Inside Air Applications

dixonvalve.com • Customer Service: 877.963.4966
Safety

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturer’s (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Call 877.963.4966 or click dixonvalve.com to learn more.

The Importance of Whip Hose

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. To construct a whip hose, connect one end of a short (3’ to 10’) air hose to the air tool using a 3500 type steel nipple. Connect the other end of the hose to the air supply using the standard quick-acting coupling. The heat-treated 3500 nipple will withstand vibration far better than the standard coupling and provide a safer connection. The whip hose should remain permanently connected to the tool.
### Actual Size

#### Profile Chart

*For easy identification of the four major styles of air quick disconnect plugs*

**Use:**
- This chart may be used to identify the style of air chief fittings.

**Notes:**
- ½” industrial series may also interchange with ½” automotive series
Air Chief

Industrial Interchange Couplings

Air Chief industrial quick-connect plugs and couplers are able to interchange with many other styles

Service:
- rated to 300 PSI
- temperature range: -40° to 250°F

Features:
- For air service only.
- couplers shut-off when disconnected

Materials:
- steel
- brass
- 303 stainless steel

Connecting:
- semi-automatic couplers
  A sleeve guard design reduces the risk of unintentional disconnection.
- automatic couplers
  Allows one hand operation.

Disconnecting:
- pull

Interchange:
- interchangeable with MIL-C-4109F/A-A-59439

Configurations:
- female pipe thread
- male pipe thread
- standard hose barb
- push-on hose barb
Features:
- 1/4" body size ensures an excellent flow and total security due to disconnection in two steps
- Automatic connection: simply push the plug into the coupler until it clicks; no rotation of the coupler is necessary to make the connection.
- Perfectly suited for numerous installations including:
  - pneumatic tools
  - blow guns
  - pneumatic automotive equipment
- composite, non-marring body
- compatible with industrial interchange plugs
- male NPT and female NPT
- rated to 230 PSI
- temperature range: -4°F to 140°F

Applications:
- Angled swivel plugs are lightweight and streamlined. They can be used in the automotive and electronics industries, workstations, commercial and residential construction, and robotic joints. Helps alleviate carpal tunnel syndrome and back stress resulting in fewer lost time injuries.

Service:
- rated to 145 PSI
- temperature range: 20°F to 140°F

Materials:
- body is nickel-plated steel
- dust cover is polyurethane

Legris Industrial Interchange Automatic Safety Couplers

Applications:
- This innovative safety coupler has an unique two-turn release that quickly vents downstream air pressure before disconnecting, preventing serious injuries associated with hose whip. It is made with a tough composite material which will stand up to the most abusive applications, yet is lightweight.

Features:
- 1/4" body size ensures an excellent flow and total security due to disconnection in two steps
- Automatic connection: simply push the plug into the coupler until it clicks; no rotation of the coupler is necessary to make the connection.
- Perfectly suited for numerous installations including:
  - pneumatic tools
  - blow guns
  - pneumatic automotive equipment
- composite, non-marring body
- compatible with industrial interchange plugs
- male NPT and female NPT
- rated to 230 PSI
- temperature range: -4°F to 140°F

1. vents plug 2. disconnects
Air Chief

Automotive Interchange Couplings

Air Chief automotive quick-connect plugs and couplers are completely compatible with the "Truflate" coupling system.

Service:
- rated to 300 PSI
- temperature range: -40° to 250°F

Features:
- couplers shut-off when disconnected

Materials:
- steel
- brass

Connecting:
- semi-automatic couplers
  A sleeve guard design reduces the risk of unintentional disconnection.

Disconnecting:
- pull

Interchange:
- interchangeable with Amflo, Dill, Milton and Truflate
- There are some models which do not interchange.
  If you plan to interchange these couplings, make sure you have plug ends with the proper configuration.

Configurations:
- female pipe thread
- male pipe thread
- standard hose barb
- push-on hose barb
Air Chief ARO Speed quick-connect plugs and couplers are completely compatible with the ARO 210/310 series coupling system.

Service:
• rated to 300 PSI
• temperature range: -40° to 250°F

Features:
• couplers shut-off when disconnected

Materials:
• steel
• brass

Connecting:
• semi-automatic couplers
  A sleeve guard design reduces the risk of unintentional disconnection.

Disconnecting:
• pull

Interchange:
• interchangeable with ARO210 and 310 designs

Configurations:
• female pipe thread
• male pipe thread
• standard hose barb
• push-on hose barb
Air Chief Lincoln Series Couplings

Air Chief Lincoln series quick-connect plugs and couplers are completely compatible with the Lincoln "Flex-O-Matic" (also known as the "Long Nose") coupling system.

Service:
- rated to 300 PSI
- temperature range: -40°F to 250°F

Features:
- couplers shut-off when disconnected

Materials:
- steel
- brass

Connecting:
- semi-automatic couplers
  *A sleeve guard design reduces the risk of unintentional disconnection.*

Disconnecting:
- pull

Interchange:
- interchangeable with Lincoln's long stem series

Configurations:
- female pipe thread
- male pipe thread
Air Chief Universal Couplings

Air Chief Universal quick-connect fittings are designed for use in compressed air service.

Service:
- rated to 300 PSI
- temperature range: -40° to 250°F

Features:
- shut-off when disconnected
- euro-style valving ensures maximum flow performance

Material:
- brass

Connecting:
- automatic couplers
  A sleeve guard design reduces the risk of unintentional disconnection.

Disconnecting:
- pull

Interchange:
- interchangeable with MIL-C-4109F, ARO210, Truflate, Lincoln, Italian standard and CEJN 320

Configurations:
- female pipe thread
- male pipe thread
- standard hose barb
## Dixon Blow Guns

*Blow guns offer the user a safe method of directing pressurized air for a specific need.*

Safety blow guns have a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended". They comply with the requirements for OSHA 1910.242 (B) and 1910.95 when used on air lines of 150 PSI or less.

