

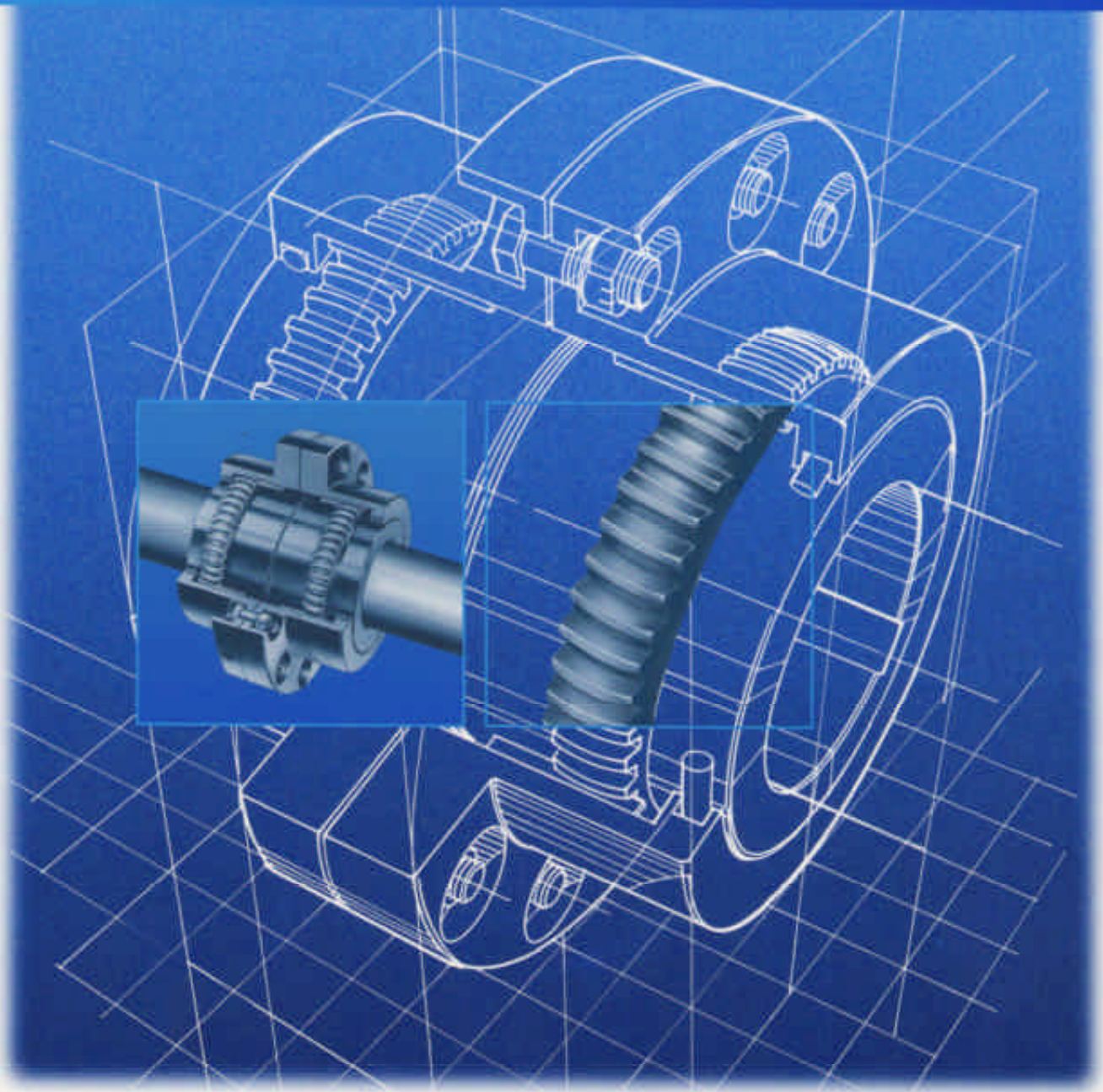


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Amerigear® Standard Gear Couplings



Flanged and Continuous Sleeve Designs

Ameridrives *Coupling
Products*
AN AMERIDRIVES INTERNATIONAL COMPANY

Amerigear

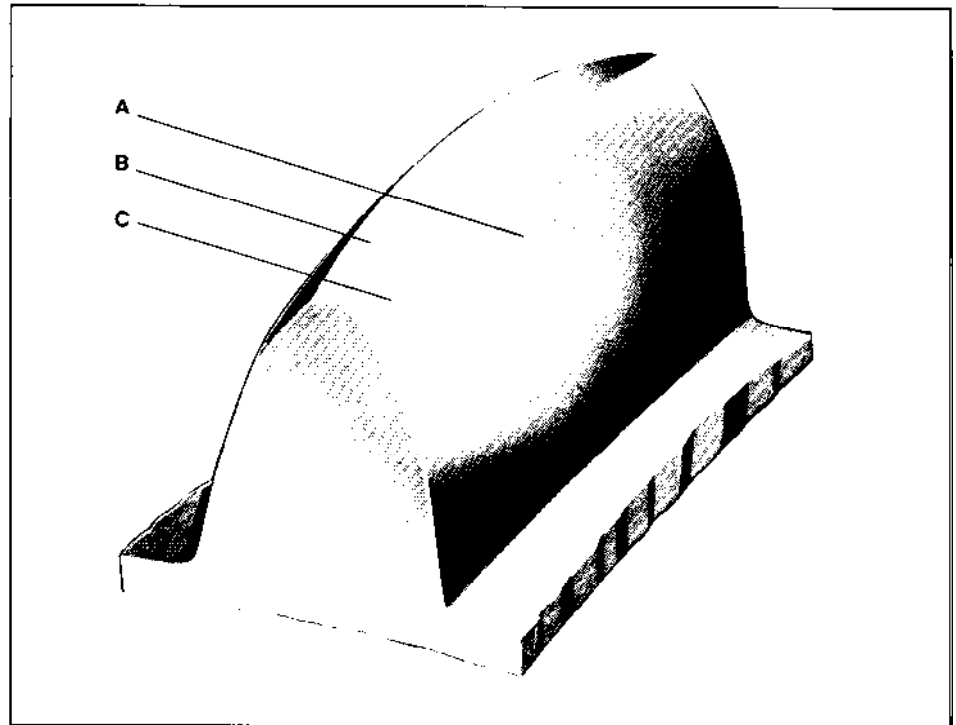
Flexible Couplings

Fully-Crowned Teeth The Basis For Gear Tooth Design

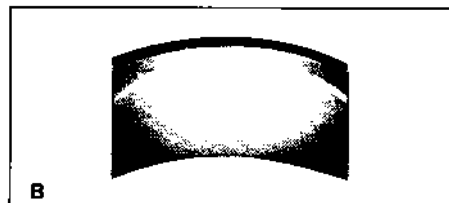
Amerigear ... the first, the finest ... flexible coupling with Fully-Crowned Gear Teeth.

In contrast with ordinary gear tooth forms, the Amerigear Fully-Crowned Tooth represents the ultimate achievement in the art of gear tooth design, wherein all three working portions of the tooth are crowned. As a result, the teeth act much like a rocking chair, capable of sliding freely in the axial direction without digging or gouging the internal mating teeth. Because of this design advantage, Amerigear Flexible Couplings with Fully-Crowned Gear Teeth offer operational benefits of maximum load-carrying capacity with minimum size, maximum reliability and long life.

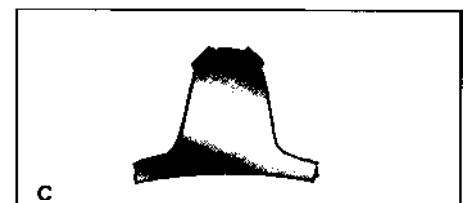
Amerigear ... often copied, but never equaled.



Crowned Flanks Flanks of the teeth are crowned so that tooth thickness is greatest at the center of the tooth. This assures larger contact area per tooth for higher torque requirements and puts more teeth in contact for a given angle. Actual tooth loading takes place near the center of the tooth face where tooth thickness is greatest. Crowned flanks also eliminate end-of-tooth loading, provide optimum load distribution, and accommodate all types of misalignment with minimum backlash, while transmitting constant velocity. This design provides good oil film characteristics for efficient lubrication.



Crowned Tips Tips of teeth are crowned with a radius equal to the outside of the gear element. The crowned tip contacts the root of internal gear teeth in the external sleeve, accurately piloting the sleeve with true concentric ball-and-socket action. This permits minimum diametral sleeve clearance and centers the sleeve physically to assure good dynamic balance characteristics under various loading and misalignment conditions.



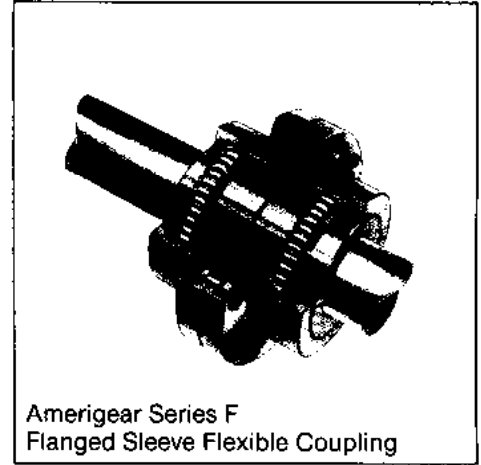
Crowned Chamfers Faces of the teeth adjacent to the tips are chamfered to eliminate interference with the sleeve tooth fillets. This allows the true involute flanks of the gear teeth to be in contact with the sleeve teeth and assures freedom to misalign.

In accordance with our established policy to constantly improve our products, the specifications contained herein are subject to change without notice.

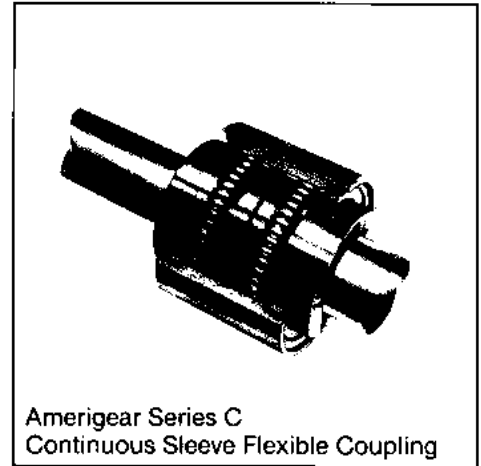


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IDENTIFICATION OF COUPLING TYPES	
F	Flanged Sleeve
C	Continuous Sleeve
FS and CS	Single Engagement
FM and CM	Mill Motor (Taper Shaft)
FMS and CMS	Mill Motor Single Engagement
FV and CV	Vertical
FVS and CVS	Vertical Single Engagement
FA and CA	Axial Travel
FAS and CAS	Axial Travel Single Engagement
FE	Extended (Spacer)
FL and CL	Continuously Lubricated
FEL	Extended, Continuously Lubricated
FR	Rigid
FD and FDC	Disconnect (Cut-out)
FB and CB	Brake Drum
FI	Insulated
FPH	Shear Pin
FSPH	Shear Pin Single Engagement



Amerigear Series F
 Flanged Sleeve Flexible Coupling



Amerigear Series C
 Continuous Sleeve Flexible Coupling

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Flexible Couplings

Design Advantages

The Flexible Coupling method of connecting rotating shafts is a vital and necessary technique. Large massive shafting, loosely mounted in sleeve bearings and merely joined together by rigidly bolted flanges, cannot provide efficient mechanical power transmission. Especially today, as machine designers and builders demand higher speeds, higher torques, and higher misalignment capacities, the need for "flexibly connecting" this equipment becomes apparent.

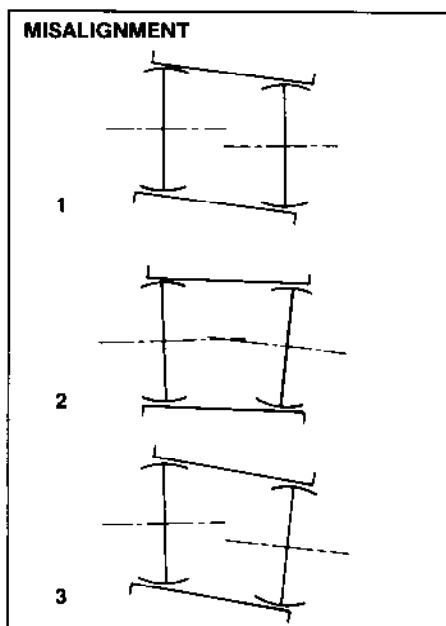
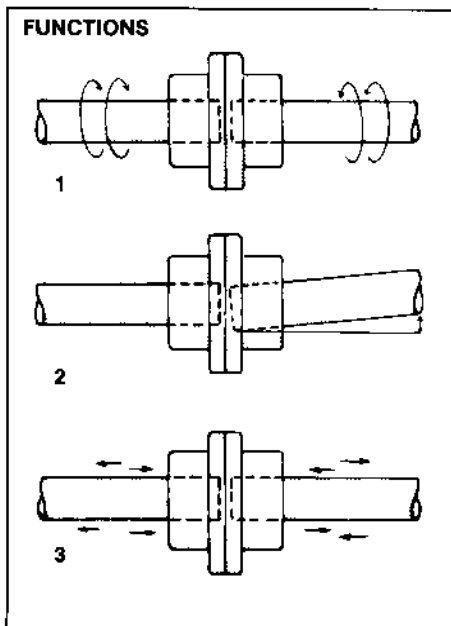
A flexible coupling is necessary since it is practically impossible to achieve and maintain perfect alignment of coupled rotating shafts. During initial assembly and installation, precise alignment of the shaft axes is not only difficult to achieve but in many cases it is economically unfeasible. During operation, alignment is even more difficult to maintain. Shaft misalignment — caused by uneven bearing wear, flexure of structural members, settling of foundations, thermal expansion, shaft deflection and other factors — is an operating certainty. Because these factors are extremely difficult to control, a flexible coupling serves as an ideal answer to compensate or minimize the effects of unavoidable misalignment and end movement of coupled shafts.

