

PN^oUMSYS[®]

ADVANCE ENERGY SOLUTIONS



www.pneumsysenergy.com



WHO WE ARE ?

PROFILE

Pneumsys advance Energy Solutions is a company which deals in advance piping products and compressed air energy measurement and management services. Part of our portfolio consists of Air Audits which can identify inefficiencies in a compressed air system and assist with entire system performance. Post assessment, optimization, leak reduction and practical air management processes are implemented in the plant to give a 35 - 40% increase in energy savings of the compressed air system.

We also are supplying products and solutions for machine automation and allied applications where

different types of fluid media are required to run a process. High quality pneumatic products have ensured reliability of performance and a strong after sales service is what we stand for.

Using efficient aluminium piping we have executed more than 5000 projects and hence effectively reduce energy costs by 25 - 30% as compared to conventional piping systems year on year. With our operations covering mostly all countries in Asia, We have a formidable reach and range which encompasses a complete solutions platform for all Pneumatic and all types of fluid handling applications.

FROM THE DIRECTOR DESK



The piping sector is growing at fast pace in this country. It requires continuous modification and adaptation in order to move in tandem with the growing piping industry. At Pneumsys, we enjoy this opportunity, as it highlights our unique ability, striving to offer our valued customers with our best efforts at all times. We are encouraged to remain a pioneering market leader, surpassing our customers' expectations, and motivating the communities in which we operate.

Pneumsys has played a key role over the years in supporting to aid such developments. Apart from this, we are growing in advance piping technologies and leaving a great impact on businesses and energy savings.

Rajiev Luthra (Director)

Our Infrastructure



Mumbai Office



Training Center



Vasai Office



Luthra Automation Plant



Bangalore Office



UAE Warehouse



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Field of Application & Technical Details

| | EQOair | EQOnitro | EQOvac |
|-----------------|--|-----------------|---------------|
| EQOair | Transport and distribution of compressed Air for any kind of use. | | |
| EQOnitro | Transport and distribution of Nitrogen in Industry, Food, Automotive, Medical and Enological Field etc | | |
| EQOvac | For any kind of vacuum plant. | | |

Technical Details

Some Technical Characteristics

| Some Technical Characteristics | EQOair | EQOnitro | EQOvac | EQOairHP | EQOoilHP |
|---|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Standard Colour | RAL 5012 | RAL 6018 | RAL 7046 | RAL 5017 | RAL 8007 |
| Max Working Pressure | 16 BARS | 16 BARS | -0.87 BARS | 70 BARS | 70 BARS |
| Plant Testing Pressure 1 hour at 20°C | 24 BARS | 24 BARS | 24 BARS | 105 BARS | 105 BARS |
| Quality Testing Pressure 1 hour at 20°C | 64 BARS | 64 BARS | 64 BARS | 280 BARS | 280 BARS |
| Production tested percentage | 1% | 1% | 1% | 100% | 100% |
| O. Ring & Lip Gasket Material | NBR 65/75 S.A. | EPDM 65/75 S.A. | NBR 65/75 S.A. | NBR 65/75 S.A. | NBR 65/75 S.A. |
| Continuous Service Temperature Limit | -20°C ^a 100°C | -50°C ^a 150°C | -20°C ^a 100°C | -20°C ^a 100°C | -20°C ^a 100°C |
| Aluminium Pipe Mechanical Resistance | According to EN-755-2/2008 standard | | | | |
| Pipe Material | Aluminium alloy EN AW 6063 - T6 according to EN 755-2/2008 | | | | |
| Pipe Thickness mm | D20-S1. 0 - D25-S1. 1 - D32-S1. 2 - D40-S1. 3 - D50-S1. 4 - D63-S1.8 D90-S2. 0 - D110-S3. 8 - D160-S4. 3 | | | | |
| Aluminium Fittings Material | Aluminium alloy EN AW 6061 - T6 / ENAB 42000 | | | | |
| Clamp Ring Material | AISI 304 Stainless Steel | | | | |
| Threads Standards | BSPT - British Standard Pipe Taper ora ISO 7-1 - NPT-National Pipe Thread Taper-ANSI B1.20.1 | | | | |

Project Installations




EQOfluids PNPUMSYS




Aluminium Fittings from 20mm to 160mm sizes suitable for 0-70 Bar Application.
Applications - ♦ Compressed Air ♦ Nitrogen ♦ Vacuum

PN 16 Pipes

| | Part Number | Ø | Length | NP |
|---|----------------|-----|----------|---------|
|  | 82.900.020.104 | 20 | 4 Mtr. | 16 Bars |
| | 82.900.025.105 | 25 | 5 Mtr. | 16 Bars |
| | 82.900.032.105 | 32 | 5 Mtr. | 16 Bars |
| | 82.900.040.106 | 40 | 5.8 Mtr. | 16 Bars |
| | 82.900.050.106 | 50 | 5.8 Mtr. | 16 Bars |
| | 82.900.063.106 | 63 | 5.8 Mtr. | 16 Bars |
| | 82.900.090.106 | 90 | 5.8 Mtr. | 16 Bars |
| | 82.900.110.106 | 110 | 5.8 Mtr. | 16 Bars |
| | 82.900.160.106 | 160 | 5.8 Mtr. | 16 Bars |


Coupling

| | Part Number | Ø | NP |
|--|-------------|---------|---------|
|  | 82.010.020 | 20x20 | 16 Bars |
| | 82.010.025 | 25x25 | 16 Bars |
| | 82.010.032 | 32x32 | 16 Bars |
| | 82.010.040 | 40x40 | 16 Bars |
| | 82.010.050 | 50x50 | 16 Bars |
| | 82.010.063 | 63x63 | 16 Bars |
| | 82.010.090 | 90x90 | 16 Bars |
| | 82.010.110 | 110x110 | 16 Bars |
| | 82.010.160 | 160x160 | 16 Bars |


Adaptor / Flange Adaptor

| | Part Number | Ø | NP |
|--|----------------|-----------|---------|
|   | 82.020.020.048 | 20x1/2" | 16 Bars |
| | 82.020.020.068 | 20x3/4" | 16 Bars |
| | 82.020.025.068 | 25x3/4" | 16 Bars |
| | 82.020.025.088 | 25x1" | 16 Bars |
| | 82.020.032.088 | 32x1" | 16 Bars |
| | 82.020.032.108 | 32x1.1/4" | 16 Bars |
| | 82.020.040.108 | 40x1.1/4" | 16 Bars |
| | 82.020.040.128 | 40x1.1/2" | 16 Bars |
| | 82.020.050.128 | 50x1.1/2" | 16 Bars |
| | 82.020.050.168 | 50x2" | 16 Bars |
| | 82.020.063.168 | 63x2" | 16 Bars |
| | 82.020.063.208 | 63x2.1/2" | 16 Bars |
| | 82.020.090.248 | 90x3" | 16 Bars |
| | 82.035.110.328 | 110x4" | 16 Bars |
| | 82.035.160.488 | 160x6" | 16 Bars |


45° Elbow

| | Part Number | Ø | NP |
|---|-------------|-------|---------|
|  | 82.053.020 | 20x20 | 16 Bars |
| | 82.053.025 | 25x25 | 16 Bars |
| | 82.053.032 | 32x32 | 16 Bars |
| | 82.053.040 | 40x40 | 16 Bars |
| | 82.053.050 | 50x50 | 16 Bars |
| | 82.053.063 | 63x63 | 16 Bars |


