

AnvilFlex® Flex Connectors
Fig. AF-21-GG - Grooved Ends
Flex Connector



AnvilFlex Flexible connectors are used to prevent damage to pumps caused by piping stress. AnvilFlex connectors also absorb vibration and noise found in pump installations. AnvilFlex connectors are easily installed and reduce the possibility of pump failure.

They are designed to be pressure tested 1.5 times their maximum rated working pressure and manufactured with a 4:1 safety factor. Their compact design saves valuable space.

### See last page for installation instructions.

Working pressure of standard hose and braid up to 1,325 psi (91 bar or full vacuum and operating temperatures of  $-400^{\circ}F$  ( $-240^{\circ}$  C to  $+1,500^{\circ}F$  816° C)

AnvilFlex connectors are manufactured with 321 stainless steel annular corrugated close pitch metal flexible hose. Other stainless steel and corrosion resistant alloys are available. Contact your ASC Engineered Solutions representative for additional information.

# **Material Specifications**

#### Hos

300 Series Stainless Steel

#### Brai

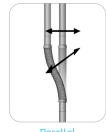
Stainless Steel Type 304

#### Ends

Schedule 40 Carbon Steel Grooved-Ends

#### **Motion Classifications**

AnvilFlex fl x connectors are braided pump connectors capable of handling the following movements:





Parallel

Vibration

#### **Parallel Offset Motion**

Motion that occurs when one end of the hose assembly is deflected in a plane perpendicular to the longitudinal axis with the ends remaining parallel. Offset is measured as displacement of the free end centerline from the fixed end centerline.

#### **Motion Frequency**

Permanent Offset - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage. No further motion is to be imposed other than normal vibration.

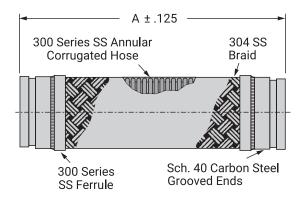
Intermittent Offset is motion that occurs on a regular or irregular cyclic basis. It is normally the result of thermal expansion and contraction or other non-continuous actions.

NOTE: AnvilFlex flex connectors are manufactured with a 4:1 safety factor.





# AnvilFlex® Flex Connectors Fig. AF-21-GG - Grooved Ends Flex Connector



# AF-21-GG GRXGR Flex Connectors

Nominal	0.D.	Model or	Α	Pressure	Paralle	Parallel Offset	
Size	υ.υ.	10 dig. #	Α	70°F	Permanent	Intermittent	Wt. Ea.
In./DN(mm)	In./mm		In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
2	2.375	AF0390232007	12	450	11/4	3/8	2.5
50	60.3		304.8	31.0	31.8	9.5	1.1
21/2	2.875	AF0390232106	12	300	11/4	3/8	3.5
65	73.0	AI 0390232100	304.8	20.7	31.8	9.5	1.6
3	3.500	AF0390232031	12	275	3/4	1/4	4.5
80	88.9		304.8	19.0	19.1	6.4	2.0
4	4.500	AF0390232114	14	270	1/2	1/4	8.0
100	114.3	AFU39U232114 	355.6	18.6	12.7	6.4	3.6
5	5.563	AF0390232122	16	225	7/8	3/8	12.0
125	141.3		406.4	15.5	22.2	9.5	5.4
6	6.625	AF0390232130	16	165	5/8	1/4	14.0
150	168.3		406.4	11.4	15.9	6.4	6.4
8	8.625	AF0390232148	16	155	1/2	1/4	20.0
200	219.1		406.4	10.7	12.7	6.4	9.1
10	10.750	AF0390232155	20	150	5/8	1/4	38.0
250	273.1		508.0	10.3	15.9	6.4	17.2
12	12.750	AF0390232163	20	145	1/2	1/4	46.0
300	323.9	AFU39UZ3Z103	508.0	10.0	12.7	6.4	20.9



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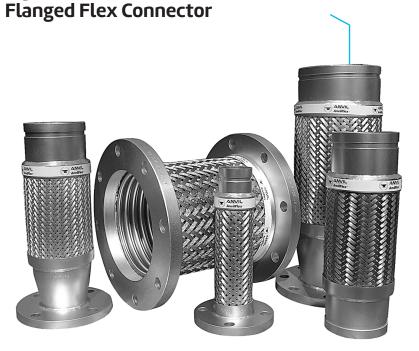
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Fig. AF-21-GF - Grooved x Class 150



AnvilFlex Flexible connectors are used to prevent damage to pumps caused by piping stress. AnvilFlex connectors also absorb vibration and noise found in pump installations. AnvilFlex connectors are easily installed and reduce the possibility of pump failure.