A flexible coupling must provide three basic functions:

1. Physically couple together two rotating shafts for efficient transmission of mechanical power, transferring the torque of one shaft to the other, directly and with constant velocity.
2. Compensate for all types of misalignment between rotating, connected shafts without inducing abnormal stresses and loads on connected equipment, and without tangible loss of power.
3. Compensate for end or axial movement of the coupled shafts, preventing either shaft from exerting excessive thrust on the other and allowing each to rotate in its normal position.

Three types of misalignment must be effectively accommodated by a flexible coupling.

1. Parallel Offset — axes of connected shafts are parallel, but not in the same straight line.
2. Angular — axes of shafts intersect at center point of coupling, but not in the same straight line.
3. Combined Angular-Offset — axes of shafts do not intersect at point of coupling and are not parallel.



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Amerigear Fully-Crowned Teeth (Fig. 1) Crowned Flanks, Crowned Tips, Crowned Chamfers — recognized as the ultimate in gear tooth design and the secret of superior mechanical power transmission! Increased tooth contact area improves the load-carrying capacity of the teeth regardless of operating conditions and provides "ball-and-socket" piloting action at all misalignments. As a result, connected equipment is able to operate at higher torques, speeds, and misalignments with resultant longer life.

Rigid, strong, "floating" sleeve (Fig. 2) A floating sleeve, containing internally-cut gear teeth at opposite ends, is made from medium carbon steel. In effect, it provides a "bridge" between driving and driven gear meshes. It can be furnished as a continuous, one-piece sleeve ... or made in two halves and bolted together.

Precision-machined identical hubs (Fig. 3) Two identical hubs, machined to close tolerances, contain external Fully-Crowned Gear Teeth which totally engage internal teeth of the sleeve. Fully-Crowned Teeth enable coupling to operate longer, with minimum backlash while assuring free axial movement of connected shafts.

Positive dust-tight seals (Fig. 4) Buna-N O-ring seals keep contamination out ... vital lubricant in. They are designed to accommodate temperatures up to 250°F. For temperatures of 400°F continuous and 550°F for short periods, Viton O-ring seals are available. These are easily installed without removing coupling hub and sleeve from shafting.

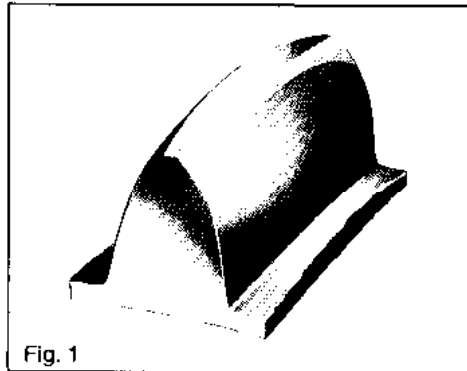


Fig. 1

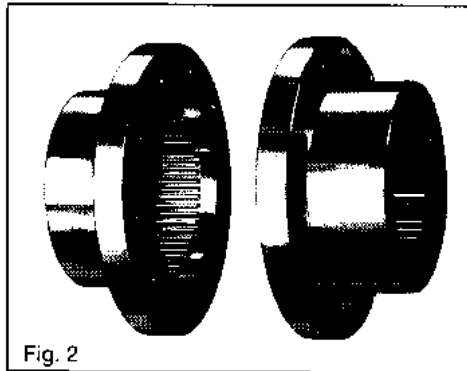


Fig. 2

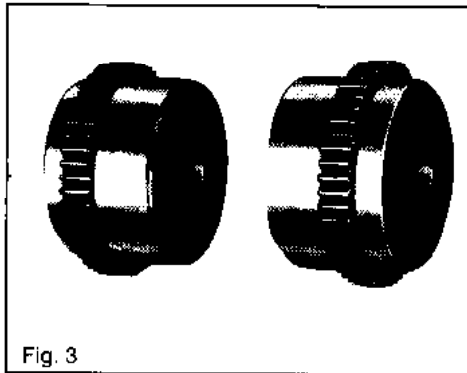


Fig. 3

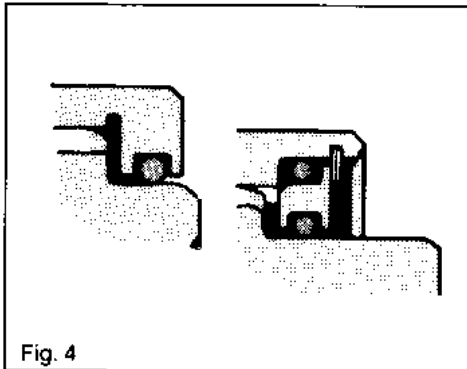
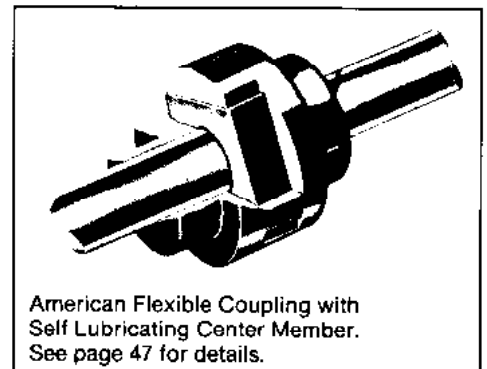


Fig. 4

American®

Operating advantages The American Flexible Coupling is a simplified and efficient unit. It performs all of the required functions of a flexible coupling and compensates for angular misalignment up to $\pm 1^\circ$ in standard applications. But it will compensate for many times this amount without strain to the connected equipment or loss of power for short periods, should an unforeseen alignment condition arise. It is ideal for blind assembly or vertical applications.

The Coupling functions basically on the well-known "Oldham" principle, modified and improved to accommodate maximum shaft misalignment with greater efficiency, easy installation, inspection and servicing. It transmits torque through an intermediate square floating member, and compensates for all three types of misalignments by the combined sliding actions between the closely fitting center member and the adjacent driving and driven jaw flanges.



American Flexible Coupling with Self Lubricating Center Member. See page 47 for details.

Amerigear

Flexible Couplings

Ordering Information

1. Obtain Shaft Sizes Compare shaft sizes of driving and driven equipment with listed maximum bores of desired Series or Type coupling to determine "tentative" coupling size.

NOTE: Maximum bores are listed on pages 8 and 9 for F Type couplings and on page 29 for C Type couplings.

2. Compute effective HP/100 RPM or torque to be transmitted Select a service factor from adjacent table. Determine HP/100 RPM as follows:

$$\text{HP/100 RPM (effective)} = \frac{\text{HP transmitted} \times 100 \times \text{S.F.}}{\text{RPM}}$$

or determine Torque (in.-lbs.) as follows:

$$\text{Torque (effective)} = \frac{\text{HP/100} \times 630}{\text{(effective)}}$$

or

$$\text{Torque (effective)} = \frac{\text{HP transmitted} \times 63,000 \times \text{S.F.}}{\text{RPM}}$$

Confirm "Tentative" Coupling size or increase to a size which has a HP/100 RPM or torque rating equal to or greater than value computed above.

3. Check Maximum Speed of Application Refer to page 34 for maximum speed ratings. These speeds are given only as a guide, since the maximum speed depends on the system characteristics.

4. Check Space Limitations Dimensions of the selected coupling should be compared with space provided in the application to assure proper clearances. Shaft extensions, separation, and clearances to align coupling should be checked.

Example A 250-HP electric motor is to drive a centrifugal pump at 1750 RPM. Motor shaft size is 2½". Pump shaft size is 2". Bore size for Series F and Series C, Size 202 will accommodate the 2½" shaft.

$$\text{HP/100 RPM} = \frac{250 \times 100 \times 1.5}{1750} = 21.4$$

Both Series F and Series C, Size 202 have capacities of 50 HP/100 RPM.

Note: Series F and Series C, Size 202 will accommodate a 2½" shaft with standard square key. In this example, the rating of 50 HP/100 RPM provides a large margin of safety.

Recommended Service Factors (S.F.)

In order to provide for the dynamic torque which must be transmitted, it may be necessary to increase the horsepower to be transmitted by a factor which will allow for momentary increases in torque due to the characteristics of the equip-

ment. The service factors shown in the table below provide a basis for estimating this allowance for specific combination of connected equipment.

These factors are derived from lengthy service experience with average applications — and they are to be considered as a general guide. For conditions not covered by the table, good judgment must be exercised and a factor selected by referring to the type of equipment most closely approximating the type of application being considered, or by detailed analysis of the dynamics of the equipment.

LOAD	DRIVEN EQUIPMENT	TYPE DRIVER		
		Motor or Turbine	Hydraulic Drive	Reciprocating Engine
UNIFORM	Centrifugal Pumps • Conveyors — Even Loaded • Exciters • Fans and Blowers — Light Duty • Generators — Even Loaded • Mixers — Liquid	1.0	1.25	1.50
LIGHT SHOCK	Centrifugal Pumps • Generators — Pulsating Load • Grinders • Hydraulic Pumps • Kilns • Line Shafting • Machine Tools • Oscillating Pumps • Textile Machinery • Woodworking Machinery	1.5	1.75	2.0
MEDIUM SHOCK	Air Compressors — Multi-Cylinder • Ball and Rod Mills • Cranes • Elevators • Hoists • Punch Presses • Reciprocating Pumps • Shears • Ship Drives • Welding Generators	2.0	2.25	2.5
HEAVY SHOCK	Air Compressors — Single Cylinder • Dredges • Drilling Rigs • Mine Machinery • Rolling Mill Drives • Rubber Mixers	2.5	2.75	3.0
EXTREME SHOCK	Ore Crushers • Barstock Shears • Vibrating Conveyors	3.0	3.5	4.0

For operating speeds less than 100 RPM, service factors may be reduced depending upon application. Refer to Ameridrives International for appropriate recommendations.

When Ordering, Specify Following Information

1. Quantity and delivery requirements.
2. Shaft or bore sizes and keyway dimensions. Give exact dimensions with tolerances.
3. Load — horsepower and/or torque at a specific RPM. State normal and maximum conditions.
4. Speed — minimum, normal and maximum.
5. Application — type of driver and driven equipment.
6. Coupling Series, Type and Size.
7. Space limitations — envelope dimensions, shaft extensions and shaft spacing.
8. Unusual misalignment conditions.
9. Modifications — setscrews, tapered bores, special keys, hub cut-off, counterbores or others.
10. Unusual operating conditions — ambient temperatures and atmospheres.

Specify Following Information for Specific Couplings

Series FM and CM — Mill-motor Type: Motor frame number plus drawing detail of shaft if possible.

Series FE — Spacer Type: Shaft separation: Specify shrouded or exposed bolt.

Series FS and CS — Tandem Type: State if floating shaft to be supplied. Specify mounting arrangement and shaft spacing.

Series FA and CA — Axial Travel Type: Amount of travel. Shaft extension and separation.

Series FD, FDC — Disconnect Type: Specify which bore is to be in the disengaging hub. Describe shifting mechanism.

Series FPH, FSPH — Shear Pin: State shear torque and quantity of spare shear pins.

Limited End Float Variation: Specify allowable end float.

Recommended Bore Tolerances

- Recommended standard bore tolerances for interference and clearance fits are shown in Tables A and B respectively.
- Bore tolerances conform to AGMA 9002-A86 standards.

Interference Fits Unless specified, bores will be furnished with an interference fit.

When **shaft sizes only** are stated on order and they consist of fractional or decimal dimensions without tolerance, the bore will be sized for an interference fit in accordance with Table A. If exact **shaft size** and tolerance do not agree with tables, the largest shaft dimension will be considered "basic" and the standard negative bore tolerance will be applied.

Nominal Bore Range	Shaft Tolerance	Bore Tolerance	Interference Range
Thru 1.5000	+ .0000 - .0005	- .0005 - .0010	+ .0000 - .0010
Over 1.5000 Thru 3.0000	+ .0000 - .0010	- .0010 - .0020	+ .0000 - .0020
Over 3.0000 Thru 4.0000		- .0015 - .0030	- .0005 - .0030
Over 4.0000 Thru 5.0000		- .0020 - .0035	- .0010 - .0035
Over 5.0000 Thru 7.0000		- .0025 - .0040	- .0015 - .0040
Over 7.0000 Thru 8.0000		- .0030 - .0050	- .0020 - .0050
Over 8.0000 Thru 9.0000		- .0035 - .0055	- .0025 - .0055

Clearance Fits If shaft sizes are listed as fractional or decimal dimensions without tolerance, the bore will be sized in accordance with Table B. If **exact shaft size** and tolerance are given, but tolerance does not agree with Table B, the largest shaft dimension will be considered as "basic" and the standard bore tolerance will be applied.

Table B conforms to AGMA 9002-A86 Class I.