### Features:
- design comfortably fits contour of the hand minimizing user fatigue
- ergonomic large lever with black vinyl grip allows for easy air flow activation
- ¼" female NPT inlet

### Air Chief Safety

The air chief safety blow gun is designed to conform to OSHA Standard 1910.242 (B) permitting a maximum of 30 PSI outlet pressure when dead ended based on a maximum of 150 PSI inlet pressure as well as OSHA Standard 1910.95 regulating occupational noise level exposure. *Safety glasses or shield must be worn when using any blow gun.*

**Features:**
- recessed internal slotted screw allows easy access to valve assembly for repairs or replacement
- chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip combine for superior corrosion resistance

<table>
<thead>
<tr>
<th>Part #</th>
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<td><strong>D204-30</strong></td>
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</table>

### Premium Safety

The premium safety blow gun is designed to conform to OSHA Standard 1910.242 (B) permitting a maximum of 30 PSI outlet pressure when dead ended based on a maximum of 150 PSI inlet pressure as well as OSHA Standard 1910.95 regulating occupational noise level exposure. *Safety glasses or shield must be worn when using any blow gun.*

**Feature:**
- zinc die cast body with a black powder coat finish, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip

<table>
<thead>
<tr>
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<tr>
<td><strong>D204-30P</strong></td>
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</table>

### Safety Air Booster

The multiple holes in the safety booster tip of the safety air booster gun create a venturi effect that increases air flow (working capacity) while still remaining compliant with OSHA Standard 1910.242 (B). *Safety glasses or shield must be worn when using any blow gun.*

**Feature:**
- chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip provide superior corrosion resistance

<table>
<thead>
<tr>
<th>Part #</th>
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<tbody>
<tr>
<td><strong>D204-30SB</strong></td>
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</table>
Non-Safety Brass Tipped

Non-Safety blow guns do not have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. They may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to 30 PSI or less. The ventless, nickel-plated tip provides the most economical means of achieving a concentrated stream of air for many blow-off applications. All other components and design features are the same as our Air Chief safety blow gun (D204-30). Must be used on air lines having a maximum regulated pressure of 30 PSI in order to comply with OSHA Standard 1910.242 (B). Safety glasses or shield must be worn when using any blow gun.

Features:
• lightweight and ergonomic
• pistol grip / hanging hook handle
• made from high quality aluminum casting
• requires high volume coupler and plug for optimum performance
• maximum pressure rating: 150 PSI
• available with conical tip (HTBG-CT)
• available with safety tip (HTBG)

Part #
D605

Non-Safety Rubber Tipped

Non-Safety blow guns do not have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. They may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to 30 PSI or less. The rubber tip will not scratch or mar delicate surfaces. The conical, rubber tip can also be used to create a seal between the blow gun and fluid lines (or any other opening). Base of the tip is nickel-plated brass for additional corrosion resistance. Must be used on air lines having a maximum regulated pressure of 30 PSI in order to comply with OSHA Standard 1910.242 (B). Safety glasses or shield must be worn when using any blow gun.

Features:
• chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and ventless, nickel plated brass tip provide superior corrosion resistance

Part #
D201

Pistol Grip Safety

Features:
• conforms to US Department of Labor, OSHA Standard 1910.242 (B) allowing a maximum of 30 PSI outlet pressure at the nozzle when dead-ended
• conforms to US Department of Labor, OSHA Standard 1910.95 regulating noise level exposure
• conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8, Safety and Health Standards
• contoured pistol-grip for safe, comfortable handling, even with greasy hands
• convenient hang-up hook
• ¼" female NPT inlet
• Safety glasses or shield must be worn when using any blow gun.

Part #
PG700

Extended Nozzle Pistol Grip Safety

Features:
• conforms to US Dept. of Labor, OSHA Standard 1910.242 (B) allowing a maximum of 30 PSI outlet pressure at the nozzle when dead-ended
• conforms to US Dept. of Labor, OSHA Standard 1910.95 regulating noise level exposure
• conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8 Safety and Health Standards
• slender 4” extended nozzle allows access to hard to reach places and holes as small as .200”
• variable output trigger enables user to control air flow
• hook design near trigger provides finger protection as well as easy storage
• lightweight to help minimize user fatigue.
• side holes allow air to escape if nozzle tip is dead-ended, thus preventing back pressure buildup
• pressure rating: 150 PSI
• ¼” female NPT inlet
• safety glasses or shield must be worn when using any blow gun

Part #
ENBG1

Heavy Duty - High Volume

Features:
• lightweight and ergonomic
• pistol grip / hanging hook handle
• made from high quality aluminum casting
• requires high volume coupler and plug for optimum performance
• maximum pressure rating: 150PSI
• available with conical tip (HTBG-CT)
• available with safety tip (HTBG)
Hose reels are an economical solution for safely storing hose assemblies.

**Material:**
- all steel construction

**Application uses:**
- air and water hose storage

### 5000 Series

**Features:**
- reel inlet ¾" NPTF
- all steel construction
- full shaft and swivel
- furnished standard with PVC hose
- maximum temperature is 150°F
- Compressed air hose should not be converted to oxygen service; they are often contaminated with an oil coating, which can react explosively when oxygen is introduced.
- part# (5•••LP)

### 7000 Series

**Features:**
- all steel construction
- LP Low Pressure reels:
  - maximum temperature 150°F
  - reel inlet ½" NPTF
  - PVC hose is standard
  - part# (7800LP)
- MP Medium Pressure reels:
  - maximum temperature 210°F
  - reel inlet ½" NPTF
  - SAE 100 R1T 1-wire braid hose available
  - part# (7800MP)
- HP High Pressure reels:
  - maximum temperature 210°F
  - reel inlet ¼" NPTF
  - SAE 100 R2T 2-wire braid hose available
  - part# (7600HP)

