

"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!"[®]



ExpanTek[®]
Model 380 Series
Tube Expansion Tools

- Pressures up to 30,000 psi (2,068 bar)
- 0.38 in. to 1.00 in. OD (9.6 mm to 25.4 mm OD)
- Seals plain end tubing
- Collet grip and seal on tube OD
- Manual lever grip release
- Pressure-compensated spring grip

DESCRIPTION

The ExpanTek[®] Model 380 Series Tube Expansion Tool offers fast, snap-on coupling and positive sealing for high-pressure expansion of tubes. When used with a high-pressure power source, this tool will quickly expand tubing for HVAC applications and tubular assemblies. The tool uses a variety of services, such as water, oil, and other liquids.

This precision-machined tool is made from heat-treated stainless steel to provide long, trouble-free service for high-pressure expansion applications. Its compact, balanced design is beneficial for applications with limited space area.

The Model 380 Series Tool expands standard and metric tube, and fitting sizes from 0.38 in. to 1.00 in. (9.6 mm to 25.4 mm) in diameter. Special tube sizes and tool configurations will be considered upon request.

OPERATION

Connect the Model 380 Tool to the pressure line. Attach the tool to the tube by pressing the handle to retract collets. Push the tube into the tool until pressed against the tube stop. This instantly provides a complete seal. When the tool's handle is released the collets are engaged and ready for safe operation. Next apply system pressure to desired level, **but do not exceed maximum operating pressure**. After operation cycle ends and pressure drops to 0 psi/bar, press handle to release collets and pull to remove tool.

APPLICATION

The ExpanTek[®] Model 380 Series Tube Expansion Tool is suitable for high-pressure expansion of tubing with standard OD tolerances and maximum working pressure up to 30,000 psi (2,068 bar). This unique tool when used with a high-pressure system will rapidly expand tubing for refrigeration coils, boilers, tubular assemblies, and many other applications.

MATERIALS

Body and Collets: Heat-treated, stainless steel

TOOL CONFIGURATION

Collet Grip and Seal: On tube OD
Gripping: Normally-closed
Manual lever grip release
Pressure-compensated spring grip
Tube Swallow: 4 in. (101.6 mm), other tube depths considered
Standard Port: HP
Handle Options: Standard design or reverse-facing

OPERATING CONDITIONS

Maximum Pressure: 30,000 psi (2,068 bar)
Temperature: 32° F to 120° F (0° C to 49° C)
Services: Water, oil, and other liquids
Tube OD Range: 0.38 in. to 1.00 in.
(9.6 mm to 25.4 mm)
OD Tolerance: Standard tube tolerances

MAXIMUM PRESSURE
30,000 psi
2,068 bar

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FEATURES

- Seals plain end tubing
- Full-flow, high pre fill rate
- Predetermined internal tube stops requires no measuring
- Special collet design locking principle
- Pressure-compensated design
- Built-in tube end tolerances require no square cut ends
- Compact, balance design
- Precision-machined from heat-treated stainless steel
- Designed for tube expansion applications
- Use with optional NuQuip® Automatic Air-Bleed Valve

BENEFITS

- Positive sealing for high-pressure expansion
- Decreases cycle time
- Ensures proper tube depth engagement
- Accommodates shorter length of tube
- Contains all high-pressure loads for safe operation
- Efficient operation saves time
- Ease of use in limited space applications
- Provides long, trouble-free service
- Tools can be used with different service media
- Eliminates operator attendance during fill cycle



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