PN 70 Pipes

| | Part Number | Ø | Length | NP |
|--|----------------|----|----------|---------|
|  | 85.900.020.106 | 20 | 5.8 Mtr. | 70 Bars |
| | 85.900.025.106 | 25 | 5.8 Mtr. | 70 Bars |
| | 85.900.032.106 | 32 | 5.8 Mtr. | 70 Bars |
| | 85.900.040.106 | 40 | 5.8 Mtr. | 70 Bars |
| | 85.900.050.106 | 50 | 5.8 Mtr. | 70 Bars |
| | 85.900.063.106 | 63 | 5.8 Mtr. | 70 Bars |
| | 85.900.090.106 | 90 | 5.8 Mtr. | 70 Bars |

90° Tee

| | Part Number | Ø | NP |
|---|-------------|-------------|---------|
|  | 82.040.020 | 20x20x20 | 16 Bars |
| | 82.040.025 | 25x25x25 | 16 Bars |
| | 82.040.032 | 32x32x32 | 16 Bars |
| | 82.040.040 | 40x40x40 | 16 Bars |
| | 82.040.050 | 50x50x50 | 16 Bars |
| | 82.040.063 | 63x63x63 | 16 Bars |
| | 82.040.090 | 90x90x90 | 16 Bars |
| | 82.040.110 | 110x110x110 | 16 Bars |
| | 82.040.160 | 160x160x160 | 16 Bars |

Female Threaded Tee

| | Part Number | Ø | NP |
|--|----------------|--------------|---------|
|  | 82.041.020.048 | 20x1/2"x20 | 16 Bars |
| | 82.041.025.068 | 25x3/4"x25 | 16 Bars |
| | 82.041.032.088 | 32x1"x32 | 16 Bars |
| | 82.041.040.108 | 40x1.1/4"x40 | 16 Bars |
| | 82.041.050.128 | 50x1.1/2"x50 | 16 Bars |
| | 82.041.063.168 | 63x2"x63 | 16 Bars |

90° Elbow


| | Part Number | Ø | NP |
|--|-------------|---------|---------|
|  | 82.050.020 | 20x20 | 16 Bars |
| | 82.050.025 | 25x25 | 16 Bars |
| | 82.050.032 | 32x32 | 16 Bars |
| | 82.050.040 | 40x40 | 16 Bars |
| | 82.050.050 | 50x50 | 16 Bars |
| | 82.050.063 | 63x63 | 16 Bars |
| | 82.050.090 | 90x90 | 16 Bars |
| | 82.050.110 | 110x110 | 16 Bars |
| | 82.050.160 | 160x160 | 16 Bars |



Male Threaded 90° Elbow


| | Part Number | Ø | NP |
|--|----------------|-----------|---------|
|  | 82.052.020.048 | 20x1/2" | 16 Bars |
| | 82.052.025.068 | 25x3/4" | 16 Bars |
| | 82.052.032.088 | 32x1" | 16 Bars |
| | 82.052.040.108 | 40x1.1/4" | 16 Bars |
| | 82.052.050.128 | 50x1.1/2" | 16 Bars |
| | 82.052.063.168 | 63x2" | 16 Bars |





Accessories able to Transport Pressed Air & Other Fluids D20 up to D25 - Working Pressure 16 Bars up to 70 Bars


| Reducer | Part Number | Ø | NP |
|---|----------------|---------|---------|
|  | 82.025.025.020 | 25x20 | 16 Bars |
| | 82.025.032.025 | 32x25 | 16 Bars |
| | 82.025.040.020 | 40x20 | 16 Bars |
| | 82.025.040.025 | 40x25 | 16 Bars |
| | 82.025.040.032 | 40x32 | 16 Bars |
| | 82.025.050.040 | 50x40 | 16 Bars |
| | 82.025.063.040 | 63x40 | 16 Bars |
| | 82.025.063.050 | 63x50 | 16 Bars |
| | 82.025.090.063 | 90x63 | 16 Bars |
| | 82.025.110.090 | 110x90 | 16 Bars |
| | 82.025.160.090 | 160x110 | 16 Bars |

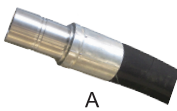

| Saddle Branch | Part Number | Ø | NP |
|---|----------------|---------|---------|
|  | 89.835.025.048 | 25x1/2" | 70 Bars |
| | 89.835.032.048 | 32x1/2" | 70 Bars |
| | 89.835.040.048 | 40x1/2" | 70 Bars |
| | 89.835.040.068 | 40x3/4" | 70 Bars |
| | 89.083.050.048 | 50x1/2" | 70 Bars |
| | 89.835.050.068 | 50x3/4" | 70 Bars |
| | 89.835.050.088 | 50x1" | 70 Bars |
| | 89.835.063.048 | 63x1/2" | 70 Bars |
| | 89.835.063.068 | 63x3/4" | 70 Bars |
| | 89.835.063.088 | 63x1" | 70 Bars |
| | 89.835.090.088 | 90x1" | 70 Bars |
| | 89.835.090.168 | 90x2" | 70 Bars |
|  | 89.835.110.088 | 110x1" | 70 Bars |
| | 89.835.110.168 | 110x2" | 70 Bars |
| | 89.835.160.168 | 160x2" | 70 Bars |
| | 89.835.160.248 | 160x3" | 70 Bars |


| Branch | Part Number | Ø | NP |
|---|----------------|-------|---------|
|  | 89.830.025.020 | 25x20 | 70 Bars |
| | 89.830.032.020 | 32x20 | 70 Bars |
| | 89.830.040.020 | 40x20 | 70 Bars |
| | 89.830.040.025 | 40x25 | 70 Bars |
| | 89.830.050.020 | 50x20 | 70 Bars |
| | 89.830.050.025 | 50x25 | 70 Bars |
| | 89.830.063.020 | 60x20 | 70 Bars |
| | 89.830.063.025 | 63x25 | 70 Bars |


| And Inline Plug | Part Number | Ø | NP |
|---|-------------|----|---------|
|  | 89.866.020 | 20 | 70 Bars |
| | 89.866.025 | 25 | 70 Bars |
| | 89.866.032 | 32 | 70 Bars |
| | 89.866.040 | 40 | 70 Bars |
| | 89.866.050 | 50 | 70 Bars |
| | 89.866.063 | 63 | 70 Bars |
| | 89.866.090 | 90 | 70 Bars |

| Aluminium Inline Ball Valve | Part Number | Ø | NP |
|--|----------------|-------|---------|
|  | 89.881.020.020 | 20 | 16 Bars |
| | 89.881.025.020 | 25x20 | 16 Bars |
| | 89.881.025.025 | 25 | 16 Bars |
| | 89.881.032.032 | 32 | 16 Bars |
| | 89.881.040.040 | 40 | 16 Bars |
| | 89.881.050.050 | 50 | 16 Bars |
| | 89.881.063.063 | 63 | 16 Bars |

| Aluminium P/MT Ball Valve | Part Number | Ø | NP |
|--|----------------|-----------|---------|
|  | 89.882.020.048 | 20x1/2" | 16 Bars |
| | 89.882.025.068 | 25x3/4" | 16 Bars |
| | 89.882.032.088 | 32x1" | 16 Bars |
| | 89.882.040.108 | 40x1.1/4" | 16 Bars |
| | 89.882.050.128 | 50x1.1/2" | 16 Bars |
| | 89.882.063.168 | 63x2" | 16 Bars |

| PN 0-40 Hose Pipe | Part Number | Ø | Length | NP |
|---|----------------|-----|--------|---------|
|  A | 89.920.020.110 | 20 | 1000mm | 16 Bars |
| | 89.920.025.110 | 25 | 1000mm | 16 Bars |
| | 89.920.032.110 | 32 | 1000mm | 16 Bars |
| | 89.920.040.110 | 40 | 1000mm | 16 Bars |
| | 89.920.050.110 | 50 | 1000mm | 16 Bars |
| | 89.920.063.110 | 63 | 1000mm | 16 Bars |
| | 89.920.090.110 | 90 | 1000mm | 16 Bars |
| | 89.920.110.110 | 110 | 1000mm | 16 Bars |
| | 89.920.160.110 | 160 | 1000mm | 16 Bars |
| | | | | |
|  B | | | | |
| | | | | |

| 45° 2 Outlet with Purge | Part Number | Ø | NP |
|--|----------------|---------------|---------|
|  | 89.841.025.048 | 20x1/2" | 16 Bars |
| | 89.842.025.048 | 25x1/2 "x1/2" | 16 Bars |

| Fastening Bracket with Studs | Part Number | Ø |
|--|-------------|-----|
|  | 89.800.020 | 20 |
| | 89.800.025 | 25 |
| | 89.800.032 | 32 |
| | 89.800.040 | 40 |
| | 89.800.050 | 50 |
| | 89.800.063 | 63 |
| | 89.800.090 | 90 |
| | 89.800.110 | 110 |
| | 89.800.160 | 160 |
| | | |
| | | |
| | | |



