

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.

ANALYSER & INSTRUMENTATION



Typically incorporating Inconel® X750 diaphragmsensed 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 enviroments, 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.





| Pag | je |
|-----|---|
| 05 | ANALYSER & INSTRUMENTATION |
| 05 | MINI300, LF310, LF240, TS310, TS311, CYL310, CYL540, ACS310, ACU310, XHS310, XHS311, XHR310, XHR311, XHR310 (STEAM) and XHM300. |
| 09 | HIGH PRESSURE: GAS |
| ••• | LF311, LF540 and LF792. |
| 10 | HIGH PRESSURE: LIQUID |
| | LGC690, HYD691, LF690, LF691 and MF414H. |
| | |
| 11 | MEDIUM-FLOW |
| | MF101, MF230, MF231, MF210, MF301, MF400, MF401 and MF414G. |
| | |
| 13 | HIGH-FLOW |
| | HF300, HF301, HF250, HF251, HF210 and HF211. |
| 4.5 | BACK PRESSURE |
| 15 | BP010, BP300, BP301, BP-LF540, BP-LF690, BP-LF691, BP-MF690 (05), BP-MF690 (15), |
| | BP-MF400, BP-MF401, BP-HF301 and BP-HF251. |
| | |
| 18 | DIVING |
| 10 | LF310, MF101, LF540, MF301, MF300T and BIBS100. |
| | |
| 20 | HYDROGEN |
| | LW351, AUTO438, AUTO875, RF1034, LW438, LW-TS414 and CV414-SC. |
| | |
| 22 | SUBSEA |
| | SS-COM301, SS690, SS691, SS414, SS-BP400, SS231 and Electric Actuator. |
| | |
| 24 | ORDERING |
| - | How to order, Cv formulae and what information we require. |

| | MINI300 COMPACT | PIST | | S THREADED BONNET | - | PTIONAL MENT METHO | LIGHTW DS & COM | - |
|--|--------------------|-----------|----------|------------------------|-------|-----------------------|--------------------|-------------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | 4 /0" | 0.06 | Car | 210 bar (3,045 psi) | PCIEE | 100 bar |) Piston | Non |
| | 1/8 | 1/8" 0.06 | 0.06 Gas | 300 bar (4,350 psi) | PEEK™ | (1,450 psi) | | |

| LF310 LOW-FLOW | - | DNEL® X750 PHRAGM | 316SS THRE BONNE | | 0 MICRON LET FILTER | SOLID DIS SEAT DESIG | |
|-------------------|--------------|----------------------|------------------------|-------|------------------------|-------------------------------|-------------------|
| PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | | | 50 bar (725 psi) | FEP | | | |
| 1/4" | 0.06 0.15 | Gas or Liquid | 300 bar (4,350 psi) | PCTFE | 35 bar (510 psi) | Inconel® X750 Diaphragm | Non |
| | | | 414 bar (6,000 psi) | PEEK™ | | | |

| LF240 LOW-FLOW | | GE ELASTON DIAPHRAGN | | TWEIGHT OMPACT | LOW DEC PRESSURE | | |
|-------------------|----------|-------------------------|------------------------|-------------------|--------------------------|--------------------|-------------------|
| PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| 1/4" | 0.06 | Can | 300 bar (4,350 psi) | PCTFE | 10 bar | PTFE-Lined | Non |
| 1/4" 0.06 | 0.06 Gas | 414 bar (6,000 psi) | PEEK™ | (145 psi) | Elastomeric Diaphragm | Non | |

| | TS310 TWO-STAGE | | TAL-TO-ME TING DIAPHR | | % DECAYIN SURE EFFI | | RSTAGE' RELII | EF |
|--|--------------------|------|--------------------------|------------------------|------------------------|---------------|--------------------|----------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENT OPTION |
| errur (| 4 / 4 " | 0.06 | Can | 300 bar (4,350 psi) | PCTFE | 25 bar | Inconel® | Non |
| The second secon | 1/4" | 0.06 | Gas | 414 bar (6,000 psi) | PEEK™ | (360 psi) | X750 Diaphragm | Non |





