



# MITT-SERIES ISOLATION & TEST TOOLS

ULTIMATE VERSATILITY IN PIPING ISOLATION & PRESSURE TESTING



**ENERPAC** 

▼ Shown: MITT6A, MITT16A, MITT2A, MITT1A Isolation & Test Tools



## Ultimate Versatility in Piping Isolation and Pressure Testing



### Inline Isolation & Test Tools

MITT series tools obsolete traditional pipe cleaning and hydrotesting methods used for maintenance and construction operations.

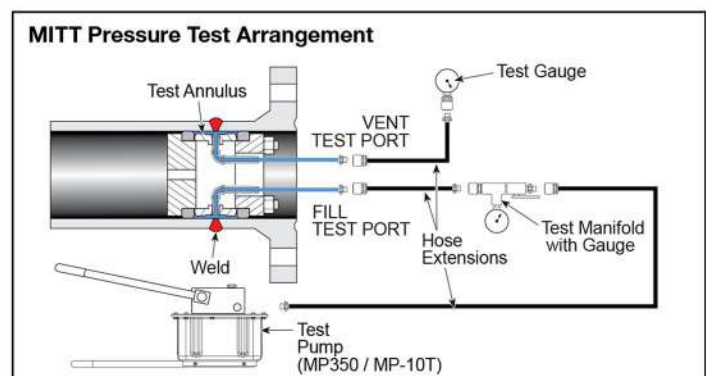
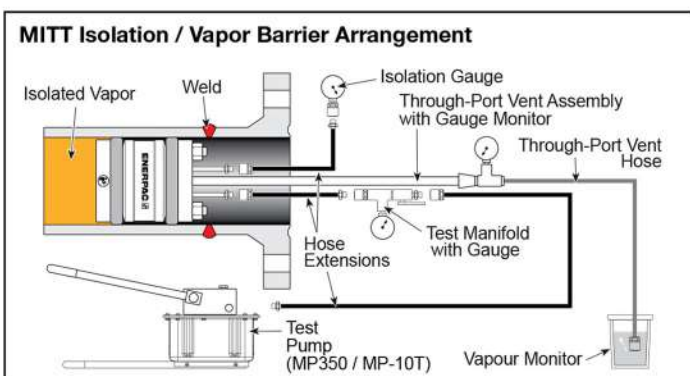
Improve operator safety and reduce system downtime by eliminating cleaning requirements and limiting test pressure volume.

The MITT series tools improve safety by limiting the test pressure volume and reduce downtime by eliminating cleaning requirements.

Key benefits of the tools include:

- Significantly reduce maintenance project timelines
- Safely perform welding on hydrocarbon lines with the peace of mind of a positive pressurized hydrostatic isolation
- Achieve significant reduction in wastewater (<1,0 litres of water required for a 24 inch test)
- Patent Pending.

- **Combination Isolation and Test Tool assures vapor-free isolation for hot work and high-pressure capability between seals for testing welds with one tool**
- **Multi-schedule capability – up to 6 schedules covered per tool, 40 tools cover 154 pipe diameter / schedule combinations**
- **Lightweight, slim and versatile design – no crane required, able to mount in elbows and tees, able to test mismatched schedules**
- **High-pressure capability – test welds with relative ease up to 310 bar**
- **Self-centering tools are user-friendly and require minimal training**
- **Hydrodynamic capability for heat treating**



