

CONTENTS

Couplings

Features / Benefits

PARA-FLEX®	PT1-2
PARA-FLEX High Speed Flywheel	PT1-29
D-FLEX®	PT1-35
GRID-LIGN®	PT1-48
Gear Coupling	PT1-60
Chain Coupling	PT1-65
Power Plus	PT1-76

Specification

PARA-FLEX®	PT1-4
D-FLEX®	PT1-37
GRID-LIGN®	PT1-50
Gear Coupling	PT1-62
Chain Coupling	PT1-72
Power Plus	PT1-72

How To Order

PARA-FLEX®	PT1-4
D-FLEX®	PT1-37
GRID-LIGN®	PT1-50
Gear Coupling	PT1-62
Chain Coupling	PT1-72
Power Plus	PT1-74

Nomenclature

PARA-FLEX®	PT1-5
D-FLEX®	PT1-37
GRID-LIGN®	PT1-51
Gear Coupling	PT1-62
Chain Coupling	PT1-72
POLY-DISC®	PT1-63
Rigid	PT1-63

Selection/Dimensions

PARA-FLEX®	PT1-6
High Speed, TAPER-LOCK	PT1-30
D-FLEX®	PT1-38
GRID-LIGN®	PT1-52
Gear Coupling	PT1-63
Chain Coupling	PT1-66
POLY-DISC®	PT1-73
Rigid	PT1-74

Modifications/Accessories	PT1-81
---------------------------------	--------

Engineering/Technical	PT1-83
-----------------------------	--------

Part Number Index	INDEX-1
-------------------------	---------

Keyword Index	INDEX-63
---------------------	----------



FEATURES/BENEFITS

DODGE PARA-FLEX Couplings



Finished Bore

Flange Design

- Extra bore capacity
- Accommodates larger shaft diameters
- Allows for smaller coupling selection
- Two setscrews at 65°
- Precision alignment flats
- Ductile iron flange for clearance or interference fits

TAPER-LOCK Flange Design

- Reversible flanges for H or F style mounting on sizes PX50-PX120
- Uses standard TAPER-LOCK bushings for wide range of bores

Five-Year Limited Warranty

- Dependable product performance
- 40+ years application experience
- Warranty includes sizes PX40 thru PX200



No Lubrication

- Less maintenance

Visual Inspection

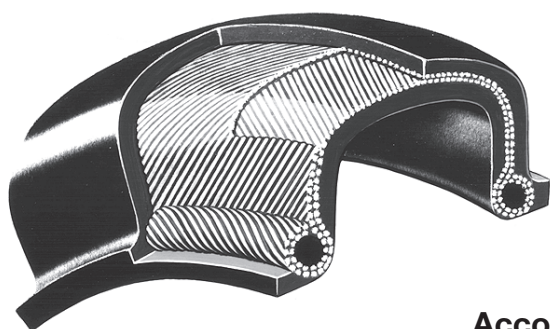
- Saves time

ATEX Approved

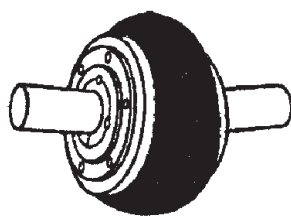
- Documents available

Torque Transmitted Through Composite Element System

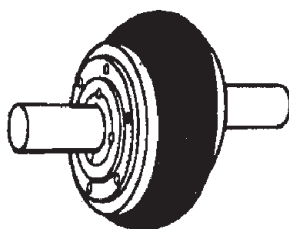
- Reinforced with torque-carrying tension cords
- Natural rubber or Neoprene
- Split end reinforcement
- Split element for easy installation
- Dampens torsional vibration



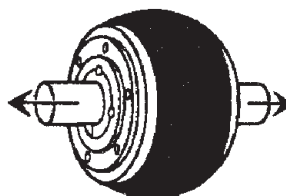
Accommodates Misalignment



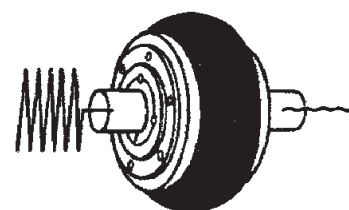
Takes 4° angular misalignment



Takes 1/8" parallel misalignment



Takes end-float of 1/4" to 5/16"



Dampens vibrations



FEATURES/BENEFITS

DODGE PARA-FLEX GTL, GT & GFB

GRIP TIGHT Bushing

- Baldor Technology
- GRIP TIGHT "Thin Wall" bushing provides largest bore size capability
 - Large Bore Size permits downsizing to a smaller coupling
- No keyway required (keyed shafting can be used if desired)
 - No Keyway = reduced vibration
 - No Keyway = maintenance savings
- Can be used with commercial shafting
 - Lower Shaft Tolerance = Less Shaft Preparation = shaft manufacturing (grinding) savings
- Concentric Contact on Shaft = Less vibration
 - Less wear/damage to coupled equipment
 - Better equipment efficiencies
- Easy on & Reliable Mounting from Coupling Side (not Coupling End)
 - Installation Savings vs. TL & QD Bushings
 No fretting corrosion or setscrew marks on the shaft
 - Shaft Maintenance & Replacement Savings
- Proven GRIP TIGHT technology used in Dodge bearing and gear products

PARA-FLEX GTL, GT & GFB Flange

- PXGT Flange accepts GRIP TIGHT "Thin Wall" Bushings
 - Largest available bushed bore size
 - Larger Bore Size permits downsizing to a smaller coupling
- PXGT Flange accepts larger Taper Lock Bushings than existing PXTL Flange
 - Larger Bore Size permits downsizing to a smaller coupling
- PXGFB Finished Bore Flange provides greater bore capacity than existing PXFBX Flange
 - Larger bore size permits downsizing to a smaller coupling
 - Fewer Parts = Easier Installation
 - Internal Clamp Ring is integrated into Flange
 - Fewer flange blots
- Faster Installation & Reduced Maintenance Time via:
 - Total PARA-FLEX installation time reduced approximately 35%
 - Element Locking Nut allows for the "Fastest Tire Change in the Industry"
- Locking nut provides improved grip of element
 - Allows higher element torque ratings

PARA-FLEX "Problem Solver" Element

- Industry Leading 5 year warranty
 - Total Cost of Ownership Savings
- Highest Combined Misalignment Capability (Torsional, Axial & Angular)
 - Longer Element Life
 - Total Cost of Ownership Savings
 - Dampens vibrations
 - Handles varying torque & shock loads
- Tire Cord limits catastrophic Element failures
 - No unexpected process shutdowns
 - Warranty & Process Savings
- Element fatigue indicators
 - Allows for scheduled maintenance
- Lower Service Factors adds vs. Polyurethane Element
 - For temperatures > 150°F
 - For severe applications
 - Results in a smaller coupling
- Element can be installed on misaligned shafts
 - Fast simpler element installation & replacement



NOTE: Instruction manuals for PARA-FLEX Couplings and Taper Lock Bushings are available on www.dodge-pt.com

SPECIFICATION/HOW TO ORDER/NOMENCLATURE



PARA-FLEX

SPECIFICATION

PARA-FLEX Couplings employ a molded, non-lubricated elastomeric flexing member loaded in shear. The flexible member is compounded natural or neoprene rubber with textile cord reinforcement throughout and has an extra layer of reinforcement adjacent to the split for added durability. The compound of natural rubber element shall be suitable for operation in ambient temperature from -45°F to +180°F; Neoprene -40°F to +210°F.

The flexible element is attached by clamping between axially separable rings with exposed SAE grade 8 cap screws. The couplings are designed to be capable of accommodating combined misalignments of 4° angular, 1/8" parallel, and 5/16" end float at the full rating of the coupling without restricting the rating or life of the coupling. The flexible element must be replaceable without disturbing the coupled equipment and without the requirement for realignment.

The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit and GRIP TIGHT Bushings or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

Spacer Couplings consist of two hubs and a pre-assembled center assembly. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment and must be replaceable without disturbing the coupled equipment and without realignment.

1 PX40: 4° angular, 1/16" parallel, 3/16" end float.

2 PX110: 4° angular, 1/8" parallel, 1/4" end float.

3 PH & PF: 1° angular, 1/16" parallel, 3/16" end float.

PARA-FLEX Couplings are static conductive.

HOW TO ORDER

Standard couplings consist of:

(2) Flange Assemblies

(1) Flexible Element

(2) Bushings (TL or GT only)

Spacer Couplings consist of:

(2) Hubs

(1) Center Assembly



NOMENCLATURE



PARA-FLEX — **PX**

X = Standard —

S = Spacer

H = High Speed

F = Flywheel

Size (PX, PS only) ex.: Approx. 4" O.D. — **40**

GFB = Greater Finished Bore — **FBX**

GT = GRIP TIGHT Bushing

GTL = Greater TAPER-LOCK Bushing

FBX = Straight Bore, Extra Capacity

FBS = Straight Bore, Short Series

TL = TAPER-LOCK®

BBS = Bored-To-Size, Steel

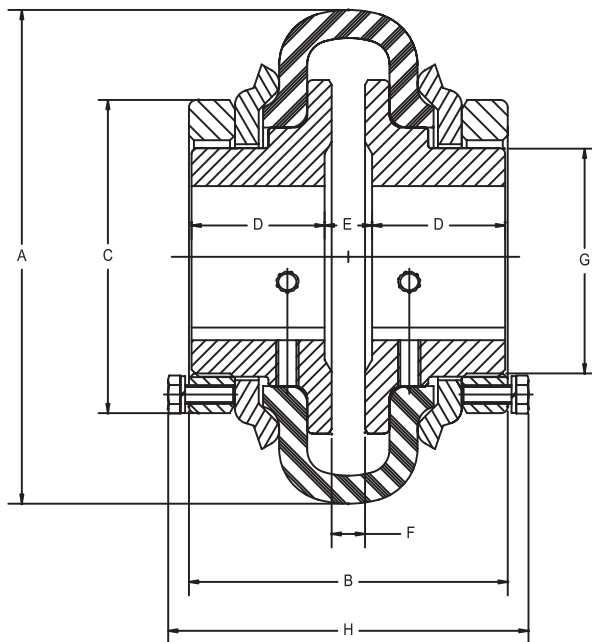
TBS = One Taper Bored, one Bored-To-size, Steel

BBPS = BBS, Piloted for Floating Shaft

TBPS = TBS, Piloted for Floating Shaft

SELECTION/DIMENSIONS

PARA-FLEX GFB



GFB

PARA-FLEX GFB Greater Finished Bore

Coupling Size	Min. Bore	Max. Bore (Std Key)	Max. Bore (Shallow Key)	HP/100	Torque (In-Lbs)	Max. RPM	A	B	C	D	E	F	G	H (1)	Weight (Lbs.) (2)	Inertia (Lb-Ft ²) (3)
PX50GFB	1/2	1-11/16	1-7/8	2.00	1260	4500	5.25	3.44	3.34	1.38	0.60	0.45	2.55	4.24	6.4	0.09
PX60GFB	7/8	2-3/8	2-3/4	3.72	2340	4000	6.50	4.30	4.71	1.65	0.82	0.64	3.53	5.14	11.2	0.29
PX80GFB	1	3-3/16	3-1/2	7.15	4502	3100	8.38	5.01	6.09	1.98	0.97	0.73	4.71	6.13	23.1	0.99
PX100GFB	1-7/8	4-1/8	4-1/2	8.58	6250	2600	10.00	5.56	7.25	2.29	0.98	0.98	5.89	6.16	46.3	2.93

(1) Before clamping the element

(2) Weight of complete coupling at max bore

(3) Inertia of complete coupling at max bore



SELECTION/DIMENSIONS

PARA-FLEX GFB

Bore* (in)	PX50GFB	PX60GFB	PX80GFB	PX100GFB
Reborable	000302	000308	000315	000251
1/2	000303			
5/8	000304			
7/8	000305	000309		
1-1/8	000306	000310		
1-3/8	000307	000311		
1-9/16	000359			
1-5/8	000360	000312	000380	
1-11/16	000361			
1-3/4	000362 Δ		000381	
1-13/16	000363 Δ			
1-7/8	000364 Δ	000313	000316	000252
1-15/16				000253
2				000254
2-1/8		000314	000317	000255
2-3/16				000256
2-1/4				000257
2-3/8		000365	000318	000258
2-7/16		000366 Δ		
2-1/2		000367 Δ		000259
2-5/8		000368 Δ		000260
2-11/16		000369 Δ		
2-3/4		000370 Δ		000261
2-7/8			000319	000262
3				000263
3-1/8			000371	000264
3-3/16			000372	
3-1/4			000373 Δ	000265
3-3/8			000374 Δ	000266
3-7/16			000375 Δ	
3-1/2			000376 Δ	000267
3-5/8				000268
3-3/4				000269
3-7/8				000270
4				000271
4-1/8				000272
4-1/4				000273Δ
4-3/8				000274Δ
4-1/2				000275Δ
Element Part Number	011105	011106	011108	011110

* For additional PXGFB bores part numbers not listed above, check with DODGE Marketing

Δ Key furnished for these sizes only

Complete coupling consist of:

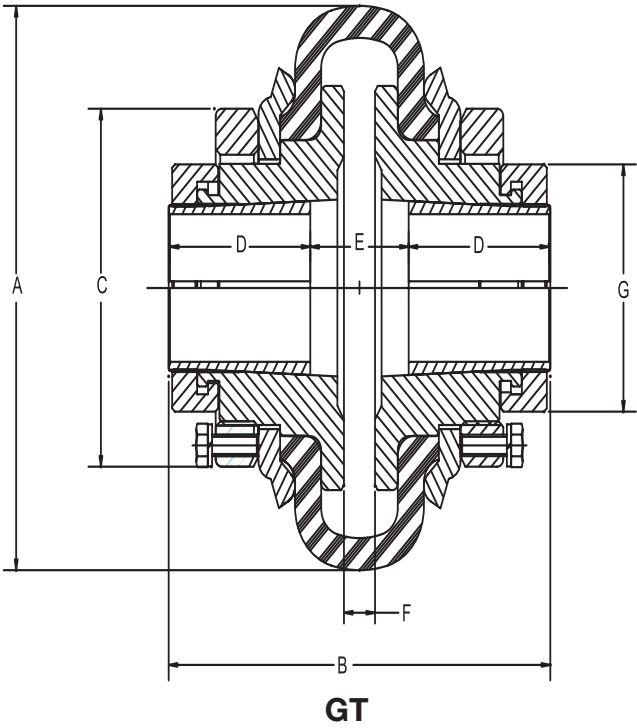
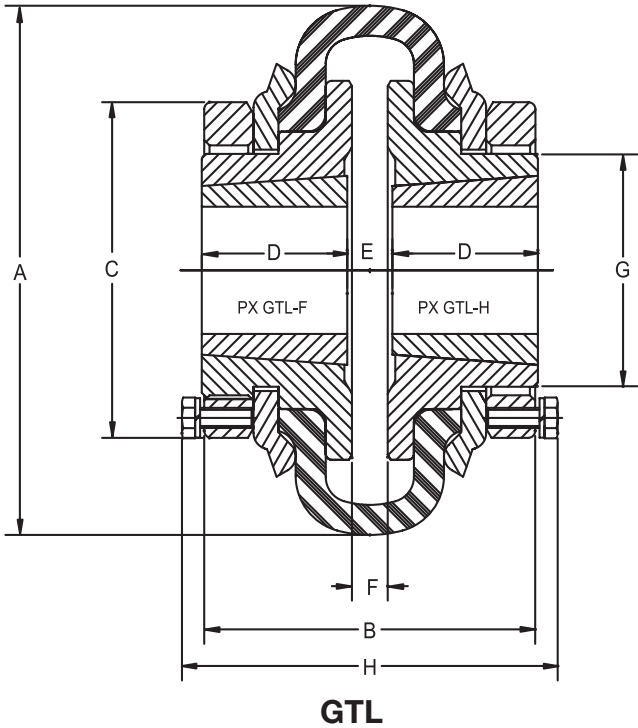
(2) GFB Flange Assemblies

(1) Element

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------

SELECTION/DIMENSIONS

PARA-FLEX, GTL & GT



PARA-FLEX GTL with TAPER-LOCK Bushings

Coupling Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	DWG Type	A	B	C	D	E	F	G	H (1)	Weight (Lbs) (2)	Inertia (Lb-Ft ²) (3)
PX50GTL	1-1/4	2.00	1260	4500	1	5.25	3.60	3.34	1.50	0.52	0.45	2.55	4.24	6.4	0.89
PX60GTL	2-1/8	3.72	2340	4000	1	6.50	4.30	4.71	1.25	0.82	0.64	3.53	5.14	11.2	0.29
PX80GTL	2-11/16	7.15	4502	3100	1	8.38	5.01	6.09	1.75	0.89	0.73	4.71	6.13	23.1	0.99
PX100GTL	3-1/4	8.58	6250	2600	1	10.00	5.55	7.67	2.00	0.95	0.95	5.89	6.16	46.3	2.93

- (1) Before clamping the element
- (2) Weight of complete coupling with bushing at max bore
- (3) Inertia of complete coupling with bushing at max bore

PARA-FLEX GT with GRIP TIGHT Adapter

Coupling Size	Max. Bore	HP/100	Torque (in-Lbs) (3)	Max. RPM	DWG Type	A	B	C	D	E	F	G	Weight (Lbs) (1)	Inertia (lb-Ft ²) (2)
PX50GT	1-7/16	2.00	1260	4500	2	5.25	4.58	3.34	1.62	1.22	0.45	2.39	6.5	0.10
PX60GT	2-1/4	3.72	2340	4000	2	6.50	5.50	4.71	1.93	1.50	0.64	3.43	12.4	0.33
PX80GT	3	7.15	4502	3100	2	8.38	6.49	6.09	2.56	1.37	0.73	4.44	24.9	1.05

- (1) Weight of complete coupling with bushing at max bore
- (2) Inertia of complete coupling with bushing at max bore
- (3) Check GT Bushing Torque rating on page PT1-10 : PT1-11. Use the lower max. Torque rating between the element and GT bushing,

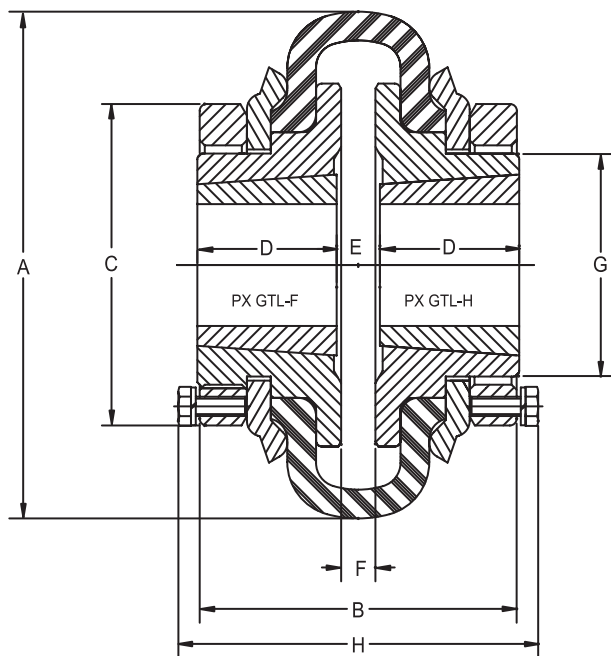
Selection instructions found on page PT1-83

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------

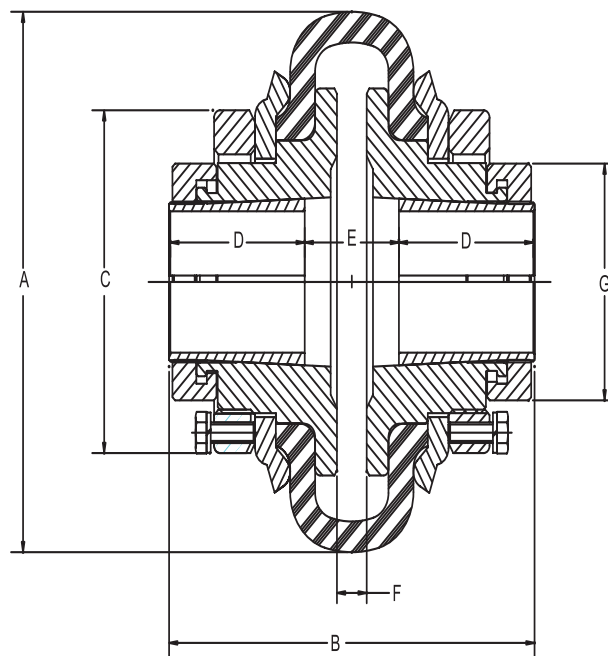


SELECTION/DIMENSIONS

PARA-FLEX, GTL & GT Part Numbers



GTL



GT

PARA-FLEX GTL with TAPER-LOCK Bushings

Coupling Size	Flange Assembly Part Number		Bushing Size	Element Part Number
	Type F	Type H		
PX50GTL	000335	000377	1215	011105
PX60GTL	000336	000378	2012	011106
PX80GTL	000337	000379	2517	011108
PX100GTL	000276	000277	3020	011110

