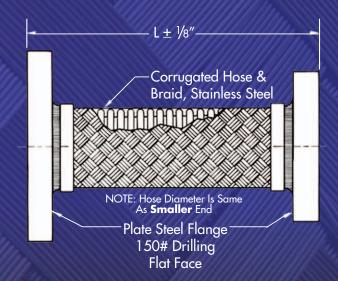
SERIES R - 6201

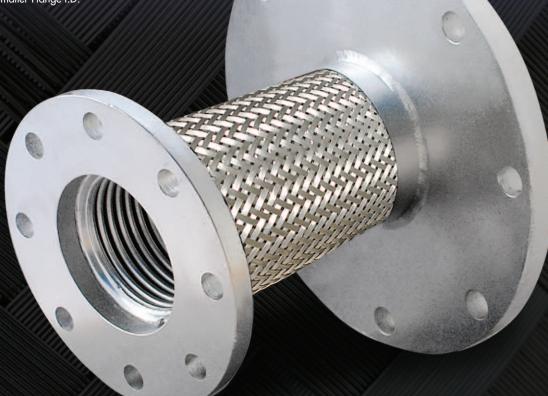
Braided Flexible Metal Reducing Connectors (321 Stainless Hose with 304 Stainless Steel Braid and Carbon Steel Plate Flanges).

Table 3: Sizes • Offset • Working Pressures • Weights

Expansion		Lateral	Offset	Working I	Approx.	
Joint Size: IDXID X Length	Stock	Inter- mittent	Perma- nent	@70 °F	@300 °F	Unit Ship Weight
3 x 2 x 9	S	1/8″	3/8"	345	303	14
4 x 2 x 9	S	1/8″	3/8"	455	400	14
4 x 3 x 9	S	1/8″	3/8"	289	254	16
5 x 3 x 9	S	1/8″	3/8"	289	254	22
5 x 4 x 9	S	1/8″	3/8"	300	264	25
6 x 3 x 9	S	1/8″	3/8"	289	254	23
6 x 4 x 9	S	1/8″	3/8"	300	264	30
6 x 5 x 11	S	1/8″	3/8"	220	193	35
8 x 4 x 9	S	1/8″	3/8"	300	264	58
8 x 5 x 11	S	1/8″	3/8"	220	193	58
8 x 6 x 11	S	1/8″	3/8"	200	176	61
10 x 6 x 11	S	1/8″	3/8"	200	176	80
10 x 8 x 12	S	1/8″	3/8"	190	167	85
12 x 8 x 12	S	1/8″	3/8"	190	167	105
12 x 10 x 13	S	1/8″	3/8"	150	132	135
14 x 10 x 13	Х	1/8′	3/8"	120	105	140
14 x 12 x 14	χ	1/8″	3/8"	100	88	145



NOTES: 1. "S" indicates stocked item.
2. "X" denoted 1-2 week shipment lead time.
3. Hose diameter equals smaller Flange I.D.



lemperature

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

Temp	Material					
°F	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			
100		.69	.70			
800		.64	.66			
900		.58	.62			
1000			.60			
1100			.58			
1200			.55			
1300			.50			
1400			.44			
1500			.40			

- 1. Determine maximum operating temperature.
- Locate appropriate correction factor above.
 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 (200 943-6088 outside USA/Canada) if help is needed with using the temperature correction chart.

ENDS	2000° F	HOSE
		MATERIAL
Attachment Method	1800° F	
Tig Weld	1500° F	321 &304L SS
	1200° F	
	900° F	
		316LSS 304 SS
Silver Solder	600° F	Bronze
Teflon Brass & Copper		
Soft Solder	300° F	
Carbon Steel	0° F	
	-300° F	321 & 316 SS & Bronze 304 & 304L SS

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

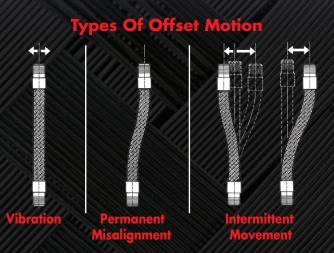


For lateral movements greater than those listed in tables on pages 3-6, it is possible to install two flexible connectors in a pipe system to achieve greater flexibility. Install two connectors at right angels to one another and between two anchor points. This scheme will allow for increased lateral 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 inn such a manner to eliminate any torque that may be imposed during fit-up.



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.



Corrosion Evaluation Reference Table ———

The information contained herein this table is to be used as a guide for the selection of braided metal pump connector materials (i.e. hose and braid) suitable for chemicals listed below. This data should not be construed as advice to use or not use. Ultimate responsibility lies with the system designer or operator for correct material selection based on flow media. It is suggested that flow media be listed on the "Connector Specification Data Sheet", found on the back of this manual when requesting a quotation.