Analyser & Instrumentation Regulators

| | TS311 TWO-STAGE | PIST SENS | | % DECAYING SURE EFFEC | | STAGE' RELI | EF 40 MICF INLET FI | |
|--------|--------------------|--------------|---------|--------------------------|-------|---------------|------------------------|----------------|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENT OPTION |
| anur (| 1/4" | 0.06 | 0.00 | 300 bar (4,350 psi) | PCTFE | 20 bar | Piston | New |
| | 1/4 | 0.06 | Gas | 414 bar (6,000 psi) | PEEK™ | (290 psi) | Piston | Non |

| CYL310 CYLINDER ASSEMBLY | | CUSTOMISABLE TO INCONEL® X750 SOLID DISK 40 MICRON SUIT APPLICATION DIAPHRAGM SEAT DESIGN INLET FILTER | | | | | | | |
|-----------------------------|-----------|---|------------------------|-------|---------------|----------------------|-------------------|--|--|
| PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | | |
| 4 / 4 7 | 0.06 | Cas | 300 bar (4,350 psi) | PCTFE | 35 bar | Inconel [®] | Non | | |
| 1/4 | 1/4" 0.06 | .06 Gas | 414 bar (6,000 psi) | PEEK™ | (510 psi) | X750 Diaphragm | Non | | |

| CYL540 CYLINDER ASSEMBLY | COMI DES | PACT PIST | TON- SEL SED NON-V | .F OR ENTING | 40 MICRON | R | |
|-----------------------------|-------------|-----------|------------------------|-----------------|---------------------|--------------------|-------------------|
| 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 | | ICAL / LAB LICATIONS | USER-FRIEN DESIGN | | | ND- STAND OR WALL-M | ALONE OR OUNTABLE |
|--|---------------------------|------|-------------------------|------------------------|-------------------|---------------------|---|----------------------|
| | 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 |

| ACU310 AUTO-CHANGEOVER | | NEL® X750 PHRAGM | USER-FRIEN DESIGN | | OND-STAGE GULATOR | 0.1% DEC | |
|---------------------------|------|---------------------|------------------------|-------------------|----------------------|---|-------------------|
| 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 |

| Å | XHS310 ELECTRIC-HEATED | | | SIDE-ENTRY OR IN-LINE | ATEX & IEC CERTIFI | | NEL [®] X750 PHRAGM | |
|-------|---------------------------|------|---------|--------------------------|-----------------------|---------------|---------------------------------|-------------------|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| ka ka | 4/4" | 0.00 | 0.00 | 300 bar (4,350 psi) | PCTFE | 35 bar | | Nor |
| IEC | 1/4" | 0.06 | Gas | 414 bar (6,000 psi) | PEEK™ | (510 psi) | X750 Diaphragm | Non |

| Å | XHS311 ELECTRIC-HEATED | | | SIDE-ENTRY OR IN-LINE | ATEX & IE APPRO | ECEX PIST VED SEN | | |
|-----|---------------------------|------|---------|--------------------------|--------------------|----------------------|--------------------|-------------------|
| L. | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| Ex |) | 0.06 | Gas | 300 bar (4,350 psi) | PCTFE | 150 bar | Piston | Non |
| IEC | | 0.06 | Gas | 414 bar (6,000 psi) | PEEK™ | (2,175 psi) | FISION | NOT |

| | | XHR310 ELECTRIC-HEATED | - | 00W HEATER RTRIDGES | ATEX & IEC CERTIFIE | | DNEL® X750 APHRAGM | OPTIONA SUPPLY ENT | |
|--|-------------|---------------------------|------|------------------------|------------------------|-------|-----------------------|---|-------------------|
| | | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | ⟨£x⟩ IEC | 1/4" | 0.06 | Gas or Liquid | 414 bar (6,000 psi) | PEEK™ | 35 bar (500 psi) | Inconel [®] X750 Diaphragm | Non |





Analyser & Instrumentation Regulators

| | XHR311 ELECTRIC-HEATED | | 00W HEATER RTRIDGES | ATEX & IEC CERTIFIE | | | PTIONAL CABL | |
|------|---------------------------|------|------------------------|------------------------|-------|------------------------|--------------------|-------------------|
| ×3 | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| IEC. | 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 40 MICRON INCONEL® X750 SOLID DISK DESIGN INLET FILTER DIAPHRAGM SEAT DESIGN | | | | | | | |
|---|------------------------|------|--|------------------------|-------|---------------------|---|-------------------|--|--|
| 6 | 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 | | & IECEX RTIFIED | ALTERNA MATERIALS A | COMPACT DESIGN | | | |
|--------|---------------------------|----|--------------------|------------------------|-------------------|---------------|--------------------|-------------------|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| Ex IEC | 1/4" | NA | Gas or Liquid | 300 bar (4,350 psi) | NA | NA | NA | NA |