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#### See last page for installation instructions.

Working pressure of standard hose and braid up to 1,325 psi (91 bar or full vacuum and operating temperatures of -400°F (-240°C to +1,500°F (816° C).

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# **Material Specifications**

300 Series Stainless Steel

#### Braid

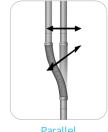
Stainless Steel Type 304

#### **Ends**

Schedule 40 Carbon Steel Grooved-end x Class 150 Flanged End

#### **Motion Classifications**

AnvilFlex flex connectors are braided pump connectors capable of handling the following movements:





Parallel

Vibration

#### **Parallel Offset Motion**

Motion that occurs when one end of the hose assembly is deflected in a plane perpendicular to the longitudinal axis with the ends remaining parallel. Offset is measured as displacement of the free end centerline from the fixed end centerline.

## **Motion Frequency**

Permanent Offset - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage. No further motion is to be imposed other than normal vibration.

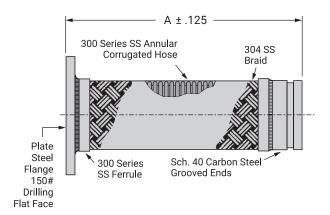
Intermittent Offset is motion that occurs on a regular or irregular cyclic basis. It is normally the result of thermal expansion and contraction or other non-continuous

NOTE: AnvilFlex flex connectors are manufactured with a 4:1 safety factor.





# AnvilFlex® Flex Connectors Fig. AF-21-GF - Grooved x Class 150 Flanged Flex Connector



### AF-21-GF GRXFL Flex Connectors

Nominal	0.D.	Model or	<b>A</b>	Pressure	Paralle	l Offset	Approx.
Size	υ.υ.	10 dig. #	A	70°F	Permanent	Intermittent	Wt. Ea
In./DN(mm)	In./mm		In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
2	2.375	AF0390232197	12	450	17/8	5/8	7.2
50	60.3		304.8	31.0	47.6	15.9	3.3
21/2	2.875	AF0390232213	12	300	15/8	5/8	8.5
65	73.0		304.8	20.7	41.3	15.9	3.9
3	3.500	AF0390232171	12	275	11/8	1/2	10.4
80	88.9		304.8	19.0	28.6	12.7	4.7
4	4.500	AF0390232189	12	270	5/8	1/4	14.0
100	114.3	AFU39U232189	304.8	18.6	15.9	6.4	6.4
5	5.563	AE0200222247	14	225	7/8	3/8	18.4
125	141.3	AF0390232247	355.6	15.5	22.2	9.5	8.3
6	6.625	AF0390232254	14	165	3/4	3/8	23.7
150	168.3	AFU39U232254 	355.6	11.4	19.1	9.5	10.8
8	8.625	AF0390232262	15	155	5/8	1/4	39.6
200	219.1	AFU39U232202 	381.0	10.7	15.9	6.4	18.0
10	10.750	AF0390232270	16	150	5/8	1/4	40
250	273.1	AFU39U2322/U	406.4	10.3	15.9	6.4	18.1
12	12.750	AF0390232288	17	145	1/2	1/4	50
300	323.9	AFUJYUZJZZ88	431.8	10.0	12.7	6.4	22.7



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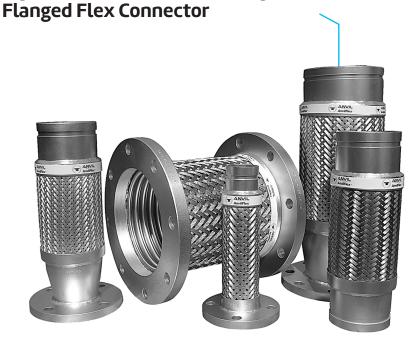
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Fig. AF-21-FF - Class 150 Flanged X Class 150



AnvilFlex Flexible connectors are used to prevent damage to pumps caused by piping stress. AnvilFlex connectors also absorb vibration and noise found in pump installations. AnvilFlex connectors are easily installed and reduce the possibility of pump failure.