PARA-FLEX GT with GRIP TIGHT Adapter

Coupling Size	Flange Assembly Part Number	GT Series	Element Part Number
PX50GT	000332	207	011105
PX60GT	000333	211	011106
PX80GT	000334	215	011108

Complete Coupling Consists Of:

(2) Flange Assemblies

(2) TL Bushings or GRIP TIGHT Bushings (TL Bushings are on page PT6-3 and Grip Tight Bushings are on page PT1-10: PT1-11)

(1) Element

Selection instructions found on page PT1-83

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------

SELECTION/DIMENSIONS

GT Adapter and Lock Nut
Assemblies

PXGT	Series	Shaft Size	Adapter Sleeve & Lock Nut Assembly	
			Part No.	Description
50	207	RB	136432	AN-GT-07-008 REBORE
		1/2	136433	AN-GT-07-008
		5/8	136434	AN-GT-07-010
		3/4	136435	AN-GT-07-012
		7/8	136436	AN-GT-07-014
		1	136437	AN-GT-07-100
		1 1/8	136438	AN-GT-07-102
		1 3/16	129926	AN-GTM-07-103
		1 1/4	129911	AN-GT-07-104
		1 3/8	129912	AN-GT-07-106
		1 7/16	129913	AN-GT-07-107
		30mm	129954	AN-GTM-07-30M
		35mm	129946	AN-GT-07-35M
60	211	RB	136439	AN-GT-11-014 REBORE
		7/8	136440	AN-GT-11-014
		1	136441	AN-GT-11-100
		1 1/8	136442	AN-GT-11-102
		1 3/16	136443	AN-GT-11-103
		1 1/4	136444	AN-GT-11-104
		1 3/8	136445	AN-GT-11-106
		1 7/16	136446	AN-GT-11-107
		1 1/2	136447	AN-GT-11-108
		1 5/8	136448	AN-GT-11-110
		1 3/4	136449	AN-GT-11-112
		1 7/8	136450	AN-GT-11-114
		1 15/16	129931	AN-GTM-11-115
		2	129932	AN-GTM-11-200
		2 1/8	136451	AN-GT-11-202
		2 3/16	129920	AN-GT-11-203
		2 1/4	129956	AN-GT-11-204
		50mm	129961	AN-GTM-11-50M
		55mm	129950	AN-GT-11-55M
80	215	RB	136453	AN-GT-15-104 REBORE
		1 1/4	136454	AN-GT-15-104
		1 3/8	136455	AN-GT-15-106
		1 7/16	136456	AN-GT-15-107
		1 1/2	136457	AN-GT-15-108
		1 5/8	136458	AN-GT-15-110
		1 3/4	136459	AN-GT-15-112
		1 7/8	136460	AN-GT-15-114
		1 15/16	136461	AN-GT-15-115
		2	136462	AN-GT-15-200
		2 1/8	136463	AN-GT-15-202
		2 3/16	136464	AN-GT-15-203
		2 1/4	136465	AN-GT-15-204
		2 3/8	136466	AN-GT-15-206
		2 7/16	136467	AN-GT-15-207
		2 1/2	136468	AN-GT-15-208
		2 11/16	129937	AN-GTM-15-211
		2 7/8	136469	AN-GT-15-214
		2 15/16	129923	AN-GT-15-215
		3	129987	AN-GT-15-300
		70mm	129964	AN-GTM-15-70M
		75mm	129953	AN-GT-15-75M

Element Size	Standard Part No.	Neoprene (1) Part No.	Cordless (2) Part No.	Weight (Lbs)
PX50	011105	011296	011285	0.7
PX60	011106	011297	011286	1.2
PX80	011108	011299	011288	2.2
PX100	011110	011301	011290	2.5

Selection Chart For Metric Bore
Sizes

Coupling Size	Shaft Size (inches)	Flange Type			Element Rated Torque (in-lbs)	Maximum GT Adapter Torque (in-lbs)	Max RPM
		GTL	GT	GFB			
PX50	RB	X	X		1260	1836	4500
	30 mm		X				
	35 mm		X				
PX60	RB	X	X		2340		4000
	14 mm	X					
	16 mm	X					
	18 mm	X					
	19 mm	X					
	20 mm	X					
	22 mm	X					
	24 mm	X					
	25 mm	X					
	28 mm	X					
	30 mm	X					
	32 mm	X					
	35 mm	X					
	38 mm	X					
	40 mm	X					
	42 mm	X					
	45 mm	X					
	48 mm	X					
PX80	50 mm		X		4502	3158	3100
	55 mm		X				
	RB	X	X				
	14 mm	X					
	16 mm	X					
	18 mm	X					
	19 mm	X					
	20 mm	X					
	22 mm	X					
	24 mm	X					
	25 mm	X					
	28 mm	X					
	30 mm	X					
	32 mm	X					
	35 mm	X					
	38 mm	X					
	40 mm	X					
	42 mm	X					
	45 mm	X					
	48 mm	X					
	50 mm	X					
	55 mm	X					
	60 mm	X					
	65 mm	X					
	70 mm		X				
	75 mm		X				

- (1) Neoprene element ratings are the same as the standard natural rubber element range. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------



SELECTION/DIMENSIONS

Selection Chart For English Bore Sizes

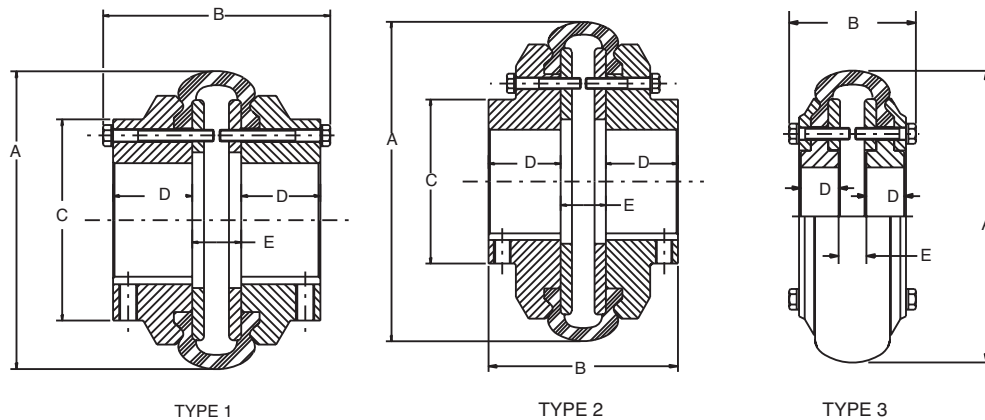
Coupling Size	Shaft Size (Inches)	Flange Type			Element Rated Torque (in-lbs)	Maximum GT Adapter Torque (in-lbs)	Max RPM
		GTL	GT	GFB			
PX50	RB	X	X		1260		4500
	1/2	X	R			777^	
	9/16	X					
	5/8	X	R			971^	
	11/16	X					
	3/4	X	R			1166^	
	13/16	X					
	7/8	X	R			1360	
	15/16	X					
	1	X	R			1554	
	1-1/16	X					
	1-1/8	X	R			1749	
	1-3/16	X	X			1846	
	1-1/4	X	X			1943	
	1-3/8		X			2137	
	1-7/16		X			2234	
	1-9/16			X			
	1-5/8			X			
	1-11/16			X			
	1-3/4			X			
	1-13/16			X			
	1-7/8			X			
PX60	RB	X	X		2340		4000
	1/2	X					
	9/16	X					
	5/8	X					
	11/16	X					
	3/4	X					
	13/16	X					
	7/8	X	R			1403^	
	15/16	X					
	1	X	R			1604^	
	1 1/16	X					
	1 1/8	X	R			1805^	
	1 3/16	X	R			1905^	
	1 1/4	X	R			2005^	
	1 5/16	X					
	1 3/8	X	R			2206^	
	1 7/16	X	R			2306^	
	1 1/2	X	R			2406	
	1 9/16	X					
	1 5/8	X	R			2607	
	1 11/16	X					
	1 3/4	X	R			2807	
	1 13/16	X					
	1 7/8	X	R			3008	
	1 15/16	X	X			3108	
	2	X	X			3208	
	2 1/8	X	R			3409	
	2 3/16		X			3509	
	2 1/4		X			3609	
	2 3/8			X	2340		4000
	2 7/16			X			
	2 1/2			X			
	2 5/8			X			
	2 11/16			X			
	2 3/4			X			
PX80	RB	X	X		4502		3100
	1/2	X					
	5/8	X					
	11/16	X					
	3/4	X					
	13/16	X					
	7/8	X					
	15/16	X					
	1	X					
	1 1/16	X					
	1 1/8	X					
	1 3/16	X					
	1 1/4	X	R			3448^	
	1 5/16	X					
	1 3/8	X	R			3793^	
	1 7/16	X	R			3965^	
	1 1/2	X	R			4138^	
	1 9/16	X					
	1 5/8	X	R			4483^	
	1 11/16	X					
	1 3/4	X	R			4828	
	1 13/16	X					
	1 7/8	X	R			5173	
	1 15/16	X	R			5345	
	2	X	R			5517	
	2 1/16	X					
	2 1/8	X	R			5862	
	2 3/16	X	R			6034	
	2 1/4	X	R			6207	
	2 5/16	X					
	2 3/8	X	R			6552	
	2 7/16	X	R			6724	
	2 1/2	X	R			6897	
	2 5/8	X					
	2 11/16	X	X			7414	
	2 7/8		R			7931	
	2 15/16		X			8104	
	3		X			8276	
	3 1/8			X			
	3 3/16			X			
	3 1/4			X			
	3 3/8			X			
	3 7/16			X			
	3 1/2			X			

NOTE: Bore sizes for flanges with "R" are reborable sizes
 ^ Sizes where the GT capacity is below element capacity

Selection instructions found on page PT1-83

SELECTION/DIMENSIONS

Standard, Straight Bore



FBX

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	A	B	C	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX40FBX	1/2	1-7/16	.68	429	4500	1	4.25	3.50	2.88	1.15	.76	4.10	.05
PX50FBX	5/8	1-7/8	1.43	900	4500	1	5.25	4.44	3.14	1.51	.96	7.70	.10
PX60FBX	7/8	2-3/16	2.86	1800	4000	1	6.50	5.59	4.08	1.84	1.28	13.50	.26
PX70FBX	7/8	2-3/8	3.49	2200	3600	1	7.38	6.13	4.63	2.00	1.50	19.90	.54
PX80FBX	1-7/16	2-7/8	5.72	3605	3100	1	8.38	6.69	5.39	2.30	1.50	30.00	1.06
PX90FBX	1-7/16	3-3/8	7.15	4502	2800	1	9.25	7.69	6.09	2.70	1.53	42.40	1.96
PX100FBX	1-7/16	3-3/8 ●	8.58	5402	2600	2	10.00	7.13	5.15	2.70	1.71	50.10	2.71
PX110FBX	1-1/2	3-3/4 ■	12.30	7750	2300	2	11.00	7.14	5.56	2.79	1.56	56.00	3.10
PX120FBX	1-1/2	3-3/4	20.00	12605	2100	2	12.38	7.75	5.84	3.00	1.75	80.20	5.81

● Shallow keyway on bores of 3-1/4", 3-3/8". Key provided.

■ Shallow keyway on bores of 3-5/8", 3-3/4". Key provided.

FBS

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	A	B	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX50FBS	5/8	1-3/8	1.43	900	4500	3	5.25	2.75	.88	.53	4.10	.05
PX60FBS	7/8	1-13/16	2.86	1800	4000	3	6.50	3.36	1.00	.71	8.20	.16
PX70FBS	7/8	2-3/16	3.49	2200	3600	3	7.38	3.57	1.00	.95	11.80	.32
PX80FBS	1-7/16	2-11/16	5.72	3605	3100	3	8.38	3.57	1.25	.95	16.60	.60
PX90FBS	1-7/16	2-7/8	7.15	4502	2800	3	9.25	4.03	1.75	.33	22.60	1.00

(1) Weight of complete coupling at maximum bore.

(2) Inertia of complete coupling at maximum bore.



SELECTION/DIMENSIONS

Standard, Straight Bore - Part Numbers

FBX Flange Assemblies

Bore (in.)	Coupling Size/Part Number								
	PX40FBX	PX50FBX	PX60FBX	PX70FBX	PX80FBX	PX90FBX	PX100FBX	PX110FBX	PX120FBX
Reborable	• 000478	• 000480	• 000481	• 000482	• 000483	• 000484	• 000485	• 000486	• 000487
Finished Bore Flanges									
5/8	• 000822	000575							
3/4	• 000823	000576							
7/8	• 000824	000577	000590	000606					
15/16	000825	000578	003251	003283					
1	• 000826	• 000579	000591	000607					
1-1/16	000827	000580	003252	003284					
1-1/8	• 000828	• 000581	• 000592	• 000608					
1-3/16	000829	000582	003253	003285					
1-1/4	• 000830	• 000583	• 000593	• 000609					
1-5/16	000831	000584	003254	003286					
1-3/8	• 000832	• 000585	• 000594	• 000610					
1-7/16	000833	000586	000595	003287	000619	000632	000649		
1-1/2		• 000587	• 000596	• 000611	• 000620	• 000633	000650	000666	000685
1-9/16			000597	003288	003323	003356	003402	003450	003501
1-5/8		• 000588	• 000598	• 000612	• 000621	• 000634	000651	000667	000686
1-11/16			000599	003289	003324	003357	003403	003451	003502
1-3/4		000589	• 000600	• 000613	• 000622	• 000635	• 000652	• 000668	000687
1-7/8		• 000573	• 000601	• 000614	• 000623	• 000636	• 000653	• 000669	000688
1-15/16			000602	003291	003326	003359	003405	003453	003504
2			000603	000615	000624	000637	000654	000670	000689
2-1/8			• 000604	• 000616	• 000625	• 000638	• 000655	• 000671	000690
2-3/16			000605	003293	003328	003361	003407	003455	003506
2-1/4				• 000617	• 000626	• 000639	• 000656	• 000672	000691
2-3/8				• 000618	• 000627	• 000640	• 000657	• 000673	000692
2-7/16					003330	003363	003409	003457	003508
2-1/2					• 000628	• 000641	000658	000674	000693
2-5/8					000629	000642	000659	000675	000694
2-3/4					000630	000643	000660	000676	000695
2-7/8					• 000631	• 000644	• 000661	• 000677	• 000696
3						000645	000662	000678	000697
3-1/8						000646	000663	000679	000698
3-1/4						000647	000664	000680	000699
3-3/8						• 000648	• 000665	• 000681	• 000700
3-1/2								000682	000701
3-5/8								000683	000702
3-3/4								000684	000703

FBS Flange Assemblies

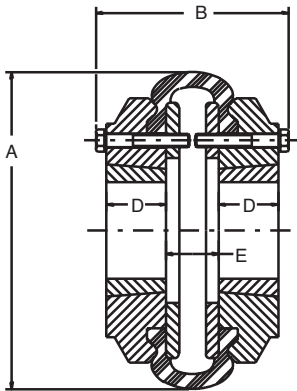
Bore (in.)	Coupling Size/Part Number				
	PX50FBS	PX60FBS	PX70FBS	PX80FBS	PX90FBS
Reborable	• 009199	• 009214	• 009215	• 009223	• 009230

- (1) Standard natural rubber element Part Numbers on Page PT1-16
- Stocked flange assemblies
- Complete coupling consists of (2) FBX or FBS flange assemblies, and (1) element.**

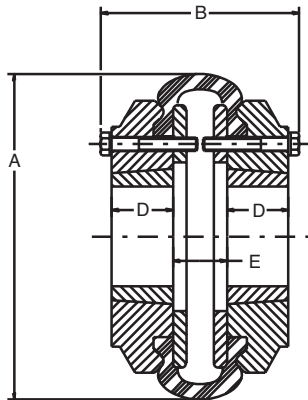
FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------

SELECTION/DIMENSIONS

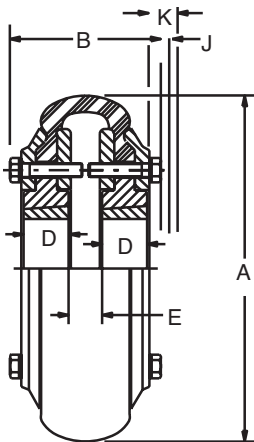
Standard, TAPER-LOCK



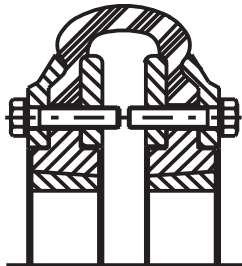
PX40 STANDARD COUPLING
TYPE H TAPER-LOCK



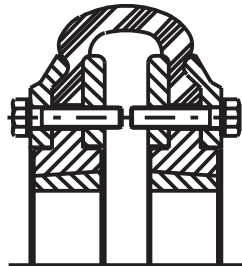
PX40 STANDARD COUPLING
TYPE F TAPER-LOCK



TYPE HF

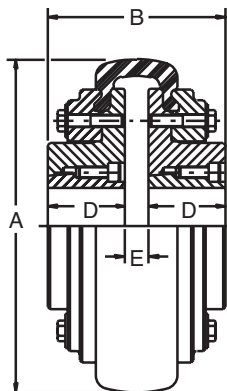


TYPE H

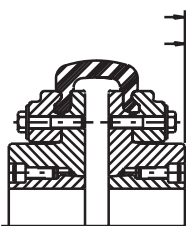


TYPE F

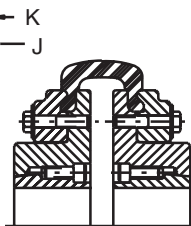
PX-50-120 PARA-FLEX TAPER-LOCK COUPLINGS



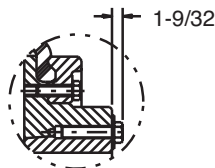
TYPE HF



TYPE H-H



TYPE F-F



PX280 & 320 ONLY

PX-140-320 PARA-FLEX TAPER-LOCK COUPLINGS

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------



SELECTION/DIMENSIONS

Standard, TAPER-LOCK

Coupling Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	A	B	D	E	J (1)	K (2)	Weight (Lbs.) (3)	Inertia (Lb-Ft ²) (4)
PX40TL	1	.68	429	4500	4.25	3.00	0.88	0.77	0.63	0.75	4.20	0.05
PX50TL	1-1/8	1.43	900	4500	5.25	2.75	0.88	0.53	0.63	0.75	4.70	0.07
PX60TL	1-7/16	2.86	1800	4000	6.50	3.34	1.00	0.72	0.81	1.06	9.20	0.21
PX70TL	1-11/16	3.49	2200	3600	7.38	3.56	1.00	0.95	0.81	1.06	13.00	0.30
PX80TL	2-1/8	5.72	3605	3100	8.38	3.75	1.25	0.77	0.94	1.38	19.60	0.73
PX90TL	2-11/16	7.15	4502	2800	9.25	4.03	1.75	0.33	1.00	1.63	28.80	1.30
PX100TL	2-11/16	8.58	5402	2600	10.00	4.22	1.75	0.52	1.00	1.63	38.00	2.20
PX110TL	2-11/16	12.30	7750	2300	11.00	4.53	1.75	0.47	1.00	1.63	52.10	3.70
PX120TL	3-1/4	20.00	12605	2100	12.38	5.03	2.00	0.44	1.19	2.06	74.40	6.60
PX140TL	3-15/16	44.00	27590	1840	14.13	7.81	3.50	0.81	1.31	2.69	156.00	18.70
PX160TL	4-7/16	60.00	37800	1560	16.63	9.19	4.00	1.19	1.63	3.38	243.00	33.70
PX200TL	4-15/16	131.00	82500	1300	20.00	10.31	4.50	1.31	1.94	4.06	417.00	101.00
PX240TL	5	240.00	151200	1080	24.13	11.91	5.00	1.91	2.31	4.81	682.00	231.00
PX280TL	7	480.00	302200	910	28.50	15.97	6.00	2.22	1.63	4.38	1148.00	544.00
PX320TL	8	719.00	453000	810	32.50	16.31	6.50	2.06	1.63	4.38	1640.00	1077.00

- Notes:** (1) Space required to tighten bushing with shortened hex key.
(2) Space required to loosen bushing with shortened hex key.
(3) Weight of complete coupling with bushing.
(4) Inertia of complete coupling with bushing.



