

# In-Line Weld Test Tool

**In-Line Weld Test Tools provide a fast and efficient method of verifying the integrity of welds or joints by reducing system down-time, minimising environmental impact and increasing worksite safety.**

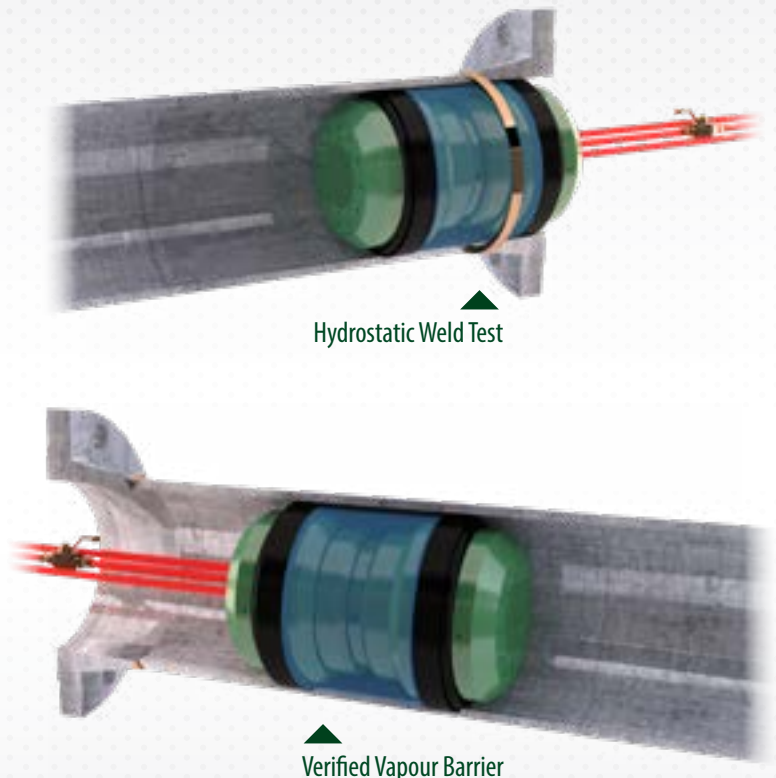
**Additionally these tools can be used to provide a verified atmospheric barrier adjacent to hot work source.**

## Operator Benefits

- ◆ Reduces system downtime and increases worksite safety by minimising pressure test volume
- ◆ Operators save time and reduce costs by limiting test area to only new welds or welded components
- ◆ Timely completion of maintenance and modification activities
- ◆ No requirement to flood & de-water gas systems
- ◆ No requirement for full system pressurisation beneficial to 'mature' systems by decreasing potential for spading / leakage
- ◆ Installed and activated in a matter of minutes
- ◆ Sale or rental options available, complete with full ancillary equipment

## Specification

- ◆ Size range: common pipe sizes ¾" - 36" as standard. Sizes up to 72" available on request
- ◆ Hydraulically actuated above 2"
- ◆ Pressure range up to 690 bar / 10,000 psi dependent on specification, maximum test pressure to suit system
- ◆ Pressure assisted sealing



## Key Features

- ◆ Simple, straight forward installation and operation
- ◆ Installed and activated in a matter of minutes
- ◆ Large section high quality elastomer seals ensure a leak tight seal, even in pitted pipework
- ◆ Designed with generous radial clearance to cope with typical internal obstructions such as weld beads, ovality, etc
- ◆ Easily installed pre hot work operations to provide a verified vapour barrier
- ◆ Suitable for use with most test mediums (liquid or gas)
- ◆ High performance elastomer seals provide excellent radial expansion and relaxation properties, after many operating cycles
- ◆ Robust construction ensures years of trouble free operation even in the harshest environments
- ◆ Suitable for installation in horizontal, vertical and inclined piping

# Flanged Weld Test Tool

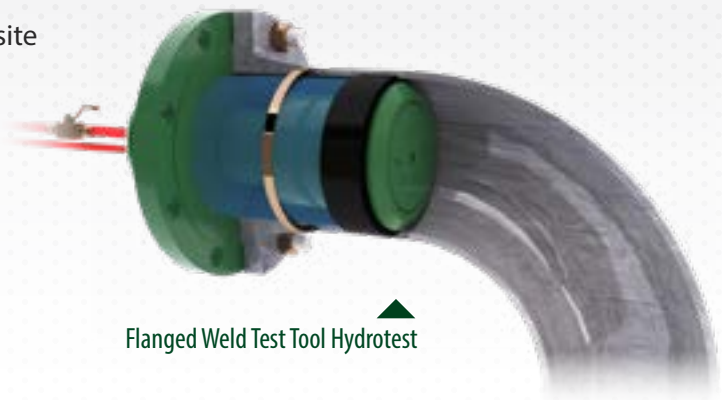
Flanged Weld Test Tools enable localised pressure testing of new flange welds. These tools minimise the test system limits and reduce the time required to undertake maintenance or modification work. The tools are designed with a single seal and flange configuration and are available in a range of sizes compatible with common pipe schedules and flange types / sizes.