They are designed to be pressure tested 1.5 times their maximum rated working pressure and manufactured with a 4:1 safety factor. Their compact design saves valuable space.

### See last page for installation instructions.

Working pressure of standard hose and braid up to 1,325 psi (91 bar) or full vacuum and operating temperatures of  $-400^{\circ}$ F ( $-240^{\circ}$  C) to  $+1,500^{\circ}$ F 816° C).

AnvilFlex connectors are manufactured with 321 stainless steel annular corrugated close pitch metal flexible hose. Other stainless steel and corrosion resistant alloys are available. Contact your ASC Engineered Solutions representative for additional information.

#### **Material Specifications**

#### Hose

300 Series Stainless Steel

#### Brai

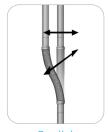
Stainless Steel Type 304

#### End

Class 150 Flanged Ends

### **Motion Classifications**

AnvilFlex flex connectors are braided pump connectors capable of handling the following movements:





Parallel

Vibration

#### Parallel Offset Motion

Motion that occurs when one end of the hose assembly is deflected in a plane perpendicular to the longitudinal axis with the ends remaining parallel. Offset is measured as displacement of the free end centerline from the fixed end centerline.

#### **Motion Frequency**

Permanent Offset - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage. No further motion is to be imposed other than normal vibration.

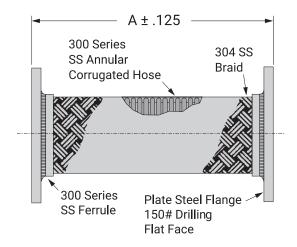
Intermittent Offset is motion that occurs on a regular or irregular cyclic basis. It is normally the result of thermal expansion and contraction or other non-continuous actions.

NOTE: AnvilFlex flex connectors are manufactured with a 4:1 safety factor.





# AnvilFlex® Flex Connectors Fig. AF-21-FF - Class 150 Flanged X Class 150 Flanged Flex Connector



## AF-21-FF FLXFL Flex Connectors

Nominal	0.D.	Model or 10 dig. #	Α	Pressure	Paralle	l Offset	Approx
Size	υ.υ.			70°F	Permanent	Intermittent	Approx. Wt. Ea.
n./DN(mm)	In./mm		In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
2	2.375	AF0390232387	9	450	11/8	3/8	10.0
50	60.3		228.6	31.0	28.6	9.5	4.5
21/2	2.875	AF0390232395	9	300	1	3/8	12.0
65	73		228.6	20.7	25.4	9.5	5.4
3	3.500	AF0390232403	9	275	5/8	1/4	14.0
80	88.9	AFU39U2324U3 	228.6	19.0	15.9	6.4	6.4
4	4.500	AF0390232429	9	270	1/2	1/4	19.0
100	114.3		228.6	18.6	12.7	6.4	8.6
5	5.563	AF0390232437	11	225	3/4	3/8	25.0
125	141.3		279.4	15.5	19.1	9.5	11.3
6	6.625	AF0390232445	11	165	5/8	1/4	30.0
150	168.3		279.4	11.4	15.9	6.4	13.6
8	8.625	AF0390232452	12	155	1/2	1/4	54.0
200	219.1		304.8	10.7	12.7	6.4	24.5
10	10.750	AF0390232460	13	150	1/2	1/4	75.0
250	273.1		330.2	10.3	12.7	6.4	34.0
12	12.750	AF0390232478	14	145	1/2	1/4	105.0
300	323.9	AI 00302024/0	355.6	10.0	12.7	6.4	47.6



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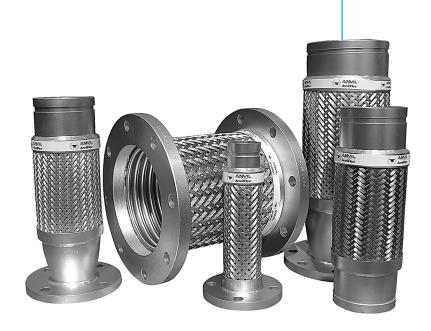
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Fig. AF-21-RFF - Class 150 Flanged x Class 150 Flanged Reducing Flex Connector



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## See last page for installation instructions.

