

PROCO



BRAIDED FLEXIBLE METAL CONNECTORS

Temperature

Temperature correction factors and maximum material temperature ranges for braided flexible metal pipe connectors.

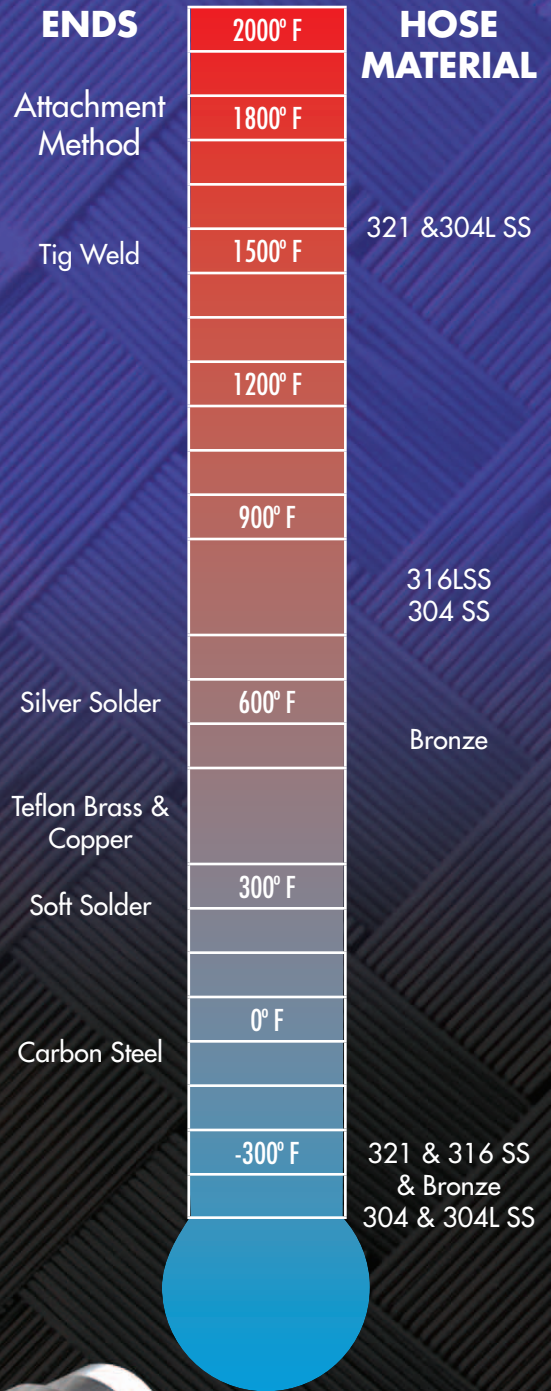
Temp °F	Material		
	Bronze	304 SS	321 SS
Ambient	1.00	1.00	1.00
150	.92	.96	.97
200	.89	.92	.94
250	.85	.91	.92
300	.83	.86	.88
350	.81	.85	.86
400	.78	.82	.83
450	.75	.80	.81
500		.77	.78
600		.73	.74
700		.69	.70
800		.64	.66
900		.58	.62
1000			.60
1100			.58
1200			.55
1300			.50
1400			.44
1500			.40

Temperature Correction Factors

1. Determine maximum operating temperature.
2. Locate appropriate correction factor above.
3. Multiply maximum working pressure by correction factor at temperature for acceptable rating.

Service temperature for a braided flexible metal pump connector has a negative affect on the amount of maximum pressure to which it can be subjected. The table above should be used to calculate the safe working pressure based on the elevated temperature the braided metal pump connector is operating under. (Working Pressure X Elevated Temperature Conversion Figure = Safe Working Pressure.)

Contact **PROCO'S** sales office at **1-800-344-3246** (**209 943-6088 outside USA/Canada**) if help is needed with using the temperature correction chart.