Accessories able to Transport Pressed Air & Other Fluids

Safety Quick Release Coupler M



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.750.028 | 1/4" | 16 Bars |
| 89.750.038 | 3/8" | 16 Bars |
| 89.750.048 | 1/2" | 16 Bars |

Safety Quick Release Coupler B.C.



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.752.608 | 1/4" | 16 Bars |
| 89.752.610 | 3/8" | 16 Bars |
| 89.752.612 | 1/2" | 16 Bars |

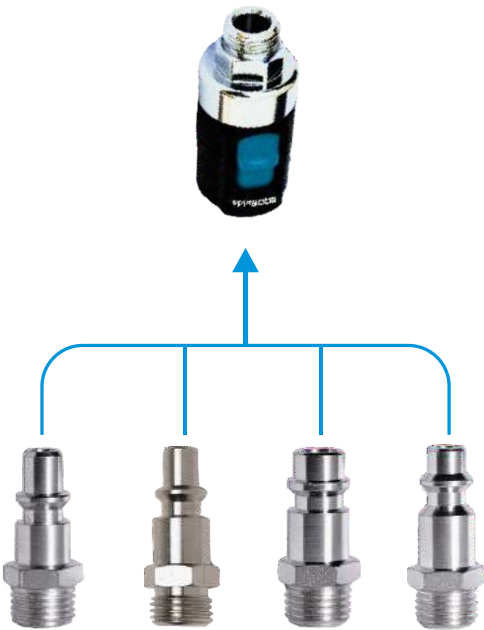
Universal Safety Quick Release Couplers

| Max Flow Rate at 6Bars | |
|------------------------|--------------|
| EU | 2.300NI/min |
| ISO B | 1.6500NI/min |
| I | 1.450NI/min |
| CH | 1.500NI/min |

Safety Quick Release Coupler F



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.751.028 | 1/4" | 16 Bars |
| 89.751.038 | 3/8" | 16 Bars |
| 89.751.048 | 1/2" | 16 Bars |



USA Fast Couplers



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.760.028 | 1/4" | 20 Bars |
| 89.760.038 | 3/8" | 20 Bars |
| 89.760.048 | 1/2" | 20 Bars |
| 89.761.028 | 1/4" | 20 Bars |
| 89.761.038 | 3/8" | 20 Bars |
| 89.761.048 | 1/2" | 20 Bars |
| 89.762.608 | 8 | 20 Bars |
| 89.762.610 | 10 | 20 Bars |

D Fast Couplers



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.770.028 | 1/4" | 20 Bars |
| 89.770.038 | 3/8" | 20 Bars |
| 89.770.048 | 1/2" | 20 Bars |
| 89.771.028 | 1/4" | 20 Bars |
| 89.771.038 | 3/8" | 20 Bars |
| 89.771.048 | 1/2" | 20 Bars |
| 89.772.608 | 8 | 20 Bars |
| 89.772.610 | 10 | 20 Bars |

CH Fast Couplers



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.780.028 | 1/4" | 20 Bars |
| 89.780.038 | 3/8" | 20 Bars |
| 89.780.048 | 1/2" | 20 Bars |
| 89.781.028 | 1/4" | 20 Bars |
| 89.781.038 | 3/8" | 20 Bars |
| 89.781.048 | 1/2" | 20 Bars |
| 89.762.608 | 8 | 20 Bars |
| 89.762.610 | 10 | 20 Bars |

I Fast Couplers



| Part Number | Ø | NP |
|-------------|------|---------|
| 89.790.028 | 1/4" | 20 Bars |
| 89.790.038 | 3/8" | 20 Bars |
| 89.790.048 | 1/2" | 20 Bars |
| 89.791.028 | 1/4" | 20 Bars |
| 89.791.038 | 3/8" | 20 Bars |
| 89.791.048 | 1/2" | 20 Bars |
| 89.792.608 | 8 | 20 Bars |
| 89.792.610 | 10 | 20 Bars |



Pegler Yorkshire



X-Press Press Fit Piping System from 15mm to 168mm sizes

Application : ♦ Hot & Cold ♦ Chilled Water ♦ Fire Protection

♦ 316L Stainless Steel Push-In Fitting

Xpress fittings from Pegler Yorkshire make jointing easier, faster and more cost effective than other jointing methods - a fittings system which simply presses together in seconds to create a perfect joint, every time.

SO MANY XPRESS BENEFITS, AND SO MUCH CHOICE :-

- ♦ Safety: no naked flames.
- ♦ System does not need to be 'dry' for effective jointing.
- ♦ No localized annealing from high-temperature working.
- ♦ Perfectly clean internal bore - less finishing or cleaning required.
- ♦ Electrical continuity assured when the XPress jointing process is complete.
- ♦ No carbon deposits, internal solder runs or flux residue - reduced risk of corrosion.
- ♦ Xpress fittings have a wide range of approvals including Kitemark, WRAS and DVGW.
- ♦ Major savings in installation time and cost compared with traditional jointing methods.
- ♦ Ideal for diverse applications such as domestic maintenance and refurbishment, new build and large-scale public sector projects.



COUPLING



FLANGE



CONNECTOR



REDUCER



ELBOW



TEE



STOP END



UNION



COMPENSATOR



TUBE

The 'hygienic' metal. Available in size 15mm to 168mm Leak Before Xpress Stainless offers all features & benefits of Xpress for applications where water quality and hygiene are crucial.

Features :-

- ♦ Temperature Rating from - 35°C to 135°C
- ♦ Wide range of British & International approvals
- ♦ Can be used for water purified by Reverse Osmosis
- ♦ Clear identification of fitting of material & dimension
- ♦ Pressure rating 16 bar across the temperature range
- ♦ Pre-marked insertion depth provides & additional time saving
- ♦ Heat free jointing - no hot works permits or insurance required

Applications :-

- ♦ Potable water
- ♦ Food processing
- ♦ Sprinkler Systems
- ♦ Chilled Water Services
- ♦ Pharmaceutical & health care environments
- ♦ Area where water quality and hygiene are crucial



Hot & Cold Potable Water



Chilled Water



Fire Protection



Pegler Yorkshire



Xpress Fittings O-Ring Compatibility Chart

Xpress fittings use the same O Ring technology to provide the best and widest range of heat free jointing. It is important to check compatibility between the O Ring and the fluid and the fluid in the system. The table below is a guide for the Contractor, installer and Specifier, and shows the compatibility of three O Ring materials with common fluid types and some gases.

EPDM - Ethylene Propylene Diene Monomer - This is the standard, BLACK O Ring that is used in Xpress COPPER ranges.