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

| LF540 LOW-FLOW | - | COMPACT & PISTON- NON- OR PRECISION-MACHINED ECONOMICAL SENSED SELF-VENTING 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 | | HANCED | PISTON- SENSED | SEGREG CAPTURED | ATED EAS VENT SEA | Y ACCESS TO T 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 PISTON- SEGREGATED EASY ACCESS TO INLET FILTER SENSED CAPTURED VENT SEAT CARTRDIGE | | | | | | | |
|-------------------------|-----|---|------------------------|-------|---------------------|--------------------|--------------------|--|--|
| 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 | _ | IPACT & NOMICAL | CERAMIC SEGREGATED MAIN VALVE SEAT CAPTURED VENT CARTRIDGE DESIGN | | | | | |
|---|---------------------|------|--------------------|--|---------|-------------------------|--------------------|------------------------------|--|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | |
| 4 | 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 FULLY SUPPORTED SEGREGATED EASY ACCESS TO SEAT MAIN VALVE CAPTURED VENT 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 FULLY SUPPORTED SEGREGATED EASY ACCESS TO SEAT MAIN VALVE CAPTURED VENT 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) | |

| Ŵ | MF414H MEDIUM-FLOW | | PISTON- BALANCED SEGREGATED HIGH FLOW SENSED DESIGN CAPTURED VENT 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) | |

| MF101 MEDIUM-FLOW | | GE PRECISIO SENSING EI | DN-MACHINED LEMENT | NON- SELF-VE | | GHTWEIGHT COMPACT | |
|----------------------|-----|---------------------------|------------------------------------|--|---------------------------------|----------------------|-------------------|
| PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | | | 100 bar (1.450 pai) | PCTFE | 35 bar | | |
| | | | (1,450 psi) Unbalanced | PEEK™ | (510 psi) Self-Vent | | |
| 1/4" | 0.5 | Gas or Liquid | 300 bar (4,350 psi) Balanced | 300 bar (4,350 psi) PCTFE or Piston Balanced | Piston | Non or Self | |
| | | | 414 bar (6,000 psi) Balanced | PEEK™ | 40 bar (580 psi) Non-Vent | | |

| MF230 MEDIUM-FLOW | | LARGE SENS | | BALANCED DESIGN | LOW DE PRESSUR | CAYING E EFFECT | |
|----------------------|-----|------------|------------------------|--------------------|-------------------|--------------------|-------------------|
| PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| 4.07 | 1.0 | Gas or | 50 bar (725 psi) | PTFE | 10 bar | Dianhaara | Nor |
| 1/2" | 1.0 | Liquid | 230 bar (3,350 psi) | PCTFE or PEEK™ | (115 poi) | Diaphragm | Non |

| MF231 MEDIUM-FLOW | | ARGE SENS | BITIVE APHRAGM | BALANCED DESIGN | LOW DE PRESSUR | | |
|----------------------|-----|---------------------|------------------------|--------------------|-------------------|--------------------|-------------------|
| 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 | Picton | Non | |
| 1/2 | 1.0 | Gas | 230 bar (3,350 psi) | PCTFE or PEEK™ | (1 150 mai) | i) Piston | Non |

| MF210 MEDIUM-FLOW | | -LINED HRAGM O | | NGE OF ENI | | | |
|----------------------|-----|-------------------|---------------------|------------|---------------------|--|-------------------|
| 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 | PIST(SENS | | | W DECAYING | G EASY CT SEAT (| ACCESS TO 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 |

| Ũ | MF400 MEDIUM-FLOW | | BALANCED OPTIONAL DIAPHRAGM- HIGH FLOW DESIGN CONNECTION TYPES SENSED COEFFICIENT | | | | | | |
|--------------------------|----------------------|-----|--|------------------------|-------------------|---------------------|--------------------|-------------------|--|
| No. of the second second | 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 | |

| Û | MF401 MEDIUM-FLOW | | | | | | | | |
|--------------------|----------------------|-----|------------------|------------------------|-------------------|------------------------|--------------------|-------------------|--|
| Contraction of the | 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 | |