Nominal Bore Range	Shaft Tolerance	Bore Tolerance	Clearance Range
Thru 1.5000	+ .0000 - .0005	+ .0010 - .0000	+ .0015 - .0000
Over 1.5000 Thru 2.0000	- .0000 - .0010	+ .0010 - .0000	+ .0020 - .0000
Over 2.0000 Thru 6.5000		- .0015 - .0000	+ .0025 - .0000

Example

Shaft Size — 2.000 (Basic Size)
 1.999 (With Tolerance)

Interference Fit
 Coupling Bore 1.999
 1.998

Clearance Fit
 Coupling Bore 2.001
 2.000

Nominal Bore Range		Coupling Keyway Inches		
Over	To Include	Width	Depth Sq. Key	Depth Red. Key
.438	.562	.125	.062	.047
.562	.875	.188	.094	.062
.875	1.250	.250	.125	.094
1.250	1.375	.312	.156	.125
1.375	1.750	.375	.188	.125
1.750	2.250	.500	.250	.188
2.250	2.750	.625	.312	.219
2.750	3.250	.750	.375	.250
3.250	3.750	.875	.438	.312
3.750	4.500	1.000	.500	.375
4.500	5.500	1.250	.625	.438
5.500	6.500	1.500	.750	.500
6.500	7.500	1.750	.875	.750
7.500	9.000	2.000	1.000	.750

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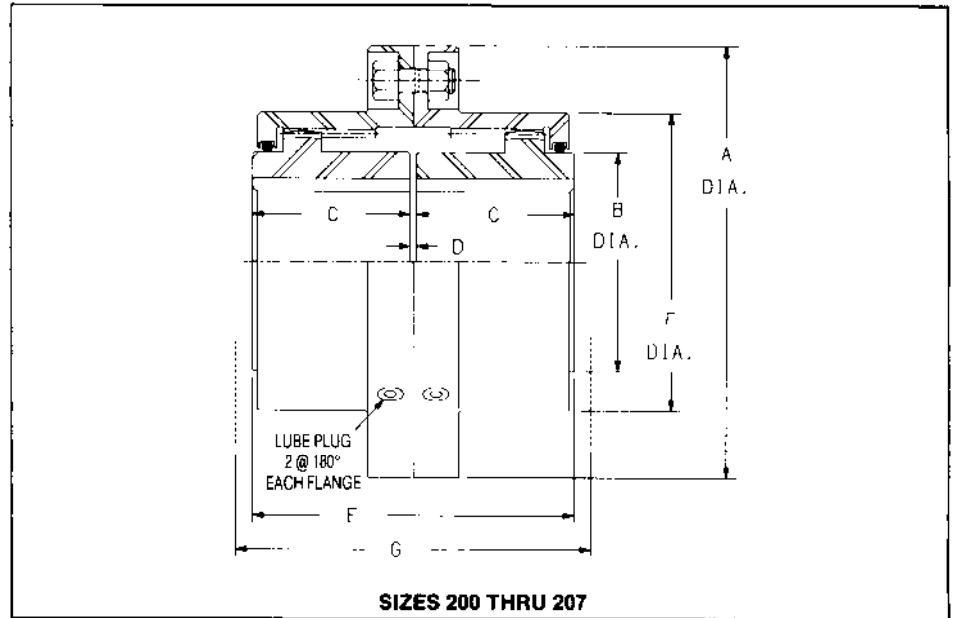
Flexible Couplings

Series F Sizes 200-207

**Flanged Sleeve —
 Double-Engagement Type**

Application: Meets requirements of all standard applications for shaft sizes up to 10.25 diameter. Compensates for all three types of misalignment.

Description: Amerigear 200 Series F Flexible Coupling is designed with bolted center flanges to facilitate installation and alignment. Optimum separation of gear meshes permits high parallel offset capacity. Flanged-sleeve design makes possible minimum distances between bearing housings to facilitate shaft alignment. In addition, 200 Series hubs are designed with a greater bore capacity.



F Size	Maximum Bore		Parallel Offset Capacity	Load Capacity		DIMENSIONS						
	Square Key	Reduced Key		HP Per 100 R.P.M.	Torque In.-Lbs. x 10 ³	A	B	C	D	E	F	G**
*200	.81	.88	.023	3	1.9	2.94	1.25	1.06	.12	2.25	1.94	2.88
*201	1.25	1.31	.042	5	3.2	3.56	1.75	1.38	.12	2.88	2.56	3.50
*201¼	1.63	1.75	.057	12	7.6	4.00	2.25	1.69	.12	3.50	3.00	4.12
201½	2.25	2.38	.058	27	17.0	6.00	3.12	1.94	.12	4.00	3.93	4.75
202	2.75	2.88	.079	50	31.5	7.00	4.00	2.44	.12	5.00	4.86	6.00
202½	3.50	3.75	.102	85	53.6	8.38	4.88	3.03	.19	6.25	5.88	7.25
203	4.00	4.25	.119	150	94.5	9.44	5.75	3.59	.19	7.38	6.88	8.50
203½	4.50	4.75	.142	225	142.0	11.00	6.50	4.19	.25	8.62	7.90	10.00
204	5.50	5.88	.164	340	214.0	12.50	7.75	4.75	.25	9.75	9.24	11.00
204½	6.25	6.75	.187	515	324.0	13.62	9.00	5.31	.31	10.94	10.37	12.25
205	7.00	7.12	.218	660	416.0	15.31	9.50	6.03	.31	12.38	11.44	13.75
205½	7.50	7.62	.245	875	551.0	16.56	10.50	6.62	.31	13.56	12.69	15.25
206	8.25	8.62	.275	1,190	750.0	18.00	11.75	7.41	.31	15.12	13.75	16.50
207	9.62	10.25	.314	1,640	1,033.0	20.75	13.50	8.69	.38	17.75	16.00	19.25

*SIZES 200, 201 AND 201¼ FLANGE FASTENERS ARE SELF-LOCKING SOCKET HEAD CAP SCREWS — ONE FLANGE TAPPED.

SIZES 201½-205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADDITIONAL COST. **CLEARANCE FOR ALIGNING COUPLING.

SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.

MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41. ADDITIONAL DETAILS, PAGE 42. WEIGHTS AND WR², PAGE 38. MODIFICATIONS AND VARIATIONS, PAGES 23-28. MAXIMUM SPEEDS, PAGE 34.

COMBINED ANGULAR AND PARALLEL OFFSET SHOULD NOT EXCEED ± 1½° PER GEAR MESH.

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity

All Amerigear Series F Couplings incorporate the following engineered features:

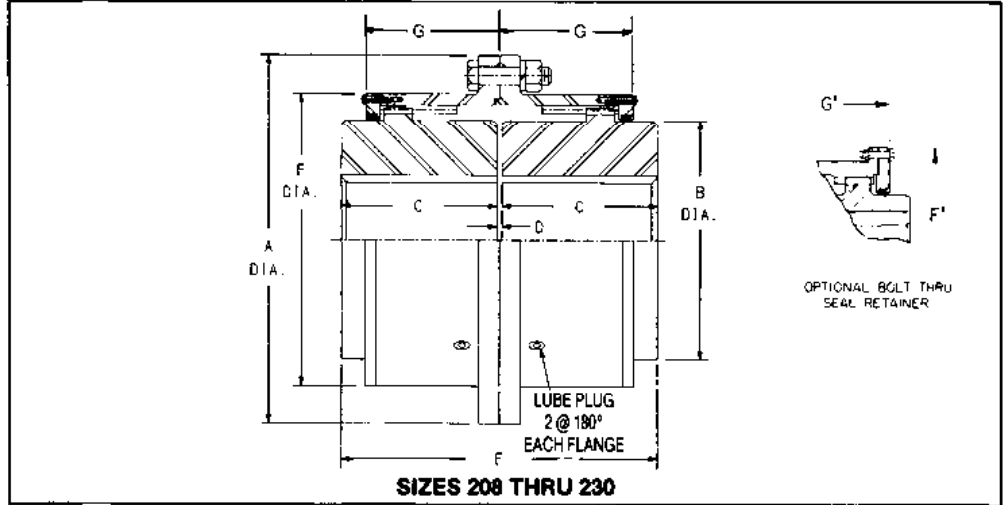
- ± 1½° angular misalignment capacity per gear mesh.
- Torque ratings at full misalignment - in excess of normal requirements for average applications.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in ... contaminants out. Seals enshrouded to prevent damage.

Series F Sizes 208-230

Flanged Sleeve — Double-Engagement Type

Application: Meets requirements of severe service conditions and larger shaft sizes up to 46" diameter. Compensates for all three types of misalignment.

Description: Heavy-duty Amerigear Series F Flexible Coupling (Sizes 208-230) contains the same basic design features as Series F (Sizes 200-207), described on page 8... however, misalignment capacity is $\pm 3/4^\circ$. Major components are fully-machined from medium carbon steel.



F Size	LOAD CAPACITY*		Parallel Offset Capacity In.	DIMENSIONS									Opt. Bolt Through Seal Retainer		
	HP Per 100 RPM	Torque In.-Lbs. x 10 ⁶		A	B	C	D	E	F	G	Parallel Offset	F'	G'		
208	2,380	1.50	.164	23.25	15.62	9.75	.38	19.88	18.38	8.38	.164	20.62	6.38		
209	2,700	1.70	.181	26.00	17.50	10.75	.50	22.00	20.50	9.19	.181	22.75	9.19		
210	3,300	2.08	.200	28.00	19.00	12.00	.50	24.50	22.38	10.00	.200	25.12	10.00		
211	5,800	3.65	.216	30.50	21.00	13.00	.50	26.50	24.75	10.91	.216	26.75	10.91		
212	7,700	4.86	.228	33.00	23.00	14.00	.50	28.50	26.75	11.59	.228	28.75	11.59		
213	10,000	6.31	.249	35.75	25.00	15.00	.75	30.75	28.75	12.47	.249	30.75	12.47		
214	12,700	8.02	.262	38.00	27.00	16.00	.75	32.75	30.75	13.09	.262	32.75	13.09		
215	15,300	9.65	.275	40.50	29.00	17.00	.75	34.75	32.75	13.72	.275	35.50	13.72		
216	17,400	10.96	.203	44.50	30.50	18.00	1.00	37.00	35.50	11.34	.294	39.50	14.84		
218	23,200	14.62	.203	48.50	34.50	20.00	1.00	41.00	39.50	11.47	.347	43.50	16.97		
220	30,000	18.95	.203	52.50	38.50	22.00	1.00	45.00	43.50	11.59	.399	48.00	19.09		
222	38,000	23.98	.203	58.00	42.50	24.00	1.00	49.00	48.00	11.75	.451	52.00	21.50		
224	48,800	30.72	.203	62.88	46.50	26.00	1.00	53.00	52.00	11.91	.504	56.00	23.41		
226	63,000	39.70	.203	69.00	50.00	28.00	1.00	57.00	57.00	12.22	.556	61.00	25.72		
228	81,900	51.61	.203	73.00	54.00	30.00	1.00	61.00	61.00	12.69	.609	65.00	28.13		
230	94,600	59.70	.203	77.00	58.00	32.00	1.00	65.00	65.00	12.69	.609	69.00	28.13		

*IF HIGHER TORQUE CAPACITY IS REQUIRED AND SIZE IS RESTRICTED, CONSULT AMERIDRIVES INTERNATIONAL.
 CENTER FLANGE DETAILS, PAGE 41. ADDITIONAL DETAILS, PAGE 43. WEIGHTS AND WR², PAGE 39. MODIFICATIONS AND VARIATIONS, PAGES 23-28. LARGER SIZES AVAILABLE. MAXIMUM SPEEDS, PAGE 34.
 SIZES 208-230 HAVE EXPOSED BOLTS.

SINGLE AND DOUBLE KEY BORE CAPACITY — FLEXIBLE HUBS

F Size	1 SQUARE KEY			1 REDUCED KEY			2 SQUARE KEYS			2 REDUCED KEYS				
	Max. Bore Inches	W. - Inches	H. - Inches	Max. Bore Inches	W. - Inches	H. - Inches	Max. Bore Inches	W. - Inches	H. - Inches	Max. Bore Inches	W. - Inches	H. - Inches		
208	11.250	2.900	1.250	12.250	2.900	.812	8.823	12.000	1.750	.875	12.750	1.750	.825	8.953
209	12.250	3.000	1.500	13.375	3.000	1.000	7.831	13.800	2.000	1.000	14.500	2.000	.888	7.875
210	13.750	3.000	1.500	16.000	3.000	1.000	8.380	14.875	2.000	1.000	15.750	2.000	.688	8.500
211	14.250	3.500	1.750	15.250	3.500	1.250	8.703	15.500	2.750	1.375	16.500	2.750	.875	8.000
212	15.250	3.750	1.875	16.250	3.750	1.375	9.281	17.000	3.000	1.500	16.000	3.000	1.000	9.937
213	18.250	4.000	2.000	17.250	4.000	1.500	9.875	18.500	3.250	1.625	19.500	3.250	1.125	10.750
214								20.000	3.500	1.750	21.000	3.500	1.250	11.825
215								21.500	3.500	1.750	22.500	3.500	1.250	12.375
216								23.000	3.750	1.875	24.000	3.750	1.375	13.250
218								26.000	4.000	2.000	27.000	4.000	1.500	14.875
220								29.000	4.500	2.250	30.000	4.500	1.750	18.582
222								31.750	5.000	2.500	33.000	5.000	1.875	18.187
224								34.500	6.000	3.000	36.000	6.000	2.250	20.000
226								37.000	6.000	3.000	39.000	6.000	2.250	21.582
228								40.000	6.000	3.000	42.000	6.000	2.250	23.062
230								44.000	6.000	3.000	46.000	6.000	2.250	25.082

NOTE: SINGLE KEYS NOT RECOMMENDED FOR SIZES 214 AND LARGER. CONSULT AMERIDRIVES INTERNATIONAL IF DOUBLE KEYS NOT PRACTICAL.