This material is also used for the Leak before Press O Rings used in Xpress CARBON and Xpress STAINLESS STEEL

HNBR - Hydrogenated Nitrile Rubber - This is the YELLOW O Ring that is only used in Xpress GAS

FPM - Fluorocarbon Rubber - This is the GREEN O Ring that is only used in Xpress Solar

| Designation | Black EPDM Tectite/XPress | Yellow HNBR Gas | Green FPM Solar |
|----------------------------|---------------------------------|-----------------------|-----------------------|
| Fluids Resistance | | | |
| Acid | | | |
| Acetic 10% | ✓✓✓ | ✓ | ✓ |
| Formic | ✓✓✓ | X | ✓ |
| Hydrochloric 20% | ✓✓✓ | ✓ | ✓✓ |
| Nitric 30% | ✓✓✓ | X | ✓✓ |
| Phosphoric 20% | ✓✓✓ | ✓ | ✓✓✓ |
| Sulphuric 30% | ✓✓ | X | ✓✓ |
| Alkalis | | | |
| Barium hydroxide | ✓✓✓ | ✓✓ | ✓✓✓ |
| Calcium hydroxide | ✓✓✓ | ✓✓ | ✓✓✓ |
| Sodium hydroxide | ✓✓✓ | ✓✓ | ✓✓ |
| Alcohols | | | |
| Butyl alcohol (Butanol) | ✓✓ | ✓✓✓ | ✓✓✓ |
| Ethyl alcohol (Ethanol) | ✓✓✓ | ✓✓ | ✓ |
| Methyl alcohol (Methanol) | ✓✓✓ | ✓✓✓ | X |
| Amines | | | |
| Ethylene diamine | ✓✓✓ | ✓✓ | X |
| Ammonia – cold gas | ✓✓✓ | ✓✓✓ | X |
| Ammonia – hot gas | ✓✓ | X | X |
| Chlorides | | | |
| Ammonium chloride | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Calcium chloride solution | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Magnesium chloride | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Zinc chloride | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Gases | | | |
| Butane | X | ✓✓✓ | ✓✓✓ |
| Carbon dioxide (dry) | ✓✓ | ✓✓✓ | ✓✓✓ |
| Chloride (wet) | ✓ | X | ✓✓✓ |
| Freon 12 | ✓✓ | ✓✓✓ | ✓✓ |
| Freon 21 | X | X | X |
| Freon 22 | ✓✓✓ | X | X |
| Freon 134a | ✓✓✓ | • | X |
| Natural gas | X | ✓✓✓ | ✓✓✓ |
| Methane | X | ✓✓✓ | ✓✓✓ |
| Propane | X | ✓✓✓ | ✓✓✓ |
| Oils and Fuels | | | |
| ASTM No 1 oil | X | ✓✓✓ | ✓✓✓ |
| ASTM No 2 oil | X | ✓✓✓ | ✓✓✓ |
| ASTM No 3 oil | X | ✓✓✓ | ✓✓✓ |
| ASTM fuel A | X | ✓✓✓ | ✓✓✓ |
| ASTM fuel B | X | ✓ | ✓✓✓ |
| ASTM fuel C | X | ✓ | ✓✓✓ |
| Diesel oil | X | ✓✓✓ | ✓✓✓ |
| Diesel oil + RME (10%) | X | X | ✓✓✓ |
| Mineral oil (low aromatic) | X | ✓✓✓ | ✓✓✓ |

These tables refer to room temperature tests. For other conditions and additional media advices please refer to Pegler Yorkshire for advice.

| Designation | Black EPDM Tectite/XPress | Yellow HNBR Gas | Green FPM Solar |
|--------------------------------|---------------------------------|-----------------------|-----------------------|
| Maximum service temperature °C | 180 | 100 | 230 |
| Low service temperature °C | - 50 | -20 | -20 |
| Water/Steam Resistance | | | |
| Water/Steam resistance <40°C | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Water/Steam resistance <80°C | ✓✓✓ | ✓✓ | ✓✓✓ |
| Water/Steam resistance <150°C | ✓✓ | X | *✓✓ |
| Water/Steam resistance >150°C | ✓ | X | *✓✓ |

| Designation | Black EPDM Tectite/XPress | Yellow HNBR Gas | Green FPM Solar |
|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Oils and Fuels cont | | | |
| Hydraulic oils (petroleum base) | X | ✓✓✓ | ✓✓✓ |
| Lubricating oils | X | ✓✓✓ | ✓✓✓ |
| Paraffin | X | ✓✓✓ | ✓✓✓ |
| Petrol | X | ✓✓✓ | ✓✓✓ |
| Silicone oil/grease | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Transformer oils | X | ✓✓✓ | ✓✓✓ |
| Vegetable oils | ✓ | ✓✓✓ | ✓✓✓ |
| Solvents | | | |
| Acetone | ✓✓✓ | X | X |
| Benzene | X | X | ✓✓✓ |
| Carbon tetrachloride | X | ✓ | ✓✓✓ |
| Dimethyl formamide | ✓✓ | ✓ | X |
| Ethyl acetate | ✓✓ | X | X |
| Methyl ethyl ketone | ✓✓✓ | X | X |
| Tetrachloroethylene | X | X | ✓✓✓ |
| Toluene | X | X | ✓✓✓ |
| Turpentine | X | ✓✓✓ | ✓✓✓ |
| Xylene | X | X | ✓✓ |
| Miscellaneous | | | |
| Ethylene glycol | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Detergents | ✓✓✓ | ✓✓✓ | ✓✓✓ |
| Dioctyl phthalate | ✓✓ | X | X |
| Formaldehyde | ✓✓✓ | ✓ | X |
| Hydrogen peroxide (90%) | ✓✓ | X | ✓✓ |
| Phosphate esters | ✓✓✓ | X | ✓ |
| Potassium nitrate | ✓✓✓ | ✓✓✓ | ✓✓✓ |

| Key to Media Table | |
|--------------------|--|
| ✓✓✓ | Excellent – Recommended |
| ✓✓ | Good – Minor to Moderate effects |
| ✓ | Fair – Moderate to severe effects |
| X | Poor – Not recommended |
| • | Insufficient data available |
| * Conditions Apply | Temperature or other limitation affecting polymer choice |



Food Grade & NSF Certified Push-In Fittings from 4mm - 32mm

John Guest offers a wide range of push-fit connectors, tube and other fluid control products for drinks dispense and pure water applications. The world's first food quality push-fit fitting, the John Guest range is now over 800 items strong and provides the quickest and most effective of installations with the quality assurance you would expect. Pushing the tube into the fitting is all that is needed to produce an instant but permanent leakproof connection. The fittings are just as easy to disconnect and re-use without the need for replacement parts. Our Beverage and Drinks Dispense products are produced in FDA compliant materials making them especially suitable for potable liquids.