| W | MF414G MEDIUM-FLOW | PISTON- BALANCED SEGREGATED HIGH FLOW SENSED DESIGN CAPTURED VENT 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 ELASTOMERIC HIGH FLOW GAS OR LIQUID DESIGN DIAPHRAGM COEFFICIENT APPLICATIONS | | | | | | |
|------|--------------------|---------------|---|--------------|-----------|---------------|--------------------|-------------------|--|
| 4540 | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | |
| , | 1" | 4.0 | Gas | 300 bar | PEEK™ | 10 bar | Elastomeric | Non | |
| | 1" 4. | 4.0 Liquid | (4,350 psi) | Vespel® | (145 psi) | Diaphragm | Non | | |

| | HF301 HIGH-FLOW | | BALANCED PISTON- HIGH FLOW GAS OR LIQUID DESIGN SENSED COEFFICIENT APPLICATIONS | | | | | | |
|--|--------------------|-----|--|--------------|---------|------------------------|--------------------|-------------------|--|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | |
| | 1" | 4.0 | Gas | 300 bar | PEEK™ | 300 bar (4,350 psi) | Piston | Non | |
| | | | Liquid | | Vespel® | | | NOT | |

| I | HF250 HIGH-FLOW | | BALANCED DIAPHRAGM- HIGH FLOW GAS OR LIQUID DESIGN SENSED COEFFICIENT APPLICATIONS | | | | | | |
|----------|--------------------|-----|---|--------------|-------|---------------|--------------------|----------------|--|
| a s p as | PORT SIZE | сv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENT OPTION | |
| . 0 | 1" | 7.0 | Gas | 250 bar | PCTFE | 10 bar | Diaphragm | Non | |
| | 1 1/2" | 7.0 | Liquid | (3,625 psi) | PEEK™ | (145 psi) | Diaphragm | Non | |

| | HF251 HIGH-FLOW | | BALANCED PISTON- HIGH FLOW GAS OR LIQUID DESIGN SENSED COEFFICIENT APPLICATIONS | | | | | | |
|----------|--------------------|-----|--|--------------|-------|---------------|--------------------|----------------|--|
| as E its | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENT OPTION | |
| . 0 | 1" | 7.0 | Gas | 250 bar | PCTFE | 200 bar | Piston | Non | |
| | 1 1/2" | 7.0 | Liquid | (3,625 psi) | PEEK™ | (3,625 psi) | FISION | NOT | |





| | HF210 HIGH-FLOW | - | PRING OR /IE-LOADED | DIAPHRAGI SENSED | | | AS OR LIQUID PPLICATIONS | |
|--|--------------------|------|------------------------|---------------------|-------|---------------|-----------------------------|-------------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | 2" | 12.0 | Gas | 210 bar | PCTFE | 10 bar | Dianhragm | Non |
| | 2" 13.0 | | Liquid | (3,045 psi) | PEEK™ | (145 psi) | Diaphragm | Non |

| | HF211 HIGH-FLOW | - | T-OPERATED STANDARD |) PISTON- SENSED | HIGH FL COEFFICI | | OR LIQUID ICATIONS | |
|--|--------------------|------|------------------------|---------------------|---------------------|---------------|-----------------------|-------------------|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | 0" | 12.0 | Gas | 210 bar | PCTFE | 200 bar | Piston | Non |
| | 2" 13.0 | | Liquid | (3,045 psi) | PEEK™ | (2,900 psi) | FISION | INON |

| BP010 BACK PRESSURE | ELASTO DIAPHR | | E-LINED BC PHRAGM BC | | S 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 DIAPHR | | S OR LIQUID PLICATIONS | LOW FLOW COEFFICIEN | LIGHTWEIG | |
|------------------------|-------------------|------------------|---------------------------|------------------------|---------------------|--|
| 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 | | IQUID CH IONS FLOW | OICE OF LOW / COEFFICIEN | | |
|------------------------|-------------------|---------|-----------------------|-----------------------------|------------------|--------------------|
| PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| | | Gas | 150 bar | PCTFE | 150 bar | |
| 1/4" | 0.1 | Liquid | (2,175 psi) | PCTFE or PEEK™ | (2,175 psi) | Piston |

| | BP-LF540 LOW-FLOW | PISTON SENSEI | | | W FLOW A | IR-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 | | E OF LC ERIALS COI | | AIR-ACTUATED OPTION | |
|----------------------|--------|---------|-----------------------|-------|------------------------|--------------------|
| PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| 1/4" | 0.1 | Gas | 550 bar | PEEK™ | 414 bar | Piston |
| 1/4 | 0.1 | Liquid | (7,975 psi) | 316SS | (6,000 psi) | FISION |





