

# ANVILFLEX™ FLEX CONNECTORS

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 page 181 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 Anvil representative for additional information.



## MATERIAL SPECIFICATIONS

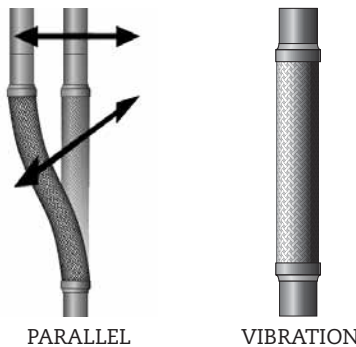
HOSE: 300 Series Stainless Steel

BRAID: Stainless Steel Type 304

ENDS: Schedule 40 Carbon Steel Grooved-Ends

## MOTION CLASSIFICATIONS

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



### 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:

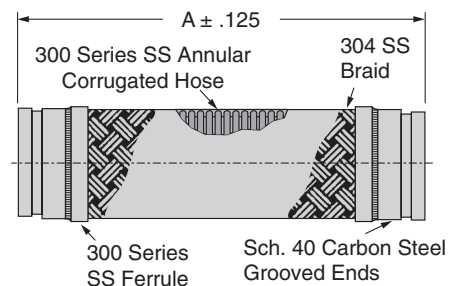
*Permanent Offset* - The maximum fixed parallel offset to which the corrugated metal hose assembly may be bent without damage to the convolutions. No further motion is to be imposed other than normal vibration.

*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. AF21-GG**

Grooved Ends Flex Connector



AF21-GG GRXGR FLEX CONNECTORS							
Nominal Size	O.D.	Model or 10 dig. #	A	Pressure 70°F	Parallel Offset *		Approx. Wt. Ea.
					Permanent	Intermittent	
In./DN(mm)	In./mm		In./mm	PSI/bar	In./mm	In./mm	Lbs./kN
2	2.375	AF0390232007	12	450	1¼	¾	2.5
50	60.3		304.8	31.0	31.8	9.5	1.1
2½	2.875	AF0390232106	12	300	1¼	¾	3.5
65	73.0		304.8	20.7	31.8	9.5	1.6
3	3.500	AF0390232031	12	275	¾	¼	4.5
80	88.9		304.8	19.0	19.1	6.4	2.0
4	4.500	AF0390232114	14	270	½	¼	8.0
100	114.3		355.6	18.6	12.7	6.4	3.6
5	5.563	AF0390232122	16	225	⅞	¾	12.0
125	141.3		406.4	15.5	22.2	9.5	5.4
6	6.625	AF0390232130	16	165	⅝	¼	14.0
150	168.3		406.4	11.4	15.9	6.4	6.4
8	8.625	AF0390232148	16	155	½	¼	20.0
200	219.1		406.4	10.7	12.7	6.4	9.1
10	10.750	AF0390232155	20	150	⅝	¼	38.0
250	273.1		508.0	10.3	15.9	6.4	17.2
12	12.750	AF0390232163	20	145	½	¼	46.0
300	323.9		508.0	10.0	12.7	6.4	20.9