Brass Fittings for Beverage Dispense



CI & CM Acetal Fittings



Superseal Fittings



LLDPE Tubing



Polypropylene Fittings



PI & PM Acetal Fittings



Polar Clean



Metric to Imperial Adaptors



Valves



Accessories



Hot & Cold Water Plumbing Application

PEX BARRIER PIPE



| Part No. | Size (MM x M) |
|----------------|---------------|
| 15BPEX-20 X 3L | 15 X 3 |
| 22BPEX-20 X 3L | 22 X 3 |
| 28BPEX-10 X 3L | 28 X 3 |

REDUCING STRAIGHT CONNECTOR



| Part No. | Size (MM) |
|------------|-----------|
| PEM201510W | 15 X 10 |
| PEM201510W | 22 X 15 |

EQUAL ELBOW



| Part No. | Size (MM) |
|----------|-----------|
| PEM0310W | 10 |
| PEM0315W | 15 |
| PEM0322W | 22 |
| PEM0328W | 28 |

EQUAL TEE



| Part No. | Size (MM) |
|----------|-----------|
| PEM0210W | 10 |
| PEM0215W | 15 |
| PEM0222W | 22 |
| PEM0228W | 28 |

FEMALE COUPLER TAP CONNECTOR



| Part No. | Size (MM x BSP) |
|----------|-----------------|
| PSE3201W | 15 x 1/2" |
| PSE3203W | 15 x 3/4" |
| PSE3202W | 22 x 3/4" |

SUPERSEAL PIPE INSERT



| Part No. | Size |
|----------|------|
| STM10 | 10 |
| STM15 | 15 |
| STM22 | 22 |
| STM28 | 28 |

PLUG



| Part No. | Size |
|----------|------|
| PI10 | 10 |
| PL15 | 15 |
| PL22 | 22 |
| PL28 | 28 |

EQUAL STRAIGHT CONNECTOR



| Part No. | Size (MM) |
|----------|-----------|
| PEM0410W | 10 |
| PEM0415W | 15 |
| PEM0422W | 22 |
| PEM0428W | 28 |

BENT TAP CONNECTOR



| Part No. | Size (MM) |
|------------|-----------|
| PEMBTC1514 | 15 x 12" |

STEM ELBOW



| Part No. | PIPE |
|------------|------|
| PEM221010W | 10 |
| PEM221515W | 15 |
| PEM222222W | 22 |

REDUCING TEE



| Part No. | Size(MM) |
|-------------|----------|
| PEM3015BW | 15x10x10 |
| PEM3015AW | 15x15x10 |
| PEM3022CW | 15x15x22 |
| PEM3022BW | 22x15x15 |
| PEM3022DW | 22x15x22 |
| PEM302210AW | 22x22x10 |
| PEM3022AW | 22x22x15 |
| PEM3028BW | 28x22x22 |
| PEM3028AW | 28x28x22 |
| PEM3028DW | 28x22x28 |

REDUCER



| Part No. | Size(MM) |
|------------|----------|
| PEM061510W | 15x10 |
| PEM062215W | 22x15 |
| PEM062815W | 28x15 |
| PEM062822W | 28x22 |

STOP END



| Part No. | Size (MM) |
|----------|-----------|
| PSE4610W | 10 |
| PSE4615W | 15 |
| PSE4622W | 22 |

PIPE CLIPS AND SPACERS




| Part No. | Size (MM) |
|----------|-----------|
| PC15W | 15 |
| PC22W | 22 |
| PC28W | 28 |





Compressed Air Fittings


Applications : Aluminum pipe and Plastic Fittings from M5 to 32mm : Compressed Air / Vacuum / Inert Gases


A push fit system of fittings and pipe which means a compressed air system can be installed quickly and easily with much reduced production down time. It is also easy to rearrange and extend a system.


| STRAIGHT ADAPTOR | PART NO. | PIPE OD | THREAD BSP |
|---|-----------|---------|------------|
|  | PM011213E | 12 | 3/8" |
| | PM011214E | 12 | 1/2" |
| | PM011514E | 15 | 1/2" |
| | PM011516E | 15 | 3/4" |
| | PM011814E | 18 | 1/2" |
| | PM012216E | 22 | 3/4" |
| | PM012818E | 28 | 1" |
| | P-UG104B | 32 | 1 1/2" |

| EQUAL ELBOW | PART NO. | PIPE OD |
|--|----------|---------|
|  | PM0312E | 12 |
| | PM0315E | 15 |
| | PM0318E | 18 |
| | PM0322E | 22 |
| | PM0328E | 28 |
| | P-UG303B | 32 |


| STRAIGHT CONNECTOR | PART NO. | PIPE OD |
|---|----------|---------|
|  | PM0412E | 12 |
| | PM0415E | 15 |
| | PM0418E | 18 |
| | PM0422E | 22 |
| | PM0428E | 28 |
| | P-UG403B | 32 |


| EQUAL TEE | PART NO. | PIPE OD |
|---|----------|---------|
|  | PM0212E | 12 |
| | PM0215E | 15 |
| | PM0218E | 18 |
| | PM0222E | 22 |
| | PM0228E | 28 |
| | P-UG203B | 32 |


| REDUCING TEE | PART NO. | PIPE OD ENDS | TUBE OD BRANCH |
|---|----------|--------------|----------------|
|  | PM3018AE | 18 | 15 |
| | PM3022AE | 22 | 15 |


| STEM ADAPTOR | PART NO. | STEM OD | THREAD BSP |
|---|-----------|---------|------------|
|  | PM051213E | 12 | 3/8" |
| | PM051214E | 12 | 1/2" |
| | PM051513E | 15 | 3/8" |
| | PM051514E | 15 | 1/2" |
| | PM051814E | 18 | 1/2" |
| | PM052214E | 22 | 1/2" |
| | PM052216E | 22 | 3/4" |

Converts push fit end to male thread


| REDUCER | PART NO. | STEM OD | PIPE OD |
|--|-----------|---------|---------|
|  | PM061512E | 15 | 12 |
| | PM061815E | 18 | 15 |
| | PM062215E | 22 | 15 |
| | PM062218E | 22 | 18 |
| | PM062815E | 28 | 15 |
| | PM062822E | 28 | 22 |


| WATER TRAP TEE | PART NO. | PIPE OD ENDS |
|--|----------|--------------|
|  | PMTT22E | 22 |

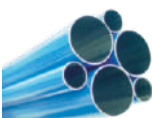
| PORTING BLOCK | PART NO. |
|--|-------------------------------|
|  | JG-L-WSK 5 x 1/2" Connections |

| ALUMINIUM WALL BOX | PART NO. | SIZE |
|--|---------------|------|
|  | JGWALLBOX 1/2 | 1/2 |
| | JGWALLBOX 3/4 | 3/4 |

1/2 or 3/4 female thread on the top. Both products have 3 x 1/2" female threads on the side.

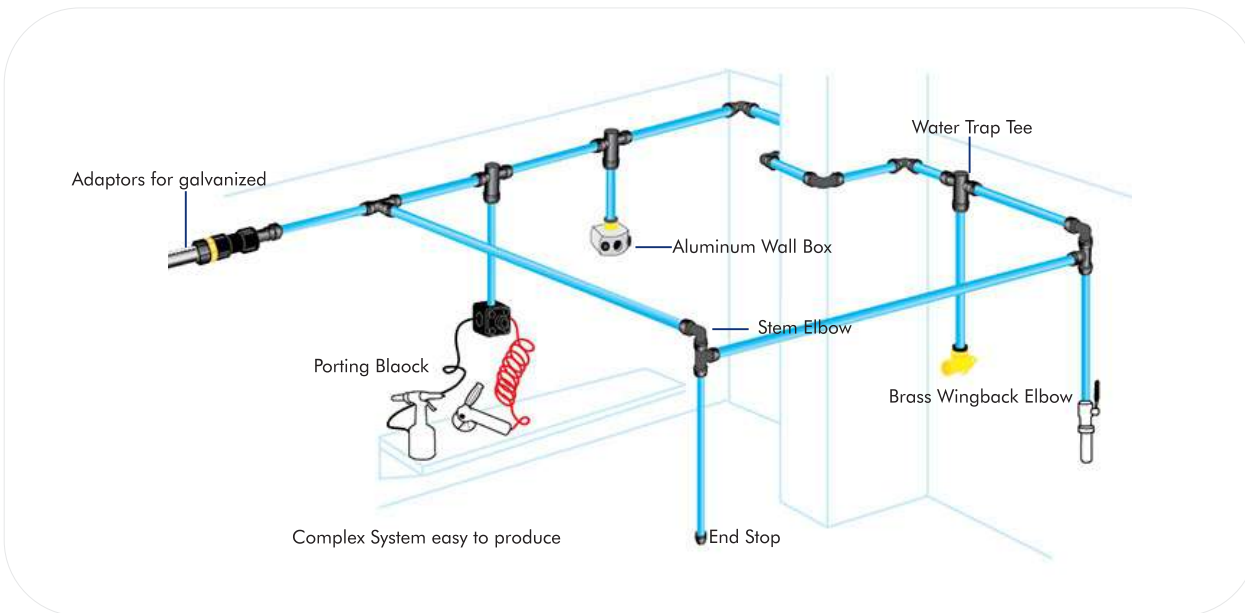
| END STOP | PART NO. | PIPE OD |
|--|----------|---------|
|  | PM4615E | 15 |
| | PM4622E | 22 |

