

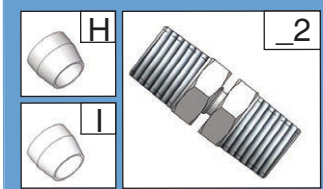
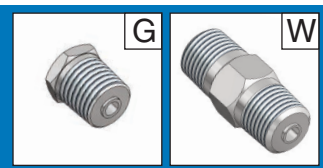
# CUSTOM NIPPLE/UNION EXTENSION CONFIGURATOR

An extension assembly provides extra length extending the sensor head past insulation and away from heat. Standard unions are 1/2" FNPT on both ends. The union joins two nipples in an extension assembly and has a standard pressure rating of 150 PSIG.

When a nipple-union-nipple assembly is selected and spring-loading of the thermocouple element is required, there are two different methods of spring-loading the sensor. JMS's standard, recommended method is to use the machined 1/2" x 1/2" NPT spring-loaded stainless steel fitting as one of the nipples. With this design, the probe is secured within the fitting and mounted to the head in a rigid manner instead of spring-loading against a terminal block, as is the case with a standard nipple-union-nipple. Due to stress exerted by spring, selection #8, option N "nipple" should never be used with an in-head transmitter. Any of the other options within option #8 are compatible with in-head transmitters.

**Notes:**

- The standard JMS spring designed specifically for a 1/4" OD sensor is made of high nickel proprietary spring wire which allows users to successfully maintain 1/2" of spring-loading even up to 1000°F.
- Spring-loaded extension assemblies should not be used with ceramic protection tubes.



#8	COLD SIDE STANDARD INDUSTRIAL ATTACHING DEVICE [1-3, 6-13]		
X	Other, specify		
G	Single thread (process)		<p>STANDARD ATTACHING DEVICE (ALREADY SELECTED IN #8)</p>
W	Double threaded		
H2	SS w/ SS ferrule		<p><b>MOST COMMON</b></p> <p>** L is the overall length of the sensor to the fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</p>
I2	SS w/ Teflon ferrule		
J2	SS w/ Lava ferrule		
K2	SS w/ Nylon ferrule		
L2	Brass w/ Brass ferrule		
D	Single threaded		
C	Double threaded w/ oil ring		<p>UNION (#8.1)</p>
A	Double w/ threaded retainer		
N	Nipple (spring-loaded against terminal block)		<p>PROCESS FITTING (#8.2)</p>
S	Double threaded		
B	Double threaded Bayonet		<p>N (#8.3)</p>
BS	Double threaded Bayonet w/ oil seal		
BD	Single threaded Bayonet		
BDS	Single threaded Bayonet w/ oil seal		
#8.1	UNION		
U	Union		<p><b>Note:</b> Thread adapters may be used when symbol #9 is not 1/2" NPT.</p>
O	Coupling		
X	Other, specify		
Z	N/A		
#8.2	PROCESS FITTING (MALE)		
N	Nipple		<p><b>Note:</b> Thread adapters may be used when symbol #9 is not 1/2" NPT.</p>
X	Other, specify		
Z	N/A (Female thread)		
#8.3	N LENGTH		
"	Specify (inches)*		<p>* ONLY for configurations with nipples (option N for selection #8 or #8.2.) ALL other configurations have fixed lengths and this selection is not applicable.</p>
Z	N/A		
#8.4	UNION and/or NIPPLE MATERIAL		
H	304 stainless steel	X	Other, specify
K	316 stainless steel		
C	Black steel		
G	Galvanized steel		
#8.5	UNION PRESSURE RATING		
1	#150 - A351 spec (Standard)	} ASTM	
2	#3000 - A182 spec		
3	#6000 - A182 spec		
X	Other, specify		

*Note: High nickel proprietary spring material is rated to 1000°F. (For 1/4" Ø sensors)*

S { U N 6" H 1 }

Continue on to the "PROCESS NPT" selection to finish creating your sensor part number. Selection #9 on page 1-2 (thermocouples) and 3-2 (RTDs).