	LF311 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 or Liquid	300 bar (4,350 psi) 414 bar (6,000 psi)	PCTFE PEEK™	180 bar (2,610 psi)	Piston	Non


	LF540 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


	LF792 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)

	LGC690 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"	0.3	Liquid	414 bar (6,000 psi)	PEEK™	20 bar (290 psi)	Piston	Self (captured)


	HYD691 HYDRAULIC	COMPACT & ECONOMICAL		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"	0.06	Liquid	690 bar (10,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self (captured)


	LF690 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"	0.1 0.3	Liquid	690 bar (10,000 psi)	Ceramic	690 bar (10,000 psi)	Piston	Non or Self (captured)


	LF691 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)

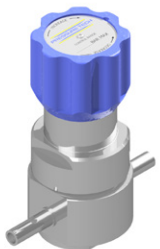
	MF414H MEDIUM-FLOW	PISTON-SENSED	BALANCED DESIGN	SEGREGATED CAPTURED VENT	HIGH FLOW COEFFICIENT			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/2" 3/4"	2.0	Liquid	414 bar (6,000 psi)	Ceramic	414 bar (6,000 psi)	Piston	Non or Self (captured)


Medium-Flow Regulators


	MF101 MEDIUM-FLOW		LARGE PRECISION-MACHINED SENSING ELEMENT		NON- OR SELF-VENTING	LIGHTWEIGHT & COMPACT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	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			


	MF230 MEDIUM-FLOW		LARGE SENSITIVE ELASTOMERIC DIAPHRAGM		BALANCED DESIGN	LOW DECAYING PRESSURE EFFECT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	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™				


	MF231 MEDIUM-FLOW		LARGE SENSITIVE ELASTOMERIC DIAPHRAGM		BALANCED DESIGN	LOW DECAYING PRESSURE EFFECT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	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™				

	MF210 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


	MF301 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


	MF400 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


	MF401 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


	MF414G 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)

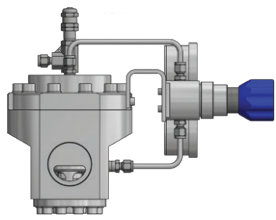
High-Flow Regulators

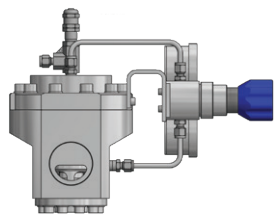
	HF300 HIGH-FLOW		BALANCED DESIGN ELASTOMERIC DIAPHRAGM		HIGH FLOW COEFFICIENT		GAS OR LIQUID APPLICATIONS	
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1"	4.0	Gas Liquid	300 bar (4,350 psi)	PEEK™ VespeI®	10 bar (145 psi)	Elastomeric Diaphragm	Non

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


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


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


	HF210 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


	HF211 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


Back Pressure Regulators


	BP010 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	


	BP300 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	


	BP301 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	


	BP-LF540 LOW-FLOW						
	PISTON-SENSED		GAS OR LIQUID APPLICATIONS		LOW FLOW COEFFICIENT	AIR-ACTUATED OPTION	
	PORT SIZE	CV	SERVICE	MAX RATING	SEAT	CONTROL RANGE	SENSING ELEMENT
1/4"	0.1	Gas or Liquid	550 bar (7,795 psi)	PEEK™	414 bar (6,000 psi)	Piston	

	BP-LF690 LOW-FLOW						
	PISTON-SENSED		RANGE OF SEAT MATERIALS		LOW FLOW COEFFICIENT	AIR-ACTUATED OPTION	
	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	

	BP-LF691 LOW-FLOW	PISTON-SENSED		RANGE OF SEAT MATERIALS	LOW FLOW COEFFICIENT	AIR-ACTUATED OPTION	
	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

	BP-MF690 (05) MEDIUM-FLOW	PISTON-SENSED		PRECISION-MACHINED SENSING ELEMENT	AIR-ACTUATED OPTION	FLANGED OPTION	
	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

	BP-MF690 (15) MEDIUM-FLOW	PISTON-SENSED		CERAMIC SEATING	AIR-ACTUATED OPTION	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

	BP-MF400 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

Back Pressure Regulators



BP-MF401
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™		


	LF310 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™				


	MF101 MEDIUM-FLOW	LARGE PRECISION-MACHINED SENSING ELEMENT			NON- OR SELF-VENTING	LIGHTWEIGHT & COMPACT		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	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			


	LF540 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

	MF301 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"	2.0	Gas or Liquid	300 bar (4,350 psi)	PCTFE	300 bar (4,350 psi)	Piston	Non or Self
414 bar (6,000 psi)				PEEK™				


Diving Regulators


	MF300T MEDIUM-FLOW		PISTON-SENSED TRACKING DESIGN MAINTAINS CONSTANT 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


	BIBS100 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


	LW351 H2 DRONES	LIGHTWEIGHT & COMPACT		PISTON-SENSED	0.15% DECAYING PRESSURE EFFECT	DIRECT MOUNTING TO CYLINDER		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/8"	0.06	Gas	350 bar (5,075 psi)	PCTFE	2 bar (29 psi)	Piston	Non

EC79
PENDING


	AUTO438 H2 VEHICLES	DOUBLE O-RING	EASY ACCESS TO SEAT CARTRIDGE	IN-LINE VENT PORT	BALANCED DESIGN			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4" 3/8" SAE-4 SAE-6 SAE-8	0.5	Gas	438 bar (6,350 psi)	Devlon®	20 bar (290 psi)	Piston	Non