| BRASS BALL VALVE - PNEUMSYS® | MODEL | SIZE |
|--|------------|--------|
|  | 12MISTRAL | 1/2" |
| | 34MISTRAL | 3/4" |
| | 1MISTRAL | 1" |
| | 114MISTRAL | 1 1/4" |
| | 112MISTRAL | 1 1/2" |
| | 2MISTRAL | 2" |

| ALUMINIUM PIPE - PNEUMSYS® | PART NO. | SIZE MM x M |
|--|------------------|-------------|
|  | AL-RM1513-3M-20B | 15 x 3 |
| | AL-RM1816-3M-20B | 18 x 3 |
| | AL-RM2220-3M-20B | 22 x 3 |
| | AL-RM2826-4M-10B | 28 x 4 |
| | AL-RM3229-4M-20B | 32 x 4 |



Typical Compressed Air Layout



STEM ELBOW



| PART NO. | STEM OD | TUBE OD | BAG QTY |
|-------------|------------|------------|------------|
| P-PM220404E | 4 | - | 4 |
| P-PM220505E | 5 | - | 5 |
| P-PM220606E | 6 | - | 6 |
| P-PM220808E | 8 | - | 8 |
| P-PM221010E | 10 | - | 10 |
| P-PM221212E | 12 | - | 12 |

BULKHEAD CONNECTOR



| PART NO. | TUBE OD | BAG QTY |
|-----------|------------|------------|
| P-PM1204E | 4 | 10 |
| P-PM1205E | 5 | 10 |
| P-PM1206E | 6 | 10 |
| P-PM1208E | 8 | 10 |
| P-PM1210E | 10 | 10 |
| P-PM1212E | 12 | 5 |

EQUAL ELBOW



| PART NO. | TUBE OD | BAG QTY |
|-----------|------------|------------|
| P-PM0304E | 4 | 10 |
| P-PM0305E | 5 | 10 |
| P-PM0306E | 6 | 10 |
| P-PM0308E | 8 | 10 |
| P-PM0310E | 10 | 10 |
| P-PM0312E | 12 | 10 |

REDUCER



| PART NO. | STEM OD | TUBE OD | BAG QTY |
|-------------|------------|------------|------------|
| P-PM060504E | 5 | - | 4 |
| P-PM060604E | 6 | - | 4 |
| P-PM060605E | 6 | - | 5 |
| P-PM060804E | 8 | - | 4 |
| P-PM060805E | 8 | - | 5 |
| P-PM060806E | 8 | - | 6 |
| P-PM061006E | 10 | - | 6 |
| P-PM061008E | 10 | - | 8 |
| P-PM061208E | 12 | - | 8 |
| P-PM061210E | 12 | - | 10 |

REDUCING ELBOW CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BAG QTY |
|-------------|------------|------------|------------|
| P-PM210604E | 6 | - | 4 |
| P-PM210804E | 8 | - | 4 |
| P-PM210806E | 8 | - | 6 |
| P-PM211004E | 10 | - | 4 |
| P-PM211006E | 10 | - | 6 |
| P-PM211008E | 10 | - | 8 |
| P-PM211208E | 12 | - | 8 |
| P-PM211210E | 12 | - | 10 |

LLDPE TUBE



| SIZE | OD MM | ID MM | RS./ METRE |
|-------------|----------|----------|---------------|
| P-4 / 2.5 | 4.00 | 2.50 | 19 |
| P-6 / 4 | 6.00 | 4.00 | 20 |
| P-8 / 6 | 8.00 | 6.00 | 30 |
| P-10 / 7 | 10.00 | 7.00 | 45 |
| P-12 / 9 | 12.00 | 9.00 | 50 |
| P-15 / 11.5 | 15.00 | 11.50 | 75 |



Drainage Management Systems

ZERO AIR LOSS BALL VALVE TYPE (Operated by Electric Motor) :-

Integrated with latest technologies, the exclusive range of Zero Air Loss Ball Valve Type gives superb control as the operations are all automated with significant economic benefits. Our ball valve type come with wider diameter and is free from any blocking occurrence. Our product is also safer than other ball valve type as we provide them with restoration ability when converted to emergency mode by the user. In addition, the switching time of electric actuate ball valve is short therefore operate ball valve is opened perfectly at operation.

Features :-

- ◆ Operates under atmospheric pressure state with ease
- ◆ Excellent scale discharge
- ◆ Good durability
- ◆ Corrosion resistant
- ◆ Automatic discharge function
- ◆ Great design
- ◆ Comes with digital counting indicator
- ◆ Easy installation and maintenance

Applications :-

- ◆ Chemical plants
- ◆ Oil refineries
- ◆ Petro chemical plants



ZERO AIR LOSS SOLENOID VALVE TYPE :-

Technologically developed Zero Air Loss Solenoid Valve Type is primarily used for controlling the rate of flow in both fluid and air powered tools, motors and systems. Here, condensate collects in the container housing and valve remains closed and leak proof. As the container is filled to the upper or high level sensor point on the solenoid valve lifts the plunger because of magnetic flux, which is generated by the activated coil.

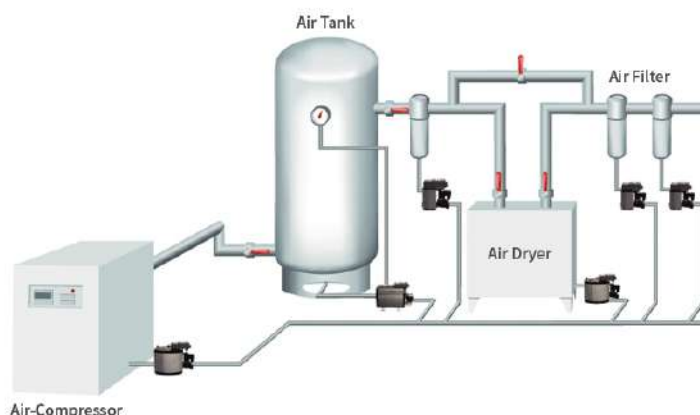


Features :-

- ◆ Low operational noise
- ◆ Leakage proof
- ◆ Fully automated operations
- ◆ Varies range of models available
- ◆ Maintenance free
- ◆ In case of blockage, activates self cleaning mode

Applications :-

- ◆ Washing machines
- ◆ Gas boilers
- ◆ Hydraulic pumps



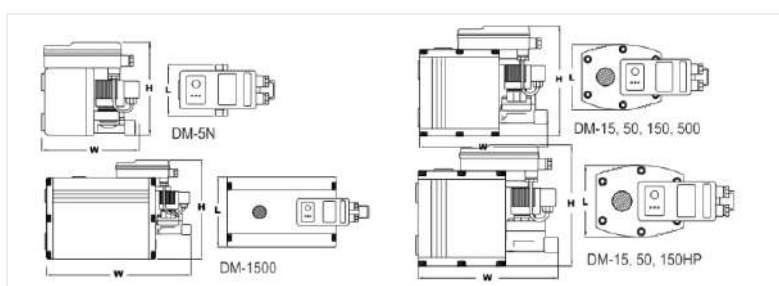


Zero Air Loss Auto Drain Valve For Compressed Air

We offer Drainage Management System that is a complete solution to drainage concerns of many industries, such as chemical and oil refinery factories. It is the management system where conventional drainage system is intercepted by a water control structure, which effectively function as an in-line dam, allowing the drainage outlet to be artificially set at levels ranging from the soil surface to the bottom of the drains. We offer two major systems where in first, water level is controlled with structures by adding or removing logs or using float mechanism to control the opening and closing of a flow valve.

