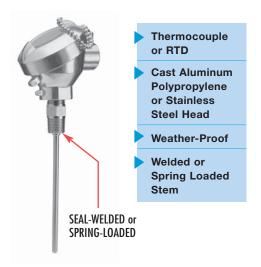
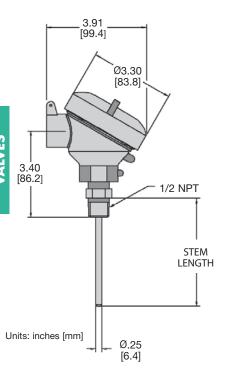
Connection Head Type





The Watson McDaniel **Connection Head** is available with both Type J and Type K Thermocouples, as well as RTD sensors. The weatherproof head provides a conduit connection and is available in cast aluminum (screw cover), polypropylene (flip cover) and stainless steel (screw cover). The stem is either welded directly to the 1/2" NPT threaded connection, or is spring-loaded to provide maximum sensitivity. The spring-loaded stem must always be installed in a thermowell.

Extension wire and transmitter accessories are also available. Please consult factory.

For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the sensor and facilitate its removal from the process. To prevent leakage of the process media, spring loaded sensors must always be installed in a thermowell.

Sensors	Description			
TJD	Type J (Thermocouple)			
TKD	Type K (Thermocouple)			
TDD	100 Ω RTD			
TMD	1000 Ω RTD			
Hot Juncti	on			
	T/C: Ungrounded			
	RTD: Platinum, 3-Wire			
Stem	316 stainless steel			
	1/4" diameter			
Insulation	Ceramic			
Head	Cast aluminum, polypropylene or			
	stainless steel			
Process C				
	¹ / ₂ " NPT welded or spring-loaded			
Conduit C	onnection			
	³ / ₄ " NPT Female			

Example Model Code: TJD Z 04 U W A

Specifications

Thermocouple Type Color Code Positive Lead Negative Lead Temperature Ran								
Type	OUIDI OUUE	rosilive Ledu	Negative Lead	<u> </u>				
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)				
K	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)				

magnetic lead

RTD

Тур	e Material	Resistance @ 0°C	Temperature Coefficient	Temperature Range
D	Platinum (Pt)	100 Ω	$a = 0.00385 \Omega/\Omega/^{\circ}C$	-50° to 700°F (-45° to 400°C)
M	Platinum (Pt)	1000 Ω	$a = 0.00385 \Omega/\Omega/^{\circ}C$	-50° to 700°F (-45° to 400°C)

How to Order Temperature Sensors

	•			•	
Sensor Type	Stem Style	Stem Length	Hot Junction	Connection	Head Material
TJD Type J (T/C)	Z 316SS, 1/4" O.D.	02 21/2" Stem	U Ungrounded (T/C)	S Spring Loaded,	A Aluminum
TKD Type K (T/C)		04 4" Stem	D 3-Wire (RTD)	1/2" NPT	P Polypropylene
TDD 100 Ω RTD		06 6" Stem		W Welded,	S Stainless Steel
TMD 1000 Ω RTD		09 9" Stem		1/2" NPT	
		12 12" Stem			

Other sensor styles available. T/C = Thermocouple

Other Lengths: Specify in inches (24" maximum)