*MAXIMUM DISTANCE FROM BOTTOM OF KEYWAY TO BORE AXIS.
 MAXIMUM BORES AND PULLER HOLE DATA, PAGE 40.

Amerigear

Flexible Couplings

Series FS

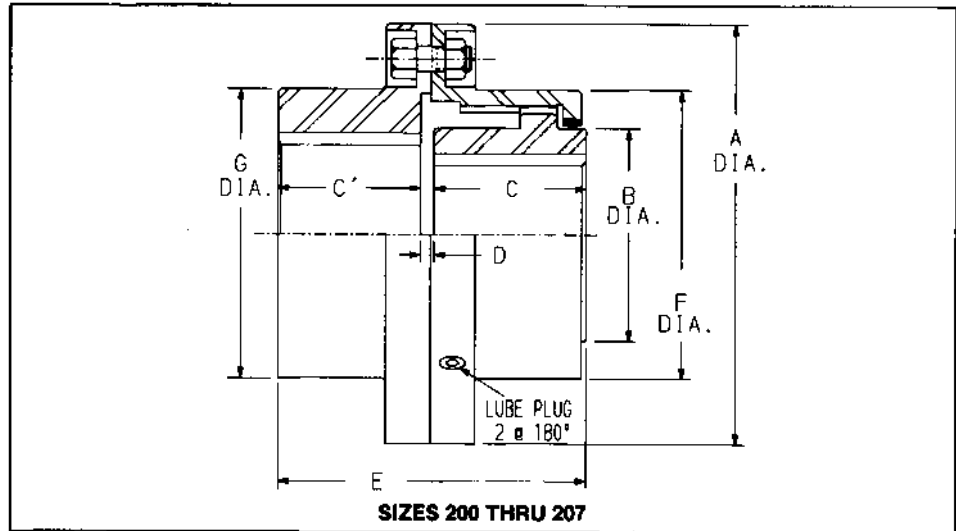
Sizes 200-207

**Flanged Sleeve —
Single-Engagement Type**

Application: Used primarily in tandem pairs, connected by intermediate floating shaft ... or as individual unit in conjunction with a driver or driven shaft having a self-aligning support bearing. When used singly, compensates for angular misalignment only.

Description: Amerigear Series FS Flexible Coupling consists of one standard flexible half coupling and one rigid half. The bolted center flanges facilitate installation and alignment.

If used in tandem assemblies, see page 24 for shaft sizes and page 37 for speed limits.



F Size	Max. Bore Flex Half		Max. Bore Rigid Half		Load Capacity		DIMENSIONS							
	Square Key	Reduced Key	Square Key	Reduced Key	HP Per 100 R.P.M.	Torque In.-Lbs. x 10 ³	A	B	C	C'	D	E	F	G
200	.81	.88	1.31	1.38	3	1.9	2.94	1.25	1.06	1.05	.08	2.19	1.94	1.94
*201	1.25	1.31	1.75	1.88	5	3.2	3.56	1.75	1.38	1.23	.08	2.69	2.56	2.56
201 1/4	1.63	1.75	2.00	2.13	12	7.6	4.00	2.25	1.69	1.48	.08	3.25	3.00	3.00
201 1/2	2.25	2.38	2.69	2.88	27	17.0	6.00	3.12	1.94	1.78	.16	3.88	3.93	3.93
202	2.75	2.88	3.25	3.50	50	31.5	7.00	4.00	2.44	2.28	.16	4.88	4.86	4.88
202 1/2	3.50	3.75	4.00	4.25	85	53.6	8.38	4.88	3.03	2.91	.19	6.12	5.88	5.88
203	4.00	4.25	4.62	5.00	150	94.5	9.44	5.75	3.59	3.41	.19	7.19	6.88	6.88
203 1/2	4.50	4.75	5.38	5.75	225	142.0	11.00	6.50	4.19	3.97	.22	8.38	7.90	7.90
204	5.50	5.88	6.25	6.75	340	214.0	12.50	7.75	4.75	4.44	.31	9.50	9.24	9.24
204 1/2	6.25	6.75	6.88	7.38	515	324.0	13.82	9.00	5.31	5.00	.34	10.88	10.37	10.18
205	7.00	7.12	7.88	8.38	660	416.0	15.31	9.50	6.03	5.75	.34	12.12	11.44	11.44
205 1/2	7.50	7.82	8.75	9.25	875	551.0	16.58	10.50	6.62	6.12	.34	13.09	12.89	12.69
206	8.25	8.62	9.38	9.88	1,190	750.0	18.00	11.75	7.41	7.16	.41	14.97	13.75	13.75
207	8.62	10.25	10.75	11.50	1,640	1,033.0	20.75	13.50	8.69	8.44	.50	17.62	16.00	15.75

*SIZES 200, 201 AND 201 1/4 FLANGE FASTENERS ARE SELF-LOCKING SOCKET HEAD CAP SCREWS - RIGID FLANGE TAPPED.
 SIZES 201 1/2 - 205 1/2 HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS: EXPOSED BOLTS (EB) AVAILABLE UPON REQUEST — NO ADDITIONAL COST.
 SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.
 MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41. ADDITIONAL DETAILS, PAGE 42.
 WEIGHTS AND WR², PAGE 38. MODIFICATIONS AND VARIATIONS, PAGES 23-28. MAXIMUM SPEEDS, PAGE 34.
 COMBINED ANGULAR AND PARALLEL OFFSET SHOULD NOT EXCEED ± 1 1/2° PER GEAR MESH.
 PILOT RINGS AVAILABLE. SEE PAGE 41 FOR DIMENSIONS OF PILOT RINGS.

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity
 All Amerigear Series FS Couplings incorporate the following engineered features:

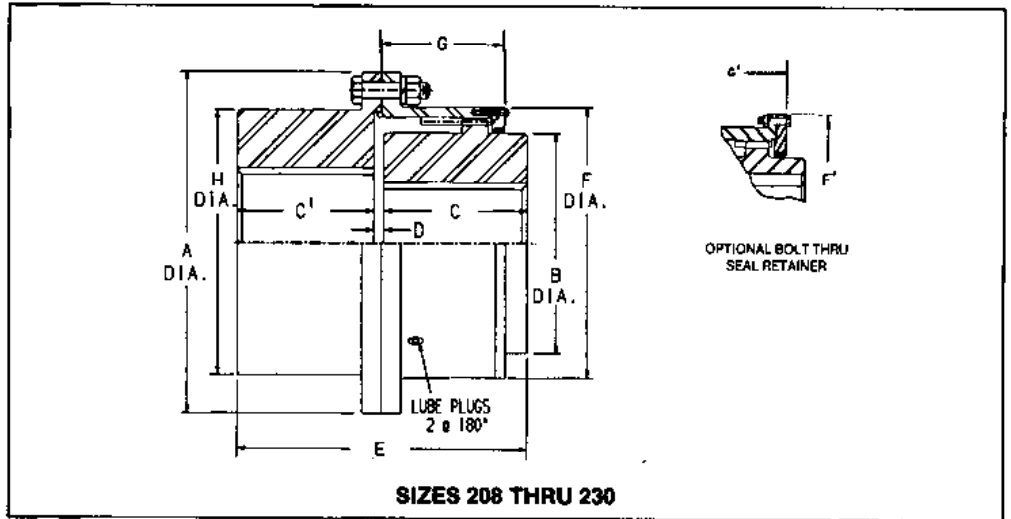
- ± 1 1/2° angular misalignment capacity per gear mesh. Used singly, can only accommodate angular misalignment.
- Torque ratings at full misalignment - in excess of normal requirements for average applications.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in ... contaminants out. Seals enshrouded to prevent damage.

Series FS Sizes 208-230

Flanged Sleeve — Single-Engagement Type

Application: Meets requirements of severe service conditions and larger shaft sizes up to 49" diameter. Used primarily in tandem pairs, connected by intermediate floating shaft ... or as individual unit in conjunction with a driver or driven shaft having a self-aligning bearing. When used singly, compensates for angular misalignment only.

Description: Amerigear Series FS Flexible Coupling (Sizes 208-230) contains the same basic design features as Series FS (Sizes 200-207), described on page 10 ... however, angular misalignment capacity is $\pm 3/4^\circ$. Major components are fully-machined from medium carbon steel.



SIZES 208 THRU 230

FS Size	LOAD CAPACITY**		DIMENSIONS										Optional Bolt Through Seal Retainer	
	HP Per 100 RPM	Torque In.-Lbs. x 10 ³	A	B	C	C'	D	E	F	G	H	F'	G'	
208	2,380	1.50	23.25	15.62	9.75	9.62	.50	19.68	18.38	8.38	18.00	20.62	8.38	
209	2,700	1.70	26.00	17.50	10.75	10.69	.56	22.00	20.50	9.19	20.00	22.75	9.19	
210	3,300	2.08	28.00	19.00	12.00	11.88	.62	24.50	22.38	10.00	22.00	25.12	10.00	
211	5,800	3.65	30.50	21.00	13.00	12.88	.82	26.50	24.75	10.91	24.75	26.75	10.91	
212	7,700	4.86	33.00	23.00	14.00	13.88	.82	28.50	26.75	11.59	26.75	28.75	11.59	
213	10,000	6.31	35.75	25.00	15.00	15.00	.75	30.75	28.75	12.47	28.75	30.75	12.47	
214	12,700	8.02	38.00	27.00	16.00	16.00	.75	32.75	30.75	13.09	30.75	32.75	13.09	
215	15,300	9.65	40.50	29.00	17.00	17.00	.75	34.75	32.75	13.72	32.75	35.50	13.72	
216	17,400	10.96	44.50	30.50	18.00	18.00	1.00	37.00	35.50	11.34	35.50	39.50	14.84	
218	23,200	14.62	48.50	34.50	20.00	20.00	1.00	41.00	39.50	11.47	39.50	43.50	16.97	
220	30,000	18.95	52.50	38.50	22.00	22.00	1.00	45.00	43.50	11.59	43.50	48.00	19.09	
222	38,000	23.98	58.00	42.50	24.00	23.88	1.12	49.00	48.00	11.75	48.00	52.00	21.50	
224	48,800	30.72	62.88	46.50	26.00	25.88	1.12	53.00	52.00	11.91	52.00	56.00	23.41	
226	63,000	39.70	69.00	50.00	28.00	27.88	1.12	57.00	57.00	12.22	57.00	61.00	25.72	
228	81,900	51.61	73.00	54.00	30.00	29.88	1.12	61.00	61.00	12.68	61.00	65.00	28.13	
230	94,800	59.70	77.00	58.00	32.00	31.88	1.12	65.00	65.00	12.69	65.00	69.00	28.13	

*IF HIGHER TORQUE CAPACITY IS REQUIRED AND SIZE IS RESTRICTED, CONSULT AMERIDRIVES.
 LARGER SIZES AVAILABLE.

SIZES 208-230 HAVE EXPOSED BOLTS (EB). CENTER FLANGE DETAILS, PAGE 41. ADDITIONAL DETAILS, PAGE 43. MAXIMUM SPEEDS, PAGE 34. WEIGHTS AND WR², PAGE 39. MODIFICATIONS AND VARIATIONS, PAGES 23-28.

MAXIMUM BORES FOR RIGID HALF

FS Size	1 SQUARE KEY			1 REDUCED KEY			K* Single Key	2 SQUARE KEYS			2 REDUCED KEYS			
	Max. Bore Inches	W. - Inches	H. - Inches	Max. Bore Inches	W. - Inches	H. - Inches		Max. Bore Inches	W. - Inches	H. - Inches	Max. Bore Inches	W. - Inches	H. - Inches	K* 2 Keys
208	11.500	3.000	1.500	12.500	3.000	1.000	7.062	12.375	2.000	1.000	13.000	2.000	.688	7.109
209	12.750	3.250	1.625	13.750	3.250	1.125	7.812	14.000	2.250	1.125	14.750	2.250	.750	8.031
210	14.500	3.500	1.750	16.250	3.500	1.250	8.796	15.500	2.750	1.375	16.250	2.750	.875	8.504
211	15.250	3.750	1.875	16.250	3.750	1.375	9.281	16.750	3.000	1.500	17.750	3.000	1.000	9.790
212	16.250	4.000	2.000	17.250	4.000	1.500	9.828	18.250	3.250	1.625	19.250	3.250	1.125	10.609
213								19.750	3.500	1.750	20.750	3.500	1.250	11.468
214								21.500	3.750	1.875	22.500	3.750	1.375	12.468
215								23.000	3.750	1.875	24.000	3.750	1.375	13.234
216								24.500	4.000	2.000	25.500	4.000	1.500	14.093
218								27.750	4.500	2.250	28.750	4.500	1.750	15.963
220								30.500	5.000	2.500	31.750	5.000	1.875	17.546
222								34.000	5.500	2.750	35.000	5.500	2.250	19.531
224								37.000	6.000	3.000	38.000	6.000	2.500	21.265
226								40.000	6.500	3.250	41.000	6.500	2.750	23.000
228								44.000	6.500	3.250	45.000	6.500	2.750	25.062
230								48.000	7.000	3.500	49.000	7.000	3.000	27.250

FOR FLEXIBLE HUB BORE CAPACITY (PAGE 9) AND PULLER HOLE DATA (PAGE 40) USE INFORMATION FOR SERIES F.

If used in tandem assemblies, consult Ameridrives for shaft size and speed limits

*MAXIMUM DISTANCE FROM BOTTOM OF KEYWAY TO BORE AXIS. REFERENCE DRAWING ON PAGE 40.