## Operator Benefits

- ◆ Reduces system downtime and increases worksite safety by minimising pressure test volume
- ◆ Operators save time and reduce costs by limiting test area to only the new weld or welded component
- ◆ Timely completion of maintenance and modification activities
- ◆ No requirement to flood and de-water gas systems
- ◆ No requirement for full system pressurisation, beneficial to 'mature' systems by decreasing potential for spading / leakage
- ◆ Easily installed, activated in a matter of minutes
- ◆ Sale or rental options available, complete with full ancillary equipment

## Specification

- ◆ Size range: common pipe sizes ½" - 36" as standard. Sizes up to 48" available on request
- ◆ Hydraulically actuated above 2"
- ◆ Designed to provide recommended test pressure requirements up to ASME 2500#
- ◆ Separate fill and vent ports
- ◆ Pressure assisted sealing



Mechanical Flanged Weld Test Tools



18" Flanged Weld Test Tool

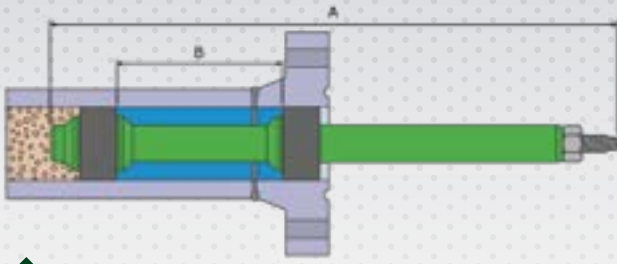


## Key Features

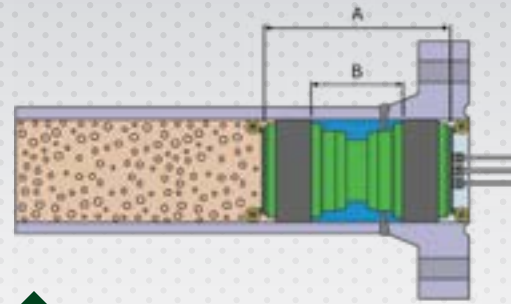
- ◆ Simple, straight forward installation and operation
- ◆ Easily installed, activated in a matter of minutes
- ◆ Large section high quality elastomer seals ensure a leak tight seal, even in pitted pipework
- ◆ Designed with generous radial clearance to cope with typical internal obstructions such as weld beads / ovality
- ◆ Tools can be configured to suit applications where hydrotest is required on butt weld between flange and welded fitting such as an elbow or tee
- ◆ Suitable for use with most test mediums (liquid or gas)
- ◆ High performance elastomer seals provide excellent radial expansion and relaxation properties, even after many operating cycles
- ◆ Robust construction ensures years of trouble free operation even in the harshest environments
- ◆ Suitable for installation in horizontal, vertical and inclined piping

# In-Line Weld Test Tool

## Interface Dimensions



Mechanical In-Line Weld Test Tool 3/4" up to 2"



Hydraulic In-Line Weld Test Tool 3" up to 36"