### 80000 Series

**Features:**
- reel inlet ¾" NPTF
- five-in-one heat treated aluminum casting incorporates main shaft, ratchet, spring arbor and inlet/outlet plumbing in one-piece casting
- furnished standard with PVC hose
- maximum temperature is 150°F with hose
- maximum temperature is 210°F without hose
- part# (8•••LP)

### 30000 Series

**Features:**
- reel frame, spool and drum are fabricated from heavy gauge steel
- all bolted construction - no welds
- manual driven standard
- motor drive available
- ½" inlet
- part# (C3-112•)
**FRL's**

**Filters, Regulators, Lubricators**

*Featuring Wilkerson, Series 1, and Watts*

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### Filters

**Features:**
- automatic or manual drain
- metal bowl or transparent with guard
- 5-40 micron elements available
- oil removal (coalescing) filters available

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### Regulators

**Features:**
- with or without gauge
- standard design or T-handle
- special designs - high pressure, water, high flow

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### Filters / Regulators

**Features:**
- in-line or modular installation
- piggy-back design for installation in tight area
- common inlet/outlet for both filter and regulator
- saves on piping costs

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### Lubricators

**Features:**
- transparent or metal bowl
- 1 oz. reservoir (minis) up to 2 gal. reservoir

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### Combination Units

**Features:**
- in-line or modular installation
- wall mounting brackets included
- NPT pipe adapters included
Dixon
Gauges
Featuring Ashcroft and Wika

Standard Dry Gauges

Features:
- ASME B40.1, Grade B (± 3-2-3% accuracy)
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- ABS plastic case
- C-shaped bronze safety bourdon tube (600 PSI and lower)
- Helical wound bronze safety bourdon tube (1000 PSI and higher)
- Polycarbonate crystal
- Black aluminum pointer
- Temperature range: -40°F to 150°F
- Available in center back mount:
  - 1½" face (GC6••)
  - 2" face (GC2••)
- Available in lower mount:
  - 2" face (GL1••)
  - 2½" face (GL3••)
  - 3½" face (GS••-4, GS•••-4)

FlutterGuard™ Dry Gauges

Features:
- FlutterGuard™ virtually eliminates pointer flutter, making the gauge easier to read and reducing excessive movement wear. Liquid-free casing results in lighter weight and eliminates the chance of gauge leakage.
- ASME B40.1, Grade B (± 3-2-3% accuracy)
- ABS plastic case
- C-shaped bronze safety bourdon tube (600 PSI gauges and lower)
- Helical wound bronze safety bourdon tube (1000 PSI gauges and higher)
- Polycarbonate crystal
- Black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- Ambient temperature range of -40°F to 150°F
- Available in lower mount 2½" face (GL3••FG)

All Stainless Steel Dry Gauges

Applications:
- Stainless steel gauges provide the corrosion resistance and durability of a permanently sealed gauge. Designed for severe service applications.

Features:
- 2½” face
  - 2-1-2% accuracy
  - 304 stainless steel case with stainless crimp ring
  - Polycarbonate window
  - ¼" lower mount stainless connector
  - 316 stainless bourdon tube and socket
  - Temperature range: -40°F to 140°F
- 3½” face
  - 3-2-3% accuracy
  - 316 series stainless solid back case
  - Polycarbonate window
  - ¼" lower mount stainless connector
  - 316 stainless bourdon tube and socket, polyester segment
  - Temperature range: -40°F to 140°F
- Available in lower mount:
  - 2½” face (GSS••, GSS•••, GSS••••)
  - 3½” face (GSS••-4, GSS•••-4, GSS••••-4)
All Stainless Steel Liquid Filled Gauges

Applications:
- Stainless steel gauges provides the corrosion resistance and durability of a permanently sealed gauge. Designed for severe service applications.

Features:
- 2-1-2% accuracy
- 2½” 304 series stainless case with stainless crimp ring
- polycarbonate window
- ¼” lower mount stainless connector
- 304 stainless case with stainless crimp ring
- glycerin filled
- temperature range: -4°F to 140°F
- available in a 2½” face:
  - center back mount (GLSSC•••)
  - lower mount (GLSS••, GLSS•••)

Brass Liquid Filled Gauges

Features:
- 2-1-2% accuracy on 2½”; 1% accuracy on 4”
- acrylic window with membrane assembly
- copper alloy bourdon tube
- brass movement with highly polished bearing surfaces
- glycerin filled
- 2½” face gauges: solid cast brass case with polished brass slip-fit ring
- 4” face gauges: cast brass, silver painted case with chrome plated brass ring
- temperature range: -4°F to 140°F
- available in center back mount:
  - 2½” face (GLBRC••, GLBRC•••)
- available in lower mount:
  - 2½” face (GLBR••, GLBR•••)
  - 4” face (GLBR••-4, GLBR•••-4, GLBR••••-4)
Dixon

Ferrules & Equipment

Ferrules, and the easy to use application equipment, provide an economical solution for safely coupling "small bore" hose assemblies.

Ferrules

- **Features:**
  - for air or fluid service
  - for use with medium or lightweight hose
  - available in brass:
    - BF•••, BFM•••, BFM•••B, BFL•••, BFWM•••
  - available in stainless steel:
    - SFL•••, SFM•••, SFW•••

Crimping Equipment

- **Features:**
  - Hose crimpers provide "big tool" crimping advantages at a fraction of the cost.
  - rugged, portable and easy to use
  - part# (855, 855A)
  - larger model available: (860)
  - replacement dies available

- **Features:**
  - crimps all brass ferrules shown on previous page
  - does not include dies
  - Dies for ferrule machines are available in standard sets for all ferrules as tabulated (4 segments to a set), supplied with plain or ribbed crimping surface.
  - height: 27" with handle upright
  - base: 8" x 3"
  - body: 7¾"
  - weight: 25 lbs.
  - part# (5111A)

- **Features:**
  - provides efficient mass production assembly of hose, ferrules, and fittings
  - The foot pedal permits the use of both hands, reduces fatigue and speeds production.
  - complete with air cylinder, ferrule machine (less dies), fitted hose lengths and necessary control valves
  - ready for work bench installation
  - weight: 91 lbs.
  - part# (1765A)
**Dixon**

**Tubing & Cutters**

Dixon offers economically priced air/water tubing, and the tools to cut it properly.