Amerigear

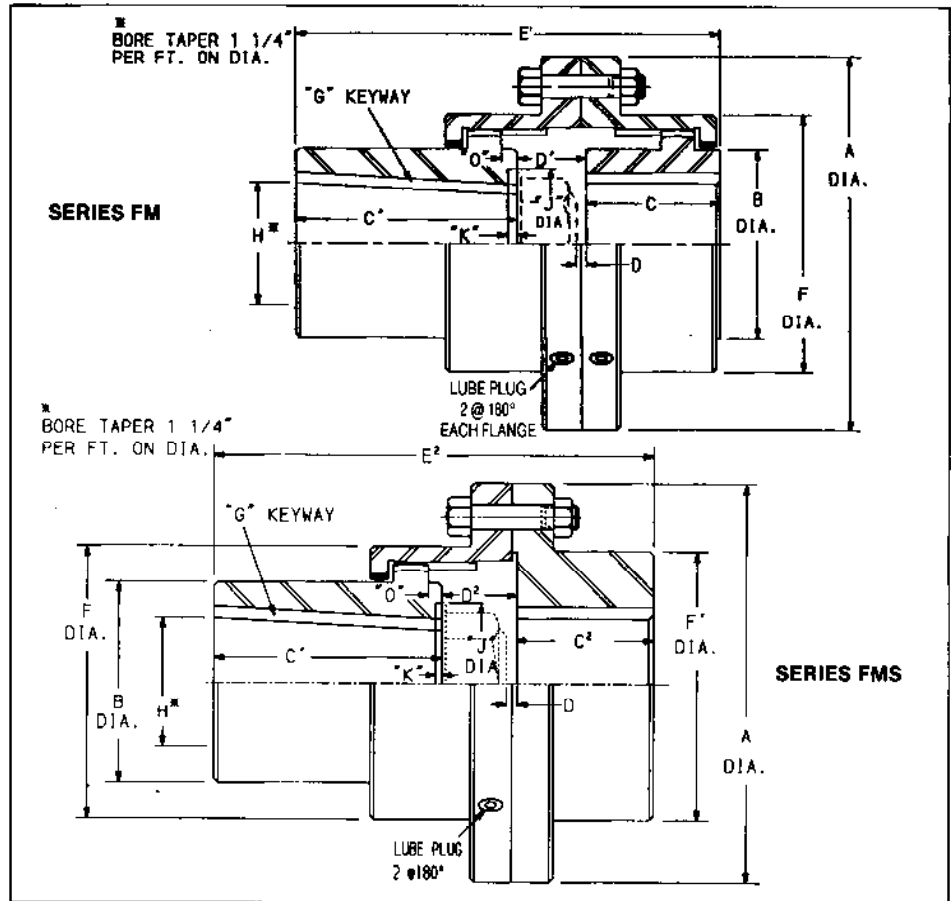
Flexible Couplings

Series FM, FMS Sizes 201½-206

Flanged Sleeve — Double- and Single-Engagement Mill Motor Type

Application: Designed for modern mill motor applications and standards demanding quick change-out of equipment for continuous and uninterrupted operation.

Description: Amerigear Series FM and FMS Flexible Couplings are designed with bolted center flanges to facilitate installation and alignment. Optimum separation of gear meshes permits relatively high parallel offset capacity. Flanged-sleeve design makes possible minimum distances between bearing housings to facilitate shaft alignment.



FM, FMS Size	Load Capacity		Parallel Offset Capacity In.	DIMENSIONS							
	HP Per 100 RPM	Torque In.-Lbs. x 10 ³		A	B	F	F'	FM		FMS	
								C	D	C ²	D
201½	27	17.0	.058	6.00	3.12	3.94	3.88	1.94	.12	1.78	.16
202	50	31.5	.079	7.00	4.00	4.86	4.88	2.44	.12	2.28	.16
202½	85	53.6	.102	8.38	4.88	5.88	5.75	3.03	.19	2.91	.19
203	150	94.5	.119	9.44	5.75	6.88	6.81	3.59	.19	3.41	.19
203½	225	142.0	.142	11.00	6.50	7.91	7.75	4.19	.25	3.97	.22
204	340	214.0	.164	12.50	7.75	9.25	9.06	4.75	.25	4.44	.31
204½	515	324.0	.197	13.62	9.00	10.41	10.19	5.31	.31	5.00	.34
205	860	416.0	.218	15.31	9.50	11.44	11.38	6.03	.31	5.75	.34
205½	875	551.0	.245	16.56	10.50	12.69	12.50	6.62	.31	6.12	.34
206	1,190	750.0	.275	18.00	11.75	13.75	13.50	7.41	.31	7.16	.41

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity

All Amerigear Series FM-FMS Couplings incorporate the following engineered features:

- Series FM compensates for all three types of misalignment. Series FMS compensates for angular misalignment.
- ± 1½° angular misalignment capacity per gear mesh.
- Torque ratings at full 1½° misalignment.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in . . . contaminants out. Seals enshrouded to prevent damage.

FM, FMS Size	AISE Frame No.		DIMENSIONS						VARIABLE DIMENSIONS			
			C'	O	K	J	G	H Bore @ Large End	FM		FMS	
							Keyway		D'	E'	D ²	E ²
201½	802	802	3.16	—	.16	2.81	500 × 250	1.7485/1.7495	.91	6.00	.94	5.88
	603, 604	803, 804	3.72	—	.22	2.81	.500 × 250	1.998/1.999	.91	6.56	.94	6.44
202	802	802	3.00	.19	—	—	.500 × 250	1.7485/1.7495	1.06	6.50	1.09	6.38
	603, 604	803, 804	3.50	.12	—	—	.500 × 250	1.998/1.999	1.12	7.06	1.16	6.94
	806	806	4.00	—	—	—	.500 × 250	2.498/2.499	1.25	7.69	1.28	7.56
202½	602	802	3.00	.55	—	—	.500 × 250	1.7485/1.7495	1.12	7.16	1.12	7.03
	603, 604	803, 804	3.50	.48	—	—	.500 × 250	1.998/1.999	1.19	7.72	1.19	7.59
	806	806	4.00	.36	—	—	.500 × 250	2.498/2.499	1.31	8.34	1.31	8.22
	808	808	4.50	.23	—	—	.750 × 250	2.998/2.999	1.44	8.97	1.44	8.84
	810	810	4.50	.11	—	—	.750 × 250	3.248/3.249	1.56	9.09	1.56	8.97
203	812	812	5.02	—	.015	4.25	.750 × 250	3.623/3.624	1.67	9.72	1.67	9.59
	604	804	3.50	.75	—	—	.500 × 250	1.998/1.999	1.19	8.28	1.19	8.09
	606	806	4.00	.62	—	—	.500 × 250	2.498/2.499	1.31	8.91	1.31	8.72
	608	808	4.50	.50	—	—	.750 × 250	2.998/2.999	1.44	9.53	1.44	9.34
	610	810	4.50	.38	—	—	.750 × 250	3.248/3.249	1.56	9.66	1.56	9.47
	612	812	5.00	.25	—	—	.750 × 250	3.623/3.624	1.69	10.28	1.69	10.09
203½	614	814	5.00	.12	—	—	1.000 × 375	4.2470/4.2485	1.81	10.41	1.81	10.22
	606	806	4.00	.97	—	—	.500 × 250	2.498/2.499	1.38	9.50	1.34	9.31
	608	808	4.50	.84	—	—	.750 × 250	2.998/2.999	1.50	10.19	1.47	9.94
	610	810	4.50	.72	—	—	.750 × 250	3.248/3.249	1.62	10.31	1.59	10.06
	612	812	5.00	.59	—	—	.750 × 250	3.623/3.624	1.75	10.94	1.72	10.69
	614	814	5.00	.47	—	—	1.000 × 375	4.2470/4.2485	1.88	11.06	1.84	10.81
204	616	816	5.50	.34	—	—	1.250 × 375	4.6220/4.6235	2.00	11.69	1.97	11.44
	610	810	4.50	1.06	—	—	.750 × 250	3.248/3.249	1.62	10.88	1.69	10.62
	612	812	5.00	.94	—	—	.750 × 250	3.623/3.624	1.75	11.50	1.81	11.25
	614	814	5.00	.81	—	—	1.000 × 375	4.2470/4.2485	1.88	11.62	1.94	11.38
	616	816	5.50	.69	—	—	1.250 × 375	4.6220/4.6235	2.00	12.25	2.06	12.00
	618	818	6.00	1.12	—	—	1.250 × 500	4.9970/4.9985	1.56	12.31	1.62	12.06
204½	612	812	5.00	1.30	—	—	.750 × 250	3.623/3.624	1.81	12.12	1.84	11.84
	614	814	5.00	1.17	—	—	1.000 × 375	4.2470/4.2485	1.94	12.25	1.97	11.97
	616	816	5.50	1.05	—	—	1.250 × 375	4.6220/4.6235	2.06	12.68	2.09	12.59
	618	818	6.00	1.48	—	—	1.250 × 500	4.9970/4.9985	1.62	12.94	1.66	12.66
	820	—	6.75	1.05	—	—	1.500 × 750	5.8720/5.8735	2.06	14.12	2.09	13.84
205	614	814	5.00	1.70	—	—	1.000 × 375	4.2470/4.2485	1.94	12.97	1.97	12.72
	616	816	5.50	1.58	—	—	1.250 × 375	4.6220/4.6235	2.06	13.59	2.09	13.34
	618	818	6.00	2.02	—	—	1.250 × 500	4.9970/4.9985	1.62	13.66	1.66	13.41
	620	—	6.75	1.58	—	—	1.500 × 750	5.8720/5.8735	2.06	14.84	2.09	14.59
	622	—	7.25	.95	—	—	1.500 × 750	6.2470/6.2485	2.69	15.97	2.72	15.72
206½	616	816	5.50	2.03	—	—	1.250 × 375	4.6220/4.6235	2.06	14.19	2.09	13.72
	618	818	6.00	2.47	—	—	1.250 × 500	4.9970/4.9985	1.62	14.25	1.66	13.78
	620	—	6.75	2.03	—	—	1.500 × 750	5.8720/5.8735	2.06	15.44	2.09	14.97
	622	—	7.25	1.41	—	—	1.500 × 750	6.2470/6.2485	2.69	16.56	2.72	16.09
	624	—	9.25	1.41	—	—	1.500 × 750	6.9970/6.9985	2.69	18.56	2.72	18.09
206	616	816	5.50	2.53	—	—	1.250 × 375	4.6220/4.6235	2.06	14.97	2.16	14.81
	618	818	6.00	2.97	—	—	1.250 × 500	4.9970/4.9985	1.62	15.03	1.72	14.88
	620	—	6.75	2.53	—	—	1.500 × 750	5.8720/5.8735	2.06	16.22	2.16	16.06
	622	—	7.25	1.91	—	—	1.500 × 750	6.2470/6.2485	2.69	17.34	2.78	17.19
	624	—	9.25	1.91	—	—	1.500 × 750	6.9970/6.9985	2.69	19.34	2.78	19.19

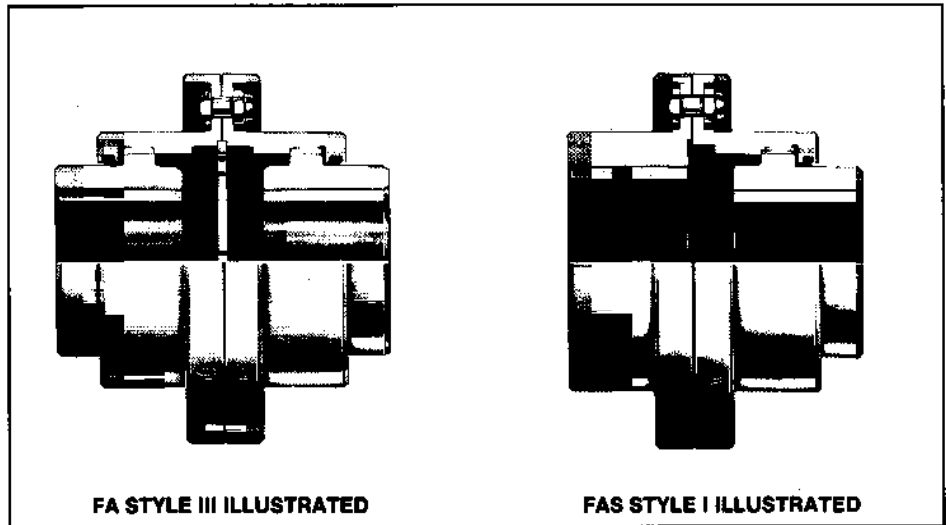
ALL MILL MOTOR FLANGES HAVE EXPOSED BOLTS (EB). MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40.
 FOR FRAME SIZES NOT SHOWN IN AISE COLUMN AND FOR OTHER TAPER BORE APPLICATIONS, SIZE COUPLING USING LOAD CAPACITIES ON PAGE 12 AND SERVICE FACTORS ON PAGE 6.
 MODIFICATIONS AND VARIATIONS, PAGES 23-28.
 MAXIMUM SPEEDS, PAGE 34.

Amerigear

Flexible Couplings

Series FA, FAS

A multitude of applications exist for axial travel or "slide" couplings. All gear-type couplings permit a minimal amount of travel to accommodate for bearing wear, shaft or rotor float, or thermal expansions. But many drive systems require a greater amount of travel. To fill these requirements Ameridrives has developed a series of axial travel couplings to accommodate most travel requirements. The FA Series includes three coupling styles. The FAS Series includes two styles. The chart below shows the make up of each. If further assistance is required in selecting or designing a coupling with axial travel capacity other than what is shown, consult Ameridrives or your local sales office.