Advantages :-

- ◆ It is Motorized Ball Valve Operated with Zero Choke Function.
- ◆ Zero Air Loss (Regulated by Level Sensors.)
- ◆ Automated Operation.
- ◆ Prevent Energy Loss by discharging Condensate Selectively.
- ◆ Variety of Models according to capacity of Compressor.
- ◆ Self Cleaning Mode.
- ◆ Has Emergency Alarm Mode when Drain Valve not working.



| Drain Master S/HP | Climate Zone | Peak Compressor Performance m/min | Peak Dryer Performance m/min | Peak Filter Performance m/min | Operating Pressure min/max (bar) | Temperature min/max (°C) | Application (*) |
|----------------------|--------------|---|------------------------------------|-------------------------------------|---|-----------------------------|--------------------|
| DM-5N | Green | 8 | 16 | 80 | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 7 | 14 | 70 | | | |
| | Red | 5 | 10 | 50 | | | |
| DM-15 | Green | 24 | 48 | 240 | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 21 | 42 | 210 | | | |
| | Red | 15 | 30 | 150 | | | |
| DM-50 | Green | 80 | 160 | 800 | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 70 | 140 | 700 | | | |
| | Red | 50 | 100 | 500 | | | |
| DM-150 | Green | 170 | 340 | 1700 | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 150 | 300 | 1500 | | | |
| | Red | 105 | 210 | 1050 | | | |
| DM-500 | Green | 570 | 1140 | 5700 | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 500 | 1000 | 5000 | | | |
| | Red | 350 | 700 | 3500 | | | |
| DM-1500 | Green | 1750 | 3500 | | 0.8/16 | + 1 / 80 | A . B |
| | Blue | 1500 | 3000 | | | | |
| | Red | 1020 | 2100 | | | | |
| DM-15HP | Green | 24 | 48 | 240 | 1.2/60 | + 1 / 80 | A . B |
| | Blue | 21 | 42 | 210 | | | |
| | Red | 15 | 30 | 150 | | | |
| DM-50HP | Green | 80 | 160 | 800 | 1.2/60 | + 1 / 80 | A . B |
| | Blue | 70 | 140 | 700 | | | |
| | Red | 50 | 100 | 500 | | | |
| DM-150HP | Green | 170 | 340 | 1700 | 1.2/60 | + 1 / 80 | A . B |
| | Blue | 150 | 300 | 1500 | | | |
| | Red | 105 | 210 | 1050 | | | |



Energy Measurement Solutions

Applications :- ♦ Compressed Air ♦ Nitrogen ♦ Inert Gas

Smart, simple and complete.

The VPFlowScope® in-line provides not just one, but all required parameters: flow pressure and temperature are measured at the same time, at the same point. It also features an optional built-in 2 Million point data logger. This means: no more hassle with external loggers, just plug in, press record and go!



If you can measure it, you can improve it

Measure :-

Use mass flow meters for:

- ♦ Supply side air: pre-treated wet oily dirty air
- ♦ Demand side air: clean dry air
- ♦ Piping systems from 0.5" up to 20": measuring and recording mass flow, temperature and pressure in a single measuring instrument
- ♦ Air audits, system checks



Monitor :-

Leave measuring equipment in place to:

- ♦ Continually know what is happening in your system
- ♦ Probatively control leaks
- ♦ Plan your maintenance based on real-time actions
- ♦ Monitor dew point, power consumption and pressure loss to prevent downtime



Manage :-

With VPVision you can:

- ♦ Track and manage your leakage
- ♦ Allocate compressed air costs to individual departments
- ♦ Deliver cost evaluation and savings reports
- ♦ Benchmark different plants around the world on efficiency and costs
- ♦ Produce necessary documentation for utility incentives





Energy Measurement Solutions

Applications :- ♦ Compressed Air ♦ Nitrogen ♦ Inert Gas



VPFlowScope Probe Start Kit

The VPFlowScope® start kit is the Swiss Army Knife for compressed air audits. With the start kit, you are prepared for the most demanding air audits.

Features and benefits

- ♦ Thermabridge™ technology
- ♦ High dynamic range
- ♦ Three sensors in one instrument
- ♦ Standard Modbus and 4 ... 20 mA

VPFlowScope M

The VPFlowScope M is a three in one insertion flow meter for compressed air and technical gases. It can be installed under pressure and measures flow, pressure and temperature simultaneously.

Features and benefits

- ♦ Ethernet (Modbus/ TCP)
- ♦ Rs485 (Modbus RTU)
- ♦ 4 ... 20 mA linearized, alarm or pulse output
- ♦ Optional TFT color display



VPFlowScope dP

The patented VPFlowScope® DP is the ultimate measurement tool for wet compressed air flow measurements.

Features and benefits

- ♦ For wet compressed air
- ♦ Three sensors in one instrument
- ♦ Standard Modbus and 4 ... 20 mA
- ♦ Bi-directional

VPFlowScope® in-line

The VPFlowScope® in-line is the ideal flow meter for point of use consumption measurement. It measures mass flow, temperature and pressure simultaneously and in both directions.

Features and benefits

- ♦ Thermabridge™ technology
- ♦ High dynamic range
- ♦ Three sensors in one instrument
- ♦ Quick return on investment





Ultra Sonic Leak Detector

Applications - ♦ Compressed Air ♦ Nitrogen ♦ Inert Gases

The PSX-GN is a state of the art ultrasonic leak detector with dual converters. It has a sealed body not affected by dust, sand, oil, water or other contaminants (*).

The principle of operation of the PSX-GN is based on the detection of ultrasonic sound generated by Friction, Arcing and Turbulence in Flow found in every mechanical and electrical system and its translation into audio that can be heard in the headset.

Instruments such as the PSX-GN become extensions of your senses. The PSX-GN allows you to locate from far the location of an air leak that is invisible and inaudible in a plant, or the crackling frying sound from arcing in a relay contact or switch simply from a gap in an electrical panel.

Applications :-

- ♦ Compressed Air & Gas Systems
- ♦ Vacuum Systems
- ♦ Heat Exchangers
- ♦ High Pressure Hydraulics

Feature :-

- ♦ Double Ultrasound Converter, HET. (Heterodyne) & AFT (Automatic Frequency Tuning).
- ♦ Air and Water Resistant, IP64 (Main Body only) Internal Electronics protected from contaminants.
- ♦ Hard Anodized Aluminum Housing with Sealed Connectors
- ♦ Behind the head Headset/Hearing Protector (USA-Mil Spec.)
- ♦ Rechargeable high capacity battery, NiMH
- ♦ Special Signal Output for Spectrum/Vibration Analyzers or Waveform Recorders.