Working pressure of standard hose and braid up to 1,325 psi (91 bar) or full vacuum and operating temperatures of -400°F (-240° C) to +1,500°F 816° C).

AnvilFlex connectors are manufactured with 321 stainless steel annular corrugated close pitch metal flexible hose. Other stainless steel and corrosion resistant alloys are available. Contact your ASC Engineered Solutions representative for additional information.

### **Material Specifications**

300 Series Stainless Steel

#### Braid

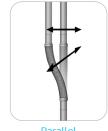
Stainless Steel Type 304

#### **Ends**

Class 150 Flanged End x Class 150 Reducing Flanged End

#### **Motion Classifications**

AnvilFlex flex connectors are braided pump connectors capable of handling the following movements:





Parallel

Vibration

## Parallel Offset Motion

Motion that occurs when one end of the hose assembly is deflected in a plane perpendicular to the longitudinal axis with the ends remaining parallel. Offset is measured as displacement of the free end centerline from the fixed end centerline.

#### **Motion Frequency**

Permanent Offset - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage. No further motion is to be imposed other than normal vibration.

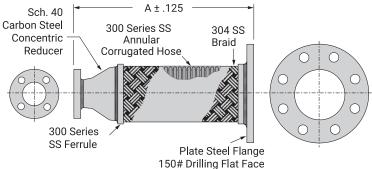
Intermittent Offset is motion that occurs on a regular or irregular cyclic basis. It is normally the result of thermal expansion and contraction or other non-continuous actions.

NOTE: AnvilFlex flex connectors are manufactured with a 4:1 safety factor.





# Fig. AF-21-RFF - Class 150 Flanged x Class 150 Flanged Reducing Flex Connector



150# Drilling Flat Face Bolt Holes Straddle Centerline

Nomir	nal Size	Small	Large	Length	Pressure 70°F	Parallel Offset		Approx
Small Flange	Large Flange	O.D.	O.D.			Permanent	Intermittent	Wt. Ea.
In./DN(mm)	In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
	2	1.66	2.375	14	450	11/2	5/8	6.7
11/2	50	42.2	60.3	355.6	31.0	38.1	15.9	3.0
40	21/2	1.66	2.875	14	300	11/4	3/8	6.9
	65	42.2	73.0	355.6 14	20.7	31.8	9.5	3.1
	2½ 65	2.375 60.3	2.875 73.0	355.6	<b>300</b> 20.7	31.8	9.5	8.1 3.7
2	3	2.375	3.5	14	275	3/4	3/8	10.1
50	80	60.3	88.9	355.6	19	19.1	9.5	4.6
	4	2.375	4.5	15	270	1/2	1/4	12
		60.3	114.3	381.0	18.6	12.7	6.4	5.4
	3 80	2.875 73.0	3.5 88.9	14 355.6	275 19.0	3/ <sub>4</sub> 19.1	3/8 9.5	11.2 5.1
	4	2.875	4.5	15	270	1/2	1/4	14.7
21/2	100	73.0	114.3	381.0	18.6	12.7	6.4	6.7
65	5	2.875	5.563	18	225	3/4	3/8	18.9
	125	73.0	141.3	457.2	15.5	19.1	9.5	8.6
	6 150	2.875	6.625	19 482.6	165	3/ <sub>4</sub> 19.1	3/8 9.5	25.3
	4	73.0	<u>168.3</u> 4.5	15	<u>11.4</u> 270	1/2	9.5	11.5 15.5
3	100	88.9	114.3	381.0	18.6	12.7	6.4	7.0
	5	3.5	5.563	18	225	3/4	3/8	19.7
80	125	88.9	141.3	457.2	15.5	19.1	9.5	8.9
	6	3.5	6.625	19	165	3/4	3/8	26.1
	150	88.9	168.3	482.6	11.4	19.1	9.5	11.8
	<b>5</b> 125	<b>4.5</b> 114.3	5.563 141.3	18 457.2	225 15.5	<sup>3</sup> / <sub>4</sub> 19.1	3 <b>/8</b> 9.5	21.6 9.8
4	6	4.5	6.625	19	165	3/4	3/8	28
100	150	114.3	168.3	482.6	11.4	19.1	9.5	12.7
	8	4.5	8.625	20	155	5/8	1/4	38.4
		114.3	219.1	508.0	10.7	15.9	6.4	17.4
5	6 150	5.563 141.3	6.625 168.3	19 482.6	165 11.4	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	31 14.1
125	8	5.563	8.625	20	155	5/8	1/4	40.7
120	200	141.3	219.1	508.0	10.7	15.9	6.4	18.5
	8	6.625	8.625	20	155	1/2	1/4	41.7
6	200	168.3	219.1	508.0	10.7	12.7	6.4	18.9
150	10 250	6.625	10.75	20 508.0	150 10.3	½ 12.7	1/ <sub>4</sub> 6.4	83.1
8	10	168.3 8.625	273.1 10.75	20	150	1/2	1/4	37.7 95
200	250	219.1	273.1	508.0	10.3	12.7	6.4	43.1
10	12	10.75	12.75	22	145	1/2	1/4	125.9
250	300	273.1	323.9	558.8	10.0	12.7	6.4	571