Axial Coupling Type	Style No.	END A		END B	
		Hub Type	Sleeve Type	Hub Type	Sleeve Type
FA	I	Standard Hub Modified	Standard	Universal Hub Modified	Standard
FA	III	Universal Hub Modified	Standard	Universal Hub Modified	Standard
FA	X	Standard	Standard	Special	Long - w/Lip Seal
FAS	I	Rigid	—	Universal Hub Modified	Standard
FAS	V	Rigid	—	Special	Long - w/Lip Seal

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity
 All Amerigear Series FA and FAS Couplings incorporate the following engineered features:

- Fully-Crowned Gear Teeth—assures smooth action when adjusting for axial displacement with minimum resistance to slide.
- $\pm 1/2^\circ$ angular misalignment capacity per gear mesh. If greater capacity is required, consult Ameridrives.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in... contaminants out. Seals enshrouded to prevent damage.
- Many Series FA hubs are modified standard stock components.
- Many designs available to accommodate most travel requirements.

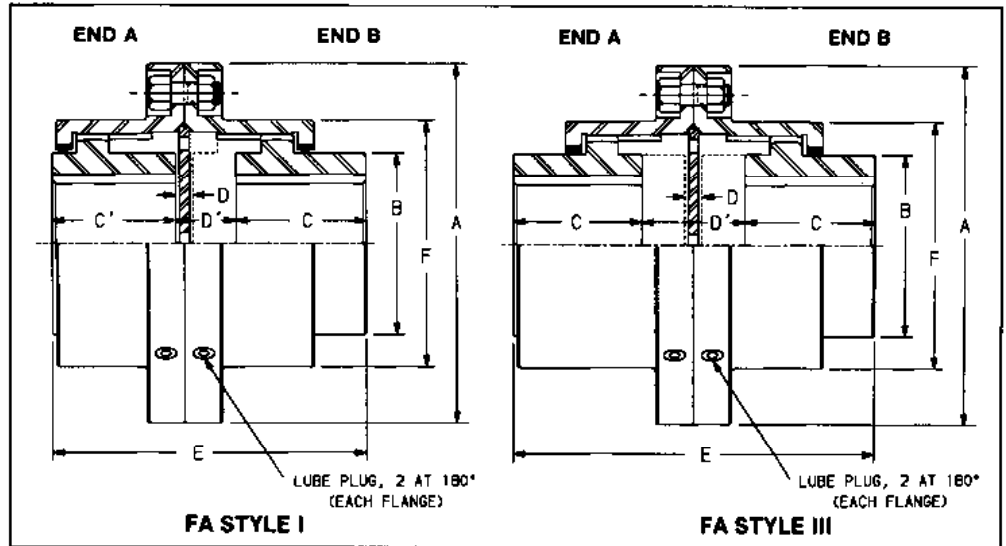
Series FA, Style I, III Sizes 201½-207

Style I
End A
 Standard Hub Modified
 Standard Sleeve

End B
 Universal Hub Modified
 Standard Sleeve

Style III
End A
 Universal Hub Modified
 Standard Sleeve

End B
 Universal Hub Modified
 Standard Sleeve



FA Style I Size	*** Parallel Offset Capacity	DIMENSIONS								
		A	B	C	C'	D	D'	E	F	Max. Travel
201½	.016	6.00	3.12	1.94	1.84	.31	.64	4.42	3.94	.33
202	.020	7.00	4.00	2.44	2.34	.31	.98	5.76	4.86	.67
202½	.026	8.38	4.88	3.03	2.94	.38	1.30	7.26	5.88	.92
203	.029	9.44	5.75	3.59	3.50	.38	1.61	8.70	6.88	1.23
203½	.035	11.00	6.50	4.19	4.09	.44	1.91	10.19	7.91	1.47
204	.039	12.50	7.75	4.75	4.56	.62	2.42	11.73	9.25	1.80
204½	.046	13.62	9.00	5.31	5.12	.69	2.52	12.95	10.41	1.83
205	.053	15.31	9.50	6.03	5.84	.69	2.98	14.86	11.44	2.30
205½	.058	16.56	10.50	6.62	6.44	.69	3.47	16.53	12.69	2.78
206	.069	18.00	11.75	7.41	7.16	.81	3.34	17.91	13.75	2.53
207	.084	20.75	13.50	8.69	8.38	1.00	3.62	20.69	16.00	2.62

FA Style III Size	*** Parallel Offset Capacity	DIMENSIONS								
		A	B	C	D	D'	E	F	Max. Travel	
201½	.013	6.00	3.12	1.94	.31	.97	4.84	3.94	.86	
202	.014	7.00	4.00	2.44	.31	1.66	6.53	4.86	1.34	
202½	.018	8.38	4.88	3.03	.38	2.22	8.28	5.88	1.84	
203	.018	9.44	5.75	3.59	.38	2.84	10.03	6.88	2.46	
203½	.022	11.00	6.50	4.19	.44	3.38	11.75	7.91	2.94	
204	.023	12.50	7.75	4.75	.62	4.22	13.72	9.25	3.60	
204½	.030	13.62	9.00	5.31	.69	4.34	14.97	10.41	3.66	
205	.032	15.31	9.50	6.03	.69	5.28	17.34	11.44	4.80	
205½	.033	16.56	10.50	6.62	.69	6.25	19.50	12.69	5.56	
206	.047	18.00	11.75	7.41	.81	5.88	20.69	13.75	5.06	
207	.061	20.75	13.50	8.69	1.00	6.25	23.62	16.00	5.25	

***COMBINED ANGULAR AND PARALLEL OFFSET SHOULD NOT EXCEED ± ½° PER GEAR MESH.
 SIZES 201½ - 205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) AVAILABLE UPON REQUEST — NO ADD'L. COST.
 SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS; SHROUDED BOLTS (SB) UPON REQUEST — NO ADD'L. COST.
 FOR MAXIMUM BORES AND LOAD CAPACITY, USE SERIES F INFORMATION, PAGE 8.
 MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41.
 TRAVEL AND DIMENSION "E" MAY BE DECREASED BY VARYING D AND D' (CONSULT AMERIDRIVES). MAX. SPEEDS, PAGE 34.

Amerigear

Flexible Couplings

Series FA, Style X Sizes 204-207

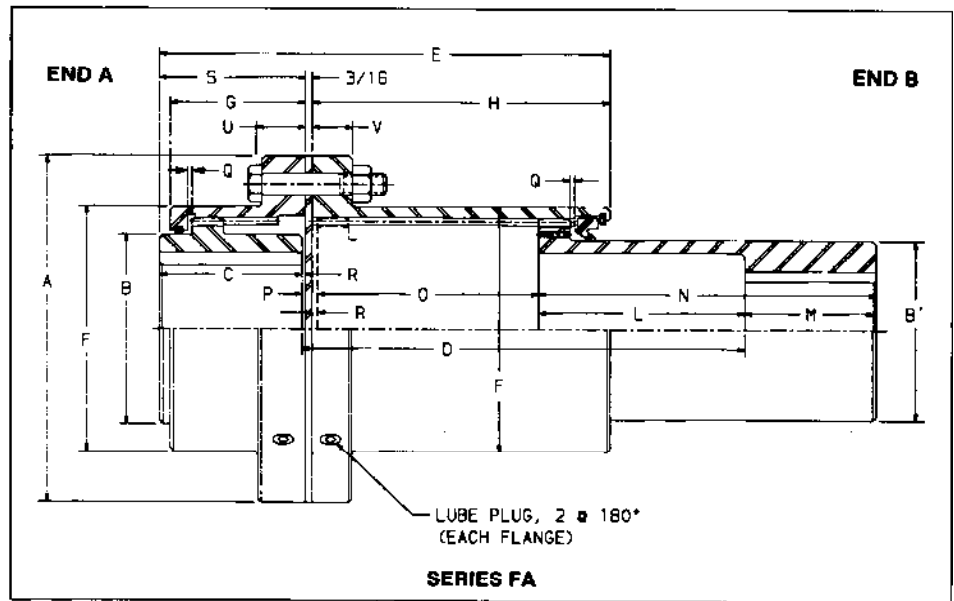
Style X

End A

Standard Hub
 Standard Sleeve

End B

Special Hub
 Long Sleeve with Lip Seal



FA Coupling Size Style X	Max. Bore Flex Half End "B" Square Key	A	E	G	F	S	B	B'	C, M	H	L
204	4.50	12.50	17.89	4.46	9.25	4.87	7.75	7.00	4.75	12.83	8.75
204½	5.50	13.62	19.28	4.98	10.41	5.47	8.00	8.38	5.31	13.62	8.44
205	6.31	15.31	20.41	5.67	11.44	6.19	9.50	9.00	6.03	14.03	8.22
205½	6.88	16.56	21.06	6.25	12.69	6.78	10.50	10.00	6.62	14.09	7.69
206	7.50	18.00	21.62	6.89	13.75	7.56	11.75	11.00	7.41	14.01	6.91
207	9.00	20.75	23.37	7.81	16.00	8.87	13.50	13.00	8.69	14.31	6.06

FA Coupling Size Style X	N	U	V	O Maximum Travel	P Hub-To-Hub		Q	R	D Shaft-To-Shaft	
					Min.	Max.			Min.	Max.
204	13.50	1.06	.87	10.62	.44	11.06	.14	.12	8.81	19.44
204½	13.75	1.06	.87	11.00	.50	11.50	.16	.16	8.94	19.94
205	14.25	1.50	1.31	11.00	.50	11.50	.19	.16	8.72	19.72
205½	14.31	1.50	1.31	11.00	.50	11.50	.19	.16	8.19	19.19
206	14.31	1.00	.81	10.50	.50	11.00	.22	.16	7.41	17.91
207	14.75	1.12	.94	10.50	.56	11.06	.31	.19	6.56	17.12

FOR DIMENSIONS "B" AND "C", SEE PAGE 8.

FURNISHED WITH EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS; SHROUDED BOLTS (SB) UPON REQUEST — AT ADDITIONAL COST.

FOR LOAD CAPACITY, USE SERIES F INFORMATION, PAGE 8.

PARALLEL OFFSET CAPACITY SHOULD BE CALCULATED WITH HUB SPACING AT "P" (MIN.), SEE PAGE 39. COMBINED ANGULAR AND PARALLEL OFFSET SHOULD NOT EXCEED ± ½° PER GEAR MESH.

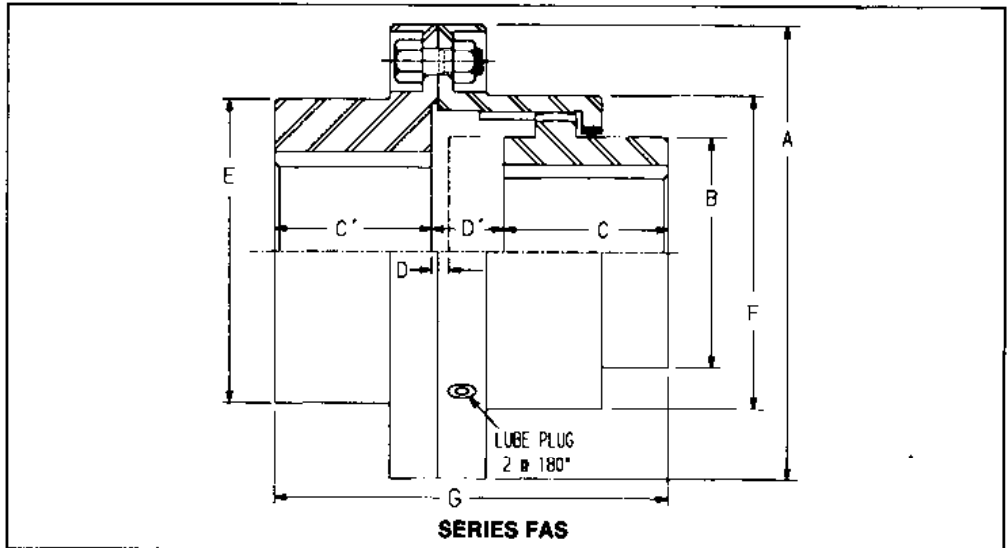
FOR "A" END HUB, MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40.

TRAVEL (DIMENSION "O") MAY BE DECREASED BY VARYING "P" (CONSULT AMERIDRIVES).

MAXIMUM SPEEDS, PAGE 34.

Series FAS, Style I Sizes 201½-207

**Flanged Sleeve —
 Single-Engagement Axial Type
 Style I**
End A
 Rigid Half
End B
 Universal Hub Modified
 Standard Sleeve



FAS STYLE I Size	DIMENSIONS									
	A	B	C	C'	D	D'	E	F	G	Axial Travel
201½	6.00	3.12	1.94	1.78	.16	.48	3.88	3.94	4.20	.33
202	7.00	4.00	2.44	2.28	.16	.83	4.88	4.86	5.55	.67
202½	8.38	4.88	3.03	2.91	.19	1.11	5.75	5.88	7.05	.92
203	9.44	5.75	3.59	3.41	.19	1.42	6.81	6.88	8.42	1.23
203½	11.00	6.50	4.19	3.97	.22	1.69	7.75	7.91	9.84	1.47
204	12.50	7.75	4.75	4.44	.31	2.11	9.06	9.25	11.30	1.80
204½	13.82	9.00	5.31	5.00	.34	2.17	10.19	10.41	12.48	1.83
205	15.31	9.50	6.03	5.75	.34	2.64	11.38	11.44	14.42	2.30
205½	16.56	10.50	6.62	6.12	.34	3.12	12.50	12.69	15.88	2.78
206	18.00	11.75	7.41	7.16	.41	3.19	13.50	13.75	17.75	2.78
207	20.75	13.50	8.69	8.44	.50	3.44	15.75	16.00	20.56	2.94

SIZES 201½ - 205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADDITIONAL COST.

SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.

ANGULARITY SHOULD NOT EXCEED $\pm 1/2^\circ$ PER GEAR MESH AT SHAFT SPACING OF "D".

MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41.

FOR MAXIMUM BORES AND LOAD CAPACITY, USE SERIES FS INFORMATION, PAGE 10. MAXIMUM SPEEDS, PAGE 34.

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity
 All Amerigear Series FAS Couplings incorporate the following engineered features:

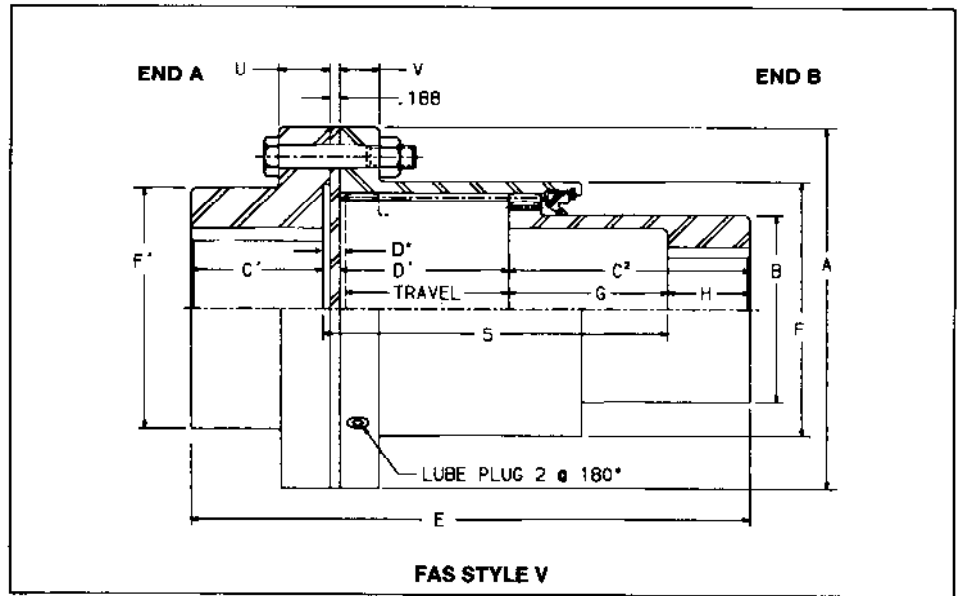
- Fully-Crowned Gear Teeth — assures smooth action when adjusting for axial displacement with minimum resistance to slide.
- $\pm 1/2^\circ$ angular misalignment capacity per gear mesh at minimum separation of hub and rigid half. When used in tandem pairs and connected by an intermediate floating shaft, amount of offset misalignment capacity is determined by the distance between gear meshes. By mounting flexible halves on floating shaft, advantage may be taken of larger bore capacity of rigid half. By mounting rigid halves on floating shaft, more parallel offset is available. See page 39 for calculations.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in . . . contaminants out. Seals enshrouded to prevent damage.
- Many designs available to accommodate most travel requirements.

Amerigear

Flexible Couplings

Series FAS, Style V Sizes 204-207

- Style V**
- End A**
Rigid Half
- End B**
Special Hub
Long Sleeve with Lip Seal



*SEE PAGE 10 FOR "D" DIMENSION AND ADD .188 FOR PLATE THICKNESS.

FAS Style V Size	FLEX HALF Max. Bore Square Key	RIGID HALF Max. Bore Square Key	DIMENSIONS					
			A	B	C'	C''	D'	E
204	4.50	6.25	12.50	7.00	4.44	13.50	10.75	29.08
204½	5.50	6.88	13.62	8.38	5.00	13.75	11.16	30.28
205	6.31	6.88	15.31	9.00	5.75	14.25	11.16	31.53
205½	6.88	6.75	16.56	10.00	6.12	14.31	11.16	31.97
206	7.50	9.38	18.00	11.00	7.18	14.31	10.66	32.56
207	9.00	10.75	20.75	13.00	8.44	14.75	10.69	34.38

FAS Style V Size	F	F'	G	H	S	U	V	Axial Travel
204	9.25	9.06	8.75	4.75	19.88	1.06	.88	10.62
204½	10.41	10.19	8.44	5.31	19.97	1.06	.88	11.00
205	11.44	11.38	8.22	6.03	19.75	1.50	1.31	11.00
205½	12.69	12.50	7.69	6.62	19.22	1.50	1.31	11.00
206	13.75	13.50	6.91	7.41	18.00	1.00	.81	10.50
207	16.00	15.75	6.06	8.69	17.25	1.12	.94	10.50

SIZES 204 - 205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADDITIONAL COST.

SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.

ANGULARITY SHOULD NOT EXCEED $\pm 1/2^\circ$ PER GEAR MESH AT SHAFT SPACING OF "D".

FOR LOAD CAPACITY, USE SERIES FS INFORMATION, PAGE 10.

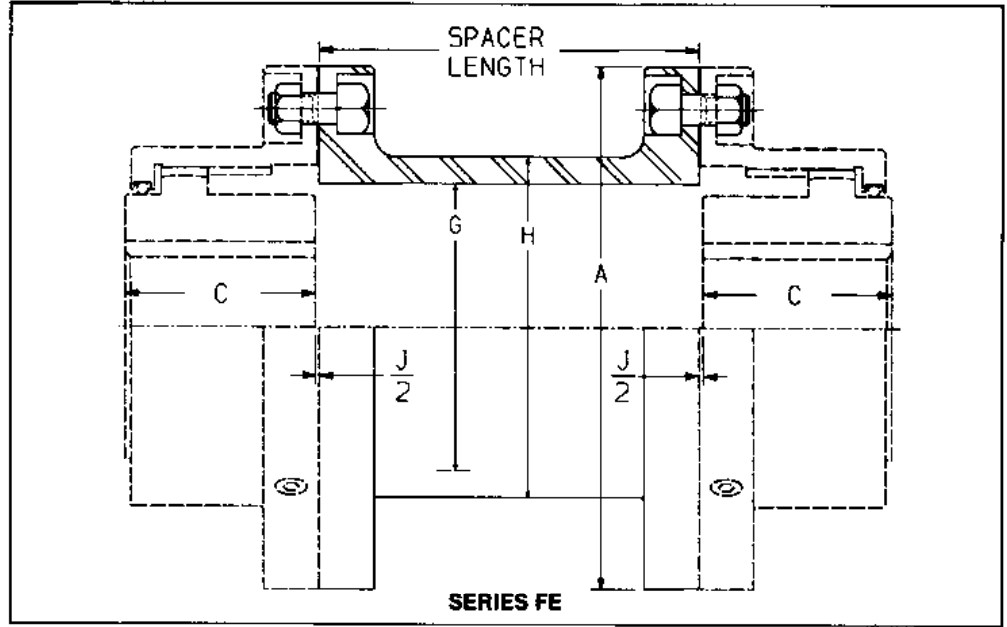
MAXIMUM SPEEDS, PAGE 34.

Series FE Sizes 200-207

Flanged Sleeve — Spacer Type

Application: Commonly used on pump and compressor drives where maintenance or replacement of shaft seals or bearings is accomplished without moving connected equipment. This arrangement is normally used in place of Series FS in tandem arrangements where shaft spacing is minimum and where low weight and WR² are important.

Description: Amerigear Series FE Flexible Coupling consists of two standard halves assembled to the spacer element. The accurately machined steel spacer may be furnished to desired length. For coupling dimensions, refer to Series F, page 8. See engineering section for speed and torque ratings. Step-down spacers are available for connecting half coupling of different sizes.



FE Size	DIMENSIONS*				Minimum** Spacer Length		Spacer Removal Clearance "J"
	A	C	G	H	SB	EB	
200	2.94	1.06	1.50	1.75	1.00	—	.125
201	3.56	1.38	2.12	2.38	1.00	—	.125
201¼	4.00	1.69	2.38	2.75	1.00	—	.125
201½	6.00	1.94	3.23	3.75	2.75	2.75	.125
202	7.00	2.44	4.19	4.81	2.75	3.25	.125
202½	8.38	3.03	5.06	5.66	3.25	4.00	.188
203	9.44	3.59	5.97	6.64	3.25	4.00	.188
203½	11.00	4.19	6.78	7.38	4.12	4.66	.250
204	12.50	4.75	8.06	8.62	4.12	4.66	.250
204½	13.62	5.31	9.36	9.94	4.12	4.66	.313
205	15.31	6.03	9.92	10.75	5.62	5.25	.313
205½	16.56	6.62	10.98	11.75	5.62	5.25	.313
206	18.00	7.41	11.31	12.19	—	4.88	.313
207	20.75	8.69	13.00	13.86	—	5.12	.375

*REFER TO SERIES F COUPLING FOR ADDITIONAL DIMENSIONS, PAGE 8.

**MINIMUM FLANGED SPACER LENGTHS DETERMINED BY REQUIRED BOLT REMOVAL CLEARANCE.

SIZES 200, 201, AND 201¼ FLANGE FASTENERS ARE SELF-LOCKING SOCKET HEAD CAP SCREWS — SPACER FLANGE TAPPED.

SIZES 201½ - 205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADDITIONAL COST.

SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS. SEE PRICE GUIDE FOR STOCK SPACERS.

SEE MODIFICATIONS SECTION FOR VARIATIONS INCLUDING LIMITED END FLOAT, PAGES 23-28.

MAXIMUM SPEEDS, PAGE 36.

PILOT RINGS AVAILABLE AT EXTRA COST. SEE PAGE 41 FOR PILOT RING DIMENSIONS.

Amerigear

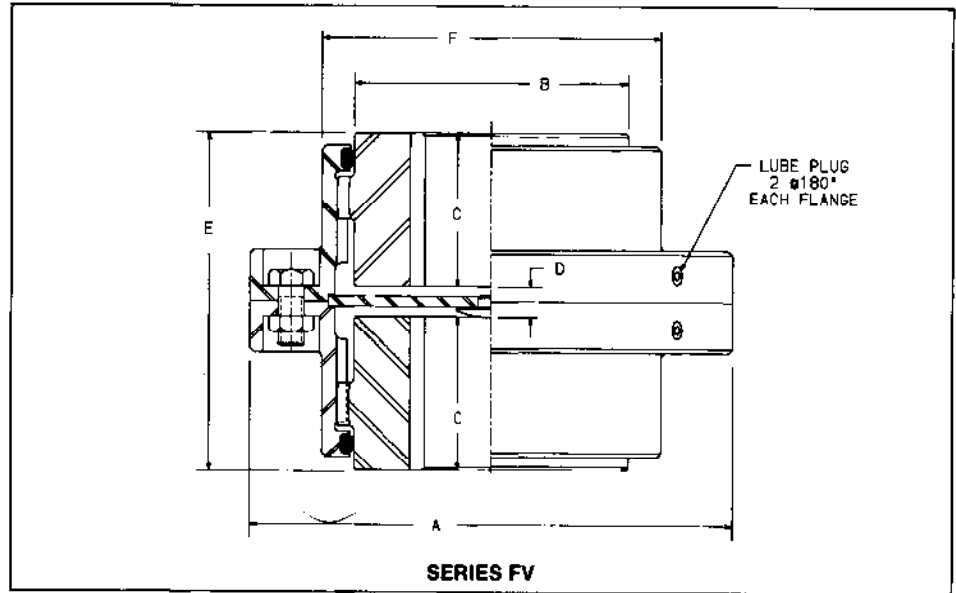
Flexible Couplings

Series FV Sizes 200-207

**Flanged Sleeve —
 Double-Engagement Vertical Type**

Application: Meets requirements of vertical shaft applications for shaft sizes up to 10.25" diameter. Compensates for all three types of misalignment.

Description: Amerigear Series FV Flexible Coupling is designed with bolted center flanges to facilitate installation and alignment. The floating sleeve assembly is supported by a plate and thrust button inserted between the coupling sleeves. Optimum separation of gear meshes permits relatively high parallel offset capacity. Flanged sleeve design makes possible minimum distances between bearing housings to facilitate shaft alignment.



FV Size	Maximum Bore - Inches Flexible Shaft		Load Capacity		Parallel Offset Capacity	DIMENSIONS					
	Square Key	Reduced Key	HP Per 100 R.P.M.	Torque In.-Lbs. x 10 ³		A	B	C	D	E	F
*200	.81	.88	3	1.9	.023	2.94	1.25	1.06	.31	2.44	1.94
*201	1.25	1.31	5	3.2	.042	3.56	1.75	1.38	.31	3.06	2.56
*201 1/4	1.63	1.75	12	7.6	.057	4.00	2.25	1.69	.31	3.69	3.00
201 1/2	2.25	2.38	27	17.0	.058	6.00	3.12	1.94	.44	4.31	3.93
202	2.75	2.88	50	31.5	.079	7.00	4.00	2.28	.44	5.00	4.86
202 1/2	3.50	3.75	85	53.6	.102	8.38	4.88	2.84	.56	6.25	5.88
203	4.00	4.25	150	94.5	.119	9.44	5.75	3.41	.56	7.38	6.88
203 1/2	4.50	4.75	225	142.0	.142	11.00	6.50	3.97	.69	8.62	7.90
204	5.50	5.88	340	214.0	.164	12.50	7.75	4.44	.88	9.75	9.24
204 1/2	6.25	6.75	515	324.0	.187	13.62	9.00	4.97	1.00	10.94	10.37
205	7.00	7.12	660	416.0	.218	15.31	9.50	5.69	1.00	12.38	11.44
205 1/2	7.50	7.62	875	551.0	.245	16.56	10.50	6.28	1.00	13.56	12.69
206	8.25	8.62	1,190	750.0	.275	18.00	11.75	7.00	1.12	15.12	13.75
207	9.62	10.25	1,640	1,033.0	.314	20.75	13.50	8.12	1.50	17.75	16.00

*SIZES 200, 201 AND 201 1/4 FLANGE FASTENERS ARE SELF-LOCKING SOCKET HEAD CAP SCREWS - ONE FLANGE TAPPED.
 SIZES 201 1/2 - 205 1/2 HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADD'L. COST.
 SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.