| Nominal Pipe Diameter<br>(inch) | Model Number | Pipe Schedules Covered    | Max. Tool Pressure Rating<br>(bar) | Tool Body Diameter<br>(mm) | Overall Length<br>(mm) | Stud, Nut, Washer Size<br>(inch) | Pressure Port Size<br>(ASME) | (kg)  |
|---------------------------------|--------------|---------------------------|------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------|-------|
| 3/4                             | MITT075A     | 5, 10, STD/40             | 310                                | 18                         | 356                    | 1/8"                             | Female 1/8" NPT              | 0,7   |
|                                 | MITT075B     | XS/80, 160                | 310                                | 15                         | 356                    | 1/8"                             | Female 1/8" NPT              | 0,7   |
| 1                               | MITT1A       | 5, 10, STD/40             | 310                                | 23                         | 356                    | 1/8"                             | Female 1/8" NPT              | 0,9   |
|                                 | MITT1B       | XS/80, 160                | 310                                | 18                         | 356                    | 1/8"                             | Female 1/8" NPT              | 0,7   |
| 1-1/4                           | MITT125A     | 5, 10, STD/40 XS/80       | 310                                | 29                         | 356                    | 1/4"                             | Female 1/4" NPT              | 1,3   |
| 1-1/2                           | MITT150A     | 5,10, XS/80               | 310                                | 35                         | 356                    | 1/4"                             | Female 1/4" NPT              | 1,9   |
|                                 | MITT150B     | 160                       | 310                                | 28                         | 356                    | 1/4"                             | Female 1/4" NPT              | 1,5   |
| 2                               | MITT2A       | 5,10, STD/40, XS/80       | 310                                | 46                         | 356                    | 1/4"                             | Female 1/4" NPT              | 2,4   |
|                                 | MITT2B       | 160, XXS                  | 310                                | 37                         | 356                    | 1/4"                             | Female 1/4" NPT              | 2,0   |
| 3                               | MITT3A       | 5,10, STD/40, XS/80       | 310                                | 71                         | 178                    | 3/8"                             | Male 1/8" NPT                | 2,3   |
|                                 | MITT3B       | 160, XXS                  | 310                                | 57                         | 178                    | 3/8"                             | Male 1/8" NPT                | 2,0   |
| 4                               | MITT4A       | 5,10, STD/40, 60, XS/80   | 310                                | 94                         | 178                    | 5/16"                            | Male 1/8" NPT                | 2,5   |
|                                 | MITT4B       | 120, 160                  | 310                                | 81                         | 178                    | 5/16"                            | Male 1/8" NPT                | 2,2   |
|                                 | MITT4C       | XXS                       | 310                                | 77                         | 178                    | 5/16"                            | Male 1/8" NPT                | 1,9   |
| 6                               | MITT6A       | 10, STD/40, 60            | 310                                | 145                        | 178                    | 5/8"                             | Male 1/4" NPT                | 5,9   |
|                                 | MITT6B       | XS / 80, 120              | 310                                | 137                        | 178                    | 5/8"                             | Male 1/4" NPT                | 5,4   |
|                                 | MITT6C       | 160, XXS                  | 310                                | 122                        | 178                    | 5/8"                             | Male 1/4" NPT                | 4,5   |
| 8                               | MITT8A       | 10, 20, 30, STD/40, XS/80 | 310                                | 189                        | 178                    | 5/8"                             | Male 1/4" NPT                | 8,6   |
|                                 | MITT8B       | 100, 120, 140, XXS, 160   | 310                                | 168                        | 178                    | 5/8"                             | Male 1/4" NPT                | 7,3   |
| 10                              | MITT10A      | 20, 30, STD/40, XS/60, 80 | 310                                | 238                        | 178                    | 5/8"                             | Male 1/4" NPT                | 13,2  |
|                                 | MITT10B      | 100, 120, XXS/140, 160    | 310                                | 213                        | 178                    | 5/8"                             | Male 1/4" NPT                | 11,3  |
| 12                              | MITT12A      | 10, 20, 30, STD, 40, XS   | 310                                | 294                        | 178                    | 5/8"                             | Male 1/4" NPT                | 19,5  |
|                                 | MITT12B      | 60, 80, 100, XXS/120      | 310                                | 272                        | 178                    | 5/8"                             | Male 1/4" NPT                | 18,6  |
|                                 | MITT12C      | 140, 160                  | 310                                | 248                        | 178                    | 5/8"                             | Male 1/4" NPT                | 14,5  |
| 14                              | MITT14A      | 10, 20, STD/30, 40        | 310                                | 324                        | 178                    | 5/8"                             | Male 1/4" NPT                | 20,4  |
|                                 | MITT14B      | XS, 60, 80                | 310                                | 324                        | 178                    | 5/8"                             | Male 1/4" NPT                | 19,1  |
|                                 | MITT14C      | 100, 120, 140, 160        | 310                                | 283                        | 178                    | 5/8"                             | Male 1/4" NPT                | 17,2  |
| 16                              | MITT16A      | 10, 20, STD/30, XS/40, 60 | 310                                | 372                        | 178                    | 5/8"                             | Male 1/4" NPT                | 24,5  |