# For Temp Above 70°F (21.6°C)

Temperature	Small O.D.
°F/°C	
<b>70</b> 21.1	1.00
<b>200</b> 93.3	0.94
<b>300</b> 148.8	0.88
<b>400</b> 204.4	0.83
<b>500</b> 260.0	0.78
<b>600</b> 315.6	0.74

For safe working pressure above 70  $^{\circ}\text{F}$  (21.1  $^{\circ}$  C), Multiply pressure shown at 70°F. times correction factor of require temperature.

\*See Motion Classification on previous page for additional information.

Working pressures shown for the hose and braid are based on an operating temperature of 70° F (21° C) with a 4:1 safety factor.

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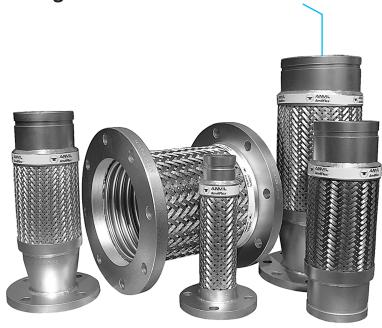
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# Fig. AF-21-RGF - Groove x Class 150 Flanged Reducing Flex Connector



AnvilFlex Flexible connectors are used to prevent damage to pumps caused by piping stress. AnvilFlex connectors also absorb vibration and noise found in pump installations. AnvilFlex connectors are easily installed and reduce the possibility of pump failure.

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## **Material Specifications**

#### Hose

300 Series Stainless Steel

#### Braid

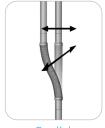
Stainless Steel Type 304

#### End

Schedule 40 Carbon Steel Grooved-End x Class 150 Reducing Flanged End

#### **Motion Classifications**

AnvilFlex flex connectors are braided pump connectors capable of handling the following movements:





Parallel

Vibration

#### Parallel Offset Motion

Motion that occurs when one end of the hose assembly is deflected in a plane perpendicular to the longitudinal axis with the ends remaining parallel. Offset is measured as displacement of the free end centerline from the fixed end centerline.

#### **Motion Frequency**

Permanent Offset - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage. No further motion is to be imposed other than normal vibration.

Intermittent Offset is motion that occurs on a regular or irregular cyclic basis. It is normally the result of thermal expansion and contraction or other non-continuous actions.