Tool Ref Size	Tool Model Number	Tool Diameter	Compatible Pipe Schedules	Tool Maximum Working Pressure	Overall Length - A	Length Between Seals - B	Weight
3/4"	TT0013	13mm	3/4" XS, 80, 80s	600 Bar	222mm	86mm	0.5kg
3/4"	TT0017	17.6mm	3/4" 30, 40, 40s, Std	500 Bar	222mm	86mm	0.5kg
3/4"	TT0021	21.3mm	3/4" 5, 5s, 10, 10s	400 Bar	222mm	86mm	0.5kg
1"	TT0017	17.6mm	1" 160	550 Bar	222mm	86mm	0.5kg
1"	TT0021	21.3mm	1" 10, 10s, 30, 40, Std, XS, 80, 80s	550 Bar	245mm	90mm	1kg
1"	TT0027	27mm	1" 5, 5s	550 Bar	245mm	90mm	1kg
1 1/2"	TT0024	24mm	1 1/2" XXS	550 Bar	245mm	90mm	1kg
1 1/2"	TT0030	30mm	1 1/2" 160	350 Bar	245mm	90mm	1kg
1 1/2"	TT0034	34mm	1 1/2" 30, 40, 40s, Std, XS, 80, 80s	800 Bar	280mm	100mm	1kg
1 1/2"	TT0037	37mm	1 1/2" 5, 5s, 10, 10s	600 Bar	280mm	100mm	1kg
2"	TT0034	34mm	2" XXS	1000 Bar	280mm	100mm	1kg
2"	TT0037	37mm	2" 160	750 Bar	280mm	100mm	1kg
2"	TT0045	45mm	2" 5, 5s, 10, 10s, 30, 40, Std, XS, 80, 80s	400 Bar	280mm	100mm	1kg
3"	TT0054	54.9mm	3" XXS	1000 Bar	200mm	94mm	5kg
3"	TT0062	62.6mm	3" 160	820 Bar	200mm	94mm	5kg
3"	TT0069	69.7mm	3" XS, 80, 80s	590 Bar	200mm	94mm	5kg
3"	TT0073	73mm	3" 30, Std, 40, 40s	600 Bar	206mm	120mm	6.5kg
3"	TT0078	78.8mm	3" 10, 10s	525 Bar	206mm	120mm	6.5kg
3"	TT0081	81mm	3" 5, 5s	475 Bar	206mm	120mm	6.5kg
4"	TT0073	73mm	4" XXS	550 Bar	206mm	120mm	6.5kg
4"	TT0081	81mm	4" 160	425 Bar	206mm	120mm	6.5kg
4"	TT0086	86mm	4" 120	350 Bar	206mm	120mm	6.5kg
4"	TT0091	91.2mm	4" XS, 80, 80s	325 Bar	206mm	120mm	6.5kg
4"	TT0096	96.3mm	4" 30, Std, 40, 40s	275 Bar	206mm	120mm	6.5kg
4"	TT0102	102.5mm	4" 5, 5s, 10, 10s	225 Bar	206mm	120mm	6.5kg
5"	TT0096	96.3mm	5" XXS	275 Bar	206mm	120mm	6.5kg
5"	TT0102	102.5mm	5" 120, 160	225 Bar	206mm	120mm	6.5kg
5"	TT0124	124.3mm	5" 5, 5s, 10, 10s, Std, 40, 40s	500 Bar	308mm	197mm	24kg
5"	TT0116	116.9mm	5" XS, 80, 80s	650 Bar	308mm	197mm	24kg
6"	TT0116	116.9mm	6" XXS	650 Bar	308mm	197mm	24kg
6"	TT0124	124.3mm	6" 160	550 Bar	308mm	197mm	24kg
6"	TT0132	132.2mm	6" 120	450 Bar	308mm	197mm	24kg
6"	TT0138	138.9mm	6" XS, 80, 80s	400 Bar	308mm	197mm	24kg
6"	TT0146	146.6mm	6" Std, 40, 40s	350 Bar	308mm	197mm	24kg
6"	TT0154	154.6mm	6" 5, 5s, 10, 10s	300 Bar	308mm	197mm	24kg
8"	TT0165	165.8mm	8" 140, 160, XXS	900 Bar	413mm	269mm	60kg
8"	TT0174	174.6mm	8" 120	800 Bar	413mm	269mm	60kg
8"	TT0180	180.9mm	8" XS, 80, 80s, 100	700 Bar	413mm	269mm	60kg
8"	TT0190	190.5mm	8" Std, 20, 30, 40, 40s, 60	550 Bar	413mm	269mm	60kg
8"	TT0204	204.7mm	8" 5, 5s, 10, 10s	500 Bar	413mm	269mm	60kg