|                                 | MITT16B      | 80, 100                   | 310                                | 344                        | 178                    | 5/8"                             | Male 1/4" NPT                | 21,8  |
|                                 | MITT16C      | 120, 140, 160             | 310                                | 324                        | 178                    | 5/8"                             | Male 1/4" NPT                | 20,4  |
| 18                              | MITT18A      | 10, 20, STD, 30, XS, 40   | 310                                | 419                        | 178                    | 5/8"                             | Male 1/4" NPT                | 29,0  |
|                                 | MITT18B      | 60, 80                    | 310                                | 400                        | 178                    | 5/8"                             | Male 1/4" NPT                | 27,2  |
|                                 | MITT18C      | 100, 120                  | 310                                | 378                        | 178                    | 5/8"                             | Male 1/4" NPT                | 24,9  |
|                                 | MITT18D      | 140, 160                  | 310                                | 357                        | 178                    | 5/8"                             | Male 1/4" NPT                | 23,6  |
| 20                              | MITT20A      | 10, STD/20, XS / 30       | 310                                | 480                        | 178                    | 5/8"                             | Male 1/4" NPT                | 36,3  |
|                                 | MITT20B      | 40, 60                    | 310                                | 457                        | 178                    | 5/8"                             | Male 1/4" NPT                | 33,1  |
|                                 | MITT20C      | 80, 100                   | 310                                | 433                        | 178                    | 5/8"                             | Male 1/4" NPT                | 30,4  |
|                                 | MITT20D      | 120, 140                  | 310                                | 410                        | 178                    | 5/8"                             | Male 1/4" NPT                | 27,7  |
|                                 | MITT20E      | 160                       | 310                                | 399                        | 178                    | 5/8"                             | Male 1/4" NPT                | 27,2  |
| 22                              | MITT22A      | STD, XS                   | 310                                | 524                        | 178                    | 5/8"                             | Male 1/4" NPT                | 40,4  |
|                                 | MITT22B      | 60, 80                    | 310                                | 492                        | 178                    | 5/8"                             | Male 1/4" NPT                | 36,7  |
|                                 | MITT22C      | 100, 120                  | 310                                | 467                        | 178                    | 5/8"                             | Male 1/4" NPT                | 34,0  |
|                                 | MITT22D      | 140, 160                  | 310                                | 441                        | 178                    | 5/8"                             | Male 1/4" NPT                | 31,3  |
| 24                              | MITT24A      | 10, STD/20, XS, 30        | 79                                 | 575                        | 178                    | 5/8"                             | Male 1/4" NPT                | 44,9  |
|                                 | MITT24B      | 40, 60                    | 155                                | 551                        | 178                    | 5/8"                             | Male 1/4" NPT                | 42,6  |
|                                 | MITT24C      | 80, 100                   | 232                                | 522                        | 178                    | 5/8"                             | Male 1/4" NPT                | 39,9  |
|                                 | MITT24D      | 120, 140                  | 310                                | 495                        | 178                    | 5/8"                             | Male 1/4" NPT                | 37,2  |
|                                 | MITT24E      | 160                       | 310                                | 480                        | 178                    | 5/8"                             | Male 1/4" NPT                | 36,3  |
| 26                              | MITT26A      | 10, STD, XS               | 79                                 | 626                        | 178                    | 5/8"                             | Male 1/4" NPT                | 52,2  |
| 30                              | MITT30A      | 10, STD, XS/20, 30        | 79                                 | 727                        | 178                    | 5/8"                             | Male 1/4" NPT                | 66,7  |
|                                 | MITT30B      | 40                        | 79                                 | 714                        | 178                    | 5/8"                             | Male 1/4" NPT                | 63,5  |
| 32                              | MITT32A      | 10, STD, XS/20, 30        | 79                                 | 778                        | 178                    | 5/8"                             | Male 1/4" NPT                | 71,7  |
|                                 | MITT32B      | 40                        | 79                                 | 768                        | 178                    | 5/8"                             | Male 1/4" NPT                | 70,3  |
| 34                              | MITT34A      | 10, STD, XS/20, 30        | 29                                 | 829                        | 178                    | 5/8"                             | Male 1/4" NPT                | 76,2  |
|                                 | MITT34B      | 40                        | 29                                 | 819                        | 178                    | 5/8"                             | Male 1/4" NPT                | 74,8  |
| 36                              | MITT36A      | 10, STD, XS               | 29                                 | 879                        | 178                    | 5/8"                             | Male 1/4" NPT                | 84,8  |
| 38                              | MITT38A      | STD, XS                   | 29                                 | 930                        | 178                    | 5/8"                             | Male 1/4" NPT                | 94,3  |
| 40                              | MITT40A      | STD, XS                   | 29                                 | 981                        | 178                    | 5/8"                             | Male 1/4" NPT                | 104,3 |