<table>
<thead>
<tr>
<th>Applications:</th>
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<tbody>
<tr>
<td>• Clear PVC Tubing is designed to be used with standard shank fittings in low pressure liquid and pneumatic applications.</td>
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<tr>
<td>• Clear PVC Braided Tubing is designed to be used in low pressure liquid and pneumatic applications.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Features:</th>
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<tbody>
<tr>
<td>• domestic clear PVC for non-critical hospital use such as suction and draining, produced from FDA materials, but not FDA approved</td>
</tr>
<tr>
<td>• domestic clear PVC braided is high grade tensile strength polyester yarn reinforcement</td>
</tr>
<tr>
<td>• imported clear PVC braided for various machine tools and the transportation of chemicals</td>
</tr>
<tr>
<td>• non-braided PVC tubing (<strong>CL</strong>, <strong>ICL</strong>)</td>
</tr>
<tr>
<td>• braided PVC tubing (<strong>BR</strong>, <strong>IBR</strong>)</td>
</tr>
<tr>
<td>• Polyurethane (****)</td>
</tr>
<tr>
<td>• Polyethylene (****)</td>
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<tr>
<td>• Nylon 11 (***)</td>
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<table>
<thead>
<tr>
<th>Tubing</th>
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<tbody>
<tr>
<td>PVC</td>
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<table>
<thead>
<tr>
<th>Cutters</th>
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<tbody>
<tr>
<td>TC97</td>
</tr>
<tr>
<td>HC90</td>
</tr>
<tr>
<td>LHC95</td>
</tr>
</tbody>
</table>

- **Features:**
  - used for PVC tubing and hose
  - replacements blades available
  - different styles and sizes available
  - up to ¾” (**TC97**)
  - up to 1” (**HC90**)
  - up to 2”; P.E. up to 1½”; PVC up to 1¼” (**LHC95**)

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<table>
<thead>
<tr>
<th>Features:</th>
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<tbody>
<tr>
<td>• used for copper tubing</td>
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<tr>
<td>• different styles and sizes available</td>
</tr>
<tr>
<td>• hi-duty (<strong>TC-1000</strong>) for 1/8” to 1-1/8” OD</td>
</tr>
<tr>
<td>• ratcheting (<strong>TC-1050RH</strong>) for 1/8” to 5/8” OD</td>
</tr>
<tr>
<td>• general (<strong>174-F</strong>) for 3/8” to 1-1/8” OD</td>
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<td>TC-1000</td>
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<tr>
<td>174-F</td>
</tr>
<tr>
<td>TC-1050RH</td>
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</tbody>
</table>
**Compression Fittings**

**Advantages:**
- No flaring, soldering or other preparation of tubing necessary to assemble.

**Specifications:**
- Listed with Underwriter’s Laboratories for flammable liquid. *Compression fittings meet functional requirements of SAE J-512 and ASA.*

**Materials:**
- brass (fittings), Delrin® (sleeves)

**Applications:**
- Use with copper, aluminum and Parflex thermoplastic tubing.
- Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved.
- *Not recommended for steel tubing.*
- *Not recommended for application using gaseous media.*

**Configurations:**
- sleeves
- nuts
- unions
- tees
- elbows
- connectors
- straight through
- plugs

**Push-In Fittings**

**Service:**
- working temperature and pressure varies between applications and type of fitting

**Materials:**
- brass
- stainless steel
- nickel-plated brass
- nylon/nickel-plated brass

**Applications:**
- suitable for many industries such as: chemical, food, packaging and medical

**Configurations:**
- unions
- tees
- elbows
- connectors
Dixon

Air Hoses

Offer a reliable solution for your air supply needs.

**Polyurethane Air Hose**

**Service:**
- working pressure at 70°F: **210 PSI**
- temperature range: **-40°F to 155°F**

**Materials:**
- nylon-reinforced polyurethane

**Features:**
- lighter in weight than ordinary rubber hose
- A sturdy, nylon-reinforced braid between the inner and outer tube allows for a higher working pressure.
- durometer: Shore A85

**Advantages:**
- durable
- lightweight
- excellent flexibility
- oil resistant

**Coil-Chief Self-Storing Air Hose**

**Service:**
- working pressure at 70°F: **200 PSI**

**Materials:**
- yellow nylon
- brass swivel on one end with spring guard
- brass rigid fittings on one end with spring guard
- repair kits available

**Polyurethane Self-Storing Air Hose**

**Service:**
- working pressure at 70°F: **125 PSI**

**Materials:**
- blue polyurethane
- swivels on both ends

**Advantages:**
- extremely flexible - resists kinking
- impervious to abrasions, heat and oil
- superior elasticity and coil memory
- repair kits available

Dixon Valve & Coupling Company, 877-963-4966
Dixon Mini In-Line FRL's

**Lubricators**

![Image of lubricator]

**Service:**
- maximum operating conditions: 200 PSIG and 175°F
- flow rating is 22 SCFM at 100 PSIG

**Advantages:**
- can be refilled under line pressure
- oil capacity is ¼ fluid ounce

**Filters**

**Service:**
- maximum operating conditions: 200 PSIG and 175°F
- flow rating is 17 SCFM inlet pressure at 100 PSIG

**Advantages:**
- either port may be used as an inlet port
- filter element rated at 5 microns

**Applications:**
- Designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. The all-anodized, lightweight aluminum housing is compact can be used directly before the air tool.