| | BP-LF691 LOW-FLOW | PISTON- SENSED | | | OW FLOW EFFICIENT | AIR-ACTUATED OPTION | |
|---|----------------------|-------------------|---------|---------------|----------------------|------------------------|--------------------|
| | PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| , | 1/4" | 0.1 | Gas | 1,034 bar | PEEK™ | 900 bar | Piston |
| | 1/4 | 0.1 | Liquid | (15,000 psi) | 316SS | (13,050 psi) | FISION |

| | BP-MF690 (05) MEDIUM-FLOW | PISTON- SENSED | | N-MACHINED | AIR-ACTUAT OPTION | ED FLANGED OPTION |) |
|------|------------------------------|-------------------|---------|---------------|----------------------|----------------------|--------------------|
| | PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| , | 1/0" | 0.5 | Gas | 550 bar | PEEK™ | 414 bar | Piston |
| 1/2" | 1/2 | 0.5 | Liquid | (7,975 psi) | Hastelloy | (6,000 psi) | FISION |

| BP-MF690 (15) MEDIUM-FLOW | PISTON- SENSED | CERAMIC SEATING | | | | |
|------------------------------|-------------------|--------------------|---------------|---------|------------------|--------------------|
| PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| 2//" | 1.5 | Gas | 690 bar | PEEK™ | 300 bar | Piston |
| 3/4" | 1.5 | Liquid | (10,000 psi) | Ceramic | (4,350 psi) | PISION |

| | BP-MF400 MEDIUM-FLOW | ELASTOMERIC EASY ACCESS TO FLANGE-TYPE DIAPHRAGM SEAT CARTRIDGE BONNET | | | | | | | | |
|--------------|-------------------------|---|---------|---------------|-------|------------------|--------------------|--|--|--|
| The sums for | PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT | | | |
| 1 | 1/0" | 3.0 | Gas | 10 bar | PCTFE | 10 bar | Diophroam | | | |
| | 1/2" | | Liquid | (145 psi) | PEEK™ | (145 psi) | Diaphragm | | | |

| | BP-MF401 MEDIUM-FLOW | ELASTOI DIAPHR | | SY ACCESS TO T CARTRIDGE | | YPE BALANC T DESIG | |
|----------------|-------------------------|-------------------|---------|-----------------------------|-------|-----------------------|--------------------|
| The section of | PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT |
| 1 | 1/0" | 3.0 | Gas | 400 bar | PCTFE | 200 bar | Piston |
| | 1/2" 3. | 3.0 | Liquid | (5,800 psi) | PEEK™ | (2,900 psi) | FISION |

Back Pressure Regulators

| | BP-HF301 HIGH-FLOW | PISTON- GAS OR LIQUID HIGH FLOW BALANCED SENSED APPLICATIONS COEFFICIENT DESIGN | | | | | | | | | |
|--|-----------------------|--|---------|---------------|-----------|------------------|--------------------|--|--|--|--|
| | PORT SIZE | | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT | | | | |
| | 1" | 4.0 | Gas | 300 bar | PEEK™ | 200 bar | Diston | | | | |
| | | 4.0 | Liquid | (4,350 psi) | Tecasint® | (2,900 psi) | Piston | | | | |

| | BP-HF251 HIGH-FLOW | | PISTON- GAS OR LIQUID HIGH FLOW BALANCED SENSED APPLICATIONS COEFFICIENT DESIGN | | | | | | | | |
|---|-----------------------|-----|--|---------------|-----------|------------------|--------------------|--|--|--|--|
| | PORT SIZE | CV | SERVICE | MAX RATING | SEAT | CONTROL RANGE | SENSING ELEMENT | | | | |
| G |) 1" | | Gas | 300 bar | PEEK™ | 200 bar | Piston | | | | |
| | 1 1/2" | 7.0 | Liquid | (4,350 psi) | Tecasint® | (2,900 psi) | FISION | | | | |





| | LF310 LOW-FLOW | - | ONEL® X750 PHRAGM | 316SS THRE BONNE | | 0 MICRON LET FILTER | SOLID DISI SEAT DESIG | |
|--|-------------------|--------------|----------------------|------------------------|-------|------------------------|-------------------------------|-------------------|
| | PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | | | | 50 bar (725 psi) | FEP | | | |
| | 1/4" | 0.06 0.15 | Gas or Liquid | 300 bar (4,350 psi) | PCTFE | 35 bar (510 psi) | Inconel® X750 Diaphragm | Non |
| | | | | 414 bar (6,000 psi) | PEEK™ | | . 0 | |