## MITT Series



Pipe Diameters:

**3/4 - 40 inch**

Water Capacity per Test:

**0,4 - 3,0 litres**

Maximum Test Pressure:

**310 bar**



### Cost-Effective Spares

Buna 90 shore hardness seals and stainless steel seal backing rings provide additional pressure capacity for a low cost.



### Ancillary Kit – MITTAK

All ancillary components required to safely isolate piping and test new welds (includes manual valves, gauge set, hoses, hand tools, fittings).



### Pump and Reservoir

To match the full capability of the tools, the **MP350** hand pump and **MP10T** reservoir are recommended.

▼ MITT2A tool being torqued in a test stand for high pressure testing.





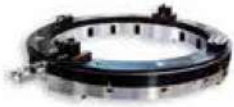
# THE RIGHT TOOL MAKES ALL THE DIFFERENCE

Enerpac bolting tools are put to work under the most intense and demanding conditions. That's why we never compromise. So you can rely on quality and precision every time for your controlled tightening and joint integrity applications.

As a global leader in high-pressure hydraulic tools, controlled force products and solutions for precision positioning of heavy loads, Enerpac products have moved and maintained some of the largest structures on earth. They are the industry standard in aerospace, infrastructure, manufacturing, mining, oil & gas, power generation and much more.

**ELITE TOOLS. FOR ELITE PROFESSIONALS.**

## Machining Tools



Clamshell Pipe Cutting and Bevelling Machines



Flange Facing Machines



Linear Milling Machines



Drilling and Tapping Machines



Hot Tapping and Line Stopping Machines

## Controlled Tightening and Loosening



Manual Torque Multipliers



Pneumatic and Electric Torque Wrenches



S, W, RSL and DSX-Series Hydraulic Torque Wrenches



Battery-Powered Torque Wrench Pumps



Electric Torque Wrench Pumps



Pneumatic Torque Wrench Pumps

## Joint Assembly & Joint Separation



Hydraulic Nut Cutters and Nut Splitters



Flange Alignment Tools



Flange Face Tool



Flange Spreaders



Valve Change-Out Tool Sets



Flange Puller Sets