**Service:**
- maximum operating pressure: 500 PSI
- operating temperatures: 35°F to 200°F
- air flow is 140 SCFM

**Advantages:**
- standard element is 40 micron, which ensures minimum pressure drop
- elements can be replaced quickly

**Regulators**

![Image of regulator]

**Applications:**
- Relieving piston design allows reduction of downstream pressure when the system is dead-ended.

**Service:**
- 5 to 125 PSIG outlet pressure adjustment range
- reliable pressure regulation at air flows up to 13 SCFM

**Advantages:**
- compact design and lightweight construction
- wrench flats for easy installation
Pinch-on Clamps offer an easy, efficient, and safe manner to secure hose ends in "small bore" assemblies.

**Single Ear:**
- fast, simple, and secure installation
- lightweight
- zinc-plated steel (**••**)
- 304 stainless steel (**•••**R)

**Double Ear:**
- increased diameter range over the single ear design
- fast, simple, and secure installation
- zinc-plated steel (**•••**)
- 304 stainless steel (**••••**R)

**Stepless® Ear:**
- fast, simple, and secure installation
- lightweight
- for low durometer and thin-walled hose
- provides a 360° seal
- 304 stainless steel (**•••**)

**Service Kit:**
contains:
- 9 sizes of clamps
- 1 standard jaw pincer
- part# (SK1098)

**Construction Kit:**
contains:
- 2 sizes of clamps
- 1 size of menders
- 1 long handle pincher
- part# (18500116)

**Features:**
- straight jaw - long handle (9901)
- standard (1098)
- heavy duty - with side jaws (1099)
Ball Valves are installed in-line to control the flow of liquids or gases from one point to another.

### Domestic Brass Ball Valves

**Application:**
- for control of air, water, oil and gas in hose or pipe lines. For other services, please contact Dixon

**Features:**
- pressure rating: **600 PSI** WOG; **150 PSI** saturated steam
- brass valve bodies, balls and stems
- blow-out proof stems
- glass-filled reinforced PTFE seats and stuffing box ring; stem seals and washers
- plated steel handles and nuts with vinyl sleeves replacements available, consult Dixon for pricing
- full and standard port valves are repairable
- meets WW-V 35C, Type II Composition
- ¼” - ½” available in full port design (BBV··)
- ¾” - 2” available in standard port design (BBV···)

### Locking Handle Brass Ball Valves

**Application:**
- for control of air, water, oil and gas in hose or pipe lines

**Features:**
- for other services, please contact Dixon
- pressure rating: **600 PSI** WOG; **150 PSI** saturated steam
- blow-out proof RPTFE stem
- chrome-plated brass ball
- Stainless steel sliding lock mechanism secures handle in open or closed position; can be padlocked opened or closed.
- plated steel handles and nuts with vinyl sleeves
- full and standard port valves are repairable
- ¼” - ½” available in full port design (BBLV··)
- ¾” - 2” available in standard port design (BBLV···)

### Imported Brass Ball Valves

**Applications:**
- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact Dixon

**Features:**
- pressure rating: **600 PSI** WOG; **150 PSI** Working Steam Pressure
- forged brass body
- blow-out proof stems
- PTFE seat, seal and thrust washer
- chrome-plated brass ball and plated steel handle
- maximum temperature: **366°F**
- Underwriters Listed
- NSF61 approved
- ¼” - 2” Underwriters, Factory Mutual, American Gas Association and Canadian Gas Association approved.
- 2½” - 4” Underwriters, and Canadian Gas Association approved.
- ¼” - 4” available in full port design (FBV··, FBV···)
Applications:
- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact Dixon

Features:
- pressure rating: 600 PSI WOG; 150 PSI Working Steam Pressure
- forged brass body
- blow-out proof stems
- PTFE seat, seal and thrust washer
- chrome-plated brass ball and plated steel handle
- maximum temperature: 366°F
- Underwriters Listed
- NSF61 approved
- ½" - 2" available in full port design (FBV··, FBV···)

Global Brass Ball Valves

Full port design

Applications:
- for water and air only

Features:
- pressure ratings:
  - ¼" - ⅜" rated to 365 PSI
  - ½" - 2" rated to 600 PSI
- forged brass body
- maximum temperature: 248°F (120°C)
- ⅜" - 2" available in full port design (FBVG··, FBVG···)

Imported Brass Ball Valves

Features:
- pressure rating: 450 PSI
- nickel plated brass body
- PTFE seats and Buna-N stem seal
- blow-out proof stem
- maximum temperature 330°F
- American Gas Association and Canadian Gas Association approved
- 1/8" & 1/2" available in standard port design (MBV··)
- 1/4" & 3/8" available in full port design (MBV··)

Mini Ball Valves

Applications:
- for air service only
- vent downstream air in accordance with OSHA regulation 1910.147 for pneumatic systems

Features:
- pressure rating: 600 PSI
- brass valve
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- ¼" - ½" available in full port design (BBV··LV)
- ⅜" - 2" available in standard port design (BBV··LV)

Safety Vented Ball Valves
Bronze "Deadman" Spring Return Handle Ball Valves

Features:
- Pressure rating: 600 PSI WOG; 150 PSI saturated steam
- Vacuum service to 29 inches Hg
- Stainless steel lever
- Chromium plated ball
- RTFE seats and stuffing box ring
- Blow-out proof stem design
- Adjustable packing gland
- Spring return closes valve when not held open
- Operating torque approximately three times standard valve torque
- ½” available in full port design (BBV50SR)
- ¾” - 2” available in standard port design (BBV···SR)

Bronze Ball Valves with NPT Tap for Drain

Application:
- Recommended for water and air service
Features:
- Pressure rating: 125 PSI WOG
- Vent downstream air in accordance with OSHA regulations for pneumatic systems
- Chromium plated ball
- RTFE seats and stuffing box ring
- Blow-out proof stem
- Adjustable packing gland
- Auto-drain / auto-vent
- ¼” NPT tapped port provides additional options such as an air venting elbow or noise muffler
- ¼” - 1” available in full port design (BBV···VT)

Domestic Full Port Ball Valves

Features:
- Machined solid chrome-plated ball
- Multi-fill PTFE seats and seals
- Adjustable packing
- Blow-out proof stem design
- Bronze castings
- Vacuum service to 29 inches Hg
- Pressure rating: 600 PSI WOG; 150 PSI saturated steam
- ¼” - 2” available in full port design (BBV··FP, BBV···FP)