SELECTION/DIMENSIONS

Standard, TAPER-LOCK Part Numbers

TAPER-LOCK Flange Assemblies

Coupling Size	Flange Assembly Part No.		TAPER-LOCK Bushing Size
	Type H	Type F	
PX40	000849	000848	1008
PX50	010601	*	1108
PX60	010602	*	1310
PX70	010603	*	1610
PX80	010604	*	2012
PX90	010605	*	2517
PX100	010606	*	2517
PX110	010607	*	2517
PX120	010608	*	3020
PX140	011134	011154	3535
PX160	011137	011157	4040
PX200	011140	011160	4545
PX240	011144	011164	5050
PX280	011455	011456	7060
PX320	011472	011471	8065

* PX50-PX120 have a reversible flange for type H or F mount

Complete coupling consists of (2) TAPER-LOCK Flange Assemblies, and (1) element.

Standard Natural Rubber Elements †

Coupling Size	Flexible Element Part No.
PX40	011529
PX50	011105
PX60	011106
PX70	011107
PX80	011108
PX90	011109
PX100	011110
PX110	011111
PX120	011112
PX140	011114
PX160	011117
PX200	011120
PX240	011124
PX280	011457
PX320	011463

† See page PT1-81 for optional elements





SELECTION/DIMENSIONS

Standard, TAPER-LOCK Part Numbers

Metric PARA-FLEX

TAPER-LOCK Flange Assemblies

Coupling Size	Flange Assembly Part No.		Taper-Lock Bushing Size
	Type H	Type F	
PXM40	013095	013096	1008
PXM50	013040	013041	1210
PXM60	013043	013042	1610
PXM70	013044	■	1610
PXM80	013045	■	2012
PXM90	013046	■	2517 *
PXM100	013047	■	2517 *
PXM110	013048	■	2517 *
PXM120	013049	■	3020

■ PXM70 - PXM120 have a reversible flange for type H or F mount.

* Hard metric bushing required

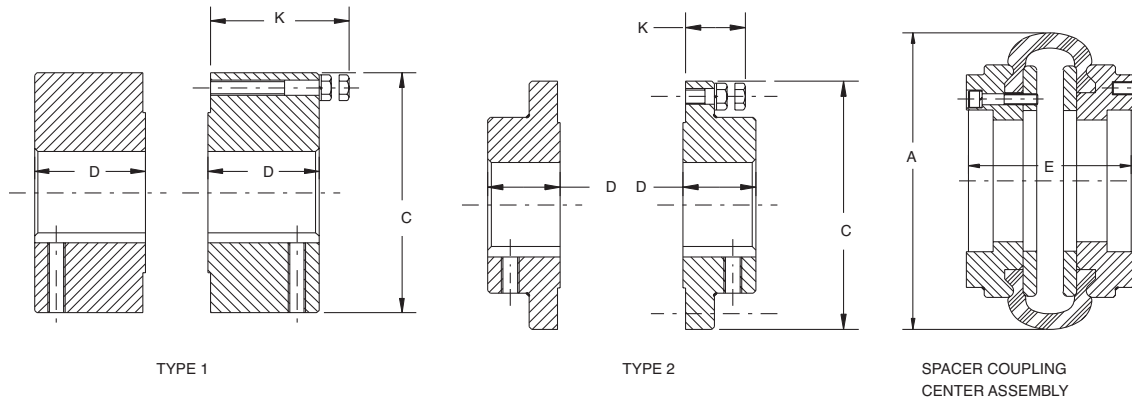
Note: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-2.





SELECTION/DIMENSIONS

Spacer, Straight Bore



Spacer Shaft Hubs

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	C	D	K (1)	Weight (Lbs.) (2)	Inertia (Lb. Ft. ²)
PS40FBX	1/2	1-7/16	0.68	429	4500	1	2.88	1.13	1.75	1.30	0.01
PS50FBX	5/8	1-7/8	1.43	900	4500	1	3.81	1.41	2.25	3.20	0.05
PS60FBX	2	2-3/16	2.86	1800	4000	1	4.45	1.59	2.56	4.90	0.11
PS60FBS	7/8	1-15/16	2.86	1800	4000	1	4.45	1.22	2.06	4.00	0.08
PS70FBX	2	2-3/8	3.49	2200	3600	1	5.02	1.78	2.63	7.10	0.18
PS70FBS	7/8	1-7/8	3.49	2200	3600	2	5.02	1.22	1.25	2.90	0.06
PS80FBX	2-1/8	3-3/8	5.72	3605	3100	1	6.02	2.53	3.38	12.90	0.53
PS80FBS	1-7/16	2-1/8	5.72	3605	3100	2	6.02	1.50	1.50	5.30	0.16
PS90FBX	2-1/8	3-3/8	7.15	4502	2800	1	6.02	2.53	3.38	12.90	0.53
PS90FBS	1-7/16	2-1/8	7.15	4502	2800	2	6.02	1.50	1.50	5.30	0.16
PS100FBX	2-5/8	3-3/4	8.58	5402	2600	1	6.77	2.53	3.50	16.50	0.85
PS100FBS	1-7/16	2-1/2	8.58	5402	2600	2	6.77	1.88	1.50	7.30	0.26
PS110FBX	2-5/8	3-3/4	12.3	7750	2300	1	6.77	2.53	3.50	16.50	0.85
PS110FBS	1-7/16	2-1/2	12.3	7750	2300	2	6.77	1.88	1.50	7.30	0.26
PS120FBX	2-5/8	3-3/4	20.0	12605	2100	2	8.27	2.81	1.88	14.40	0.50
PS120FBS	1-1/2	2-1/2	20.0	12605	2100	2	8.27	1.88	1.88	14.60	0.51

Spacer Center Assemblies

Coupling Size	A	E		Weight (Lbs.) (3)	Weight Adder (4)	Inertia (Lb.Ft. ²) (5)	Inertia Adder (6)
		Min.	Max.				
PS40	4.25	2.75	5.75	4.00	0.50	0.04	0.01
PS50	5.25	2.88	7.33	6.90	1.28	0.10	0.02
PS60	6.50	3.38	7.33	9.50	1.70	0.28	0.03
PS70	7.38	3.50	7.50	12.20	2.10	0.50	0.07
PS80	8.38	3.50	10.00	16.90	2.90	0.89	0.22
PS90	9.25	3.50	10.00	21.10	2.90	1.40	0.22
PS100	10.00	3.50	10.00	23.60	3.87	2.10	0.28
PS110	11.00	3.50	10.00	41.00	3.87	3.30	0.28
PS120	12.38	4.50	10.00	56.40	5.86	7.30	0.76

(1) Screw clearance required to remove center assembly

(2) Hub weight at maximum bore

(3) Center assembly weight at minimum length

(4) Weight adder per inch length

(5) Center assembly inertia at minimum length

(6) Inertia adder per inch length



SELECTION/DIMENSIONS

Spacer, Straight Bore Shaft Hub - Part Numbers (1)

Bore (in.)	Coupling Size/Part Number											
	PS40	PS50	PS60		PS70		PS80/90		PS100/110		PS120	
	FBX	FBX	FBS	FBX	FBS	FBX	FBS	FBX	FBS	FBX	FBS	FBX
Reborable	• 000479	• 000490	• 000492	• 000491	• 000494	000493	• 000496	• 000495	• 000498	• 000497	• 000500	• 000499
5/8	• 000836	000704										
3/4	• 000837	000705										
7/8	• 000838	000706	000719		000739							
15/16	000839	000707										
1	• 000840	• 000708	000720		000740							
1-1/16	000841	000709										
1-1/8	• 000842	• 000710	• 000721		• 000741							
1-3/16	000843	000711										
1-1/4	• 000844	• 000712	• 000722		• 000742							
1-5/16	000845	000713										
1-3/8	• 000846	• 000714	• 000723		• 000743							
1-7/16	000847	000715	000724				000759		000776			
1-1/2		• 000716	• 000725		• 000744		• 000760		000777		000796	
1-9/16			000726									
1-5/8		• 000717	• 000727		• 000745		• 000761		000778		000797	
1-11/16			000728									
1-3/4		000718	• 000729		• 000746		• 000762		• 000779		• 000798	
1-7/8		• 000574	• 000730		• 000747		• 000763		• 000780		• 000799	
1-15/16			000731									
2				000732		000735	000764		000781		000800	
2-1/8				• 000733		• 000736	000765	• 000748	• 000782		• 000801	
2-3/16				000734								
2-1/4						• 000737		• 000749	• 000783		• 000802	
2-3/8						• 000738		• 000750	• 000784		• 000803	
2-1/2								• 000751	• 000785		• 000804	
2-5/8								000752		000766		000786
2-3/4								000753		000767		000787
2-7/8								• 000754		• 000768		• 000788
3								000755		000769		000789
3-1/8								000756		000770		000790
3-1/4								000757		000771		000791
3-3/8								• 000758		• 000772		• 000792
3-1/2										000773		000793
3-5/8										000774		000794
3-3/4										000775		000795

• Stocked shaft hubs

(1) See page PT1-22 for spacer center assembly part numbers.

Complete coupling consists of:

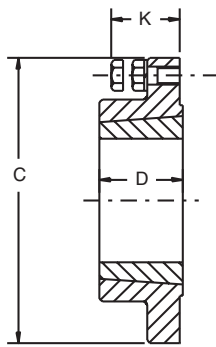
(2) Shaft Hubs, TAPER-LOCK or Straight Bore

(1) Spacer Center Assembly

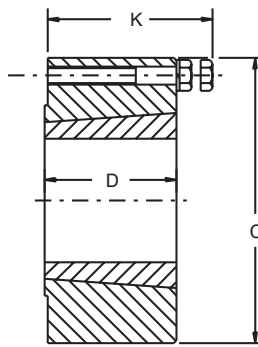
NOTE: Standard Bore Tolerances: Straight bore couplings from PX40 - PX120 are furnished with clearance fit.
PX140 - PX320 are furnished with interference fit.

SELECTION/DIMENSIONS

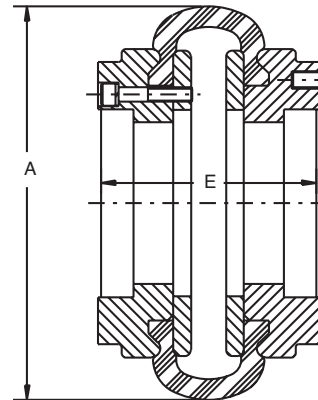
Spacer, TAPER-LOCK



TYPE 2



TYPE 1

SPACER COUPLING
CENTER ASSEMBLY

TAPER-LOCK Spacer Shaft Hubs

Coupling Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	C	D	K (1)	Weight (Lbs) (2)	Inertia (Lb. Ft. ²)
PS40TL	1	.68	429	4500	1	2.88	0.88	1.75	1.10	0.01
PS50TL	1-1/4	1.43	900	4500	2	3.81	1.00	1.00	1.80	0.02
PS60TL	1-11/16	2.86	1800	4000	2	4.44	1.00	1.00	2.40	0.03
PS70TL	2-1/8	3.49	2200	3600	2	5.00	1.25	1.00	4.00	0.07
PS80TL	2-11/16	5.72	3605	3100	2	6.00	1.75	1.25	7.70	0.22
PS90TL	2-11/16	7.15	4502	2800	2	6.00	1.75	1.25	7.70	0.22
PS100TL	2-11/16	8.58	5402	2600	2	6.75	1.75	1.25	9.00	0.28
PS110TL	2-11/16	12.30	7750	2300	2	6.75	1.75	1.25	9.00	0.28
PS120TL	3-1/4	20.00	12605	2100	2	8.25	2.00	1.50	16.60	0.76
PS140TL	3-15/16	44.00	27590	1840	1	7.69	3.50	4.50	37.00	2.20
PS160TL	4-7/16	60.00	37800	1560	1	8.63	4.00	5.00	55.00	3.90
PS200TL	4-15/16	131.00	82500	1300	1	10.00	4.50	5.50	87.40	8.00

Spacer Center Assemblies

Coupling Size	A	E		Weight (Lbs.) (3)	Weight Adder (4)	Inertia (Lb. Ft. ²) (5)	Inertia Adder (6)
		Min.	Max.				
PS40	4.25	2.75	5.75	4.00	.50	0.04	0.01
PS50	5.25	2.88	7.33	6.90	1.28	0.10	0.02
PS60	6.50	3.38	7.33	9.50	1.70	0.28	0.03
PS70	7.38	3.50	7.50	12.20	2.10	0.50	0.07
PS80	8.38	3.50	10.00	16.90	2.90	1.89	0.22
PS90	9.25	3.50	10.00	21.10	2.90	1.40	0.22
PS100	10.00	3.50	10.00	23.60	3.87	2.10	0.28
PS110	11.00	3.50	10.00	41.00	3.87	3.30	0.28
PS120	12.38	4.50	10.00	56.40	5.86	7.30	0.76
PS140	14.13	6.44	13.00	115.00	4.49	18.70	0.80
PS160	16.63	8.06	11.44	216.00	5.58	33.70	0.90
PS200	20.00	9.94	12.88	290.00	7.65	101.00	1.60

(1) Screw clearance required to remove center assembly

(2) Hub weight includes bushing at max. bore

(3) Center assembly weight at minimum length

(4) Weight adder per inch length

(5) Center assembly inertia at minimum length

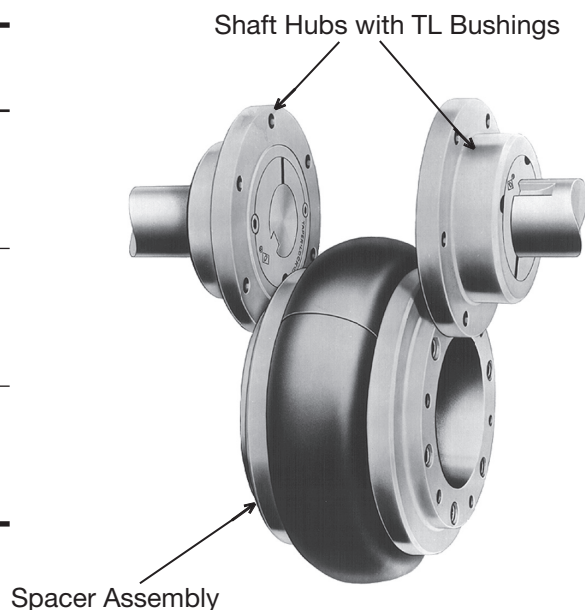
(6) Inertia added per inch length



SELECTION/DIMENSIONS

Spacer, TAPER-LOCK Shaft - Hubs Part Numbers

Coupling Size	Shaft Hub Part No.	TAPER-LOCK Bushing Size
PS40	000850	1008
PS50	011620	1210
PS60	011621	1610
PS70	011622	2010
PS80	011623	2517
PS90	011623	2517
PS100	011624	2517
PS110	011624	2517
PS120	011625	3020
PS140	011626	3535
PS160	011627	4040
PS200	011628	4545



For complete listing of part numbers for all BSE lengths, see page PT1-22 and PT1-23

Complete coupling consists of: (2) shaft hubs, TAPER-LOCK or straight bore, and (1) spacer center assembly

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-2.



SELECTION/DIMENSIONS

PARA-FLEX

Spacer Center Assembly Part Numbers

B.S.E.	PS40	PS50	PS60	PS70	PS80	PS90	PS100	PS110	PS120	PS140	PS160	PS200
2-7/8		011121										
3		011125										
3-1/8		011132										
3-1/4		011145										
3-3/8		011152	010723									
3-1/2	● 000854	● 011565	● 011567	● 011569	● 011571	● 011564	● 011579	● 011580				
3-5/8		011720	011726	011740	011775							
3-11/16								011890				
3-3/4		011721	011727	011741	011776	011589		011891				
3-7/8		011722	011728	011742	011777			011892				
4		011723	011729	● 011743	● 011778	● 011555		● 011893				
4-1/8		011724	011730	011744	011779	011810	011850	011894				
4-1/4		011725	011731	011745	011780	011811	011851	011895				
4-3/8		011582	011732	011746	011781	011812	011852	011896				
4-1/2			011583	011584		011586	011587	011897	011581			
4-5/8			011733	011747	011782	011813	011853	011898				
4-3/4			011734	011748	011783	011814	011854	011899	011935			
4-7/8				011749	011784	011815	011855	011900	011936			
5	● 000857	● 012767	● 012765	● 011750	● 011785	● 011816	● 011700	● 011705	● 011937			
5-1/8				011751	011786	011817	011856	011901	011938			
5-1/4				011752	011787	011818	011857	011902	011939			
5-5/16							011847					
5-3/8				011753	011788	011819	011858	011903	011940			
5-1/2				011754	011789	011820	011859	011904	011941			
5-5/8				011755	011790	011821	011860	011905	011942			
5-3/4	000858	000859	000861	011756	011791	011822	011861	011906	011943			
5-7/8				011757	011792	011823	011862	011907	011944			
6				● 011758	● 011793	● 011824	● 011701	● 011706	● 011710			
6-1/16												
6-1/8				011602	011794	011825	011863	011908	011945			
6-1/4				011759	011795	011826	011864	011909	011946			
6-5/16												
6-3/8				011760	011796	011827	011865	011910	011947			
6-7/16										010539		
6-1/2				011761	011797	011828	011866	011911	011948	010547		
6-5/8				011762	011798	011829	011867	011912	011949	010548		
6-3/4				011763	011799	011830	011868	011913	011950	010549		
6-7/8				011764	011604	011606	011869	011914	011951	010550		
7			● 012766	● 011765	● 011800	● 011831	● 011702	● 011707	● 011711	● 010551		
7-1/8				011766	011801	011832	011870	011915	011952	010552		
7-1/4				011767	011802	011833	011871	011916	011953	010553		
7-1/3		000860	000862		012289				012291	012290		
7-3/8				011768	011803	011834	011872	011917	011954	010554		
7-1/2				● 011603	● 011804	011835	011873	011918	011955	010555		
7-5/8					011805	011836	011874	011919	011956	010556		
7-3/4					011806	011837	011875	011920	011957	010975		
7-7/8					011807	011838	011876	011921	011958	010976		

● Stock Center Assemblies

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------



SELECTION/DIMENSIONS

PARA-FLEX

Spacer Center Assembly Part Numbers

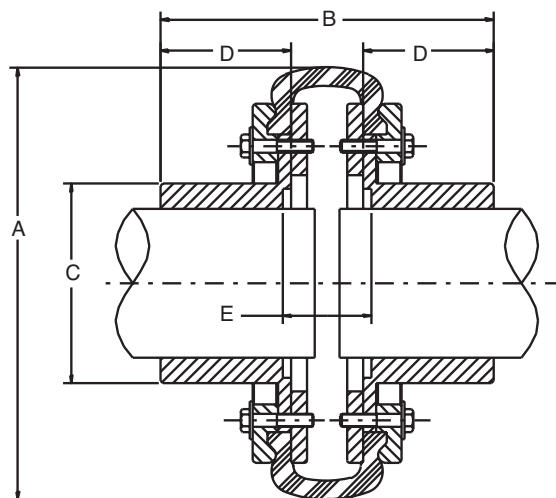
B.S.E.	PS40	PS50	PS60	PS70	PS80	PS90	PS100	PS110	PS120	PS140	PS160	PS200
Semi Fin	000851	010997	010998	011012	011000	011001	011002	011005	011006	011113	011115	011119
8					011605	011839	011703	011708	011712	010977		
8-1/16											010595	
8-1/8					009420	011840	011877	011922	011959	010978	010567	
8-3/16					009419							
8-1/4					009421	011841	011878	011923	011960	010979	010568	
8-3/8					009422	011842	011879	011924	011961	010980	010569	
8-1/2					009423	011607	011880	011925	011962	010981	010570	
8-5/8					009424			011926	011963	010982	010571	
8-3/4					009425			011927	011964	010983	010572	
8-7/8					009426			011928	011965	010984	010573	
9					009427			011709	011713	010985	010574	
9-1/8					009428			011929	011966	010986	010575	
9-3/16								011930	011967			
9-1/4					009429				012023	010987	010576	
9-3/8					009430				012024	010988	010577	
9-1/2					009431				012025	010989	010578	
9-5/8					009432				012026	010990	010579	
9-3/4					009433				012027	010991	● 010580	
9-7/8					009434				012028	010992	● 010581	
9-15/16												010699
10					● 009435	● 000863	000864	● 000865	● 012029	● 010993	● 010582	● 010675
10-1/8										010994	010583	010676
10-1/4										010995	010584	010677
10-5/16										010996		
10-3/8										009436	010585	010678
10-1/2										009437	010586	010679
10-5/8										009438	010587	010680
10-3/4										009439	010588	010681
10-7/8										009440	010589	010682
11										009441	010590	010683
11-1/8										009442	010591	010684
11-1/4										009443	010592	010685
11-3/8										009444	010593	010686
11-7/16											010594	
11-1/2										009445		010687
11-5/8										009446		010688
11-3/4										009447		010689
11-7/8										009448		010690
12										009449		010691
12-1/8										009450		010692
12-1/4										009451		010693
12-3/8										009452		010694
12-1/2										009453		010695
12-5/8										009454		010696
12-3/4										009455		010697
12-7/8										009456		010698
13										009457		