Corrosion Rate:

Sept. Ammonistry Supplement Property A C C Ammonistry Suppleme Property A C C Supplement Property A C C Supplement Property A C C Supplement Supplement Property A C C Supplement Supplement Property A C C Supplement Supplement Property A C C C C	Chemical	Temp. °F.	304, 321 S.S.	Carbon Steel	Bronze	Chemical	Temp. °F.	304, 321 S.S.	Carbon Steel	Bronze	Chemical		304, 321 S.S.	Carbon Steel	Bronze
50% 10% 10% 2 2 2 3 3 4 6 1 3 4 5 4 4 1 4 4 4 4 4 4 4	Acetic Acid 5%, 20% Agitated or Aerated	70°	A	C	C	Ammonium Sulphate					Citric Acid, 5% Still	70° - 150°	Α	C	A
50% 77		70°	A	C	C	1% Aerated or Agitated	70°	A	C	C	15% Still	70°	A	C	В
100% 100%		Ů	((C	5% Aerated & Agitated	70°	-	C	C	15% or Concentrated	Boiling	В	(В
1005. Sp. Presume			A	C	-	10% & Saturated	Boiling	B ⁴	_			Boiling	A		A
100% 100% 160%			-	-	-				-			70°	_	(
Seefs Act Septem Physical Segment Solution Seefs A A A A A A A A A			-	-	-				_		- 11		A	\vdash	(
Top Company Top Top Top Company Top		_		_	-			_				7.00	n 3.4		
Sept		_	-	_	-				_	A				_	(
April		_	_	=	-				D	Α.			-		C
Acetylene Cameractorel	Acetyl Cilionae	_	-	=				_	(_			_	-	(
Commercially Pare	Acetylene Concentrated		_	_	$\overline{}$				_				_		C
Description	· · · · · · · · · · · · · · · · · · ·	_	_	_	$\overline{}$				_	_	-11 / -	Doming	- A	H	
10% 15% 50% 50% 10% 10% 50% 50% 10% 10% 50% 10%								Α	В	_	- ' '	70°	Α	ſ	С
Borne 55 Borne 55 Borne 55 Borne 55 Borne 56 Borne 64 Borne 55 Borne 64 Borne 55 Borne 64 Borne 56 Borne 64	10% H ₂ SO ₄ Sp. G. 1.07 + 10% CuSO ₄ • 5 H ₂ O	Boiling	A 3,4	C	C	Benzoic Acid	70°	Α	Α	Α		70°	Α	ſ	C
Acchol, Medily 77								А	В	_			A	C	(
Section Sect	10% H ₂ SO ₄ Sp. G. 1.07 + 2% FeSO ₄ • 7 H ₂ O	Boiling	A 3,4	C	C	Boric Acid					Copper Sulphate				
Solution	Alcohol, Ethyl, 70° & Boiling	70°	A	A	A	5% Solution, 70° or Hot	70°	Α	C	A	5% Agitated Still or Aerated	70°	Α	(В
Abominum Acetus, Saturated	Alcohol, Methyl	70°	A	A	A	5% Solution	Boiling	_	C	Α	Saturated Solution	Boiling	A	(В
Daling A C C Bromine Water 70" C C C Dichlorosthone (Dry) Boiling A C C Duminum Chloride To C C C C C Dichlorosthone (Dry) Boiling A C C C C C C C C C		Boiling	C	C	Α	Saturated Solution	70°		C	В		Hot	A	В	A
Abunismum Chloride	Aluminum Acetate, Saturated	70°	A	C	C		,	A 3,4	C	C		_	А	В	В
10% 25% Collected 70° 1.74 C C Colcium Chloride Dilute or Concent. Solution 70° 1.74 C C Colcium Chloridophynochloride 70° C C Colcium Chloridophynochloride 70° C C C Colcium Chloridophynochloride 70° C C C C Colcium Chloridophynochloride 70° C C C C C C C C C		Boiling	A	C	C		70°	_	_	C	·	_ ·	_	_	C
25% Quiescent		igsquare			\Box				_			_	_	_	
Aluminum Fluoride		_	-	-			70°	B 3,4	C	В				_	A
Aluminum Hydroxide, Schurated		_					700						_	-	A
Munisum Sulphotes		_					_	-	_	_			_	_	В
10% 8elleg 8 C Calcium Hydroxide, 10-20% 8elling A C A Ferric Chloride 70 A C 10% 8elleg 8 C Calcium Sulphete, Sutrureted 70 A C A 1% Solution Still 70 8 34 C Saturated 70 A C Carbonic Acid Sulviruted Solution 70 A C A 1% Solution 8elling C C Carbonic Acid Sulviruted Solution 70 A C B 5% Solution Agitated, Aerated 70 C C Carbonic Acid Sulviruted Solution 70 A C B 5% Solution Agitated, Aerated 70 C C Carbonic Acid Sulviruted Solution 70 A C B Ferric Hydroxide 70 A C Carbonic Acid Sulviruted Solution 70 A C B Ferric Hydroxide 70 A C Carbonic Acid Sulviruted Solution 70 A C B Ferric Hydroxide 70 A C Carbonic Acid Sulviruted Solution 70 A C Solution Agitated, Aerated 70 A C Carbonic Acid Sulviruted Solution 70 A C B Ferric Hydroxide 70 A C Carbonic Acid Sulviruted Solution 70 A C Solution Agitated, Aerated 70 A C Carbonic Acid Sulviruted Solution 70 A C Solution Agitated, Aerated 70 A C Carbonic Acid Sulviruted Solution 70 A C Solution Agitated, Aerated 70 A C Carbonic Acid Sulviruted Solution 70 A C Commercial Pure Solution 70 A C C Commercial Sulviruted Solution 70 C C C C Commercial Sulviruted Solution 70 C C C C C C C C C		_	_				_	_	_	_			—	-	B A
10% Balling B C C Calcium Sulphate, Saturated 70° A C A 1% Solution Still 70° Balling Saturated 70° A C C Carbonic Acid Saturated Solution 70° A C A 1% Solution Agilated, Aerated 70° C C Aluminum Potassium Sulphate:		_						_	_	_	<u>'</u>	70	А	В	A
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Solurated Soling B C C Carbolic Acid 70° A C B 5% Solution, Agitated, Aerated 70° C C										_			-	-	(
Aluminum Potossium Sulphate:		_			_			A		_		Ť	(-	C
