AIRMO INC.®
PRESSURE TECHNOLOGIES

TESTMASTER®
Hydrostatic Pressure Systems
and Test Tooling

"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!"®

TestMaster®

Model 64 Series

Hydrostatic Test Tools

- **Pressures up to 10,000 psi (689 bar)**
- **0.08 in. to 1.66 in. OD (2.0 mm to 42.2 mm OD)**
- **Collet grip and seal on tube OD**
- **Manual lever grip release**
- **Pressure-compensated spring grip**

DESCRIPTION

The patented TestMaster® Model 64 Series Hydrostatic Test Tool offers fast, snap-on coupling and positive sealing of tubes and tube assemblies in systems. The hydraulic sealing mechanisms along with the safety spring pre-grip, assure a constant, positive grip during any work or operation cycle. The tool can be used with a variety of services including water, oil, or other liquids on request.

This precision-machined tooling provides versatility for use in high-pressure testing applications. Its short, outside collet grip is beneficial for applications with short tube ends. The compact, balanced design of the Model 64 connects and disconnects easily; and is particularly suited for space restricted work areas, such as aircraft hydraulic and fuel lines.

The Model 64 Series Tool comes in standard and metric tube, pipe, and fitting sizes from 0.08 in. to 1.66 in. (2.0 mm to 42.2 mm) in diameter. Special tube sizes and tool configurations will be considered upon request.

OPERATION

Connect the Model 64 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 test pressure to desired level, ***but do not exceed maximum operating pressure.*** To disconnect after operation cycle, press handle to release collets and pull to remove tool.

APPLICATION

The TestMaster® Model 64 Series Hydrostatic Test Tool is a snap-on tool, suitable for hydrostatic pressure testing and hydro-expansion of tubes with working pressures up to 10,000 psi (689 bar). This tool conforms to military, nuclear, automotive, and aerospace testing specifications such as API, ASTM, ASME, ISO, DIN, and BS.

MATERIALS

Wetted Parts:	Heat-treated, stainless steel

TOOL CONFIGURATION

Collet Grip and Seal:	On tube OD
Gripping:	Normally-closed
	Manual lever grip release
	Pressure-compensated spring grip

OPERATING CONDITIONS

Maximum Pressure:	10,000 psi (689 bar)
Temperature:	32° F to 120° F (0° C to 49° C)
Services:	Water, oil, or other liquids on request
Tube OD Range:	0.08 in. to 1.66 in.
	(2.0 mm to 42.2 mm)
OD Tolerance:	Standard tube tolerances

MAXIMUM PRESSURE
10,000 psi
689 bar

TestMaster®

Model 64 Series

Hydrostatic Test Tools

Model 64 Series Tool Specifications

Tube OD Range				Overall Length		Body Diameter		Minimum Orifice		Minimum Tube Swallow		Standard Port
Inches*		MM*										
Min.	Max.	Min.	Max.	Inches	MM	Inches	MM	Inches	MM	Inches	MM	
0.08	0.28	2.0	7.0	4.77	121.3	1.13	28.6	0.06	1.6	1.01	25.7	1/4" NPT
0.28	0.43	7.0	10.9	5.84	148.2	1.25	31.8	0.25	6.4	0.90	23.0	1/4" NPT
0.43	0.56	11.0	14.3	5.95	151.1	1.44	36.5	0.40	10.2	1.21	30.7	3/8" NPT
0.57	0.65	14.4	16.5	6.50	165.1	1.75	44.5	0.50	12.6	1.18	30.0	1/2" NPT
0.65	0.87	16.5	22.1	6.56	166.6	2.25	57.2	0.63	15.9	1.19	30.3	3/4" NPT
0.87	1.31	22.1	33.2	6.54	166.1	2.63	66.7	0.68	17.3	1.19	30.3	3/4" NPT
1.31	1.66	33.3	42.2	6.11	155.2	3.00	76.2	0.68	17.3	1.25	31.8	3/4" NPT

* *Note: Tools are designed for a dedicated tube diameter and do not cover the entire diameter range noted at each size. A single tube OD must be specified for the collet set.*

Special Configurations Available Upon Request
Automatic Air-Bleed Valve Recommended for Optimal Performance

FEATURES

- **Full-flow, high pre fill rate**
- **Predetermined internal tube stops requires no measuring**
- **Low marking collet design**
- **Special collet design locking principle**
- **Lever collet release for fast tool removal**
- **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 test applications**
- **Use with optional NuQuip® Automatic Air-Bleed Valve**

BENEFITS

Decreases cycle time
Ensures proper tube depth engagement
Prevents tube end collapse and eliminates scrap
Accommodates shorter length tube or pipe
Increases production throughput
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 test media
Eliminates operator attendance during fill cycle

AIRMO, INC. PRESSURE TECHNOLOGIES

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