| | MF101 MEDIUM-FLOW | LARC | GE PRECISIO SENSING EI | DN-MACHINED LEMENT | | | | |
|--|----------------------|------|---------------------------|--------------------------------------|-------|----------------------------------|--------------------|-------------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | 1/4" | | | 100 bar (1,450 psi) Unbalanced | PCTFE | 35 bar (510 psi) Self-Vent | | |
| | | 0.5 | Gas or Liquid | 300 bar (4,350 psi) Balanced | PCTFE | or | Piston | Non or Self |
| | | | | 414 bar (6,000 psi) Balanced | PEEK™ | 40 bar (580 psi) Non-Vent | | |

| | LF540 LOW-FLOW | _ | | PISTON- SENSED SE | NON- OR LF-VENTIN | | ON-MACHINE NG ELEMENT | D |
|---|-------------------|-----|------------------|-------------------------|----------------------|------------------------|--------------------------|-------------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| 2 | 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- BALANCED LOW DECAYING EASY ACCESS TO SENSED DESIGN PRESSURE EFFECT SEAT CARTRIDGE | | | | | | | | |
|----------------------|-----|--|------------------------|-------|---------------|--------------------|-------------------|--|--|--|
| PORT SIZE | cv | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | | | |
| 1/2" | 2.0 | Gas or | 300 bar (4,350 psi) | PCTFE | 300 bar | Distan | Non or | | | |
| 1/2 | 2.0 | Liquid | 414 bar (6,000 psi) | PEEK™ | (4,350 psi) | Piston | Self | | | |

Diving Regulators

| | MF300T MEDIUM-FLOW | | PISTON- TRACKING DESIGN MAINTAINS SENSED 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 | |
| then with | BIBS100 NEGATIVE BIASED | - | ARGE SENS | | EASY ACC SEAT CAR | | NE ADJUSTM OF BIAS SPRI | | |
| | PORT SIZE | cv | SERVI | CE MAX | S | FAT - | ONTROL RANGE | SENSING ELEMENT | |
| | 3/4" | 2.0 | Gas | 50 ba (725 p | P | TFE (| 30 bar 435 psi) | Elastomeric Diaphragm | |





| ÷ | LW351 H2 DRONES | - | LIGHTWEIGHT PISTON- 0.15% DECAYING DIRECT MOUNTING & COMPACT SENSED PRESSURE EFFECT TO CYLINDER | | | | | | | | |
|---|--------------------|------|--|------------------------|-------|-------------------|--------------------|-------------------|--|--|--|
| P | 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 | | | | | | | | |
|-----------------|---|-----|---------|------------------------|---------|---------------------|--------------------|-------------------|--|
| | 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 | | | ACCESS TO CARTRIDGE | | | | |
|------------------------|-----|---------|-------------------------|-------|---------------------|--------------------|-------------------|
| 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 | | Y TO ACCES CARTRIDG | | OPTIC AUTO CO | | 0.3 FOR FAS | т |
|-----------------------------|-----|------------------------|---------------------------|------------------|---------------------------|--------------------|-------------------|
| 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 | | ITWEIGHT DESIGN | PISTON- SENSED | BALANCEI DESIGN | D FOR FOR APPLICA | | |
|-------------|----------------------|------|--------------------|------------------------|--------------------|----------------------|--------------------|-------------------|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| MART DURING | SAE-4 | 0.06 | Gas | 438 bar (6,350 psi) | PEEK™ | 20 bar (190 psi) | Piston | Non |

| | LW-TS414 H2 TWO-STAGE | | D-STAGE ESIGN | 0.04% DECA PRESSURE E | | DLID DISK AT DESIGN | LIGHTWEI | |
|---------|--------------------------|------|------------------|--------------------------|-------------------|------------------------|----------------------|-------------------|
| 0 | PORT SIZE | cv | SERVICE | MAX INLET | 1ST STAGE SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| | 4/4" | 0.00 | 0 | 300 bar (4,350 psi) | PCTFE | 1 bar | Piston | Non |
| | 1/4" | 0.06 | Gas | 414 bar (6,000 psi) | PEEK™ | (14.5 psi) | | |
| TPED | CV414-SC | | EASY CONNECT | CONTINUA GAS SUPPL | | | GHTWEIGHT COMPACT | |
| PENDING | CYLINDER VALVE | | | MAX | | | | |
| | PORT SIZE | cv | SERVICE | INLET | SEAT | | | |
| | 5/8" M18 | 0.06 | Gas | 350 bar (5,075 psi) | PCTFE | _ | | |
| | IVI I O | | | 414 bar | | | | |