● Stock Center Assemblies

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------

SELECTION/DIMENSIONS

Bore to Size, Type BBS



PX60 Thru PX320 Type BBS Couplings

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	A	B	C	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX60BBS	none	1-1/2	2.86	1,800	4000	6.50	4.28	2.38	1.50	1.28	8.8	.21
PX70BBS	none	2-1/8	3.49	2,200	3600	7.38	5.00	2.94	1.75	1.50	12.8	.32
PX80BBS	none	2-9/16	5.72	3,605	3100	8.38	5.50	3.69	2.00	1.50	18.4	.79
PX90BBS	none	2-3/4	7.15	4,502	2800	9.25	6.03	4.13	2.25	1.53	25.6	1.4
PX100BBS	none	3-1/4	8.58	5,402	2600	10.00	6.97	4.94	2.63	1.72	36.4	2.5
PX110BBS	none	3-15/16	12.30	7,750	2300	11.00	7.56	5.44	3.00	1.56	47.3	4.2
PX120BBS	none	4	20.00	12,605	2100	12.38	8.25	5.81	3.25	1.75	68.4	7.0
PX140BBS	2-1/4	4-1/2	44.00	27,590	1840	14.13	9.81	7.00	3.88	2.44	127.2	16.4
PX160BBS	2-1/2	6	60.00	37,800	1560	16.63	12.94	8.50	5.13	3.06	210.8	39.6
PX200BBS	2-7/8	6-3/4	131.00	82,500	1300	20.00	15.56	9.38	6.13	3.75	333.5	76.9
PX240BBS	4	7-1/2	240.00	151,200	1080	24.13	14.16	10.00	5.13	4.34	481.0	188.1
PX280BBS	4-7/16	9	480.00	302,200	910	28.50	18.47	12.00	7.13	4.66	802.0	440.8
PX320BBS	5-1/2	11	719.00	453,000	810	32.50	20.75	14.00	8.13	4.94	1074.0	709.6

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore



SELECTION/DIMENSIONS

Bore to Size, Type BBS



PX60BBS - PX320BBS Part Numbers

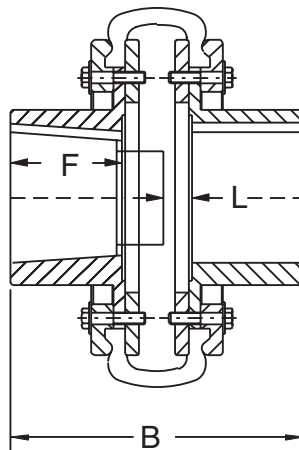
Coupling Size	BS Flange Assemblies Rough Bore	Standard Element
PX60BBS	010300	011106
PX70BBS	010301	011107
PX80BBS	010302	011108
PX90BBS	010303	011109
PX100BBS	010304	011110
PX110BBS	010305	011111
PX120BBS	010306	011112
PX140BBS	010530	011114
PX160BBS	010531	011117
PX200BBS	010532	011120
PX240BBS	010533	011124
PX280BBS	010528	011457
PX320BBS	010529	011463

When bored to size, the PX60 through PX120 BBS sizes are furnished with clearance fit, standard keyway and two-set screws. PX140 and larger sizes are furnished as interference fit with standard keyway and no setscrew.

Complete coupling consists of: (2) BS Flange Assemblies and (1) Standard Element.

SELECTION/DIMENSIONS

Mill Motor, Type TBS*



Size	For Mill Motor Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	B	F	L	Weight(1) (Lbs.)	Inertia(2) (Lb-Ft ²)
PX60TBS	602,802*	none	1-1/2	2.86	1,800	4000	5.78	3.00	0.34	10.1	0.21
PX70TBS	603 802B,802C	none	2-1/8	3.49	2,200	3600	6.75	3.50	0.50	16.1	0.32
							6.25	3.00	0.56		
PX80TBS	603,803 604804	none	2-9/16	5.72	3,605	3100	7.00	3.50	0.50	23.2	0.79
							7.00	3.50	0.50		
PX90TBS	804	none	2-3/4	7.15	4,502	2800	7.28	3.50	0.53	29.9	1.4
PX100TBS	804	none	3-1/4	8.58	5,402	2600	7.84	3.50	0.72	44.4	2.5
PX110TBS	606,806 608	none	3-15/16	12.30	7,750	2300	8.56	4.00	0.59	62.3	4.2
							9.06	4.50	0.16		
PX120TBS	608,806 608,808	none	4	20.00	12,605	2100	9.00	4.00	0.63	81.4	7.0
							9.50	4.50	0.50		
PX140TBS	808 610-810 612	2-1/4	4-1/2	44.00	27,590	1840	10.63	4.69	1.19	136.2	16.4
							10.63	4.69	1.06		
							11.06	5.13	0.94		
PX160TBS	810 612-812 614	2-1/2	6	60.00	37,800	1560	12.50	4.69	1.69	227.8	39.6
							12.94	5.13	1.56		
							12.94	5.13	1.44		
PX200TBS	812 614-814 616-816 618-818	2-7/8	6-3/4	131.00	82,500	1300	14.63	5.19	2.19	344.5	76.9
							14.63	5.19	2.06		
							15.13	5.69	1.94		
							15.56	6.13	2.38		
PX240TBS	818 620	4	7-1/2	240.00	151,200	1080	15.22	6.19	2.97	519	188.1
							15.91	6.88	2.53		
PX280TBS	622 624	5-1/4	9	480.00	302,200	910	18.78	7.44	2.22	836	440.8
							20.78	9.44	2.22		

◆ Refer to page PT1-24 for additional envelope information

* 1-1/4" per foot taper on diameter



SELECTION/DIMENSIONS

Mill Motor, Type TBS*

PX60 - PX280 TBS Part Numbers

Coupling Size	For Mill Motor Size	TS Flange Assy (1) Req'd +	Std. Element (1) Req'd	BS Flange Assy (1) Req'd
PX60TBS	602,802*	010471	011106	See Page PT1-25
PX70TBS	603 802B,802C	010472 010473	011107	
PX80TBS	603,803 604,804	010474	011108	
PX90TBS	804	010475	011109	
PX100TBS	804	010476	011110	
PX110TBS	606,806 608	010477 010478	011111	
PX120TBS	606,806 608,808	010479 010480	011112	
PX140TBS	608,808 610,810 612,812	008980 008981 008982	011114	
PX160TBS	610,810 612,812 614	008983 008984 008985	011117	
PX200TBS	612,812 614,814 616,816 618,818	008986 008987 008988 008989	011120	
PX240TBS	818 620	008990 008991	011124	
PX280TBS	622 624	008992 008993	011457	

Coupling Size	TS Flange Assy Rough Bore
PX60TBS	010510
PX70TBS	010511
PX80TBS	010512
PX90TBS	010513
PX100TBS	010514
PX110TBS	010515
PX120TBS	010516
PX140TBS	010524
PX160TBS	010531
PX200TBS	010532
PX240TBS	010525
PX280TBS	010526

Complete coupling consists of:

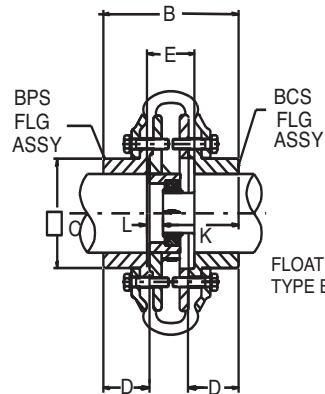
- (1) TS Flange Assembly,
- (1) BS Flange Assembly, and
- (1) Standard Element.

* Key furnished for shallow keyways.

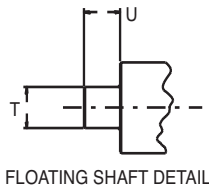
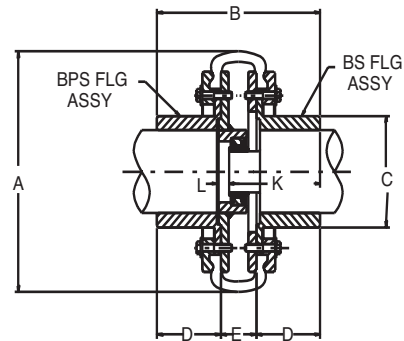
+ Part numbers are finished bore flanges to fit mill motor sizes listed.

SELECTION/DIMENSIONS

Floating Shaft, Type BBPS



PX60 -120 BBPS

FLOATING SHAFT
TYPE BBPS

PX140-320 BBPS

Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max RPM	A	B	C	D	E	K	L	T	U	Weight (Lbs)	Inertia (Lb-Ft ²)
PX60BBPS	none	1-1/2	2.86	1,800	4000	6.50	4.28	2.38	1.50	1.78	2.45	0.58	.624/.6225	1.28	9.8	0.21
PX70BBPS	none	2-1/8	3.49	2,200	3600	7.38	5.00	2.94	1.75	2.06	3.05	0.48	.999/.9975	1.58	14.6	0.32
PX80BBPS	none	2-9/16	5.72	3,605	3100	8.38	5.50	3.69	2.00	2.00	3.30	0.45	.999/.9975	1.58	26.9	0.79
PX90BBPS	none	2-3/4	7.15	4,502	2800	9.25	6.03	4.13	2.25	2.09	3.67	0.39	1.249/1.2475	1.70	29.0	1.4
PX100BBPS	none	3-1/4	5.85	5,402	2600	10.00	6.97	4.94	2.63	2.16	4.13	0.44	1.249/1.2475	1.72	40.1	2.5
PX110BBPS	none	3-15/16	12.30	7,750	2300	11.00	7.56	5.44	3.00	2.06	4.44	0.38	1.249/1.2475	1.69	51.0	4.2
PX120BBPS	none	4	20	12,605	2100	12.38	8.25	5.81	3.25	2.44	4.89	0.45	1.499/1.497	1.98	75.7	7.0
PX140BBPS	2-1/4	4-1/2	44	27,590	1840	14.13	9.19	7.00	3.88	2.44	5.69	0.44	1.499/1.497	2.00	140.2	16.4
PX160BBPS	2-1/2	6	60	37,800	1560	16.63	12.94	8.50	5.13	3.06	7.25	0.75	1.499/1.497	2.94	230.8	39.6
PX200BBPS	2-7/8	6-3/4	131	82,500	1300	20.00	15.56	9.38	6.13	3.69	8.78	0.84	1.999/1.997	2.84	364.5	76.9
PX240BBPS	4	7-1/2	240	151,200	1080	24.13	14.16	10.00	5.13	4.28	8.06	1.16	1.999/1.997	3.12	529.0	188.1
PX280BBPS	4-7/16	9	480	302,200	910	28.50	18.47	12.00	7.13	4.59	10.22	1.31	1.999/1.997	3.28	877.0	440.8
PX320BBPS	5-1/2	11	719	453,000	810	32.50	20.75	14.00	8.13	4.88	11.38	1.44	1.999/1.997	3.44	1181.0	709.6

Complete coupling consists of:

- (1) BCS or BS Flange Assembly
(depending on size of coupling),
(1) BPS Flange Assembly, and
(1) Standard Element.

BCS Flange Assembly consists of:

1. External Clamp Ring
2. Internal Clamp Ring
3. BCS Flange

BPS Flange Assembly consists of:

1. External Clamp Ring
2. Piloted Internal Clamp Ring
 - a. Includes floating shaft bearing assembly
3. BS Flange

PX60BBPS - PX320BBPS Part Numbers

Coupling Size	BCS Flange Assy (1) Req'd	BPS Flange Assy (1) Req'd	Std Element (1) Req'd
PX60BBPS	010658	010657	011106
PX70BBPS	010660	010659	011107
PX80BBPS	010189	010190	011108
PX90BBPS	010191	010192	011109
PX100BBPS	010193	010194	011110
PX110BBPS	010599	010598	011111
PX120BBPS	010195	010196	011112

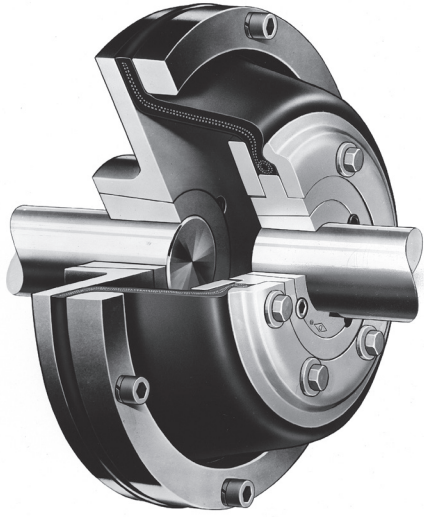
Coupling Size	BS Flange Assy (1) Req'd	BPS Flange Assy (1) Req'd	Std Element (1) Req'd
PX140BBPS	010530	011714	011114
PX160BBPS	010531	011715	011117
PX200BBPS	010532	011716	011120
PX240BBPS	010533	011717	011124
PX280BBPS	010528	011718	011457
PX320BBPS	010529	011719	011463

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-4	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
---------------------------------	--	---	--------------------------------------



FEATURES/BENEFITS

PARA-FLEX High Speed and Flywheel Couplings



HIGH SPEED TYPE

- Compensates for misalignment
- Cushions thrust loads
- Absorbs vibration and shock
- Prolongs bearing life
- Available in TAPER-LOCK and bored to sizes

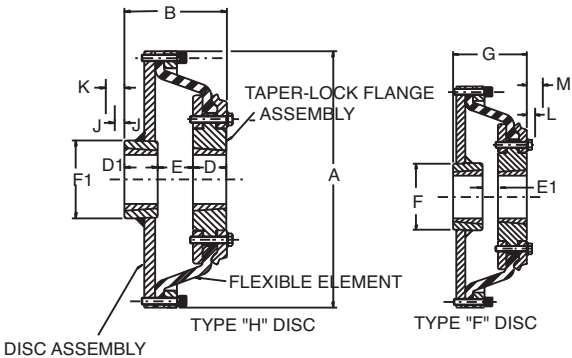


FLYWHEEL TYPE

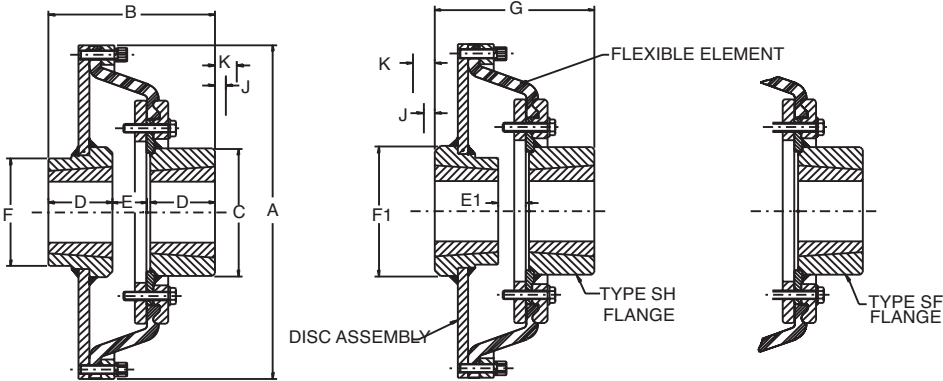
- Specifically designed to connect the flexible element to standard SAE flywheel bolt patterns
- Available in TAPER-LOCK and bored to configurations

SELECTION/DIMENSIONS

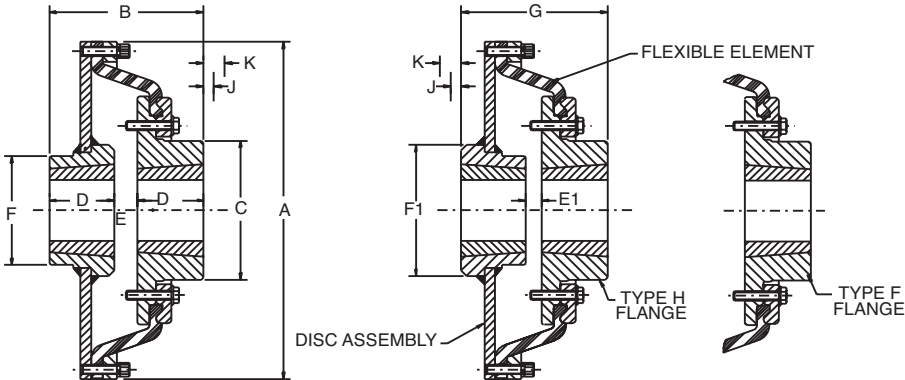
High Speed, TAPER-LOCK



PH87 THRU PH131



PH172 thru PH252 STEEL FLANGE ASSEMBLY



PH172 & PH192 IRON FLANGE ASSEMBLY

FEATURES/BENEFITS PAGE PT1-29	SELECTION/DIMENSION PAGE PT1-30	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	------------------------------------	---	--------------------------------------



SELECTION/DIMENSIONS

High Speed, TAPER-LOCK

Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM		Weight (Lbs)		Inertia (Lb-Ft ²)	
						Gray Iron Flange	Steel Flange	Iron Flg	Steel Flg	Iron Flg	Steel Flg
PH87	+	1/2	+	3.0	1890	6000	.....	19.5	.....	1.32	.....
PH96	*	1/2	*	4.5	2835	5230	.....	27.2	.....	2.44	.....
PH116	2517	1/2	2-11/16	7.1	4470	4050	.....	40.8	.....	4.92	.....
PH131	2517	1/2	2-11/16	9.5	5985	3750	.....	59.7	.....	8.87	.....
PH172	3535	1-3/16	3-15/16	23.0	14490	1860	2800	138.2	128.5	31.74	29.98
PH192	4040	1-7/16	4-7/16	47.0	29610	1620	2430	219.6	219.6	51.09	50.37
PH213	4545	1-15/16	4-15/16	90.0	56700	.....	2130	.....	291.2	102.3	90.22
PH252	5050	2-7/16	5-5/16	135.0	85050	.....	1945	.....	389.9	144.1	133.7

Coupling Size	A	B		C		D	D ¹	E	
		Iron Flg	Steel Flg	Iron Flg	Steel Flg			Iron Flg	Steel Flg
PH87	9.44	3.53	.....	.....	.....	1.00	1.75	0.81	.....
PH96	10.31	4.30	.....	.....	.....	1.25	1.75	1.33	.....
PH116	12.31	4.44	.....	.....	.....	1.75	1.75	1.14	.....
PH131	13.81	5.45	.....	.....	.....	1.75	1.75	1.95	.....
PH172	18.31	8.06	8.97	7.50	7.00	3.50	.....	1.06	1.88
PH192	20.31	9.31	10.25	8.63	8.50	4.00	.....	1.31	2.25
PH213	22.50	.....	11.31	.....	8.75	4.50	.....	.....	2.31
PH252	26.50	.....	14.31	.....	9.50	5.00	.....	.....	4.31

Coupling Size	E ¹		F	F1	G		J★	K†	L★	M†
	Iron Flg	Steel Flg			Iron Flg	Steel Flg				
PH87	0.50	.....	4.12	4.19	3.28	.....	1.00	1.63	0.81	1.06
PH96	0.45	.....	4.12	4.19	3.42	.....	1.00	1.63	0.94	1.38
PH116	0.33	.....	4.12	4.19	3.63	.....	1.00	1.63	1.00	1.63
PH131	0.77	.....	4.12	4.19	4.27	.....	1.00	1.63	1.00	1.63
PH172	0.63	1.44	6.25	7.12	7.62	8.53	1.31	2.69	.....	.....
PH192	0.38	1.31	7.75	8.62	8.38	9.31	1.63	3.38	.....	.....
PH213	.....	1.44	8.75	9.75	.....	10.44	1.94	4.06	.....	.....
PH252	.....	2.94	9.50	10.88	.....	12.94	2.31	4.81	.....	.....

★ Space required to tighten bushing with shortened hex key or to loosen screws to permit removal of the hub by a puller

† Space required to loosen bushing with the shortened hex key using screws as hack screws - no puller required.