3-Way Diverting Ball Valves

Features:
- Pressure rating: 400 PSI WOG; 100 PSI saturated steam
- Brass body
- Blow-out proof stem
- Chrome plated brass ball
- PTFE seats, seals, and thrust washer
- Adjustable stem packing
- Maximum temperature: 344°F
- ½” - 2” available in standard port design (BBV··DTW)
Brass Valves

Features:
- can be used with gasoline and diesel fuel
- pressure rating: **400 PSI** WOG
- bronze body
- blow-out proof stem
- chromium-plated ball
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- ½” available in full port design (BBV50TW)
- ¾” - 1” available in standard port design (BBV··TW)

Stainless Steel Valves

Features:
- rated to **800 PSI** WOG
- stainless steel body and ball
- blow-out proof stem
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- meets NACE MR-01-75
- ½” available in full port design (SSV50TW)
- ¾” - 1” available in standard port design (SSV··TW)

Application:
- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact Dixon

Carbon Steel Ball Valves

Features:
- pressure rating: **150 PSI** saturated steam
  - ¼” - 1” rated to **2000 PSI**
  - 1½” - 2” rated to **1500 PSI**
- carbon steel body
- chromium plated ball
- RPTFE seat and seal
- blow-out proof stem
- adjustable packing gland
- 1/4” - 3/8” available in full port design (IBV··)
- 1/2” - 2” available in standard port design (IBV···)

Application:
- recommended for use with fluids with widely varying temperatures and/or thermal expansion rates

250 Lb. Steam Ball Valves

Features:
- pressure rating: **600 PSI; 250 PSI** saturated steam
- vacuum service to 29 inches Hg
- bronze body
- 316 stainless steel ball and stem
- blow-out proof stem design
- multi-fill RPTFE seats
- multi-fill stuffing box ring
- high temperature MTFE stem packing
- adjustable packing gland
- maximum temperature: 406°F
- ½” available in full port design (BBV50ST)
- ¾” - 2” available in standard port design (BBV··ST)
High Pressure Full-Bore Hydraulic Ball Valves

Features:
- blow-out proof stem
- rugged construction
- Viton® seals
- Delrin® seats
- \( \frac{1}{4} \)" - 2" available, \((HPBV\cdots)\)
- stainless steel:
  - \( \frac{3}{4} \)" - 1" available, \((HPBV\cdots SS)\)

Dual Y Valves

Application:
- dual action valve, ideal for compressor applications

Features:
- non-vented pressure rating: \(600\) PSI WOG
- vented pressure rating: \(125\) PSI Cold Working Pressure
- non-vented \((BBV\cdots DW)\) and vented \((BBV\cdots DWV)\)

Pneumatically Actuated Valves

Features:
- 3-piece and 2-piece designs
- 3-way L and T ports available
- available in brass and stainless steel
- dual-acting and spring return designs
- female NPT

Electrically Actuated Ball Valves

Features:
- stainless steel available with 3-piece ball valve design \((BV2IG\cdots\cdots EA)\)
- brass available with 2-piece ball valve design \((BV2BV\cdots\cdots EA)\)
- 115VAC actuator
- full port design
- female NPT
Stainless Steel Ball Valves

**Full port design**

**Application:**
- for use with water, oil and gas

**Features:**
- pressure rating: ¼" - 2" rated to 1000 PSI WOG (CWP)
  2½" - 3" rated to 800 PSI WOG (CWP)
  100 PSI saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: -20°F to 450°F
- ¼" - 3" available in full port design (SSBV··, SSBV···)

**Reduced port design**

**Features:**
- for use in water, oil and gas
- ¼" - 1" rated to 2000 PSI (CWP);
  1½" - 2" rated to 1500 PSI (CWP)
- body conforms to ASTM A-351 Grade CF8M
- ball is 316 stainless steel
- PTFE, glass filled seat
- blow-out proof stem design
- ¼" - 2" available in reduced port design (SSBV··RP, SSBV···RP)

**Locking Handle Stainless Steel Ball Valves**

**Full port design**

**Application:**
- for use with water, oil and gas

**Features:**
- pressure rating: ¼" - 2" rated to 1000 PSI WOG (CWP)
  2½" - 3" rated to 800 PSI WOG (CWP)
  100 PSI saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: -20°F to 450°F
- lockable
- ¼" - 2" available in full port design (SSLBV··, SSLBV···)

**Reduced port design**

**Application:**
- for use with water, oil and gas

**Features:**
- pressure rating: 800 PSI WOG; 100 PSI saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: -20°F to 450°F
- lockable
- ¼" - 2" available in reduced port design (SSLBV··SP, SSLBV···SP)
Safety Check Valve

Prevents dangerous hose whip on portable air compressors

Features:
- also known as Air Fuse
- high flow
- controls excess air flow (scfm) in only one direction however, permits flow in either direction
- Not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.
- maximum working pressure: 250 PSI
- maximum temperature: 250°F
- functions efficiently at high discharge temperatures
- automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- automatically resets after hose repair is made
- Conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines.
- applications include temporary plant/factory air, construction sites, shipyards or utilities
- solid brass with stainless steel springs

Use:
- Safety Check Valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air through the valve.
- When the pressure differential is within the operating limits -- below the cutoff flow -- of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see open position graphic below). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the closed position graphic below).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

Questions to ask when selecting a safety shut-off valve:
1. What is the hose I.D. size you are using?
2. What is the operating pressure of the compressor, in PSI?
3. What is the SCFM of your compressor? (printed on the side of most air compressors)
4. How much air flow, in SCFM, does the tool(s) require?
5. What is the maximum air flow possible, in SCFM, through your air hose, at the end of the length of the hose? Contact Dixon for recommendations if the hose length is over 100'.
**King**

**Safety Cable**

_A positive safeguard for air hose connections, King Safety Cable helps you meet today's safety standards_

**Features:**
- hose-to-hose or hose-to-rigid outlet styles available
- low cost answer to eliminating injuries caused by broken air hose connections
- highly resistant to rust and corrosion
- easy installation and removal - no tools needed
- custom lengths available

When a pressurized air hose becomes accidentally uncoupled, or a hose failure occurs, the quick exhaust of air causes the hose assembly to whip violently, creating a potentially dangerous situation.