414 bar

(6,000 psi)

PEEK™





Subsea Regulators

| | SS-COM301 SUBSEA | | | ANTI-TAMPE LOCKING C/ | | | RE REDUCTIO | |
|----|---------------------|-----|------------------|--------------------------|-------|---------------------|--------------------|-------------------|
| en | 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 ANTI-TAMPER MP35N OPTIONAL DEEP WATERS LOCKING CAP SPRING REMOTE OPERATION | | | | | | N |
|--------------|-----------------|--|---------|-------------------------|---------|-------------------------|--------------------|-------------------|
| 4 <u>-</u> 1 | 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 ANTI-TAMPER MP35N OPTIONAL DEEP WATERS LOCKING CAP SPRING REMOTE OPERATION | | | | | | N |
|-------|-----------------|--|---------|---------------------------|---------|-------------------------|--------------------|-------------------|
| 4 - 4 | 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 ANTI-TAMPER MP35N OPTIONAL DEEP WATERS LOCKING CAP SPRING REMOTE OPERATION | | | | | | |
|-----------------|--|---------|----------------------|---------|---------------|--------------------|-------------------|
| PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION |
| 2/9" | 2.0 | Gas | 414 bar | PEEK™ | 250 bar | Piston | Non or |
| 3/8" 2 | 2.0 Liquid | Liquid | (6,000 psi) Ceran | Ceramic | (3,625 psi) | Piston | Self |

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

| | SS231 SUBSEA | | | ANTI-TAMPE | ER MP35N OPTIONAL AP SPRING REMOTE OPERATION | | | | |
|-----|-----------------|-----|---------|------------------------|---|---------------------|--------------------|-------------------|--|
| | PORT SIZE | CV | SERVICE | MAX INLET | SEAT | MAX OUTLET | SENSING ELEMENT | VENTING OPTION | |
| omr | 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





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

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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

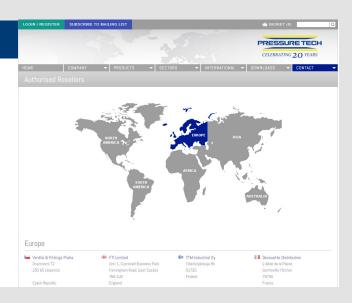


AUTHORISED RESELLERS

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 | | | | | | | |
| $C_{v} = Q \sqrt{\frac{\mathrm{S}}{\Delta \mathrm{P}}}$ | 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) | Specific gravity correction is neglible for water below 93°C (200°F) - use S=1.0. Use actual specific gravity of other liquids at actual flow temperature. | | | | | | | |
| $C_{v} = K_{1}Q \sqrt{\frac{\mathrm{S}}{\Delta \mathrm{P}}}$ | 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) | Use this formula for fluids with viscosity correction factor. Use actual specific gravity of other liquids at actual flow temperature. | | | | | | | |

For Gases (e.g. Air, Natural Gas, Propane, etc)

| FORMULA | KEY | NOTES |
|---|---|---|
| $C_{\nu} = \frac{\mathrm{Qa}\sqrt{G(T+460)}}{1360\sqrt{\Delta P(P_2)}}$ | 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.) | Use this formula when P2 is <i>greater than</i> 50% of P1. |
| $C_{v} = \frac{Qa\sqrt{G(T+460)}}{660 P_{1}}$ | <i>Cv:</i> Valve flow coefficient (US GPM with P=1 psi) <i>Qa:</i> Air or gas flow (SCFH) at 14.7 psi and 60°F <i>G:</i> Specific gravity of gas relative to air at 14.7 psi and 60°F <i>T:</i> Flow air or gas temperature (°F) <i>P1:</i> Inlet pressure at maximum flow (psi abs.) | Use this formula when P2 is <i>less than</i> or equal to 50% of P1. |





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 <u>www.pressure-tech.com</u> 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 <u>accounts@pressure-tech.com</u>.

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.



CELEBRATING **20** YEARS



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