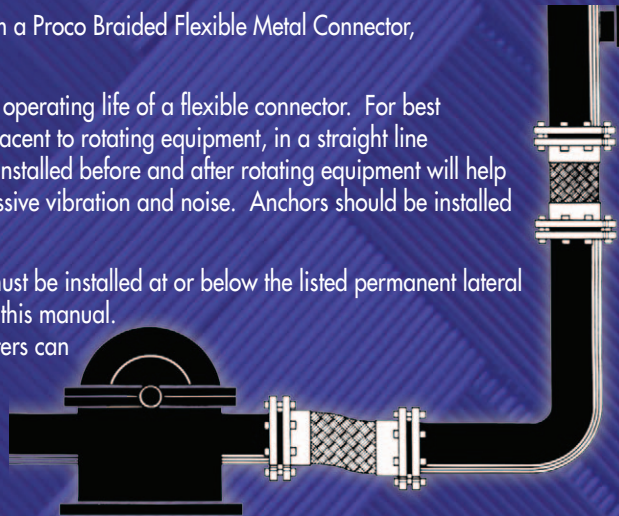
Installation Instructions

To obtain maximum service life from a Proco Braided Flexible Metal Connector, please consider the following:

Proper placement is essential to the operating life of a flexible connector. For best results place flexible connectors adjacent to rotating equipment, in a straight line without offset. Flexible connectors installed before and after rotating equipment will help isolate the piping system from excessive vibration and noise. Anchors should be installed immediately beyond the connector.

Braided flexible metal connectors must be installed at or below the listed permanent lateral offset values listed on pages 3-6 of this manual. Failure to stay within these parameters can reduce the operating life of the flexible connector.

Figure 1



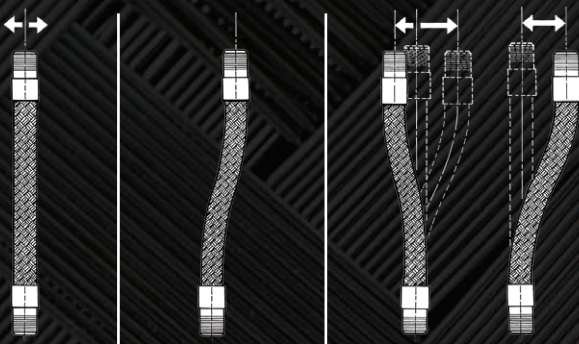
For lateral movements greater than those listed in tables on pages 3-6, it is possible to install two flexible connectors in a pipe system to achieve greater flexibility. Install two connectors at right angles to one another and between two anchor points. This scheme will allow for increased lateral offset capabilities. (See Figure 1.)

Flanged Flexible Connectors Flange alignment should be in accordance with industry standards. Bolt holes should be aligned so that braided flexible metal connectors are free of torsional movements, reduced operating life or failure will occur.

Threaded Flexible Connector Install one end of threaded connector to loose union and tighten. Install opposite threaded end of flexible connector to threaded pipe fitting and tighten. When installing union end to adjacent pipe fitting, it is important not to introduce torque to the braided flexible metal connector. If the flexible connector is subjected to torsional movements, reduced operating life or failure will occur.

Sweat End Flexible Connector Install female ends of the flexible connector to adjacent male ends of pipe in such a manner to eliminate any torque that may be imposed during fit-up.

Types Of Offset Motion



Vibration

Permanent Misalignment

Intermittent Movement

VIBRATION Install in a straight line with a rigid support on the fixed end.

MISALIGNMENT - (PERMANENT MISALIGNMENT) Allow sufficient length to make a gradual bend.

INTERMITTENT MOVEMENT Refer to charts on pages 3-6 for maximum movement capabilities. Where offset movement occurs on both sides of the pipe centerline, the braided flexible hose live length should be based on the total stroke. For movement greater than those stated in this manual, it is suggested that a traveling loop system be used.



Order Form

Fax: 209.943-0242 or Email: sales@procoproducts.com

Series 6201

Braided Flexible Metal Pump Connector Specification Data Sheet

9/1/11 • Rev.3

Customer Name:	Date:	Page:	
Address:	City:	St.	Zip:
Phone:	Fax:		

PROCO - Your Expansion Joint Source!

Inquiry / Job #			
Design Data	TAG #	TAG #	TAG #
Quantity Required			
Nominal Diameter (Inches)			
Overall Length Required			
Hose Material Type: (321 S/S, BRZ) Or _____			
End Fittings	End Type (FF, GF, GG, TT, SEB) Or _____		
	Material Type (C/S, Copper) Or _____		
Maximum Continuous System Operating Temperature (MCSOT)			
Pressure/Vacuum (see conversion chart page 7)	Working Pressure @ _____ °F		
	Working Pressure @ _____ °F		
System Application / Location			
Flow Media / Environment			
Movement Conditions	Misalignment (List Value)		
	Intermittent	Lateral Y or N	in.
	Movement	Angular Y or N	Degree
	Vibration	Y or N	

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