PH87 - PH252 Part Numbers

Coupling Size	TAPER-LOCK Flange (1) Req'd						Disc Assy (1) Req'd	HS Element (1) Req'd	Bushing Size
	Std Flange	Flange Size	Iron Flange		Steel Flange				
			Type H	Type F	Type SH	Type SF			
PH87	010603	PX70	.....	.....	.....	.....	011307	011227	+
PH96	010604	PX80					011308	011228	*
PH116	010606	PX100	.....	.....	.....	.....	011310	011230	2517
PH131	010607	PX110					011311	011231	2517
PH172	.....	PX140	011134	011154	010290	010294	011314	011234	3535
PH192		PX160	011137	011157	010291	010295	011316	011236	4040
PH213	.....	PX190	.....	.....	010292	010296	011319	011239	4545
PH252		PX220			010293	010297	011322	011242	5050

+ Flange assembly uses a 1610 bushing with 1-11/16 max. bore

Disc assembly uses a 2517 bushing with 2-11/16 max. bore

* Flange assembly uses a 2012 bushing with 2-1/8 max. bore

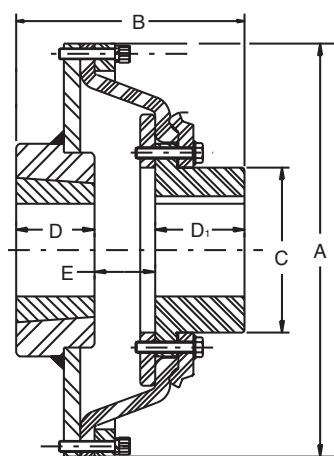
Disc assembly uses a 2517 bushing with 2-11/16 max. bore

Complete coupling consists of: (1) TAPER-LOCK Flange Assembly, (1) TAPER-LOCK Disc Assembly, & (1) High speed Element. TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-16.

FEATURES/BENEFITS PAGE PT1-29	SELECTION/DIMENSION PAGE PT1-30	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	------------------------------------	---	--------------------------------------

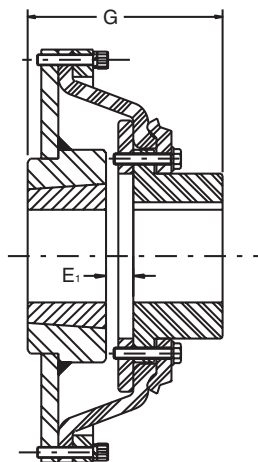
SELECTION/DIMENSIONS

High Speed, Bored to Size

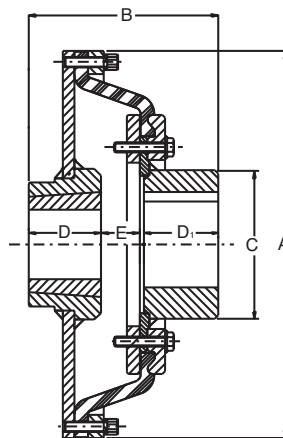


TYPE "H" DISC

SIZE PH87 - 131

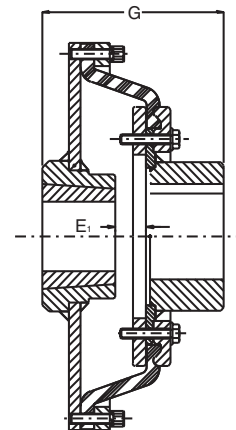


TYPE "F" DISC



TYPE "F" DISC

SIZE PH172 - 252



TYPE "H" DISC

Coupling Size	BS Flange Assembly		TAPER-LOCK Disc Assembly		A	B	C	D	D1	E	E1	G	Weight (Lbs)	Inertia (Lb-Ft ²)
	Min Bore	Max Bore	Min Bore	Max Bore										
PH87B	none	2-1/8	1/2	2-11/16	9.44	4.59	2.94	1.75	1.75	1.09	0.81	4.31	20.1	1.33
PH96B	none	2-9/16	1/2	2-11/16	10.31	5.44	3.69	1.75	2.00	1.69	0.81	4.56	28.0	2.47
PH116B	none	3-1/4	1/2	2-11/16	12.31	6.13	4.94	1.75	2.63	1.75	0.97	5.31	42.8	5.31
PH131B	none	3-15/16	1/2	2-11/16	13.81	7.25	5.44	1.75	3.00	2.50	1.31	6.06	60.1	9.08
PH172B	2-1/4	4-1/2	1-3/16	3-15/16	18.31	9.06	7.00	3.50	3.88	1.88	1.44	8.63	135.2	30.98
PH192B	2-1/2	6	1-7/16	4-7/16	20.31	11.19	8.50	4.00	5.13	2.25	1.31	10.25	220.6	54.27
PH213B	2-1/2	6-1/4	1-15/16	4-15/16	22.50	11.31	8.75	4.50	4.69	2.31	1.44	10.44	289.2	91.62
PH252B	2-7/8	6-7/8	2-7/16	5-5/16	26.50	14.31	9.50	5.00	5.19	4.31	2.94	12.94	379.9	135.9

Coupling Size	BS Flange Assy (1) Req'd	TAPER-LOCK Disc Assy (1) Req'd	TAPER-LOCK Bushing Size	HS Element (1) Req'd
PH87B	010301	011307	2517	011227
PH96B	010302	011308	2517	011228
PH116B	010304	011310	2517	011230
PH131B	010305	011311	2517	011231
PH172B	010530	011314	3535	011234
PH192B	010531	011316	4040	011236
PH213B	010508	011319	4545	011239
PH252B	010509	011322	5050	011242

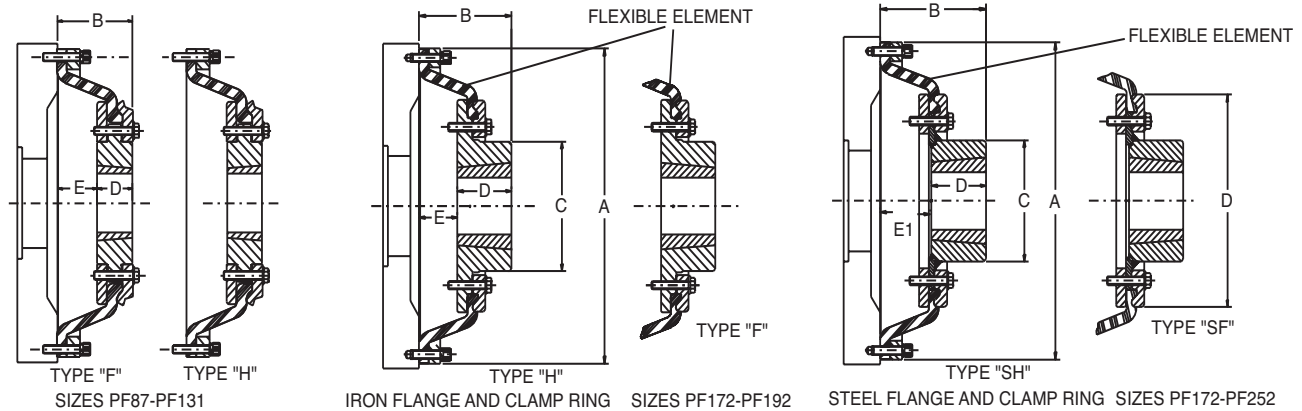
Complete coupling consists of: (1) BS Flange Assembly, (1) TAPER-LOCK Disc Assembly, (1) High Speed Element, and (1) TAPER-LOCK Bushing. TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-16.

FEATURES/BENEFITS PAGE PT1-29	SELECTION/DIMENSION PAGE PT1-30	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	------------------------------------	---	--------------------------------------



SELECTION/DIMENSIONS

Flywheel, TAPER-LOCK



Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM		A	B	
						Gray Iron Flange	Steel Flange		Iron Flg.	Steel Flg.
PF87	1610	1/2	1-11/16	3.00	1890	6000	6000	9.44	2.69	.....
PF96	2012	1/2	2-1/8	4.50	2835	5230	5230	10.31	2.83	.....
PF116	2517	1/2	2-11/16	7.10	4470	4050	4050	12.31	3.14	.....
PF131	2517	1/2	2-11/16	9.50	5985	3750	3750	13.81	3.70	.....
PF172	3535	1-3/16	3-15/16	23.00	14490	1860	2800	18.31	5.81	6.72
PF192	4040	1-7/16	4-7/16	47.00	29610	1620	2430	20.31	6.56	7.50
PF213	4545	1-15/16	4-15/16	90.00	56700	.....	2130	22.50	.....	9.00
PF252	5050	2-7/16	5-5/16	135.00	85050	.....	1945	26.50	.....	10.81

Coupling Size	Bushing Size	C		D	E	E1	Weight (Lbs) Less Bushing		Inertia (Lb-Ft ²)	
		Iron Flg.	Steel Flg.				Iron Flgs	Steel Flgs	Iron Flgs	Steel Flgs
PF87	1610	.....	.....	1.00	1.34	....	9.9	.....	0.6	.....
PF96	2012	.....	.....	1.25	1.58	....	13.5	.....	1.05	.....
PF116	2517	.....	.....	1.75	1.39	....	22.3	.....	2.35	.....
PF131	2517	.....	.....	1.75	1.95	....	33.3	.....	4.35	.....
PF172	3535	7.50	7.00	3.50	2.31	3.12	87.2	77.5	17.49	15.73
PF192	4040	8.63	8.50	4.00	2.56	3.50	128.6	128.6	28.84	28.12
PF213	4545	.....	8.75	4.50	-	4.50	221.2	190.2	74.47	64.36
PF252	5050	.....	9.50	5.00	-	5.81	297.9	260.9	121.79	111.38

PF87 THRU PF252 Part Numbers

Coupling Size	TAPER-LOCK Flange (1) Req'd					Bolt Ring Assy (1) Req'd	High Speed Element (1) Req'd	T-L Bushing Size
	Std Flange	Iron Flange		Steel Flange				
		Type H	Type F	Type SH	Type SF			
PF87	010603	.....	.....	.....	.....	011247	011227	1610
PF96	010604	.....	.....	.....	.....	011248	011228	2012
PF116	010606	.....	.....	.....	.....	011250	011230	2517
PF131	010607	.....	.....	.....	.....	011251	011231	2517
PF172	.....	011134	011154	010290	010294	011254	011234	3535
PF192	.....	011137	011157	010291	010295	011256	011236	4040
PF213	.....	.....	.....	010292	010296	011259	011239	4545
PF252	.....	.....	.....	010293	010297	011262	011242	5050

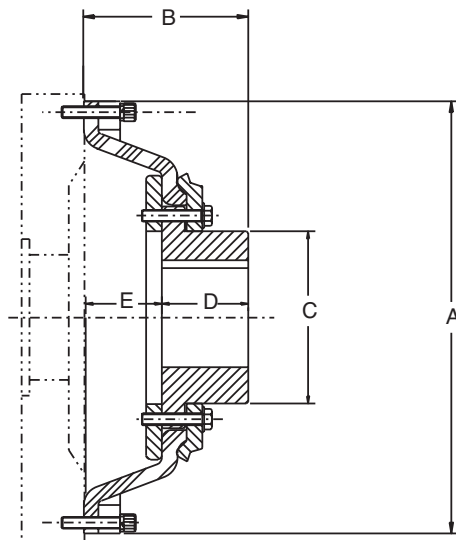
Complete coupling consists of: (1) TAPER-LOCK Flange Assembly (as selected), (1) Bolt Ring Assembly, (1) High Speed Element, and (1) TAPER-LOCK Bushing. TAPER-LOCK Bushings must be ordered separately.

See page PT1-34 for Flywheel & Power Take Off housing information. Refer to bushing section PT6-16.

FEATURES/BENEFITS PAGE PT1-29	SELECTION/DIMENSION PAGE PT1-30	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	------------------------------------	---	--------------------------------------

SELECTION/DIMENSIONS

Flywheel, Bored to Size



PF87B THRU PF252B Bored-To-Size Flywheel Couplings

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM Steel Flg	A	B	C	D	E	Weight (Lbs)	Inertia (Lb-Ft ²)
PF87B	none	2-1/8	3.0	1890	6000	9.44	3.38	2.94	1.75	1.63	10.5	0.61
PF96B	none	2-9/16	4.5	2835	5230	10.31	3.94	3.69	2.00	1.94	14.3	1.08
PF116B	none	3-1/4	7.1	4470	4050	12.31	4.68	4.94	2.63	2.00	24.3	2.47
PF131B	none	3-15/16	9.5	5980	3750	13.81	5.50	5.44	3.00	2.50	33.7	4.56
PF172B	2-1/4	4-1/2	23.0	14490	2800	18.31	6.81	7.00	3.88	3.13	84.2	16.73
PF192B	2-1/2	6	47.0	29610	2430	20.31	8.44	8.50	5.13	3.50	129.6	32.02
PF213B	2-1/2	6-1/4	90.0	56700	2130	22.50	9.00	8.75	4.69	4.50	188.2	65.76
PF252B	2-7/8	6-7/8	135.0	85050	1945	26.50	10.81	9.50	5.19	5.81	250.9	113.58

PF87 - PF252B Part Numbers

Coupling Size	BS Flange Assy (1) Req'd	Bolt Ring Assy (1) Req'd	High Speed Element (1) Req'd
PF87B	010301	011247	011227
PF96B	010302	011248	011228
PF116B	010304	011250	011230
PF131B	010305	011251	011231
PF172B	010530	011254	011234
PF192B	010531	011256	011236
PF213B	010508	011259	011239
PF252B	010509	011262	011242

Complete coupling consists of: (1) BS Flange Assembly, (1) Bolt Ring Assembly, and (1) High Speed Element.

SAE Power Take Off & Flywheel Info.

Coupling Size	Fits Within These SAE Power Take-Off Housings	SAE Flywheel		
		Bolt Circle Diam.	Tapped Holes	
			No.	Size
PF87	6,5	8-3/4	8	5/16-18
PF96	4,3	9-5/8	6	3/8-16
PF116	4,3,2,1	11-5/8	8	3/8-16
PF131	3,2,1,0	13-1/8	8	3/8-16
PF172	0	17-1/4	8	1/2-13
PF192	0	19-1/4	8	1/2-13
PF213	0	21-3/8	6	5/8-11
PF252	0	25-1/4	12	5/8-11

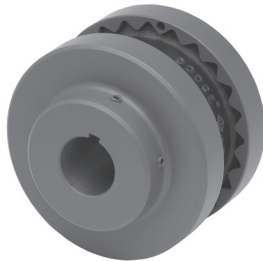


D-FLEX Couplings



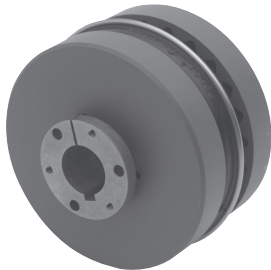
FLEXIBLE SOLUTIONS LOW COST TYPE J COUPLINGS OFFERED IN FOUR SIZES

- Features zinc die-cast flanges that are bored to size
- Accommodates applications through 10 HP at 1750 RPM
- Available with EPDM or Neoprene sleeves
- Shaft attachment with two setscrews at 65°



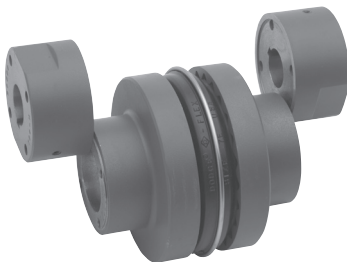
TYPE S COUPLINGS FEATURE AGMA 9 BALANCED FLANGES OFF THE SHELF

- High-strength, cast iron flanges that are finished bored for AGMA clearance fit
- Offers plain bore for reboring
- Available with EPDM, Neoprene or Hytel* sleeves
- Shaft attachment with two setscrews at 65°



TYPE B COUPLINGS OFFERED WITH STANDARD QD† BUSHING SHAFT ATTACHMENT

- Constructed from high-strength cast iron
- Available with EPDM or Neoprene sleeves



TYPE SC SPACER COUPLINGS SATISFY STANDARD SPACING REQUIREMENTS FOR PUMP APPLICATIONS

- Accommodates wide range of shaft spacing
- Features AGMA 9 balanced flanges & drop-out center for easy equipment maintenance
- Available with EPDM, Neoprene or Hytrel sleeves
- Uses H & HS shaft hubs that are bored to size for slip fit or offered with plain bore for reboring
- Shaft attachment with two setscrews at 65°
- Shaft hub flats are used for holding shafts stationary while loosening or tightening grade 8 bolts

★ Registered trademark of DuPont

† QD is a registered trademark of Emerson Electric Co.



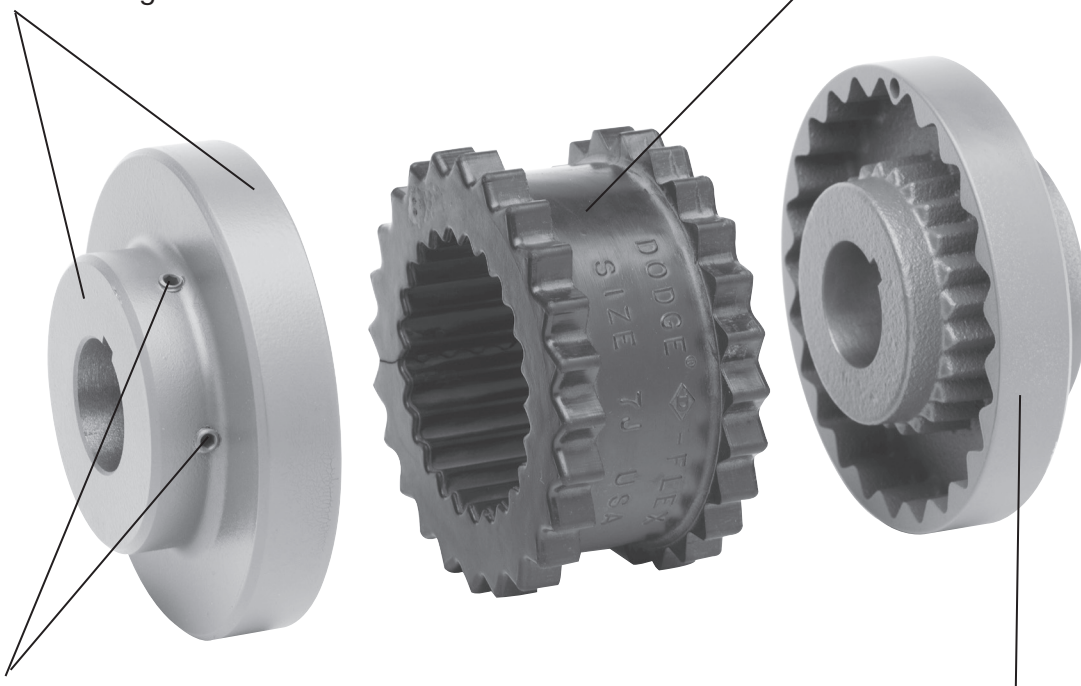
FEATURES/BENEFITS

D-FLEX Couplings

ADDED VALUE

Outside diameter
concentric to bore for
ease in alignment

Rounded EPDM and Neoprene
element edges for full tooth
engagement, even load distribution,
and reduced stress build up at edges



Two setscrews at 65° on Type J flanges,
Type S flanges & Type SC-H hubs for
optimum shaft attachment. Holding
force is 10% greater than two setscrews
at 90°

ATEX Approved

- Documents available

Type S and SC flanges are balanced
to AGMA 9 specifications for reduced
vibration

INTERCHANGEABLE COMPONENTS MAKE INSTALLATION QUICK, EASY

- Interchangeable with other elastomeric sleeve couplings
- Slides into position for snug fit

NO LUBRICATION ASSURES TROUBLE-FREE OPERATION

- No metal-to-metal contact
- Provides clean, quiet, trouble-free performance

NOTE: All instruction manuals for D-FLEX Coupling and QD and TL Bushings available on www.dodge-pt.com



D-FLEX

SPECIFICATION

D-FLEX Couplings employ a molded, non-lubricated elastomeric flexing sleeve loaded in shear. The flexible sleeve shall be of EPDM, Neoprene, or Hytrel. The compound of EPDM shall be suitable for operation in ambient temperature from -30°F to +275°F, Neoprene 0°F to +200°F, and Hytrel -65°F to +250°F. Both EPDM and Neoprene sleeves shall have torsional flexing capability of 15° and accommodate 1° of angular misalignment. Hytrel sleeves, suitable to transmit four times the power of EPDM or Neoprene, has torsional flexing capability of 7° and 1/4° of angular misalignment.

The flexible sleeve is connected with external and internal gear teeth that engage with mating teeth in each flange. The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit or QD Bushings. Clearance fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

Spacer Couplings consist of two hubs and a center assembly consisting of two spacer hubs and one flexible element. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment and must be replaceable without disturbing the coupled equipment and without realignment.

D-FLEX couplings are static conductive except the ones with Hytrel element.