**King Safety Cables** prevent hose whip in the event of the accidental separation of a coupling or clamp device. The steel cables span the hose fittings to provide standby safety for the hose. Spring-loaded loops in the cable ends are easily opened to pass over the couplings and provide a firm grip on the hose.

The cables can be used in hose to hose installations, as well as hose to rigid outlet, or tool.

On hose to hose applications the **King Safety Cable** should be installed on the hose portion of the assembly in a fully extended position. When used on hose to rigid outlet, or tool, the spring loaded end should be over the hose, while the choker end is installed on the outlet, or tool. **King Safety Cable should always be installed in a fully extended position.**

---

**Features:**
- hose-to-hose or hose-to-rigid outlet
- King Cable is the low cost answer to eliminate injuries caused by broken air hose connections.
- highly resistant to rust and corrosion
- no tools needed - Easy to install and remove

**Style WSR, for hose-to-tool service**

**Style W, for hose-to-hose service**

**Style WSR1E, with stainless steel marine eye**

**Style WB1C, with safety clip and lanyard**
Accessories

Air Accessories
Additional Air Related Products

Mufflers
Features:
• effectively reduces noise levels
• section F in the DPL (Dixon Price List)

Safety Pop-Off Valves
Features:
• National Board Certified Safety Valves
• section F in the DPL (Dixon Price List)

Tire Inflator Gauges
Features:
• available with tapered or straight chuck
• section F in the DPL (Dixon Price List)

Ball Swivels
Features:
• provides increased flexibility
• section F in the DPL (Dixon Price List)

Manifolds
Features:
• distributes air supply to other lines
• section F in the DPL (Dixon Price List)

Flow Control Valves
Features:
• provides precision flow control
• section F in the DPL (Dixon Price List)

Flow Indicators
Features:
• verifies flow and monitors color and clarity in fluid lines
• section R in the DPL (Dixon Price List)
Dixon Valve & Coupling Company, 877-963-4966

S.T.A.M.P.E.D.

Questions to Ask

S
Size

T
Temperature

A
Application

M
Media

P
Pressure

E
Ends

D
Dixon

Pressure Conversions

100 PSI = 6.9 Bars
250 PSI = 17.25 Bars
600 PSI = 41.4 Bars
5 Bars = 72.5 PSI
10 Bars = 145 PSI
25 Bars = 362.5 PSI

Measurement Information

Measures of Pressure

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

Length Conversion Constants

Millimeters x .039370 = Inches
Meters x 39.370 = Inches
Meters x 3.2808 = Feet
Meters x 1.09361 = Yards
Kilometers x 3,280.8 = Feet
Kilometers x .62137 = Statute Mile
Kilometers x .53959 = Nautical Miles

Inches x 25.4001 = Millimeters
Inches x .0254 = Meters
Feet x .30480 = Meters
Yards x .91440 = Meters
Feet x .0003048 = Kilometers
Statute Miles x 1.60935 = Kilometers
Nautical Miles x 1.85325 = Kilometers

Weight Conversion Constants

Grams x .03527 = Ounces (Avd.)
Grams x .033818 = Fluid Ounces (Water)
Kilograms x 35.27 = Ounces (Avd.)
Kilograms x 2.20462 = Pounds (Avd.)
Ounces (Avd.) x 28.35 = Grams
Fluid Ounces (Water) x 29.57 = Grams
Ounces (Avd.) x .02835 = Kilograms
Pounds (Avd.) x .45359 = Kilograms

Pressure Conversions

100 PSI = 6.9 Bars
250 PSI = 17.25 Bars
600 PSI = 41.4 Bars
5 Bars = 72.5 PSI
10 Bars = 145 PSI
25 Bars = 362.5 PSI

Force Chart

Hose I.D. 25 PSI 50 PSI 75 PSI 100 PSI 150 PSI 200 PSI 250 PSI 300 PSI 500 PSI 1000 PSI
1/4" 1 2 4 5 7 10 12 15 25 49
3/8" 3 6 8 11 17 22 28 33 55 110
1/2" 5 10 15 20 29 39 49 59 89 196
3/4" 11 22 33 44 66 88 110 133 221 442
1" 20 39 59 79 118 157 196 236 393 785
1-1/4" 31 61 92 123 184 245 307 368 614 1227
1-1/2" 44 88 133 177 265 353 442 530 884 1767
2" 79 157 236 314 471 628 785 942 1571 3142
2-1/2" 123 245 368 491 736 982 1227 1473 2454 4909
3" 177 353 530 707 1060 1414 1767 2121 3534 7069
4" 314 628 942 1257 1885 2513 3142 3770 6283 12566
5" 491 982 1473 1964 2945 3927 4909 5891 9818 19635
6" 707 1414 2121 2827 4241 5655 7069 8482 14137 28274
8" 1257 2513 3770 5027 7540 10053 12566 15080 25133 50266
10" 1964 3927 5891 7854 11781 15708 19635 23562 39270 78540
12" 2827 5655 8482 11310 16965 22620 28274 33929 56549 113098

Note: For hose I.D.’s from 1-1/4" to 12" the force in pounds is greater than the PSI.

