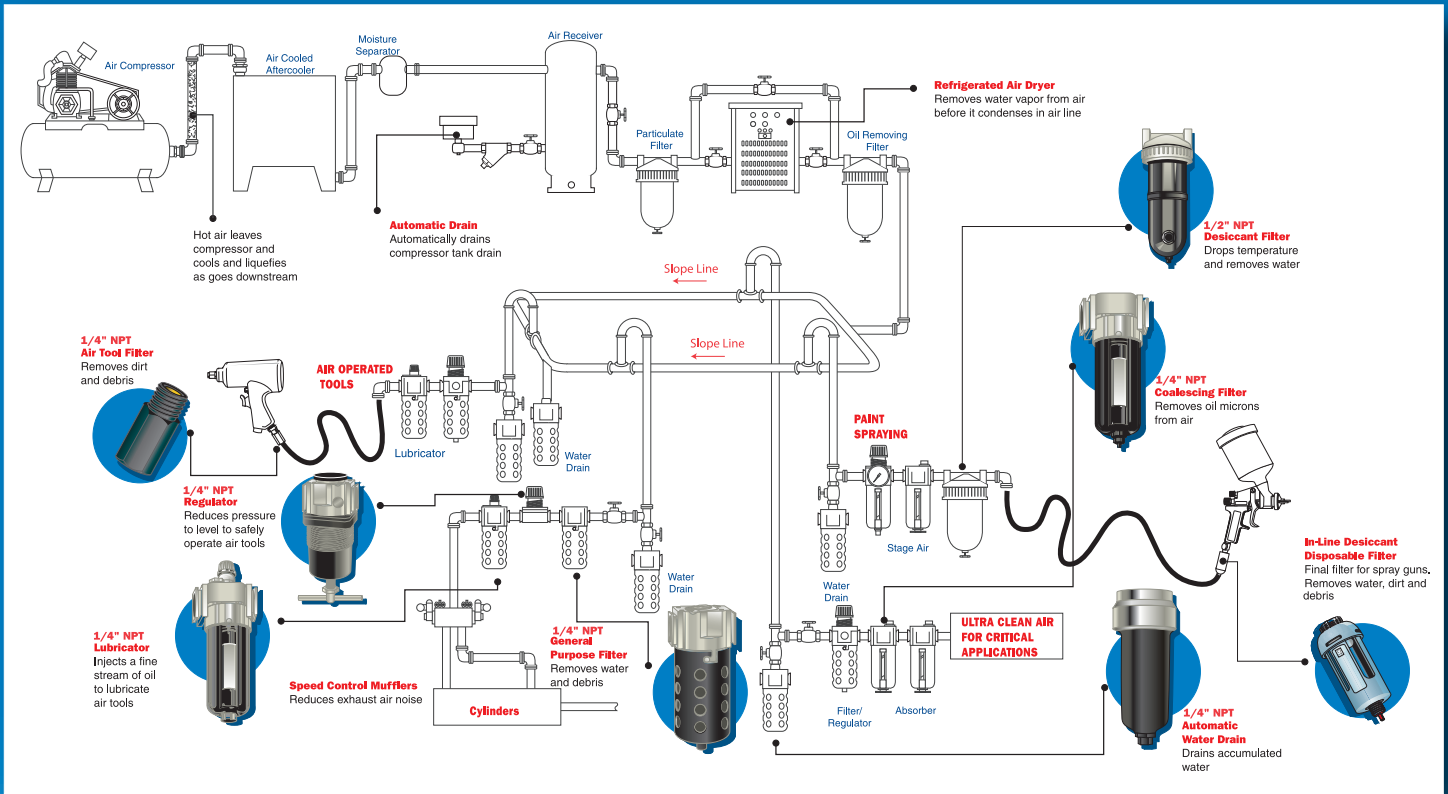


# TECH TIPS

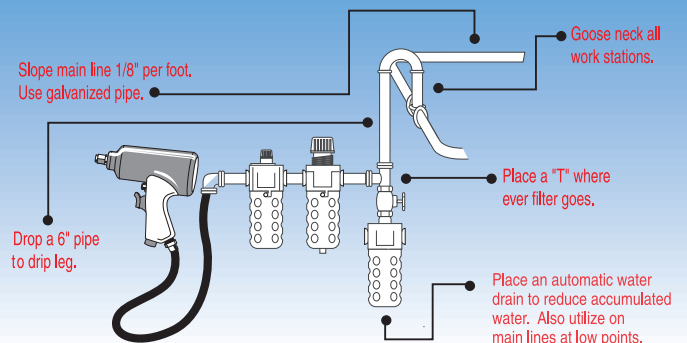
## Building An Efficient Air System

Compressed air powered equipment and machinery are critical elements in the productivity, efficiency, and economy of today's industry and quality air is the essential element. Water and dirt cause more problems in compressed air lines than anything else. High speed pneumatic production lines operate efficiently because of air dryers and filters that remove moisture and impurities from the air, which results in eliminating downtime. Regulators and lubricators can be added to control and lubricate downstream equipment. A good air system is the key to saving time, money and to operating at maximum efficiency.