HOW TO ORDER

Standard couplings consist of:	Spacer Couplings consist of:
(2) Flange Assemblies	(2) Shaft Hubs
(1) Flexible Sleeve	(2) Spacer Flanges
	(1) Flexible Sleeve

NOMENCLATURE



6 JE / 2 - 6J X 7/8

SIZE _____

SLEEVE _____

(JE, JES, E, JN, JNS, N, H, HS)

FLANGE QTY. _____

FLANGE SIZE AND TYPE _____

(J, S, B, SC-H)

FLANGE BORE _____

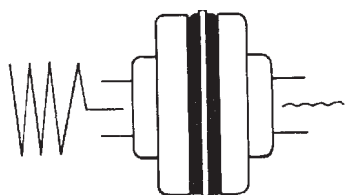
For selection method, please refer to page PT1-83



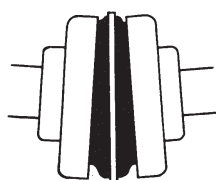
SELECTION/DIMENSIONS

D-FLEX Couplings

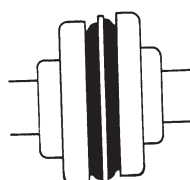
FOUR-WAY FLEXING ACTION HANDLES SHOCK, VIBRATION & MISALIGNMENT



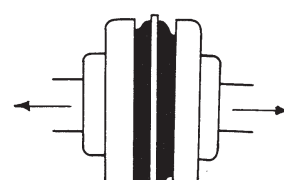
TORSIONAL
Absorbs torsional shock, dampens torsional vibrations



ANGULAR
Allows for angular misalignment



PARALLEL
Minimizes bearing loads, absorbs parallel misalignment with less wear and energy loss



AXIAL
Allows for shaft end-float

D-FLEX Coupling Sleeves

	EPDM Rubber	Neoprene	Hytrel(1)
One-Piece Solid Construction	JE	JN	H
One-Piece Split Construction	JES	JNS	-
Two-Piece Construction	E	N	HS
Sizes Offered	3 - 10 JE, JES 4 - 16 E	3 - 10 JN, JNS 4 - 14 N	6 - 12 H, HS
Temperature Range	-30°F to +275°F	0°F to +200°F	-65°F to +250°F
Max Angular	1°	1°	1/4°
Max Parallel(2)	.010" -.062"	.010" -.062"	.010" -.035"
Axial End-Float(2)(3)	.03" -.125"	.03" -.125"	.06" -.125"
Torsional Flexibility	15° Wind Up	15° Wind Up	7° Wind Up
Application Use	General	Good Oil Resistance	Downsizing For Use Of Smaller Couplings

(1) Do not use with J or B flanges or as a replacement for other sleeves

(2) Depends on coupling size.

(3) Increase the E dimension by this amount to accommodate end float.



SELECTION/DIMENSIONS

D-FLEX Couplings

D-FLEX Coupling Sleeves - Part Numbers

Coupling Size	EPDM			Neoprene			Hytrel	
	JE	JES	E	JN	JNS	N	H	HS
3	• 004208	• 004242		• 004209	• 004243			
4	• 004210	• 004244	• 022190	• 004211	• 004245	• 022211		
5	• 004212	• 004246	• 022191	• 004213	• 004247	• 022212		
6	• 004214	• 004248	• 022192	• 004215	• 004249	• 022213	• 022183	• 022232
7	• 004216	• 004250	• 022193	• 004217	• 004251	• 022214	• 022184	• 022233
8	• 004218	• 004252	• 022194	• 004219	• 004253	• 022215	• 022185	• 022234
9	• 004220	• 004254	• 022195			• 022216	• 022186	• 022235
10	• 004222	• 004256	• 022196			• 022217	• 022187	• 022236
11			• 022197			• 022218	022188	022237
12			• 022198			• 022219	022189	022238
13			• 021990			021993		
14			• 021991			021994		
16			• 021992					

• Stocked sleeves

D-FLEX Flange/Sleeve Compatibility

Flange Style	EPDM		Neoprene		Hytrel	
	JE/JES 1 Piece	E 2 Piece	JN/JNS 1 Piece	N 2 Piece	H 1 Piece	HS 2 Piece
Type J	√	√	√	√		
Type S	√	√	√	√	√	√
Type B Bushed	√	√	√	√		
SC Spacer	√	√	√	√	√	√

D-FLEX Section/Ratings Data

Element Size	Max. Bore				Max RPM	EPDM & Neoprene		Hytrel	
	Straight Bore			Bushes		HP/100	Rated Torque (In-Lbs)	HP/100	Rated Torque (In-Lbs)
	Type J	Type S	Type SC	Type B					
3	7/8	-	-	-	9200	0.10	60	-	-
4	1	-	-	-	7600	0.19	120	-	-
5	1-1/8	1-1/4	1-1/8	-	7600	0.38	240	-	-
6	1-3/8	1-7/8	1-3/8	1-3/16	6000	0.71	450	2.90	1,800
7	-	1-7/8	1-5/8	1-3/16	5250	1.20	725	4.60	2,875
8	-	2-3/8	1-7/8	1-5/8	4500	1.80	1,135	7.20	4,530
9	-	2-7/8	2-1/8	1-15/16	3750	2.80	1,800	11.40	7,200
10	-	3-3/8	2-3/8	2-1/2	3600	4.60	2,875	18.00	11,350
11	-	3-7/8	2-7/8	2-13/16	3600	7.20	4,530	28.60	18,000
12	-	3-15/16	2-7/8	3-1/2	2800	11.40	7,200	50.00	31,500
13	-	4-1/2	3-3/8	3-15/16	2400	18.00	11,350	75.00	47,268
14	-	5	3-7/8	3-15/16	2200	28.60	18,000	115.00	72,480
16	-	6	-	4-1/2	1500	75.00	47,250	-	-

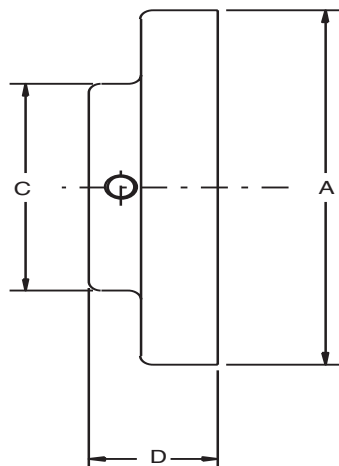
FEATURES/BENEFITS PAGE PT1-35	SPECIFICATION/HOW TO ORDER PAGE PT1-37	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



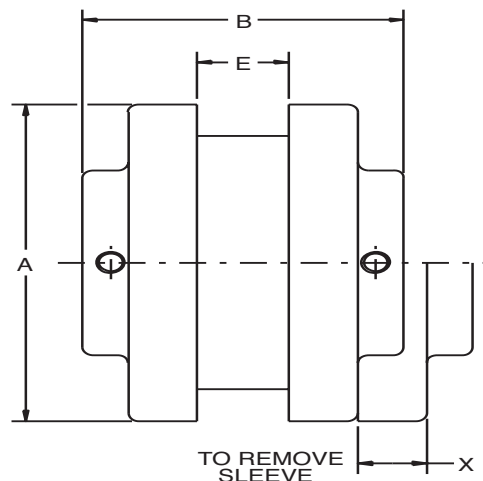
SELECTION/DIMENSIONS

D-FLEX Couplings

TYPE "J" COUPLING DIMENSIONS



TYPE "J" FLANGE



TYPE "J" COUPLING

Dimensions

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (in.-lbs.)	Max. RPM	A	B	C	D	E	X	Weight (lbs.)
3J	3/8	7/8	0.10	60	9200	2.06	2.00	1.50	0.81	0.38	0.56	0.03
4J	1/2	1	0.19	120	7600	2.46	2.38	1.63	0.88	0.63	0.75	0.04
5J	1/2	1-1/8	0.38	240	7600	3.25	2.88	1.88	1.06	0.75	0.97	0.09
6J	5/8	1	0.71	450	6000	4.00	3.31	1.94	1.22	0.88	1.09	1.40
6J	1-1/8	1-3/8	0.71	450	6000	4.00	3.31	2.50	1.22	0.88	1.09	1.20

Part Numbers

Bore (in.)	Coupling Flange			
	3J	4J	5J	6J
3/8	• 022700			
1/2	• 022701	• 022708	• 022714	
5/8	• 022702	• 022709	• 022715	• 022721
3/4	• 022703	• 022710	• 022716	• 022722
7/8	• 022704	• 022711	• 022717	• 022723
15/16		• 022712	• 022718	• 022724
1		• 022713	• 022719	• 022725
1-1/8			• 022720	• 022726
1-3/16				• 022727
1-1/4				• 022728
1-3/8				• 022729

- Stock flange assemblies

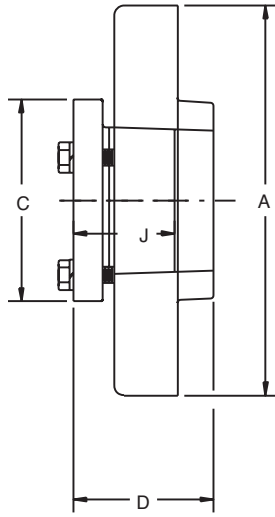
Complete coupling consists of (2) J flanges, and (1) sleeve (from page PT1-39).



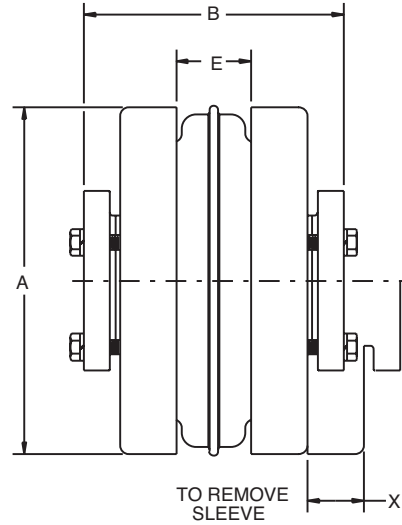
SELECTION/DIMENSIONS

D-FLEX Couplings

TYPE "B" QD BUSHED COUPLING DIMENSIONS



TYPE "B" FLANGE



TYPE "B" COUPLING

Dimensions

Coupling Size	Bushing Type	Min. Bore	Max. Bore#	HP/100	Torque (in.-lbs.)	Max. RPM	A	B	C	D	E	J	X	Weight (lbs.)+	
														Flange	Bushing
6B	JA	1/2	1-3/16	0.71	450	6000	4.00	3.31	2.00	1.53	0.88	1.00	1.09	1.30	0.40
7B	JA	1/2	1-3/16	1.20	725	5250	4.63	3.44	2.00	1.59	1.00	1.00	1.31	1.90	0.40
8B	SH	1/2	1-5/8	1.80	1135	4500	5.45	4.06	2.63	1.84	1.13	1.31	1.50	2.90	0.90
9B	SD	1/2	1-15/16	2.80	1800	3750	6.35	4.63	3.19	2.19	1.44	1.81	1.75	4.80	1.60
10B	SK	1/2	2-1/2	4.60	2875	3600	7.50	5.63	3.88	1.84	1.63	1.94	2.00	7.80	2.70
11B	SF	1/2	2-15/16	7.20	4530	3600	8.63	6.56	4.63	2.13	1.88	2.00	2.38	12.00	3.80
12B	E	7/8	3-1/2	11.40	7200	2800	10.00	7.94	6.00	2.69	2.31	2.75	2.69	18.00	9.00
13B	F	1	3-15/16	18.00	11350	2400	11.75	9.31	6.63	3.69	2.69	3.75	3.00	31.20	14.00
14B	F	1	3-15/16	28.60	18000	2200	13.88	10.44	6.63	3.69	3.25	3.75	3.50	51.40	14.00
16B	J	1-1/2	4-1/2	75.00	47250	1500	18.88	13.25	7.25	4.75	4.75	4.63	4.50	120.00	21.00

Max bore with shallow key

+ Approximate weight for each flange; average weight for each bushing

Part Numbers

	6B	7B	8B	9B	10B	11B	12B
Part No.	• 022501	• 022502	• 022503	• 022504	• 022505	• 022506	• 022507

• Stock flange assemblies

	13B	14B	16B
Part No.	022508	022509	022510

Complete coupling consists of (2) B flanges, (1) sleeve and (2) QD Bushings. QD Bushings must be ordered separately (from page PT6-16).

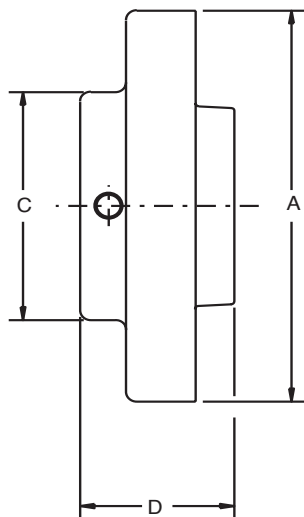
FEATURES/BENEFITS PAGE PT1-35	SPECIFICATION/HOW TO ORDER PAGE PT1-37	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

SELECTION/DIMENSIONS

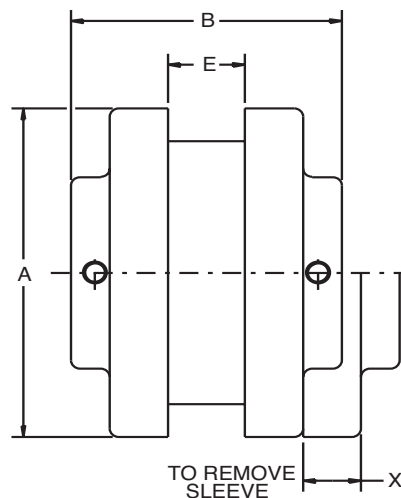


D-FLEX Couplings

TYPE "S" COUPLING DIMENSIONS



TYPE "S" FLANGE



TYPE "S" COUPLING

Dimensions

Coupling Size	Min. Bore	Max. Bore#	HP/100*	Torque* (in.-lbs.)	Max. RPM	A	B	C	D	E	X	Weight (lbs.)
5S	1/2	1-1/4	0.38	240	7600	3.25	2.81	1.88	1.34	0.75	0.97	1.1
6S	1/2	1-1/2							1.63			1.9
6S	1-9/16	1-3/4	0.71	450	6000	4	3.5	2.81	1.31	0.88	1.09	1.8
6S	1-13/16	1-7/8							1.31			1.8
7S	1/2	1-7/8	1.2	725	5250	4.63	3.94	2.81	1.84	1	1.31	2.6
8S	1/2	2-1/8	1.8	1135	4500	5.45	4.44	3.25	2.09	1.13	1.5	4.4
8S	2-3/16	2-3/8							1.66			3.7
9S	7/8	2-1/2	2.8	1800	3750	6.35	5.06	4.13	2.41	1.44	1.75	6.5
9S	2-9/16	2-7/8							1.81			6.2
10S	1-1/8	2-7/8	4.6	2875	3600	7.5	5.69	4.75	2.72	1.63	2	10.5
10S	2-15/16	3-3/8							2.03			9.8
11S	1-1/4	2-1/8							3.44			18.1
11S	2-3/16	2-3/4	7.2	4530	3600	8.63	7.13	5.63	3.44	1.88	2.38	17.9
11S	2-13/16	3-3/8							3.44			16.6
11S	3-7/16	3-7/8							2.63			16.4
12S	1-1/2	2-1/8										27.8
12S	2-3/16	2-7/8	11.4	7200	2800	10	8.25	5.75	4	2.31	2.69	27.5
12S	2-15/16	3-15/16										26.6
13S	2" Reb.	4-1/2	18	11350	2400	11.75	9.25	6.75	4.38	2.69	3.06	45.2
14S	2" Reb.	5	28.6	18000	2200	13.88	9.88	7.5	4.5	3.25	3.5	69.1
16S	2" Reb.	6	75	47250	1500	18.88	14.25	8	6	4.75	4.25	125.3

Max bore with shallow keyway. For max bore with standard keyway, see page PT1-43

* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-39

SELECTION/DIMENSIONS



D-FLEX Couplings

Type "S" Coupling Flange - Part Numbers

Bore (in.)	Coupling Flange Size										
	5S	6S	7S	8S	9S	10S	11S	12S	13S	14S	16S
Reborable	• 004976	• 004977	• 004978	• 004979	• 004980	• 004981	• 004982	• 004983	• 004993	• 004994	• 004995
Finished Bore Flanges											
1/2	004498										
5/8	• 004500	004511	004534								
3/4	• 004502	• 004513	• 004536	004559							
7/8	• 004504	• 004515	• 004538	• 004561	004586						
15/16	• 004505	004516	004539	004562	004587						
1	• 004506	• 004517	• 004540	• 004563	004588						
1-1/8	• 004508	• 004519	• 004542	• 004565	004590	004619					
1-3/16	*• 004509	• 004520	• 004543	• 004566	004591	004620					
1-1/4	† 004510	• 004521	• 004544	• 004567	• 004592	• 004621	004656				
1-5/16		004522	004545	004568	004593	004622	004657				
1-3/8		• 004523	• 004546	• 004569	• 004594	• 004623	• 004658				
1-7/16		*• 004524	• 004547	• 004570	• 004595	• 004624	004659				
1-1/2		†• 004525	• 004548	• 004571	• 004596	• 004625	004660	004696			
1-5/8		• 004527	*• 004550	• 004573	• 004598	• 004627	• 004662	004698			
1-11/16		004528	004551	• 004574	• 004599	• 004628	004663	004699			
1-3/4		• 004529	004552	• 004575	• 004600	• 004629	004664	004700			
1-7/8		• 004531	† • 004554	• 004577	• 004602	• 004631	• 004666	• 004702			
1-15/16				• 004578	• 004603	• 004632	004667	004703			
2				*• 004579	• 004604	• 004633	004668	004704			
2-1/8				† • 004581	• 004606	• 004635	• 004670	• 004706			
2-3/16				004582	004607	• 004636	004671	004707			
2-1/4				004583	004608	004637	004672	004708			
2-3/8				• 004585	*• 004610	• 004639	• 004674	• 004710	004996		
2-7/16					004611	• 004640	004675	004711			
2-1/2					† 004612	• 004641	004676	004712			
2-5/8					004614	004643	004678	004714			
2-11/16					004615	004644	004679	004715			
2-3/4					004616	*• 004645	004680	004716			
2-7/8					• 004618	† • 004647	• 004682	• 004718	004997	004998	
2-15/16						004648	004683	004719			
3						004649	004684	004720			
3-1/8						004651	004686	004722			
3-1/4						004653	004688	004724			
3-5/16						004654	004689	004725			
3-3/8						• 004655	*†• 004690	• 004726			
3-7/16							004691	004727			
3-1/2							004692	004728			
3-5/8							004693	004730			
3-11/16								004731			
3-3/4							004694	004732			
3-7/8							• 004695	*† 004734			
3-15/16								004735			

• Stock flange assemblies

† Max bore for reborable flanges.

*Max bore with std. square keyway. Larger bores have rectangular keyways & keys supplied.

Complete coupling consists of (2) S flanges and (1) sleeve (from page PT1-39).