Benefits :-

- ♦ Frees the user from instrument adjustments to concentrate in locating the leak.
- ♦ Durable, Suitable to Hard Industrial use. Many Hours of leak detection.
- ♦ Tracking of sound signatures and in depth analysis to diagnose and predict bearing problems.
- ♦ Can be worn with a hard hat providing hearing protection.





Compressed Air Leakage Management Solutions

Applications - ♦ Compressed Air ♦ Nitrogen ♦ Inert Gases

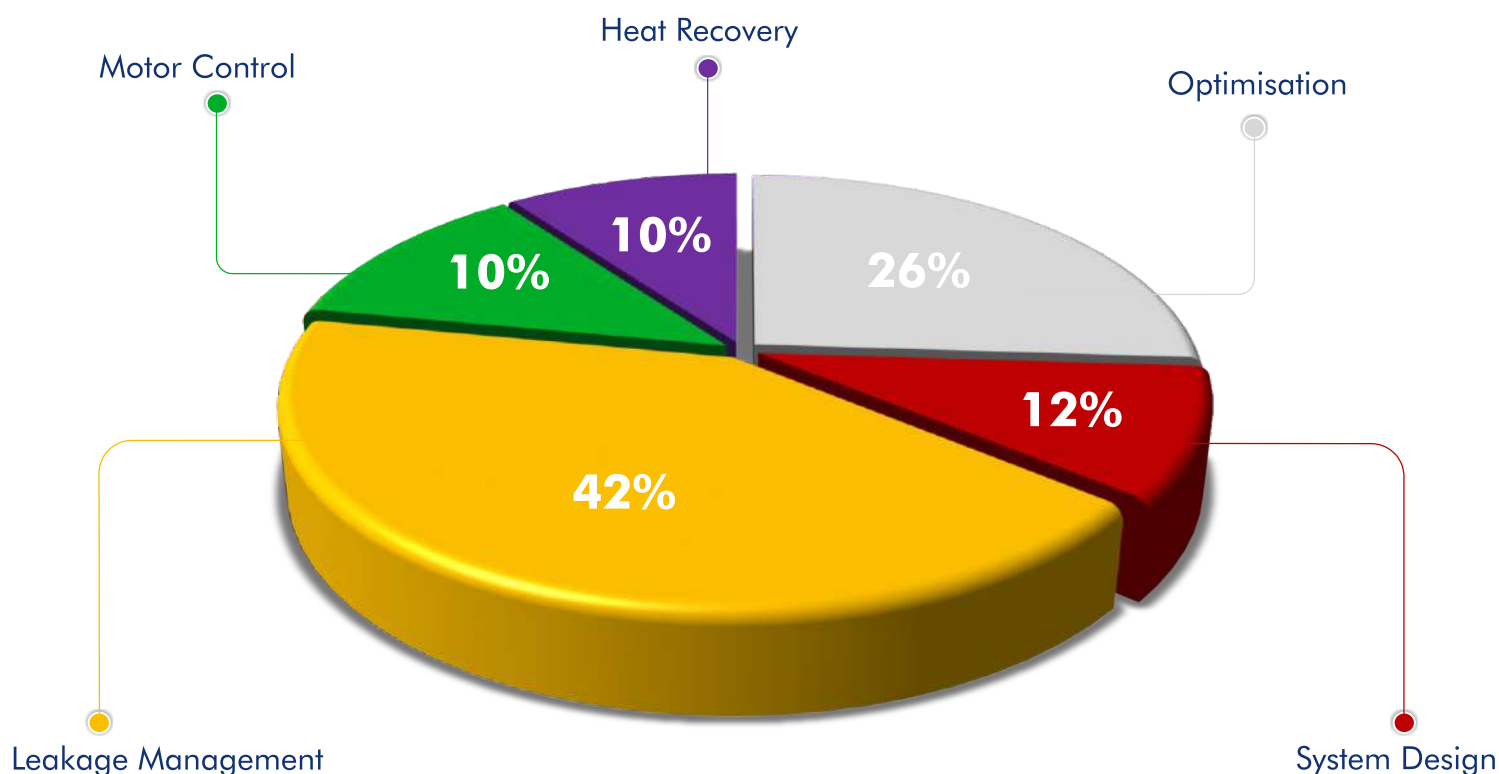


We are Proud to offer you the world's no. 1 most comprehensive and widely used Leakage Management program from LMS Nordic.

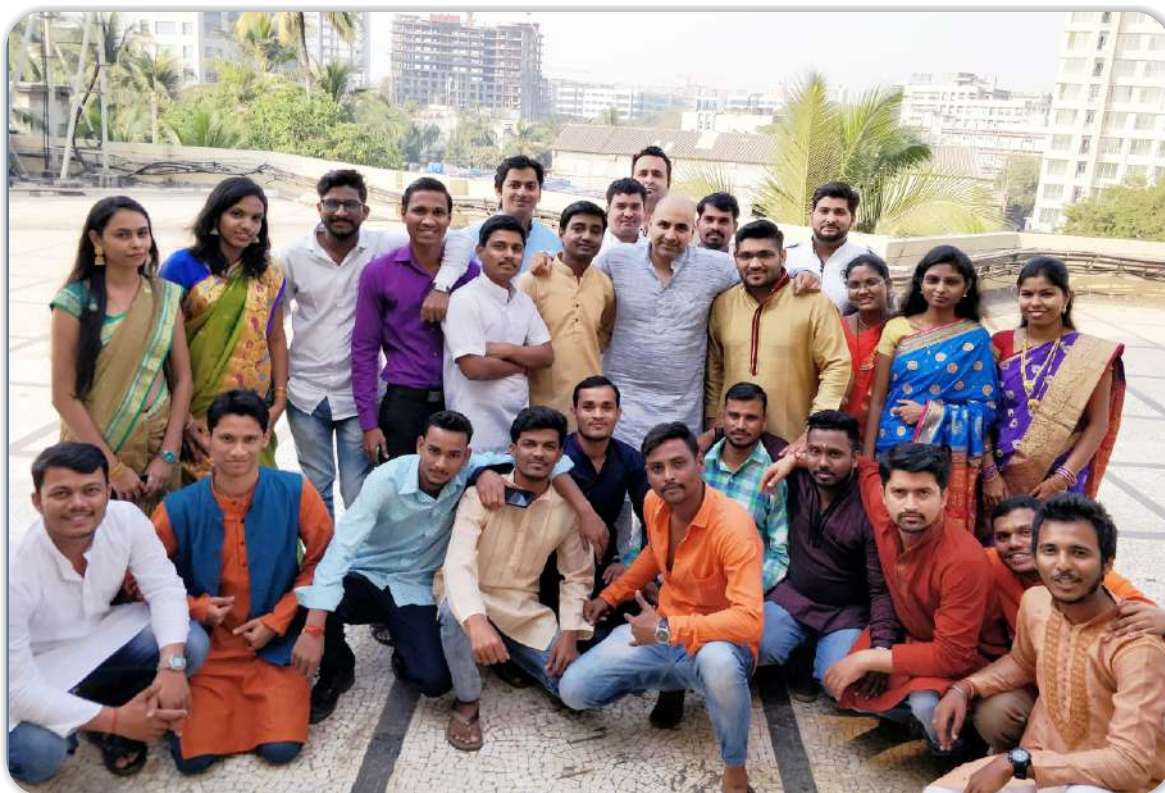
We are offering this program with full service and support to back up and resolve your Leakage issues being faced by you for Compressed Air Systems in your plant.

Optimization of Compressed Air Applications is the most Energy Saving measure you can do in a Compressed Air System.

Energy saving potential through Leakage Management System :-



Projects Engineers Team Mumbai



Mumbai Training Center



Projects Engineers And Service Team Bangalore



Thane Works





Authorised Dealer

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