- Force is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of force exerted, you merely multiply the area of the I.D. times the working pressure being used.
- Area of a circle: \( \pi r^2 \) (\( \pi \) [3.1416] times radius squared)
- Force = Area x Pressure

Dixon Valve & Coupling Company, 877-963-4966
### Suggested Pipe Size for Compressed Air Flow at 100 PSI

**Length of Run, Feet**

<table>
<thead>
<tr>
<th>SCFM Air Flow</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>300</th>
<th>500</th>
<th>1000</th>
<th>Compressor HP</th>
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<td>½</td>
<td>½</td>
<td>½</td>
<td>½</td>
<td>½</td>
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<td>½</td>
<td>½</td>
<td>¾</td>
<td>¾</td>
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<td>3½</td>
<td>3½</td>
<td>4</td>
<td>4</td>
<td>125</td>
</tr>
</tbody>
</table>

On a compressed air distribution system, pressure losses greater than 3% are considered excessive, and a well-designed system having a steady rate of air flow is usually designed for not more than a 1% loss or 1 PSI for a 100 PSI system. The pipe size depends not only on the volume of air flow but how far it must be carried. To hold the distribution loss to 1 PSI, pipes of larger diameter must be used on longer runs to carry the same flow that can be handled by smaller pipes on shorter runs.

Figures in the body of the chart above are pipe sizes recommended on a 100 PSI system to carry air with less than 1 PSI loss. When measuring lengths of runs, add 5 feet of length for each pipe fitting. If carrying 120 PSI pressure these sizes will carry slightly more air than shown, or pressure loss will be slightly less than 1 PSI. If carrying 80 PSI pressure these pipes will carry slightly less air at 1 PSI pressure loss than shown in the chart.

The left column of the chart shows the volume of air to be carried. It is difficult to estimate the air flow volume to be carried in each leg of the distribution system. This varies with the application. On some applications, like in a large plant with many legs in the distribution system serving dozens of air-operated machines, the air usage may be at a fairly steady rate. Other applications, usually on small systems, may have to carry a high surge of air if several machines happen to be operated at the same time. Then there may be a period with almost no flow.

To make a realistic estimate of air flow volume, the far right column of the chart showing compressor HP may be used. On steady pumping, a compressor will produce a minimum of 4 SCFM air flow for each 1 HP of capacity. This is a conservative figure, as most compressors will produce 5 or 6 SCFM.

For example, a 25 HP compressor will produce at least 100 SCFM of air. This is shown in the far left column on the same line as 25 HP.

## Air Hose Friction

<table>
<thead>
<tr>
<th>Hose Size (inches)</th>
<th>CFM thru 50' Hose</th>
<th>50</th>
<th>70</th>
<th>90</th>
<th>110</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot;</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>20</td>
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</table>

PSI = pressure in pounds/square inch  
CFM = air flow in cubic feet/minute  
+ pressure loss is too great and therefore the combination of Hose Size, CFM, and Gauge Pressure is not recommended. Gauge Pressures the indicated air pressure in pounds/square inch, at the source (ie the air compressor receiver tank)
Maximum Recommended Air Flow (SCFM) Through ANSI Standard Weight Schedule 40 Pipe

The flow values in the table below are based on a pressure drop of 10% of the applied pressure per 100 feet of pipe for 1/8", 1/4", 3/8", and 1/2" pipe sizes; and a pressure drop of 5% of the applied pressure per 100 feet of pipe for 3/4", 1", 1-1/4", 2", 2-1/2", 3" pipe sizes. The table gives recommended flows for pipe sizes at listed pressures and should be used to determine appropriate piping for air systems.

<table>
<thead>
<tr>
<th>Applied Pressure (PSI)</th>
<th>1/8&quot;</th>
<th>1/4&quot;</th>
<th>3/8&quot;</th>
<th>1/2&quot;</th>
<th>3/4&quot;</th>
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Water Discharge Table

This table is intended for general reference and general applicability only, and should not be relied upon as the sole or precise source of information available with respect to the subject covered. The user should also refer to and follow manufacturer’s specific instructions and recommendations with regard to such information, where they exist.

Flow of water through 100 foot lengths of hose, Straight-Smooth Bore - U.S. Gallons per minute

<table>
<thead>
<tr>
<th>PSI at Hose Inlet</th>
<th>Nominal Hose I.D. Diameters - Inches</th>
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<td>150</td>
<td>77</td>
</tr>
<tr>
<td>200</td>
<td>90</td>
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Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restriction all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

Conversion Table - Feet of Water to Inches of Mercury

<table>
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<th>Feet of Water</th>
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<th>6</th>
<th>8</th>
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<th>12</th>
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</table>
• Listed below is a brief overview of several procedures relating to couplings mentioned in this brochure.
• Proper selection and installation of couplings is critical.
• Each procedure can be viewed in full on the web at www.dixonvalve.com.
• Dixon will supply a complete copy of the Procedures Manual upon request.

Procedure 1002
Brass Reusable Fitting Selection
• male and female fittings
• hose splicers

Procedure 1003
King Safety Cable Selection
1. determine cable style
2. determine hose ID
3. determine assembly working PSI
4. reference the current DPL for available cables

Procedure 1100
General Preparation Instructions
1. cut the hose
2. square the ends
3. clean the ends
4. determine number of clamps
5. mark hose for clamp placement
6. static grounding
7. helical wire
8. seal the hose ends
9. coupling lubricant

Procedure 2203
Pinch-On Clamp Installation
• single ear clamps
• double ear clamps

Procedure 2300
King Safety Cable Installation
• hose to tool
• hose to fixed connector
• hose to hose

Procedure 2304
Brass Stem and Ferrule Installation
• using the 5111A crimping machine
• using the 1765A crimping machine

Procedure 2305
Brass Reusable Fitting Installation
• male and female fittings
• hose splicers

Procedure 3005
General Assembly Inspection
• couplings
• hoses
Dixon, founded in 1916, is a premier manufacturer and supplier of hose couplings, valves, dry-disconnects, swivels, and other fluid transfer and control products. The company’s global reach includes a wide range of products for numerous industries including petroleum exploration, refining, transportation, chemical processing, food & beverage, steel, fire protection, construction, mining and manufacturing. Dixon’s strategic objective is to create solutions that make products safer, leak-free, longer lasting, and always available.