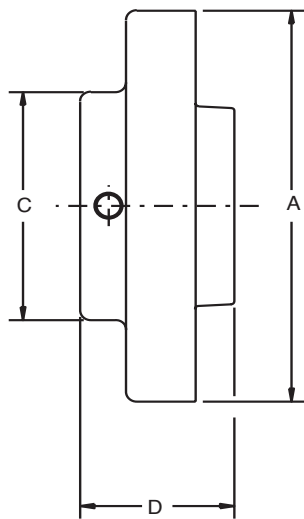
FEATURES/BENEFITS PAGE PT1-35	SPECIFICATION/HOW TO ORDER PAGE PT1-37	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



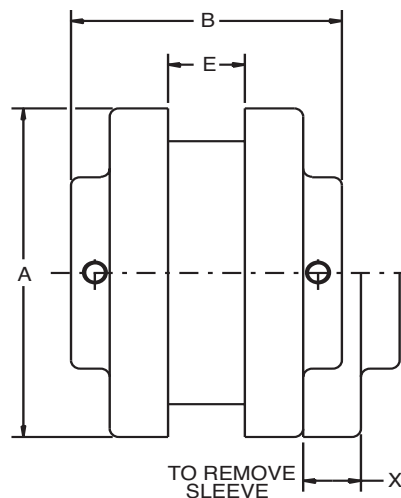
SELECTION/DIMENSIONS

D-FLEX Couplings

TYPE "S" COUPLING DIMENSIONS - METRIC



TYPE "S" FLANGE



TYPE "S" COUPLING

Dimensions

Coupling Size	Min. Bore (mm)	Max. Bore #	Watts/100*	Torque* (N-m)	Max. RPM	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	X (mm)	Mass (kg)
5S	12.7	30	283	27.1	7600	82.6	71.4	48	34	19	25	0.5
6S	12.7	38	530	51	6000	101.6	89	71	41	22	28	0.9
7S	12.7	42	895	82	5250	117.6	100	71	47	25	33	1.2
8S	12.7	50	1343	128	4500	138.4	113	83	53	29	38	2.0
9S	22.2	60	2089	203	3750	161.3	129	92	61	37	44	2.9
10S	28.0	70	3432	325	3600	190.5	145	111	69	41	51	4.8
11S	30.0	95	5371	512	3600	219.2	181	143	87	48	60	8.2
12S	38.0	100	8504	814	2800	254.0	210	146	102	59	68	12.6
13S	50.8	114	13428	1282	2400	298.5	235	171	111	68	78	20.5
14S	50.8	127	21336	2034	2200	352.6	251	191	114	83	89	31.3
16S	50.8	140	55950	5339	1500	479.6	362	203	152	121	108	56.8

Max bore with shallow keyway. For max bore with standard keyway, see page PT1-43

* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-39



SELECTION/DIMENSIONS

D-FLEX Couplings

Type "S" Coupling Flange - Part Numbers - Metric

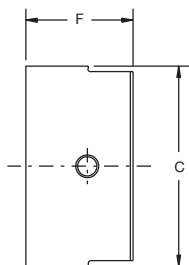
Bore (mm)	Coupling Flange Size							
	5S	6S	7S	8S	9S	10S	11S	12S
14mm	004856	004865	004878	004893	004911			
16mm	004857	004866	004879	004894	004912			
18mm	004858	004867	004880	004895	004913			
19mm	004859	004868	004881	004896	004914			
20mm	004860	004869	004882	004897	004915			
22mm	004861	004870	004883	004898	004916			
24mm	004862	004871	004884	004899	004917			
25mm	004863	004872	004885	004900	004918			
28mm	004864	004873	004886	004901	004919	004928		
30mm		004874	004887	004902	004920	004929	004942	
32mm		004875	004888	004903	004921	004930	004943	
35mm		004876	004889	004904	004922	004931	004944	
38mm			004890	004905	004923	004932	004945	004960
40mm			004891	004906	004924	004933	004946	004961
42mm			004892	004907	004925	004934	004947	004962
45mm				004908	004926	004935	004948	004963
48mm				004909	004927	004936	004949	004964
50mm				004910		004937	004950	004965
55mm						004938	004951	004966
60mm						004939	004952	004967
65mm						004940	004953	004968
70mm						004941	004954	004969
75mm							004955	004970
80mm							004956	004971
85mm							004957	004972
90mm							004958	004973
95mm							004959	004974
100mm								004975

Complete coupling consists of (2) S flanges and (1) sleeve (from page PT1-39).

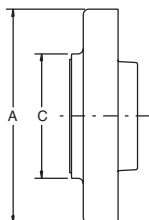


SELECTION/DIMENSIONS

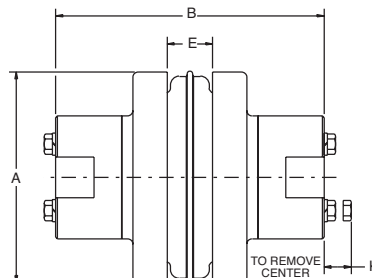
D-FLEX Couplings TYPE "SC" COUPLING DIMENSIONS



SHAFT HUB



SPACER FLANGE



COMPLETE SPACER COUPLING

Dimensions (1)

Cplg. Size	BSE	Flange Number	Shaft Hub		Max. Bore (2)		A	(3) B	C	E	F		K	Wt. (4) (lbs.)
			H	HS	H	HS					H	HS		
5SC	3.50	5SC35	5H	-	1-1/8	-	3.25	5.63	2.00	0.75	1.09	-	0.56	4.50
6SC	3.50	6SC35	6H	---	1-3/8	-	4.00	5.88	2.50	0.88	1.22	-	0.75	7.30
	4.38	6SC44	6H	-	1-3/8	-		6.75	2.50		1.22	-		8.10
	5.00	6SC50	6H	-	1-3/8	-		7.88	2.50		1.22	-		8.70
7SC	3.50	7SC35	7H	---	1-5/8	-	4.63	6.38	2.81	1.00	1.47	-	0.63	9.90
	4.38	7SC44	7H	-	1-5/8	-		7.25	2.81		1.47	-		10.80
	5.00	7SC50	7H	-	1-5/8	-		7.88	2.81		1.47	-		11.40
8SC	3.50	8SC35	8H	-	1-7/8	-	5.45	6.88	3.25	1.13	1.72	-	0.81	15.20
	3.50	8SC35-10	10H	10HS	2-3/8	1-5/8		9.13	4.38		2.34	-	0.81	23.20
	4.38	8SC44	8H	-	1-7/8	-		7.75	3.25		1.72	1.66	0.81	16.40
	5.00	8SC50	8H	-	1-7/8	-		8.38	3.25		1.72	1.33	1.19	17.40
	5.00	8SC50-10	10H	10HS	2-3/8	1-5/8		9.63	4.38		2.34	-	1.19	27.20
9SC	3.50	9SC35	9H	9HS	2-1/8	1-1/2	6.35	7.50	3.63	1.44	1.97	1.53	1.06	18.60
	4.38	9SC44	9H	9HS	2-1/8	1-1/2		8.25	3.63		1.97	1.53	1.06	22.20
	5.00	9SC50	9H	9HS	2-1/8	1-1/2		8.88	3.63		1.97	1.53	1.06	23.20
	5.00	9SC50-11	11H	11HS	2-7/8	1-7/8		10.38	5.25		2.72	1.91	1.19	40.40
	7.00	9SC70-11	11H	11HS	2-7/8	1-7/8		12.38	5.25		2.72	1.91	1.19	48.20
	7.75	9SC78-11	11H	11HS	2-7/8	1-7/8		13.13	5.25		2.72	1.91	1.19	51.00
10SC	4.75	10SC48	10H	10HS	2-3/8	1-5/8	7.50	9.38	4.38	1.63	2.34	1.66	1.19	37.60
	5.00	10SC50	10H	10HS	2-3/8	1-5/8		9.63	4.38		2.34	1.66	1.19	38.40
	7.00	10SC70-13	13H	13HS	3-3/8	2-1/2		13.63	6.13		3.34	2.47	1.88	72.00
	7.75	10SC78-13	13H	13HS	3-3/8	2-1/2		14.63	6.13		3.34	2.47	1.88	76.00
	10.00	10SC100-13	13H	13HS	3-3/8	2-1/2		16.63	6.13		3.34	2.47	1.88	88.00
11SC	4.75	11SC48	11H	11HS	2-7/8	1-7/8	8.63	10.31	5.25	1.88	2.72	1.91	1.19	54.50
	5.00	11SC50	11H	11HS	2-7/8	1-7/8		10.38	5.25		2.72	-	1.19	54.70
	7.00	11SC70-14	14H	-	3-7/8	-		14.38	6.50		3.84	-	2.00	86.10
	7.75	11SC78-14	14H	-	3-7/8	-		15.38	6.50		3.84	-	2.00	90.30
	10.00	11SC100-14	14H	-	3-7/8	-		17.63	6.50		3.84	-	2.00	102.70
12SC	7.00	12SC70	12H	12HS	2-7/8	2-1/2	10.00	12.88	5.75	2.31	2.97	2.53	1.50	88.10
	7.00	12SC70-14	14H	-	3-7/8	-		14.63	6.50		3.84	-	2.00	99.10
	7.75	12SC78	12H	12HS	2-7/8	2-1/2		13.63	5.75		2.97	-	1.50	91.90
	7.75	12SC78-14	14H	-	3-7/8	-		14.38	6.50		3.84	-	2.00	103.30
	10.00	12SC100-14	14H	-	3-7/8	-		17.63	6.50		3.84	-	2.00	115.70
13SC	7.75	13SC78	13H	13HS	3-3/8	2-1/2	11.75	14.38	6.13	2.69	3.34	2.47	1.88	129.60
14SC	7.75	14SC78	14H	-	3-7/8	-	13.88	15.38	6.50	3.25	3.84	-	2.00	179.90

(1) Ratings (HP/100, Torque, RPM) same as Type S. See page PT1-42.

(2) Check shaft hub table on next page for minimum Bore.

(3) B dimension included H hubs. Dimension will change if one or two HS (short hubs) are used.

(4) Complete coupling weight at MAX bore.



SELECTION/DIMENSIONS

D-FLEX Couplings

Type "SC" Couplings - Spacer Flange Part Numbers

BSE (in.)	Coupling Size						
	5SC	6SC	7SC	8SC	8SC-10	9SC	9SC-11
3.50	• 022000	• 022001	• 022004	• 022007	• 022775	• 022010	
4.38		• 022002	• 022005	• 022008		• 022011	
5.00		• 022003	• 022006	• 022009	• 022776	• 022012	• 022777
7.00							• 022778
7.75							• 022779

BSE (in.)	Coupling Size							
	10SC	10SC-13	11SC	11SC-14	12SC	12SC-14	13SC	14SC
4.75	• 022013		• 022015					
5.00	• 022014		• 022016					
7.00		022780		022783	• 022017	022786		
7.75		022781		022784	• 022018	022787	021997	021998
10.00		022782		022785		022788		

• Stock flanges

Spacer Shaft Hub Part Numbers

Bore (in.)	Coupling Size									
	5H	6H	7H	8H	9H	10H	11H	12H	13H	14H
Reborable Finished Bore Hubs	• 022220	• 022221	• 022222	• 022223	• 022224	• 022225	• 022226	• 022227	022228	
1/2	022329									
5/8	• 022331	022340	022353							
11/16	022332	022341	022354							
3/4	• 022333	• 022342	022355	022368						
7/8	• 022335	• 022344	• 022357	022370	022387					
15/16	022336	022345	022358	022371	022388					
1	• 022337	• 022346	• 022359	• 022372	022389					
1-1/8	• 022339	• 022348	• 022361	• 022374	022391	022409	0022452			
1-1/8 (1)					• 022392(1)	• 022410(1)	022453(1)			
1-3/16		022349	022362	022375	022393	022411	022454			
1-1/4		• 022350	022363	022376	022394	022412	022455			
1-5/16		022351	022364	022377	022395	022413	022456			
1-3/8		022352	• 022365	• 022378	• 022396	022414	022457			
1-7/16				022379	022397	022415	022458			
1-1/2			• 022366	• 022380	• 022398	022416	022459			
1-9/16				022381	022399	022417	022460			
1-5/8			• 022367	• 022382	• 022400	• 022418	022461			
1-5/8 (1)							022462(1)			
1-3/4				• 022384	• 022402	022420	022464			
1-7/8				• 022386	• 022404	• 022428	• 022466	022483		
1-15/16					022405	022429	022467	022484		
2					022406	022430	022468	022485		
2-1/8					• 022408	• 022432	• 022470	022487	022813(1)	
2-3/16						022433	022471	022488		
2-1/4						022434	022472	022489		
2-5/16						022435	022473	022490		
2-3/8						• 022436	• 022474	022491	022810	• 022815
2-3/8(1)								022492(1)	022814(1)	
2-7/16							022475	022493		
2-1/2							022476	022494		
2-5/8							022478	022496		
2-11/16							022479	022497		
2-3/4							022480	022498		
2-7/8							• 022482	022500	022811	022816
3-3/8									022812	022817
3-7/8										022818

• Stock hub assemblies

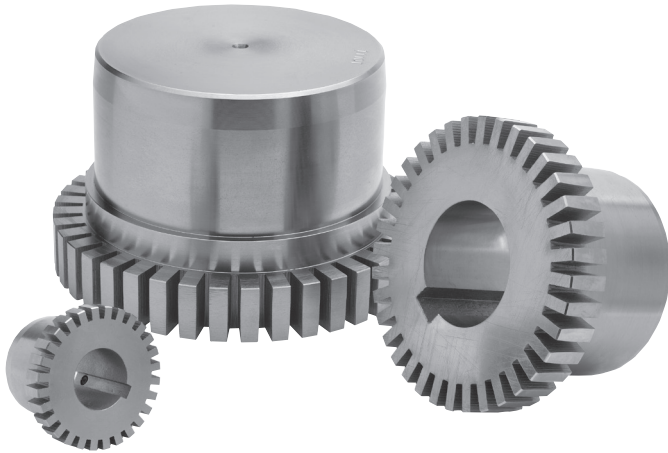
(1) HS (Short Hub)

Complete coupling consists of (2) shaft hubs, (2) spacer flanges, and (1) sleeve (from page PT1-39)

FEATURES/BENEFITS PAGE PT1-35	SPECIFICATION/HOW TO ORDER PAGE PT1-37	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

FEATURES/BENEFITS

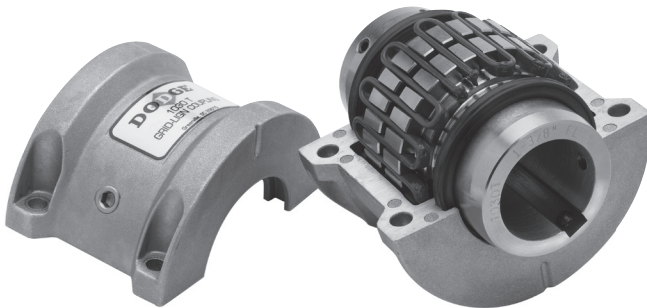
GRID-LIGN



The basic GRID-LIGN coupling consists of two steel shaft hubs, a high strength spring steel tapered grid element, two seals and a cover assembly. Misalignment and end float are accommodated by the sliding action of the grid in the lubricated hub grooves.

Standard GRID-LIGN couplings operate reliably between -35° and $+210^{\circ}\text{F}$. They can accept angular misalignment to $1/2^{\circ}$, parallel misalignment to .012", and end float to .375". Speed capability goes as high as 6000 RPM.

GRID-LIGN couplings can be mounted with TAPER-LOCK bushings on shafts from $1/2"$ to $3-15/16"$. Straight bore hubs go up to 13" bore.



Flexible Tapered Element

- Isolates vibration, cushions shock loads
- Allows uniform contact during light, normal and shock loading conditions
- Lengthens machine life
- Constructed from tempered spring steel for long life

High Torque Capability

- Torque ranges from 464 to 1,650,000 in. lbs.
- Steel components allow for compact size

Interchangeability

- Stock GRID-LIGN coupling configurations include the standard full-flex design in vertically or horizontally split covers, half spacers and full spacers
- Interchangeable with other tapered grid style couplings

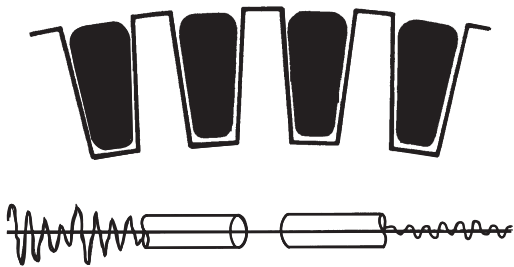
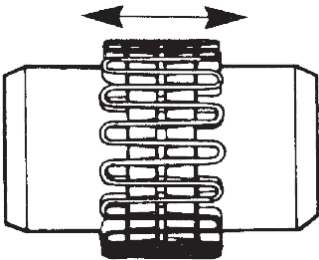
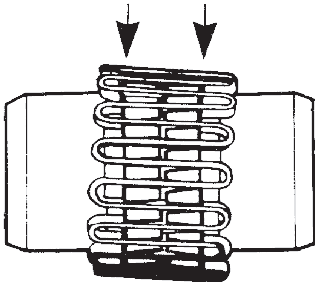
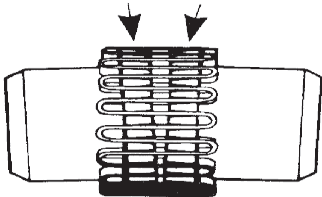


FEATURES/BENEFITS

GRID-LIGN

STYLE, SIZES AND RATINGS CHART

Coupling Styles	Number of Sizes	Maximum Ratings		
		Bore	Torque	Speed
T10 Standard Coupling H Cover	19	13.0"	1,650,000	6000
T20 Standard Coupling V Cover	10	5.0"	75,000	6000
T31 Full Spacer	8	4.25"	30,000	3600
T35 Half Spacer	8	4.25"	30,000	3600



TAPERED GRID DESIGN

- Tapered grid element, combined with the contoured hub grooves, transmit torque efficiency while accommodating misalignment and cushioning shock loads
- Grid element made from high strength steel that is quenched and tempered for long life



GRID-LIGN

SPECIFICATION

GRID-LIGN Couplings are tapered grid style with hubs, grids and covers which are interchangeable with other industry standard tapered grid couplings. Grid hubs are machined steel, protected with an anti-rust coating. Hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with two set screws, one over the key and one at 65°. The grid element is made of high strength spring steel, heat treated and shot peened to enhance strength and durability.

The coupling is designed and manufactured such that the grid member can be replaced without disturbing the connected equipment and without the requirement for realignment. All Grid-Lign Couplings are fitted with covers to retain lubrication and prevent the entry of abrasives and contaminants. Covers are of a two piece design to facilitate installation and are available as axial split or radial split. DODGE will provide recommendations for types and amounts of lubricant suitable for operation in ambient temperatures from -35°F to +210°F.

Spacer Couplings consist of two shaft hubs and a center assembly consisting of two spacer hubs, one grid and cover. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment. The center assembly must be replaceable without disturbing the coupled equipment and without realignment.

NOTE: Instruction manuals for all Dodge products available at www.dodge-pt.com



GRID-LIGN

HOW TO ORDER

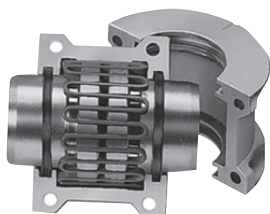
Standard couplings consist of:

- (2) Shaft Hubs
- (1) Grid & Cover Assembly (T10 or T20)

Spacer couplings consists of:

- T31 Spacer
 - (2) "T" Shaft Hubs
 - (2) Spacer Hubs
 - (1) T10 Grid & Cover Assembly
- T35 Half Spacer
 - (1) Shaft Hub
 - (1) Spacer Hub
 - (1) "T" Shaft Hub
 - (1) T10 Grid & Cover Assembly

NOMENCLATURE



Size 1020 T10

Coupling Type _____

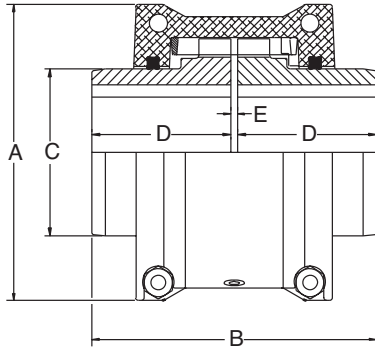
T10 = Horizontal Split Cover
 T20 = Vertical Split Cover
 T31 = Full Spacer
 T35 = Half Spacer



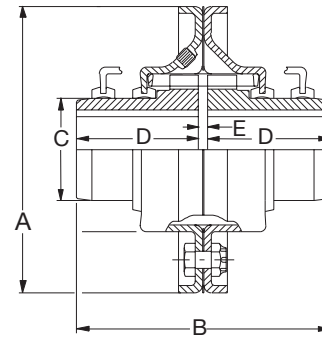
SELECTION/DIMENSIONS

GRID-LIGN

RATINGS AND DIMENSIONS FOR COUPLING SIZES 1020T - 1140T



TYPE T10



TYPE T20

Coupling Size	Straight Bore			TAPER-LOCK		HP/100		TORQUE		Max. RPM	
	Min. Bore	Maximum Bore		Min. Bore	Max. Bore	Str. Hub	T-L Hub	Str. Hub (In-Lbs)	T-L Hub (In-Lbs)	T10	T20
		Sq. Key	Rec. Key								
1020T	0	1-1/8	1-3/16	N/A	N/A	0.74	-	464	-	4500	6000
1030T	0	1-3/8	1-7/16	1/2	1-1/8	2.09	1.9	1320	1200	4500	6000
1040T	0	1-5/8	1-3/4	1/2	1-1/8	3.49	2.1	2200	1300	4500	6000
1050T	0	1-7/8	2	1/2	1-1/4	6.11	5.6	3850	3500	4500	6000
1060T	0	2-1/8	2-1/4	1/2	1-11/16	9.60	6.8	6050	4300	4350	6000
1070T	0	2-1/2	2-11/16	1/2	2-1/8	13.96	11.3	8800	7150	4125	5500
1080T	0	3	3-1/4	3/4	2-11/16	28.80	17.9	18150	11300	3600	4750
1090T	0	3-1/2	3-3/4	15/16	3-1/4	52.36	38.1	33000	24000	3600	4000
1100T	0	4	4-1/4	15/16	3-1/4	88.14	38.1	55550	24000	2440	3250
1110T	0	4-1/2	4-5/8	1-13/16	3-15/16	130.90	71.1	82500	44800	2250	3000
1120T	2-3/8	5	5-3/8	*	*	191.99	*	121000	*	2025	2700
1130T	2-5/8	6	6-1/2	*	*	279.25	*	176000	*	1800	2400
1140T	2-5/8	7	7-1/4	*	*	401.43	*	253000	*	1650	2200