Calum 2%-10% 70° A C B Carbon Bisulfide 70° A B B Ferric Nitrate 70° A C Carbon Monoxide Gos 1400° A A C 1-5% Quiescent or Agitated 70° A C Carbon Monoxide Gos 1400° A A C 1-5% Quiescent or Agitated 70° A C Carbon Monoxide Gos 1600° A A C 1-5% Aperated 70° A C Carbon Monoxide Gos 1600° A A C C 1-5% Aperated 70° A C Carbon Monoxide Gos 1600° A A C C 1-5% Aperated 70° A C Carbon Monoxide Gos 1600° A A C C Carbon Monoxide Gos Carbon Monoxide Molecular Molecul				_	_			Α	C	_			Α	_	
Saturated Baling C C Carbon Monoxide Gas 1600° A A C 1-5% Aerated 70° A C		70°	А	C	В	Carbon Bisulfide	70°	Α	В	В	· ·			\Box	
Ammonia (Anhydrous): All Concentrations 70° A A A A Commercially Pure 70° A ^{3,4} B A 1-5% Quiescent or Agitated 70° A ⁴ C Gas	10%	Boiling	В	C	C	Carbon Monoxide Gas	1400°	А	А	C	1-5% Quiescent or Agitated	70°	А	C	C
All Concentrations 70° A A A A Commercially Pure 70° A 3.4 B A 1-5% Quiescent or Agitated 70° A 4 C G G G S Hot C C C C Dry Commercially Pure 80 Boiling A 3.4 B A 1-5% Aerated 70° A 4 C C Ammonia Liquor 70° A C C C C C C C C C C C C C C C C C C	Saturated	Boiling	(C	C	Carbon Monoxide Gas	1600°	А	Α	C	1-5% Aerated		Α	C	C
Hot	Ammonia (Anhydrous):					Carbon Tetrachloride					Ferric Sulphate				
Ammonium Liquor 70° A C C Commercial + 1% Water C C B 10% Bolling A C C C Chloracetic Acid 70° C C B Ferrous Chloride: Saturated Solution 70° C C C Ammonium Bicarbonate 70° A C C C Chloracetic Acid 70° C C C B Ferrous Chloride: Saturated Solution 70° C C C Ammonium Bicarbonate 70° A C C C Chloracetic Acid 70° C C C Fluorine (Gas) Moist 70° C C C Fluorine (Gas) Moist 70° C C C Fluorine (Gas) Moist 70° C C C Fluorine Gas (Dry) 70° C B A A Formadlehyde 40% Solution A4 B Ammonium Carbonate 1% & 5% 70° A A A C C (Moist) 70° C C C Formic Acid, 5% Still 70° B C C C C Fluorine Gas (Dry) 70° C C C Formic Acid, 5% Still 70° B C C C Fluorine Gas (Dry) 70° C C C Formic Acid, 5% Still 70° B C C C Fluorine Gas (Dry) 70° C C C Formic Acid, 5% Still 70° B C C Fluorine Gas (Dry) 70° C C C Formic Acid, 5% Still 70° B C C Formic Acid, 5% Still 70° B C C Formic Acid, 5% Still 70° C C C Formic Acid, 5%	All Concentrations	70°	A	A	A	Commercially Pure	70°	A 3,4	В	A	1-5% Quiescent or Agitated	70°	A 4	(C
Bolling A C C Chloracetic Acid 70° C C B Ferrous Chloride: Saturated Solution 70° C C Ammonium Bicarbonate 70° A C C Chlorbenzol Concentrate Pure Dry 70° A B B Ferrous Sulphate: Dilute Solution 70° A C C C Chloric Acid 70° C C C C Fluorine (Gas) Moist 70° C C C C Ammonium Bromide 70° B C C Chloric Acid 70° C C C Fluorine (Gas) Moist 70° C C C Ammonium Carbonate 1% 8.5% 70° A A C C C C C C C C	Gas	Hot	(C	C	Dry Commercially Pure	Boiling	A 3,4	В	Α	1-5% Aerated	70°	-	(C
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Hot A C C C C C C C C C		·	_		_					-					В
Ammonium Bromide	Ammonium Bicarbonate	_	-	-	-			_	_	_			_	_	В
Ammonium Carbonate 1 % & 5 % 70" A A C (Moist) 70" C C C Formic Acid, 5% Still 70" B C		_	_	_	_				_			70°	-	_	(
Ammonium Chloride 1% 70" A 3.4 B C Chlorinated Water, Saturated C C C 5% Still 150" B C 10%		_	-	=	-				_	-		700	_	_	A
10% 80ling 8.34 C C Chloroform 70° A A Fuel Oil Hot A B		_	-	_			70			·			-	-	B B
28% Boling B 3.4 C C C Chromic Acid		_	-	-	-		700			_			-	_	A
Soling S					_		70	А	н	н		1101		_	C
Ammonium Hydroxide: All Concentrations 70° A B C 10% 70° C C C Saturated 212° A C Ammonium Monophosphate 70° A B C Chromic Acid Bolling C C C Gasoline 70° A B Ammonium Nitrate: Image: Company of the property of t		<u> </u>		-	-		70°	Α.				70°-150°	_	-	
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All Concentrate Aerated 70° A C C ² 50% Commercially Pure Bolling C C C Hydrofluric Acid 70° C C All Concentrate Saturated Bolling A C C ² Commercial 50% (Cont. SO ₃) 70° C C Hydrofluosilic Acid 70° C C		70°	A	C	(²		_	_	C	_			-	_	(
All Concentrate Saturated Boiling A C C ² Commercial 50% (Cont. SO ₃) 70° C C Hydrofluosilic Acid 70° C C		_		_	C ²				_	_			_	-	C
Ammonium Perchlorate 10% Boiling A 3.4 B C Commercial 50% (Cont. SO.3) Boiling C C Hydrogen Sulphide (Dry) 70° A B		Boiling	A	-	(²		_	C	C	C			(C	В
	Ammonium Perchlorate 10%	Boiling	A 3,4	В	C		Boiling	C	C	C		70°	А	В	Α
Ammonium Persulphate 5% 70° A C C Chromium Plating Bath 70° A B C (Wet) 70° B C	Ammonium Persulphate 5%	70°	A	C	(Chromium Plating Bath	70°	A	В	((Wet)	70°	B 1	C	(
Ammonium Phosphate 5% 70° A B C Hyposulphite Soda A C	Ammonium Phosphate 5%	70°	A	В	C		5/1/	119	140	111	Hyposulphite Soda		A	C	