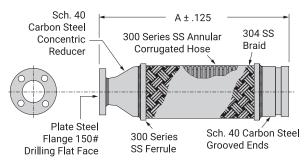
NOTE: AnvilFlex flex connectors are manufactured with a 4:1 safety factor.





# AnvilFlex® Flex Connectors Fig. AF-21-PGF - Groove X

# Fig. AF-21-RGF - Groove x Class 150 Flanged Reducing Flex Connector



Nominal Size					_	Parallel		
Small Flange	Large Groove & Hose	Small O.D.	Large O.D.	Length	Pressure 70°F	Permanent	Intermit- tent	Approx. Wt. Ea.
In./DN(mm)	In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
11/2	<b>2</b> 50	1.660 42.2	2.375 60.3	14 355.6	<b>450</b> 31.0	1½ 38.1	<b>5⁄8</b> 15.9	6.7 3.0
40	2½ 65	1.660 42.2	2.875 73.0	14 355.6	300 20.7	11/ <sub>4</sub> 31.8	3/8 9.5	6.9
	2½ 65	2.375 60.3	2.875 73.0	14 355.6	300 20.7	11/ <sub>4</sub> 31.8	3/8 9.5	8.1 3.7
2 50	3	2.375	3.500 88.9	14 355.6	275 19.0	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	10.1
30	4 100	2.375	4.5 114.3	14 355.6	270 18.6	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	12.0
	3	2.875 73.0	3.5	14 355.6	275 19.0	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	11.2
2½	4 100	2.875 73.0	4.500 114.3	14 355.6	270 18.6	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	14.7 6.7
65	5 125	2.875 73.0	5.563 141.3	18 457.2	225 15.5	3/ <sub>4</sub> 19.1	3/8 9.5	18.9
	6 150	2.875 73	6.625	19 482.6	165 11.4	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	25.3 11.5
	<b>4</b> 100	3.500 88.9	<b>4.500</b> 114.3	15 381.0	270 18.6	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	15.5 7.0
3 80	5 125	3.500 88.9	5.563 141.3	18 457.2	<b>225</b> 15.5	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	19.7 8.9
	6 150	3.500 88.9	6.625 168.3	19 482.6	165 11.4	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	26.1 11.8
	5 125	4.500 114.3	5.563 141.3	18 457.2	225 15.5	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	21.6 9.8
4 100	6 150	<b>4.500</b> 114.3	6.625 168.3	19 482.6	165 11.4	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	28.0 12.7
	8 200	4.500 114.3	8.625 219.1	20 508.0	155 10.7	<sup>5</sup> / <sub>8</sub> 15.9	1/ <sub>4</sub> 6.4	38.4 17.4
5	6 150	5.563 141.3	6.625 168.3	19 482.6	165 11.4	<sup>3</sup> / <sub>4</sub> 19.1	3/8 9.5	31.0 14.1
125	8 200	5.563 141.3	8.625 219.1	20 508.0	155 10.7	<sup>5</sup> / <sub>8</sub> 15.9	1/ <sub>4</sub> 6.4	40.7 18.5
6 150	8 200	6.625 168.3	8.625 219.1	20 508.0	155 10.7	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	<b>41.7</b> 18.9
8 200	10 250	8.625 219.1	10.750 273.1	23 584.2	150 10.3	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	84.0 38.1
10 250	12 300	10.75 273.1	12.750 323.9	25 635.0	145 10.0	1/ <sub>2</sub> 12.7	1/ <sub>4</sub> 6.4	102 46.3

# For Temp Above 70°F (21.6°C)

Temperature	Factor S.S.
°F/°C	
<b>70</b> 21.1	1.00
<b>200</b> 93.3	0.94
<b>300</b> 148.8	0.88
<b>400</b> 204.4	0.83
<b>500</b> 260.0	0.78
<b>600</b> 315.6	0.74

For safe working pressure above 70°F (21.1° C), Multiply pressure shown at 70°F. times correction factor of required temperature.

\*See Motion Classification on previous page for additional information.

Working pressures shown for the hose and braid are based on an operating temperature of 70° F (21° C) with a 4:1 safety factor.

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