Tool Ref Size	Tool Model Number	Tool Diameter	Compatible Pipe Schedules	Tool Maximum Working Pressure	Overall Length - A	Length Between Seals - B	Weight
10"	TT0204	204.7mm	10" 160	500 Bar	413mm	269mm	60kg
10"	TT0212	212.3mm	10" 140, XXS	450 Bar	413mm	269mm	60kg
10"	TT0220	220.2mm	10" 120	400 Bar	413mm	269mm	60kg
10"	TT0226	226.6mm	10" 100	375 Bar	413mm	269mm	60kg
10"	TT0233	233mm	10" XS, 60, 80, 80s	1000 Bar	500mm	269mm	160kg
10"	TT0243	243.5mm	10" Std, 40, 40s	950 Bar	500mm	269mm	160kg
10"	TT0246	246mm	10" 20, 30	900 Bar	500mm	269mm	160kg
10"	TT0253	253.7mm	10" 5, 5s, 10, 10s	800 Bar	500mm	269mm	160kg
12"	TT0243	243.5mm	12" 160	950 Bar	500mm	269mm	160kg
12"	TT0260	260mm	12" 120, 140, XXS	750 Bar	500mm	269mm	160kg
12"	TT0270	270mm	12" 100	650 Bar	500mm	269mm	160kg
12"	TT0277	277mm	12" 80	600 Bar	500mm	269mm	160kg
12"	TT0285	285mm	12" XS, 60, 80s	550 Bar	500mm	269mm	160kg
12"	TT0291	291mm	12" 40, 40s	500 Bar	500mm	269mm	180kg
12"	TT0295	295mm	12" Std, 30	500 Bar	500mm	269mm	180kg
12"	TT0300	300mm	12" 10, 10s, 20	450 Bar	500mm	269mm	180kg
12"	TT0304	304mm	12" 5, 5s	450 Bar	500mm	269mm	180kg
14"	TT0270	270mm	14" 160	650 Bar	500mm	269mm	180kg
14"	TT0277	277mm	14" 140	575 Bar	500mm	269mm	180kg
14"	TT0285	285mm	14" 120	550 Bar	500mm	269mm	180kg
14"	TT0295	295mm	14" 100	500 Bar	500mm	269mm	180kg
14"	TT0304	304mm	14" 80	450 Bar	500mm	269mm	180kg
14"	TT0311	311mm	14" 60	425 Bar	500mm	269mm	180kg
14"	TT0316	316mm	14" XS	400 Bar	500mm	269mm	180kg
14"	TT0322	322mm	14" Std, 20, 30, 40	375 Bar	500mm	269mm	180kg
14"	TT0332	332mm	14" 5, 5s, 10, 10s	350 Bar	500mm	269mm	180kg
16"	TT0311	311mm	16" 160	1000 Bar	748mm	462mm	380kg
16"	TT0319	319mm	16" 140	1000 Bar	748mm	462mm	380kg
16"	TT0330	330mm	16" 120	1000 Bar	748mm	462mm	380kg
16"	TT0339	339mm	16" 100	900 Bar	748mm	462mm	380kg
16"	TT0350	350.5mm	16" 80	875 Bar	748mm	462mm	380kg
16"	TT0358	358mm	16" 60	825 Bar	748mm	462mm	380kg
16"	TT0364	364.8mm	16" XS, 40	750 Bar	748mm	462mm	380kg
16"	TT0373	373mm	16" Std, 20, 30, 40	700 Bar	748mm	462mm	380kg
16"	TT0381	381.2mm	16" 5, 5s, 10, 10s	650 Bar	748mm	462mm	380kg
18"	TT0350	350.5mm	18" 160	875 Bar	748mm	462mm	380kg
18"	TT0358	358mm	18" 140	750 Bar	748mm	462mm	380kg
18"	TT0364	364.8mm	18" 120	700 Bar	748mm	462mm	380kg
18"	TT0388	388mm	18" 30, XS, 40, 60, 80, 100	425 Bar	600mm	320mm	395kg
18"	TT0430	430mm	18" 5, 5s, 10, 10s 20, Std	375 Bar	600mm	315mm	395kg
20"	TT0388	388mm	20" 120, 140, 160	450 Bar	600mm	320mm	395kg
20"	TT0430	430mm	20" 80, 100	325 Bar	600mm	315mm	450kg
20"	TT0450	450mm	20" 60, 40	400 Bar	620mm	311mm	575kg
20"	TT0478	478mm	20" 20, Std, 10, 10s, 5, 5s	900 Bar	710mm	345mm	725kg
22"	TT0430	430mm	22" 160, 140	325 Bar	600mm	315mm	450kg
22"	TT0478	430mm	22" 100, 80, 60	1000 Bar	710mm	345mm	450kg
22"	TT0520	520mm	22" 5, 5s, 10, 10s, Std, 20, XS, 30	550 Bar	710mm	345mm	760kg
24"	TT0478	478mm	24" 120, 140, 160	850 Bar	710mm	345mm	725kg
24"	TT0520	520mm	24" 100, 80, 60	500 Bar	710mm	345mm	760kg
24"	TT0550	550mm	24" Std, 20, XS, 30, 40	400 Bar	710mm	345mm	825kg
28"	TT0660	660mm	28" XS, 20, 30	250 Bar	844mm	412mm	1180kg
28"	TT0680	680mm	28" 10, Std	250 Bar	844mm	412mm	1250kg
30"	TT0720	720mm	30" 10, Std, XS, 20, 30	250 Bar	844mm	412mm	1400kg
36"	TT0837	837mm	36" 10, Std, XS, 20, 30, 40	340 Bar	823mm	356mm	2000kg