## 5 Important Steps To An Air System Set-Up

- 1** Main line filter and regulator should be placed at least 20 feet from the compressor. The air will cool down, allowing much of the water vapor to condense naturally for removal by filtration.
- 2** Main line piping should slope down from point of origin by 1/8" per foot. Any water in the line will flow down to the lowest point for draining.
- 3** All line drops (work stations) should be taken from the top of the main line. This prevents water from flowing into branch lines.
- 4** Galvanized pipe is recommended when building an air system.
- 5** Follow illustration to the right when building a work station drop.



# YOUR COMPLETE AIR SYSTEM SUPPLIER

## Contact Your Local Milton Distributor For Details

### For General Automotive Applications

#### Filter

##### 1018

- 1/4" NPT, 5 oz. polycarbonate bowl with safety bowl guard and automatic overnight drain
- Removes liquid and water contaminants from air lines and improves overall performance of the system
- Protects components and air tools from premature failure
- Available in 6 oz. metal bowls
- Available in 3/8" and 1/2" NPT



#### Regulator

##### 1113

- 1/4" NPT self relieving t-handle adjustment
- Used to reduce and maintain the pressure at a level suitable for pneumatic devices
- Reduced pressure ranges from 5 to 125 psig
- Available in 3/8" and 1/2" npt



#### Lubricator

##### 1028

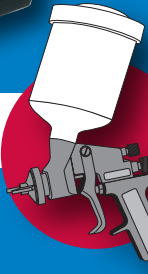
- 1/4" NPT, 5 oz. polycarbonate bowl with safety bowl guard
- Injects fine stream of oil into air which protects the life of the air tools. Should be placed as near as possible to the point of use.
- Precise control of oil feed adjustment knob, oil delivery as low as 2 scfm
- Available in 3/8" and 1/2" NPT
- Available in 6 oz. metal bowl



#### Air Tool Filter

##### S637

- Compact way to protect air tools
- 1-9/16" length, 1/2" oz.
- 40 micron sintered bronze filter removes rust, scale and dirt
- Can be attached directly to air tools
- 1/4" male x 1/4" female



### For Paint and Body Applications

#### Filter/Regulator Combination Unit

##### 1109-5

- 1/4" NPT, 40 micron filter with 5 oz. polycarbonate bowl and safety bowl guard, also includes a automatic overnight drain
- Self-relieving regulator with non-rising adjustment knob
- Combines two units into one compact, space saving unit
- Available in 3/8" and 1/2" NPT
- Available in 6 oz. metal bowl



#### 4-Stage Desiccant Dryer Unit

##### 1072

- 1/2" NPT
- First and Second Stage—filter/regulator removes water in a liquid form as well as dirt, debris and pipe scale. Regulator reduces pressure to a required level
- Third Stage—coalescing filter removes oil aerosols and microscopic particles removed.
- Fourth Stage—desiccant dryer adsorbs water vapor from the air, producing a -30°F dewpoint.



#### Oil Removing Filter

##### 1035

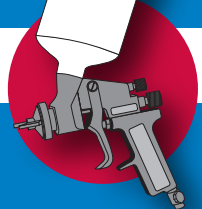
- 1/4" NPT, .03 submicron filter with 6 oz. metal bowl and automatic overnight drain
- Removes submicron particles, particularly oil
- For maximum efficiency, place a general-purpose filter (#1018) before the oil removing filter
- Available in 3/8" and 1/2" NPT
- Available in 5 oz. polycarbonate bowl with safety bowl guard



#### Compact Desiccant Dryer

##### 1170

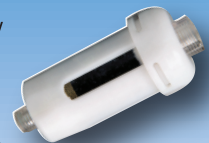
- 1/2" NPT
- Delivers extremely dry air as low as -30° dewpoint without using electricity or refrigeration
- As desiccant beads adsorb moisture, desiccant beads will change from dark blue to pink indicating beads need to be replaced



#### Mini In-Line Desiccant Dryer

##### S1173

- Ideal for spray guns (point-of-use)
- 4-stage disposable filter/dryer removes dust, dirt, water vapor and oil vapor
- Blue desiccant beads lower the dew point to -30° and remove all water vapor. Bead color turns pink when it is time to replace filter/dryer.
- Attaches directly to spray gun or mini regulator located on spray gun. Unit is bi-directional with 1/4" NPT.



#### Mini Regulator

##### S1146

- 1/4" NPT
- Designed for use with all paint spray guns, including HVLP guns
- Attaches directly to the spray gun
- Non-metallic body weighs on 4.3 oz
- 0 to 60 psi, maximum scfm 25



**MILTON INDUSTRIES, INC.**