Amerigear Flexible Couplings - Fully-Crowned Teeth For Higher Torque, Higher Speed, Higher Misalignment Capacity
 All Amerigear Series FV and FVS Couplings incorporate the following engineered features:

- ± 1 1/2° angular misalignment capacity per gear mesh.
- Torque ratings at full 1 1/2° misalignment.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in . . . contaminants out. Seals enshrouded to prevent damage.
- Advanced seal design (Series FV) configuration affords large bore capacity . . . permits use of relatively small coupling.

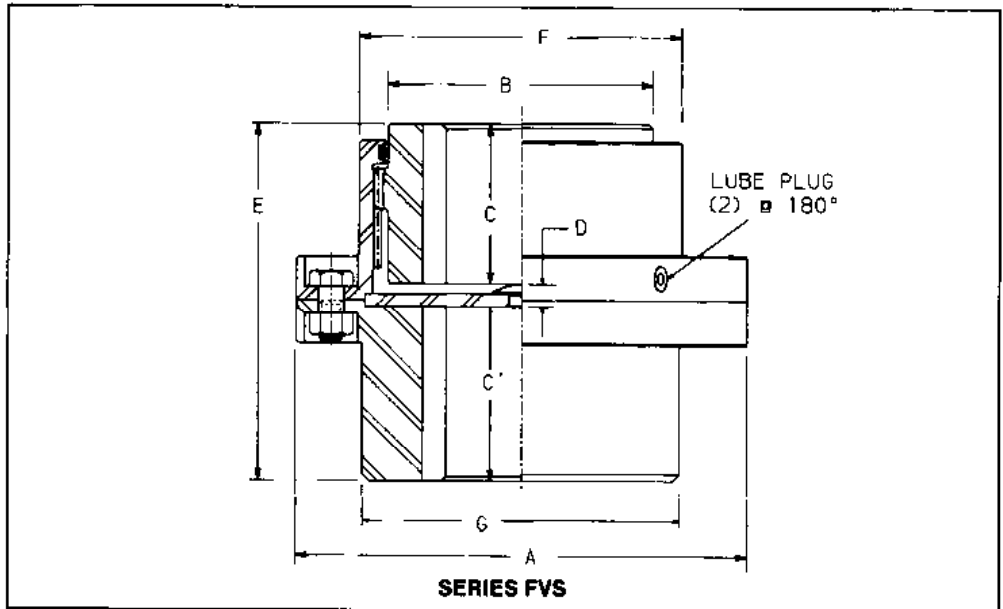
MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41. WEIGHTS AND WR², PAGE 38.
 ADDITIONAL DETAILS, PAGE 42. MODIFICATIONS AND VARIATIONS, PAGES 23-28. MAXIMUM SPEEDS, PAGE 34.
 THRUST BUTTON BEARING PLATE NOT NORMALLY REQUIRED IN LOWER HUB. FOR SHAFT WITH LARGE LATHE CENTERS, SPECIFY BEARING PLATE WHEN ORDERING.

Series FVS Sizes 200-207

Flanged Sleeve — Single-Engagement Vertical Type

Application: Used primarily in tandem pairs for vertical installation, connected by intermediate floating shaft ... or as individual unit in conjunction with a driver or driven shaft having a self-aligning support bearing. When used singly, compensates for angular misalignment only.

Description: Amerigear Series FVS Flexible Coupling consists of one standard rigid half and one standard flexible half coupling modified to accept the thrust button plate. The bolted center flanges facilitate installation and alignment.



FVS Size	Maximum Bore - Inches Flexible Half		Maximum Bore - Inches Rigid Half		Load Capacity		DIMENSIONS							
	Square Key	Reduced Key	Square Key	Reduced Key	HP Per 100 R.P.M.	Torque In.-Lbs. x 10 ³	A	B	C	C'	D	E	F	G
200	.81	.88	1.31	1.38	3	1.9	2.94	1.25	1.06	1.05	.25	2.36	1.94	1.94
201	1.25	1.31	1.75	1.88	5	3.2	3.56	1.75	1.38	1.23	.25	2.86	2.56	2.56
201½	1.63	1.75	2.00	2.13	12	7.6	4.00	2.25	1.69	1.48	.25	3.42	3.00	3.00
201½	2.25	2.38	2.69	2.88	27	17.0	6.00	3.12	1.94	1.78	.31	4.03	3.93	3.93
202	2.75	2.88	3.25	3.50	50	31.5	7.00	4.00	2.28	2.28	.31	4.88	4.86	4.88
202½	3.50	3.75	4.00	4.25	85	53.6	8.38	4.88	2.84	2.91	.38	6.12	5.88	5.88
203	4.00	4.25	4.62	5.00	150	94.5	9.44	5.75	3.41	3.41	.36	7.19	6.88	6.88
203½	4.50	4.75	5.38	5.75	225	142.0	11.00	6.50	3.97	3.97	.44	8.38	7.90	7.90
204	5.50	5.88	6.25	6.75	340	214.0	12.50	7.75	4.44	4.44	.62	9.50	9.24	9.24
204½	6.25	6.75	6.88	7.38	515	324.0	13.62	9.00	4.97	5.00	.68	10.66	10.37	10.18
205	7.00	7.12	7.88	8.38	660	416.0	15.31	9.50	5.69	5.75	.68	12.12	11.44	11.44
205½	7.50	7.62	8.75	9.25	875	551.0	16.56	10.50	6.28	6.12	.68	13.09	12.69	12.69
206	8.25	8.62	9.38	9.88	1,190	750.0	18.00	11.75	7.00	7.16	.84	15.00	13.75	13.75
207	9.62	10.25	10.75	11.50	1,640	1,033.0	20.75	13.50	8.12	8.44	1.06	17.62	16.00	15.75

*SIZES 200, 201 AND 201½ FLANGE FASTENERS ARE SELF-LOCKING SOCKET HEAD CAP SCREWS - RIGID FLANGE TAPPED.

SIZES 201½ - 205½ HAVE SHROUDED BOLTS (SB) WITH SELF-LOCKING NUTS; EXPOSED BOLTS (EB) UPON REQUEST — NO ADD'L. COST.

SIZES 206 AND 207 HAVE EXPOSED BOLTS (EB) WITH SELF-LOCKING NUTS.

MAXIMUM BORE, KEYWAY AND PULLER DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41. WEIGHTS AND WR², PAGE 38.

THRUST BUTTON BEARING PLATE NOT NORMALLY REQUIRED IN FLEXIBLE HUB. FOR SHAFT WITH LARGE LATHE CENTERS, SPECIFY BEARING PLATE WHEN ORDERING.

ADDITIONAL DETAILS, PAGE 42. MODIFICATIONS AND VARIATIONS, PAGES 23-28.

MAXIMUM SPEEDS, PAGE 34.

Amerigear

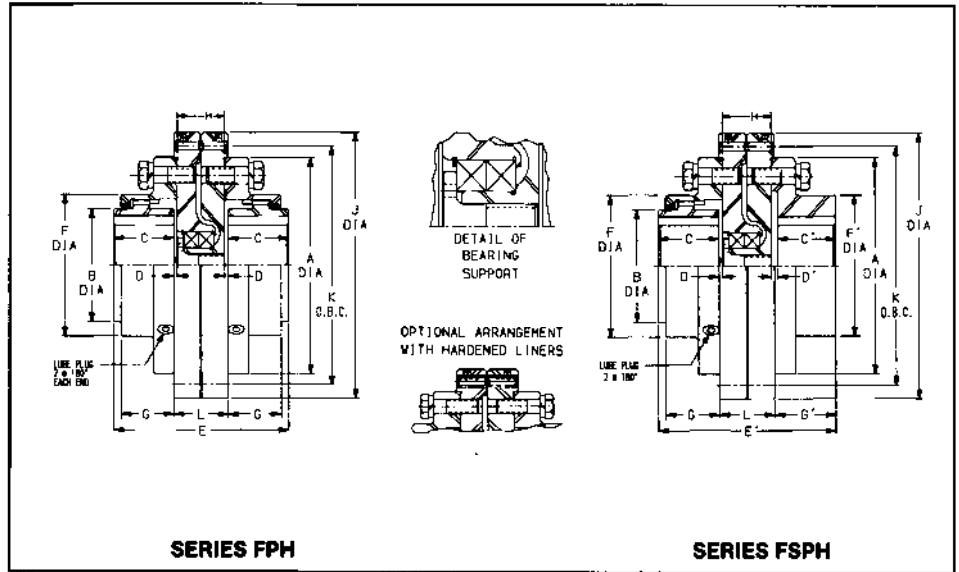
Flexible Couplings

Series FPH, FSPH Sizes 201½-207

Flanged Sleeve — Double- and Single-Engagement Shear Pin Type

Application: Used for applications where peak torque or high shock load conditions exist and are greater than normal maximum starting torques. Coupling halves are assembled to both or either side of a shear element assembly to accommodate all types of angular misalignment and axial float. Shear pins are designed to fail at a pre-determined value to protect connected equipment from damage.

Description: Amerigear Series FPH and FSPH Shear Pin Couplings have a shear element bolted between the flanges. The shear element consists of two fully machined plates, two lubricated sealed radial thrust ball bearings, retaining ring, retaining bolt and pin, shear pins and setscrews.



FPH, FSPH Size	Maximum Bore		Maximum Bore		Parallel Offset Capacity	Load Capacity		Shear section	
	Square Key	Reduced Key	Square Key	Reduced Key		HP Per 100RPM	Torque In.Lbs. x 10 ³	Weight Lbs.	WR ² Lb.-In. ²
201½	2.25	2.38	2.69	2.88	.097	27	17.0	18	119
202	2.75	2.88	3.25	3.50	.118	50	31.5	20	192
202½	3.50	3.75	4.00	4.25	.142	85	53.6	27	354
203	4.00	4.25	4.62	5.00	.182	150	94.5	68	1,302
203½	4.50	4.75	5.38	5.75	.205	225	142.0	88	2,113
204	5.50	5.88	6.25	6.75	.228	340	214.0	109	3,220
204½	6.25	6.75	6.88	7.38	.250	515	324.0	116	3,904
205	7.00	7.12	7.88	8.38	.298	660	416.0	205	9,402
205½	7.50	7.62	8.75	9.25	.326	875	551.0	232	12,190
206	8.25	8.62	9.38	9.88	.355	1,190	750.0	271	16,126
207	9.62	10.25	10.75	11.50	.394	1,640	1,033.0	---	---

FPH, FSPH Size	DIMENSIONS															
	A	B	C	C'	D	D'	E	E'	F	F'	G	G'	H	J	K	L
201½	6.00	3.12	1.94	1.78	.06	.09	5.50	5.38	3.93	3.93	1.77	1.88	1.50	7.38	6.625	1.59
202	7.00	4.00	2.44	2.28	.06	.09	6.50	6.38	4.86	4.88	2.27	2.38	1.50	8.38	7.625	1.59
202½	8.38	4.88	3.03	2.91	.09	.09	7.75	7.62	5.88	5.88	2.81	3.00	1.50	9.75	9.000	1.59
203	9.44	5.75	3.59	3.41	.09	.09	9.75	9.56	6.88	6.88	3.39	3.50	2.38	11.94	10.438	2.50
203½	11.00	6.50	4.19	3.97	.12	.09	11.00	10.75	7.90	7.90	3.91	4.06	2.38	13.50	12.000	2.50
204	12.50	7.75	4.75	4.44	.12	.19	12.12	11.88	9.24	9.24	4.46	4.62	2.38	15.00	13.500	2.50
204½	13.62	9.00	5.31	5.00	.16	.19	13.31	13.03	10.37	10.18	4.98	5.19	2.38	16.12	14.625	2.50
205	15.31	9.50	6.03	5.75	.16	.19	15.44	15.19	11.44	11.44	5.67	5.94	3.06	18.31	16.562	3.31
205½	16.56	10.50	6.62	6.12	.16	.19	16.62	16.18	12.69	12.69	6.25	6.31	3.06	19.56	17.812	3.31
206	18.00	11.75	7.41	7.16	.16	.25	18.19	18.03	13.75	13.75	6.89	7.41	3.06	21.00	19.250	3.31
207	20.75	13.50	8.69	8.44	.19	.31	20.81	20.69	16.00	15.75	7.81	8.75	3.06	23.75	22.000	3.66

EXPOSED BOLTS ARE FURNISHED AS STANDARD.

MAXIMUM BORE, KEYWAY AND PULLER HOLE DATA, PAGE 40. CENTER FLANGE DETAILS, PAGE 41. MAXIMUM SPEEDS, PAGE 34.