



Fabricated Thermowells



Machined Thermowells

THERMOWELLS

Thermowells & Thermal Grease

The ACI Thermowell Series comes in various lengths and materials. The standard material is 304 stainless steel which ensures long lasting reliability and stability. They are also offered in Monel which is ideal for marine, or salt water, applications. The entire series is milled to high tolerances, so there is a negligible gap between the thermowell sheath and the probe. This provides maximum heat transfer when used with a corresponding ACI sensor. For fabricated (welded) thermowells, the sheath is set into the nut and then automated TIG welded from its own material to provide the strongest possible joint. For machined wells, the wells are machined from solid bar stock using advanced CNC machinery.

The ACI Thermowell Series is covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: www.workaci.com.



SPECIFICATIONS

Process Thread	1/2" NPT (National Pipe Taper)
Instrument Thread	1/2" NPS (National Pipe Straight)

MAXIMUM PRESSURE

Material	Temperature	70°F	200°F	400°F	600°F	800°F	1000°F	1200°F
Fabricated (Welded)*		1600 psi	1500 psi	1400 psi	1200 psi	1000 psi	900 psi	700 psi
Machined SS 304		7000 psi	6000 psi	5600 psi	5400 psi	5200 psi	4500 psi	1600 psi
Monel		6500 psi	6000 psi	5600 psi	5300 psi	5200 psi	1500 psi	----

MAXIMUM FLUID VELOCITY

Material	Thermowell Lengths	2.5"	4"	6"	10"	12"	18"	24"
		Machined SS 304	Steam, air, gas & fluids with similar density	300 ft/sec	109	39.5	20.1	12.2
	Water flow (safe values)	148 ft/sec	82.2	----	----	----	----	----
Material	Thermowell Lengths	2.5"	4"	6"	10"	12"	18"	24"
		Monel	Steam, air, gas & fluids with similar density	261 ft/sec	95	34.4	17.5	10.5
	Water flow (safe values)	118 ft/sec	65.5	----	----	----	----	----

ORDERING

Please select one Thermowell Type (A). **NOTE:** *Fabricated (welded) thermowells are not intended for moving water or high pressure service. Fluid velocity and wake frequency are primary factors in well failure. Machined thermowells should be used in these types of applications. Fabricated thermowells are intended for tank, or low to no flow, applications.

A Thermowell Type

- A/2.5"** (2.5" Thermowell) (Fabricated)*
- A/4"** (4" Thermowell) (Fabricated)*
- A/6"** (6" Thermowell) (Fabricated)*
- A/M2.5"** (Machined 304 Stainless Steel 2.5")
- A/M4"** (Machined 304 Stainless Steel 4")
- A/M6"** (Machined 304 Stainless Steel 6")
- A/M12"** (Machined 304 Stainless Steel 12")
- A/M18"** (Machined 304 Stainless Steel 18")
- A/M24"** (Machined 304 Stainless Steel 24")
- A/MON2.5"** (Machined Monel 2.5")
- A/MON4"** (Machined Monel 4")
- A/MON6"** (Machined Monel 6")
- SG** (-40-400°F) (Silicone Grease, 5.0 OZ)
- NSG** (-40-392°F) (Non-Silicone Grease, 2.0 OZ)

BUILD PART NUMBER

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered.

A

EXAMPLE: A/M12"