	AUTO875 H2 VEHICLES	DOUBLE O-RING	EASY ACCESS TO SEAT CARTRIDGE	IN-LINE VENT PORT	HIGH PRESSURE			
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	1/4"	0.5	Gas	875 bar (12,690 psi)	PEEK™	20 bar (290 psi)	Piston	Non


	RF1034 H2 REFUELLING	EASY TO ACCESS SEAT CARTRIDGE		PISTON-SENSED	OPTIONAL AUTO CONTROL	CV 0.3 FOR FAST REFUELLING		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	3/8" 9/16"	0.3	Gas	1,034 bar (15,000 psi)	PEEK™	1,034 bar (15,000 psi)	Piston	Non

	LW438 H2 FORKLIFT	LIGHTWEIGHT DESIGN		PISTON-SENSED	BALANCED DESIGN	FOR FORKLIFT APPLICATIONS		
	PORT SIZE	CV	SERVICE	MAX INLET	SEAT	MAX OUTLET	SENSING ELEMENT	VENTING OPTION
	SAE-4	0.06	Gas	438 bar (6,350 psi)	PEEK™	20 bar (190 psi)	Piston	Non


Hydrogen Regulators


	LW-TS411 H2 TWO-STAGE		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)	PCTFE	1 bar (14.5 psi)	Piston	Non
414 bar (6,000 psi)				PEEK™				


TPED
PENDING

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

	SS-COM301 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 or Liquid	300 bar (4,350 psi)	PCTFE	50 bar (725 psi)	Piston	Self

	SS690 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

	SS691 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

	SS414 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 Liquid	414 bar (6,000 psi)	PEEK™ Ceramic	250 bar (3,625 psi)	Piston	Non or Self

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

Subsea Regulators



SS231
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	Liquid	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](#)

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 Friday from 08:30 to 17:00.

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

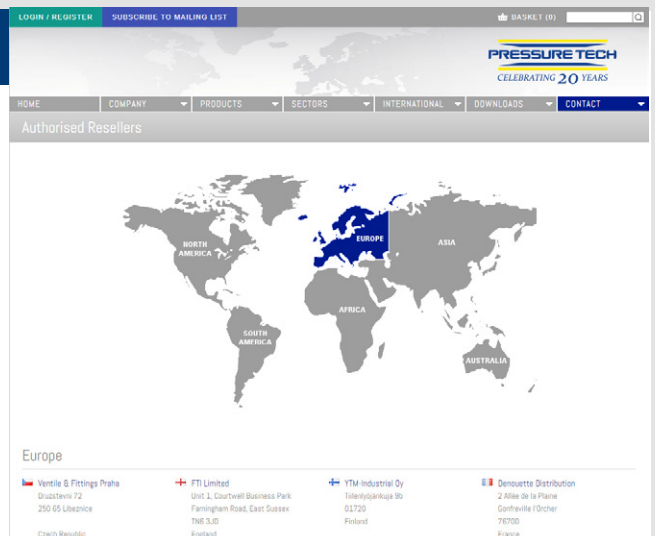


AUTHORISED RESELLERS

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.

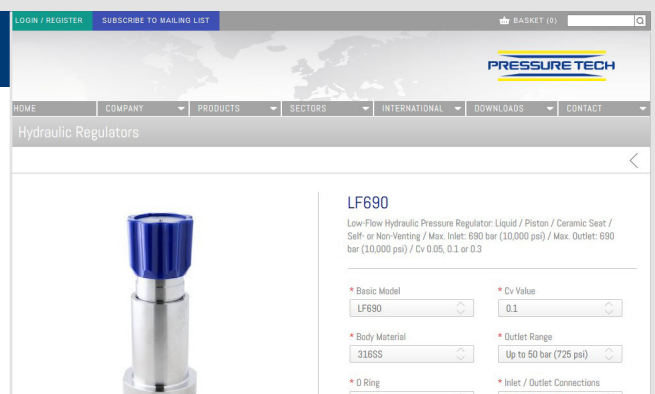
www.pressure-tech.com



ONLINE

If you would like to view pricing or order online, please visit the Pressure Tech website and register for an online account. Once approved, you will then be able to access pricing information and place orders 24/7, 7 days a week.

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>Cv: Valve flow coefficient (US GPM with P=1 psi) Q: Fluid flow (US GPM) S: Specific gravity of fluid ΔP: 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>Cv: Valve flow coefficient (US GPM with P=1 psi) K1: Viscosity correction factor for fluids Q: Fluid flow (US GPM) S: Specific gravity of fluid ΔP: 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>Cv: Valve flow coefficient (US GPM with P=1 psi) Qa: Air or gas flow (SCFH) at 14.7 psi and 60°F G: Specific gravity of gas relative to air at 14.7 psi and 60°F T: Flow air or gas temperature (°F) ΔP: P1 - P2 at maximum flow (psi) P2: 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>Cv: Valve flow coefficient (US GPM with P=1 psi) Qa: Air or gas flow (SCFH) at 14.7 psi and 60°F G: Specific gravity of gas relative to air at 14.7 psi and 60°F T: Flow air or gas temperature (°F) P1: 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:

01	Inlet Pressure	06	Temperature
02	Outlet Pressure	07	Non-Venting or Self-Venting
03	Required Accuracy	08	Connection Type and Size
04	Cv or Flow Rate	09	Porting Configuration
05	Media	10	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 contact the Pressure Tech sales team on +44 (0)1457 899 307 - they will be able to advise you on the current status of your order.

Can I view prices online?

You will require an online account to view pricing on our website. Please visit www.pressure-tech.com and then click 'Login / Register' to begin your application. Once approved, you will receive an email notification.

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.

What currencies do you accept?

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

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.



PRESSURE TECH
CELEBRATING 20 YEARS

JAN 2021



PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com