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 Expa	nsion Join	t Sou	ırce!				
Inquiry / Job#			•							
Desig	n C	ata		TAG #	TA	G#	TAG #			
Quantity Required										
Nominal Diameter ((Inches)									
Overall Length Req	uired									
Hose Material Type:	: (321 S/	'S, BRZ) Or								
End Fittings		End Type (FF, GF, GG, TT,	SEB) Or							
		Material Type (C/S, Copp	er) Or							
Maximum Continuo	us Systei	m Operating Temperature (MCSOT)							
Pressure/Vacuum Working Pressure @										
(see conversion cha page 7)	lπ	Working Pressure @	°F							
System Application	/ Locatio	n								
Flow Media / Enviro	onment									
	Misalig	nment (List Value)								
Movement	Intermi	ittent	Lateral Y or N	in.		in.	in.			
Conditions	Movem	ent	Angular Y or N	Degree		Degree	Degree			
	Vibratio	on	Y or N							

Attention: (Circle One) Gary Haxby • Pat Booth • Richard Garcia • Kristen Pereira • Sylvia Augusto Steve Bowman • Kim Kimball

For direct contact with a Customer Service Representative, please call 1-800-344-3246 USA / Canada. Outside USA / Canada, please call 209-943-6088



2431 North Wigwam Dr. (95205) P.O. Box 590 • Stockton, CA 95201-0590 • USA

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American Water Works Association

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