Coupling Size	A		B		C	D		E	Weight (Lbs.) (1)		Inertia
	T10	T20	Str. Hub	T-L Hub		Str. Hub	T-L Hub		T10	T20	(Lb. Ft. ²) (2)
1020T	3.47	4.38	3.89	N/A	1.56	1.9	N/A	0.1	2.8	3.0	0.03
1030T	3.88	4.75	3.89	3.39	1.94	1.9	1.6	0.1	3.8	4.0	0.1
1040T	4.22	5.06	4.13	3.36	2.25	2.0	1.6	0.1	4.7	4.9	0.1
1050T	5.09	5.81	4.88	3.89	2.63	2.4	1.9	0.1	7.3	7.5	0.2
1060T	5.47	6.38	5.13	4.38	3.00	2.5	2.1	0.1	11.0	11.0	0.3
1070T	5.92	6.81	6.13	4.38	3.44	3.0	2.1	0.1	13.8	14.0	0.4
1080T	6.92	7.88	7.13	5.39	4.13	3.5	2.6	0.1	25.1	25.6	1.01
1090T	7.70	9.13	7.88	6.39	4.88	3.9	3.1	0.1	35.1	35.6	1.7
1100T	9.88	10.50	9.69	7.19	5.59	4.8	3.5	0.2	62.6	63.2	3.7
1110T	10.63	11.25	10.19	7.45	6.31	5.0	3.6	0.2	78.5	79.0	5.6
1120T	12.13	12.56	12.00	*	7.06	5.9	*	0.3	114.0		10.8
1130T	13.63	14.88	13.00	*	8.56	6.4	*	0.3	165.0		20.2
1140T	15.13	16.38	14.75	*	10.00	7.3	*	0.3	236.0		36.4

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore

* Priced on Request

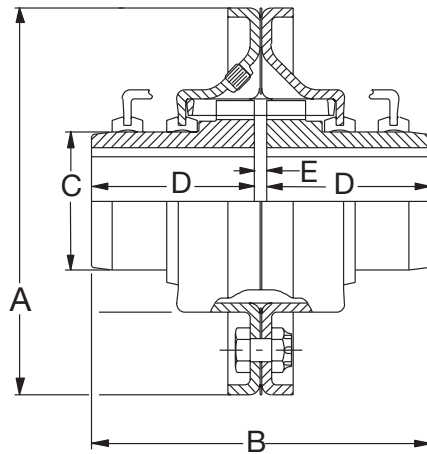
FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



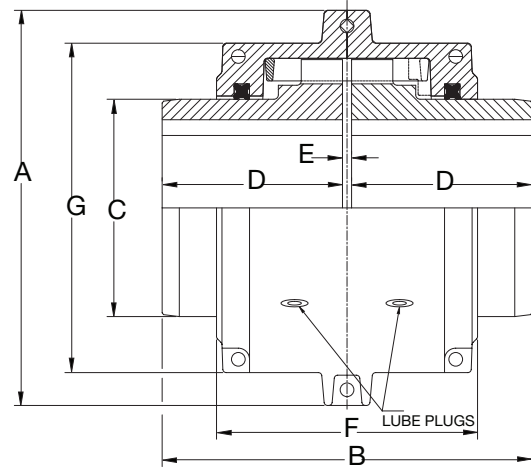
SELECTION/DIMENSIONS

GRID-LIGN

COUPLINGS SIZES FOR 1150T - 1200T



TYPE T20



TYPE T10

Coupling Size	Straight Bore		Torque		Maximum RPM		Weight (lbs) (1)	Inertia (lb ft ²) (2)
	Minimum	Maximum	HP/100	In-Lbs	T10	T20		
1150T	4.1	8.0	558.5	352000	1500	2000	516	12387
1160T	4.6	9.0	785.4	495000	1350	1750	699	20192
1170T	5.1	10.0	1047.2	660000	1225	1600	988	35251
1180T	5.8	11.0	1451.8	915000	1110	1400	1365	63935
1190T	5.8	12.0	1919.9	1210000	1050	1300	1711	95407
1200T	6.8	13.0	2618.0	1650000	900	1100	2333	158256

Coupling Size	A		B	C	D	E	F	G
	T10	T20						
1150T	17.9	18.8	14.7	10.6	7.2	0.3	10.8	15.5
1160T	19.8	21.0	15.9	12.0	7.8	0.3	11.0	17.2
1170T	22.4	23.0	17.3	14.0	8.5	0.3	12.2	19.2
1180T	24.8	24.8	19.1	15.5	9.4	0.3	12.7	21.9
1190T	26.4	27.0	20.7	18.3	10.2	0.3	12.8	23.8
1200T	30.0	29.0	22.3	19.6	11.0	0.3	14.0	26.1

(1) Weight of complete coupling at minimum bore

(2) Inertia of complete coupling at minimum bore

FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



SELECTION/DIMENSIONS

GRID-LIGN

Type T10 And T20 GRID-LIGN Couplings Part Numbers - Sizes 1020T Thru 1090T

Size	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T
T10 Grid/Cover	• 006750	• 006751	• 006752	• 006753	• 006754	• 006755	• 006756	• 006757
T20 Grid/Cover	• 006765	• 006766	• 006767	• 006768	• 006769	• 006770	• 006771	• 006772
Grid	• 006275	• 006276	• 006277	• 006278	• 006279	• 006280	• 006281	• 006282
T10 Cover	• 006250	• 006251	• 006252	• 006253	• 006254	• 006255	• 006256	• 006257
T20 Cover	• 006260	• 006261	• 006262	• 006263	• 006264	• 006265	• 006266	• 006267
T-L Hubs	N/A	• 006318	• 006319	• 006320	• 006321	• 006322	• 006323	• 006324
Bushing Size	N/A	1108	1108	1215	1615	2012	2525	3030
Reborable	• 006290	• 006291	• 006292	• 006293	• 006294	• 006295	• 006296	• 006297
Finished								
Bore Hub								
1/2	006580							
5/8	006581	006585						
3/4	• 006582	• 006586						
7/8	006583	• 006587	• 006592	• 006576				
15/16	006571	006572	006950	006953	006957			
1	• 006584	• 006588	• 006593	• 006577				
1-1/8	• 006793	• 006589	• 006594	• 006599	006578			
1-3/16			006951	006954	006958			
1-1/4		• 006590	• 006595	• 006600	• 006579	006629		
1-3/8		• 006591	• 006596	• 006601	• 006606	006640		
1-7/16			006952	006955	006643	006961		
1-1/2			• 006597	• 006602	• 006607	• 006641	006642	006540
1-5/8			• 006598	• 006603	• 006608	• 006612	006539	
1-11/16				• 006956	006959	006962		
1-3/4				006604	• 006609	• 006613		
1-7/8				• 006605	• 006610	• 006614	006573	006541
1-15/16					• 006960	006963		
2					• 006794	• 006615	006620	
2-1/8					• 006611	• 006616	• 006621	006656
2-3/16						• 006964	006966	
2-1/4						• 006617	• 006622	• 006657
2-3/8						• 006618	• 006623	• 006804
2-7/16						• 006965	006967	
2-1/2						006619	• 006624	• 006795
2-5/8						006479	006625	006796
2-11/16							006968	006790
2-3/4							006626	006797
2-7/8							• 006627	• 006798
2-15/16							006969	006791
3							006628	006799
3-1/8								006800
3-1/4								006801
3-3/8								• 006802
3-7/16								006792
3-1/2								006803
3-5/8								
3-3/4								006480
3-7/8								
3-15/16								
4								

• Stock Sizes *Priced on request

Note: For TAPER-LOCK design, TAPER-LOCK bushings must be ordered separately**Note:** 1020T - 1090T hubs come standard as clearance fit. Interference fit available on request.**Complete coupling consists of: (2) Hubs, TAPER-LOCK or straight bore, and (1) grid & cover assembly**

FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

SELECTION/DIMENSIONS

GRID-LIGN



Type T10 And T20 GRID-LIGN Couplings Part Numbers - Sizes 1100T Through 1200T

Size	1100T	1110T	1120T	1130T	1140T	1150T	1160T	1170T	1180T	1190T	1200T
T10 Grid/Cover	• 006758	• 006759	• 006760	• 006761	• 006762	• 007456	• 007457	• 007458	• 007459	• 007460	• 007461
T20 Grid/Cover	• 006773	• 006774	425514	423677	426916	007017	007018	007019	007020	007021	007022
Grid	• 006283	• 006284	007462	007463	007464	• 007465	• 007466	• 007467	• 007468	• 007469	• 007470
T10 Cover	• 006258	• 006259	007471	007472	007473	• 007474	• 007475	• 007476	• 007477	• 007478	• 007479
T20 Cover	• 006268	• 006269	426672	426673	426674	007011	007012	007013	007014	007015	007016
T-L Hubs	• 006325	• 006326	423589	393257	*	*	*	*	*	*	*
Bushing Size	3030	3535	4040	4545	*	*	*	*	*	*	*
Reborable	• 006298	• 006299	• 006300	• 006301	• 006245	• 007450	• 007451	• 007452	• 007453	• 007454	• 007455
Finished Bore Hubs											
2-1/2	006460										
2-5/8	006461										
2-11/16	006473										
2-3/4	006462										
2-7/8	006463										
2-15/16	006474										
3	006464	006486									
3-1/8	006465	006487									
3-1/4	006466	006488									
3-3/8	• 006467	006489									
3-7/16	006475	006484									
3-1/2	006468	006490									
3-5/8	006469	006491									
3-3/4	006470	006492									
3-7/8	006471	006493									
3-15/16	006476	006485									
4	006472	006494									

• Stock Sizes *Priced on request

Note: For TAPER-LOCK design, TAPER-LOCK bushings must be ordered separately

Note: 1100T - 1200T hubs come standard as interference fit. Clearance fit available on request

Complete coupling consists of: (2) Hubs, TAPER-LOCK or straight bore, and (1) grid & cover assembly.

TL Bushings on page PT6-2

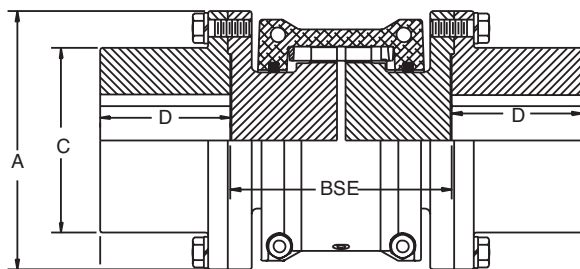
FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



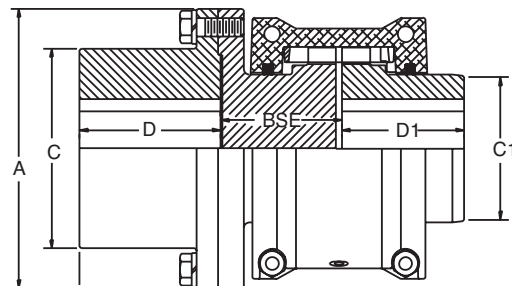
SELECTION/DIMENSIONS

GRID-LIGN

SPACER, STRAIGHT BORE & TAPER-LOCK DIMENSIONS/RATINGS



TYPE T31



TYPE T35

Coupling Size	Straight Bore			TAPER-LOCK		HP/100 (5)		TORQUE (5)		Max. RPM	T31 Weight*	
	Min. Bore	Maximum Bore		Min. Bore	Max. Bore	Str. Hub	T-L Hub	Str. Hub (In-Lbs)	T-L Hub (In-Lbs)		(1)	(2)
		Sq. Key	Rec. Key									
1020T	---	1-3/8	1-7/16	1/2	1-1/8	0.67	0.67	422	422	3600	8.1	.54
1030T	---	1-5/8	1-3/4	1/2	1-1/8	1.90	1.90	1200	1200	3600	11.1	.83
1040T	---	2-1/8	2-1/4	1/2	1-7/16	3.20	3.20	2000	2000	3600	18.0	1.11
1050T	---	2-3/8	2-1/2	1/2	1-11/16	5.60	5.60	3500	3500	3600	26.6	1.52
1060T	---	2-7/8	3-1/8	1/2	2-1/8	8.70	8.70	5500	5500	3600	42.7	1.98
1070T	---	3-1/8	3-1/4	3/4	2-11/16	13.00	13.00	8000	8000	3600	52.3	2.60
1080T	---	3-1/2	3-3/4	3/4	2-11/16	26.00	17.90	16,500	11,300	3600	84.8	3.70
1090T	---	4	4-1/4	15/16	3-1/4	48.00	38.10	30,000	24,000	3600	130.0	5.20

Coupling Size	A	C	C1	D	D1	T31 BSE		T35 BSE		T31 Inertia (Lb. Ft. ²)	
						Min.	Max.	Min.	Max.	(3)	(4)
1020T	3.38	2.06	1.56	1.38	1.88	3.50	8.00	1.78	4.03	0.07	0.001
1030T	3.69	2.34	1.94	1.63	1.88	3.50	8.50	1.78	4.28	0.11	0.003
1040T	4.44	3.11	2.25	2.13	2.00	3.50	8.50	1.78	4.28	0.21	0.005
1050T	4.94	3.44	2.63	2.38	2.38	4.38	8.50	2.22	4.28	0.51	0.010
1060T	5.69	4.06	3.00	2.88	3.50	5.00	13.00	2.53	6.53	0.88	0.020
1070T	6.00	4.31	3.44	3.13	3.00	5.00	13.00	2.53	6.53	1.23	0.030
1080T	7.00	4.81	4.13	3.50	3.50	7.25	16.00	3.66	8.03	2.49	0.060
1090T	8.25	5.63	4.88	4.00	3.88	7.25	16.00	3.66	8.03	5.01	0.110

(1) Weight of T31 coupling at maximum bore

(2) Weight adder per inch

(3) Inertia of T31 coupling at maximum bore

(4) Inertia adder per inch

(5) HP/100 and TORQUE ratings for T-L style shaft hubs apply for "T" shaft hubs. See page PT1-52 for standard T-L style shaft hubs

* For weight and inertia of T35 use 1/2 of T31 value (this page) and 1/2 T10 value (page PT1-52)

FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

SELECTION/DIMENSIONS



GRID-LIGN

Type T 31 And T35 GRID-LIGN Couplings, Spacer Straight Bore “T” Hubs, TAPER-LOCK “T” Hubs, Grids And Covers - Part Numbers

Size	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T
T10Grid/Cover	• 006750	• 006751	• 006752	• 006753	• 006754	• 006755	• 006756	• 006757
Grid	• 006275	• 006276	• 006277	• 006278	• 006279	• 006280	• 006281	• 006282
T10 Cover	• 006250	• 006251	• 006252	• 006253	• 006254	• 006255	• 006256	• 006257
T-L Hubs	• 006328	• 006329	• 006330	• 006331	• 006332	• 006333	• 006334	• 006335
Bushing Size	1108	1108	1310	1615	2012	2525	2525	3030
Reborable	• 006305	• 006306	• 006307	• 006308	• 006309	• 006310	• 006311	• 006312
Finished Bore Hubs								
5/8	006903							
7/8	• 006904	006907	006399					
1	006905	006908	• 006970	006984				
1-1/8	006906	006909	006971	006985				
1-1/4	006396	006397	006400	006402	006411			
1-3/8	• 006560	006894	006972	006986	006412			
1-7/16				006456				
1-1/2				006481	006413			
1-5/8		• 006398	006973	006987	006414	006417	006433	
1-3/4			006974	006988	006990	006418		
1-7/8			006564	006989	006991	006419	006434	• 006440
2				006457	006482			
2-1/8			006401	006565	006992	006429	006435	
2-3/8				006566	• 006567	• 006430	006458	006451
2-7/16					006415		006550	
2-5/8					006416		006436	
2-7/8					• 006568	006431	006437	006452
3						006432	006438	006453
3-3/8							• 006439	006454
3-7/8							006455	006455

• Stock Sizes

Complete spacer couplings consists of:

- T31 Spacer -**
- (2) “T” Shaft Hubs
 - (2) Spacer Hubs (Page PT1-58)
 - (1) T10 Grid & Cover Assembly
- T35 Half Spacer -**
- (1) Shaft Hub (Page PT1-49)
 - (1) Spacer Hub (Page PT1-59)
 - (1) “T” Shaft Hub
 - (1) T10 Grid & Cover Assembly

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-16.

NOTE: 1020T - 1090T hubs come standard as clearance fit. Interference fit available on request.

FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



SELECTION/DIMENSIONS

GRID-LIGN

Type T31 - Full Spacer

B.S.E. Dimen sions (in.)	Coupling Size															
	1020T		1030T		1040T		1050T		1060T		1070T		1080T		1090T	
	Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly	
	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.
3.5	006497	2	006504	2	006516	2										
3.94	006497	1	006504	1	006516	1										
	006498	1	006505	1	006517	1										
4.25	006497	1	006504	1	006516	1										
	006499	1	006506	1	006518	1										
4.38	006498	2	006505	2	006517	2	006533	2								
4.69	006498	1	006505	1	006517	1	006533	1								
	006499	1	006506	1	006518	1	006534	1								
5	006499	2	006506	2	006518	2	006534	2	006544	2	006553	2				
5.22					006516	1										
					006519	1										
5.38			006504	1	006516	1										
			006507	1	006520	1										
5.66					006517	1	006533	1								
					006519	1	006535	1								
5.81			006505	1	006517	1	006533	1								
			006507	1	006520	1	006536	1								
5.97					006518	1	006534	1								
					006519	1	006535	1								
6.12			006506	1	006518	1	006534	1	006544	1	006553	1				
			006507	1	006520	1	006536	1	006545	1	006554	1				
6.94					006519	2	006535	2								
7.09					006519	1	006535	1								
					006520	1	006536	1								
7.25			006507	2	006520	2	006536	2	006545	2	006554	2	006561	2	006569	2
8.00																
8.59													006561	1		
													006562	1		
8.62									006544	1	006553	1				
									006546	1	006555	1				
8.88																
9.75									006545	1	006554	1	006561	1	006569	1
									006546	1	006555	1	006563	1	006570	1
9.94													006562	2		
11.09													006562	1		
													006563	1		
12.25									006546	2	006555	2	006563	2	006570	2

SELECTION/DIMENSIONS

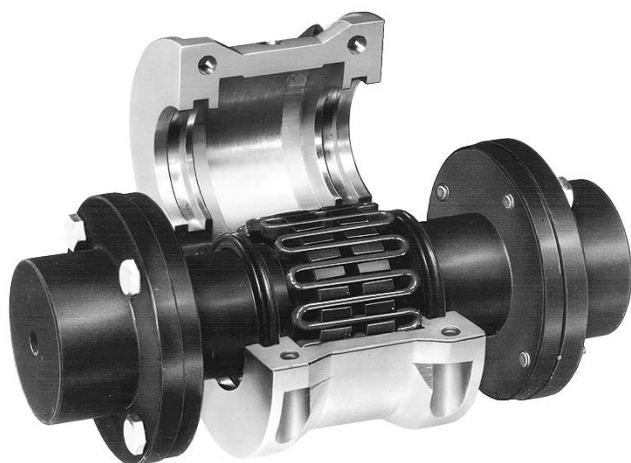
GRID-LIGN



Type T35 - Half Spacer

B.S.E. Dimen- sions (in.)	Coupling Size															
	1020T		1030T		1040T		1050T		1060T		1070T		1080T		1090T	
	Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly	
	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.
1.78	006497	1	006504	1	006516	1										
2.22	006498	1	006505	1	006517	1	006533	1								
2.53	006499	1	006506	1	006518	1	006534	1	006544	1	006553	1				
3.50					006519	1	006535	1								
3.66			006507	1	006520	1	006536	1	006545	1	006554	1	006561	1	006569	1
4.06																
5.00													006562	1		
6.16									006546	1	006555	1	006563	1	006570	1

T31 - Full Spacer



T35 - Half Spacer



FEATURES/BENEFITS PAGE PT1-48	SPECIFICATION/HOW TO ORDER PAGE PT1-50	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



FEATURES/BENEFITS

Gear Couplings

The Power-Dense, High-Torque Gear Coupling

The DODGE Gear Coupling (DGF) offers unmatched performance and proven reliability

Quality Manufacturing

- High-quality steel
- Larger tooth profile provides additional service factor
- Good inherent balance
- Proven O-ring seal design
- Machined flanges and gasket for improved sealing
- High-grade fasteners

Performance Benefits

- High torque rating allows for coupling downsizing
- Versatile design permits interchangeable half couplings
- Low backlash (well suited for reversing applications)
- Crowned tooth profile for longer life and improved performance

DODGE Benefits

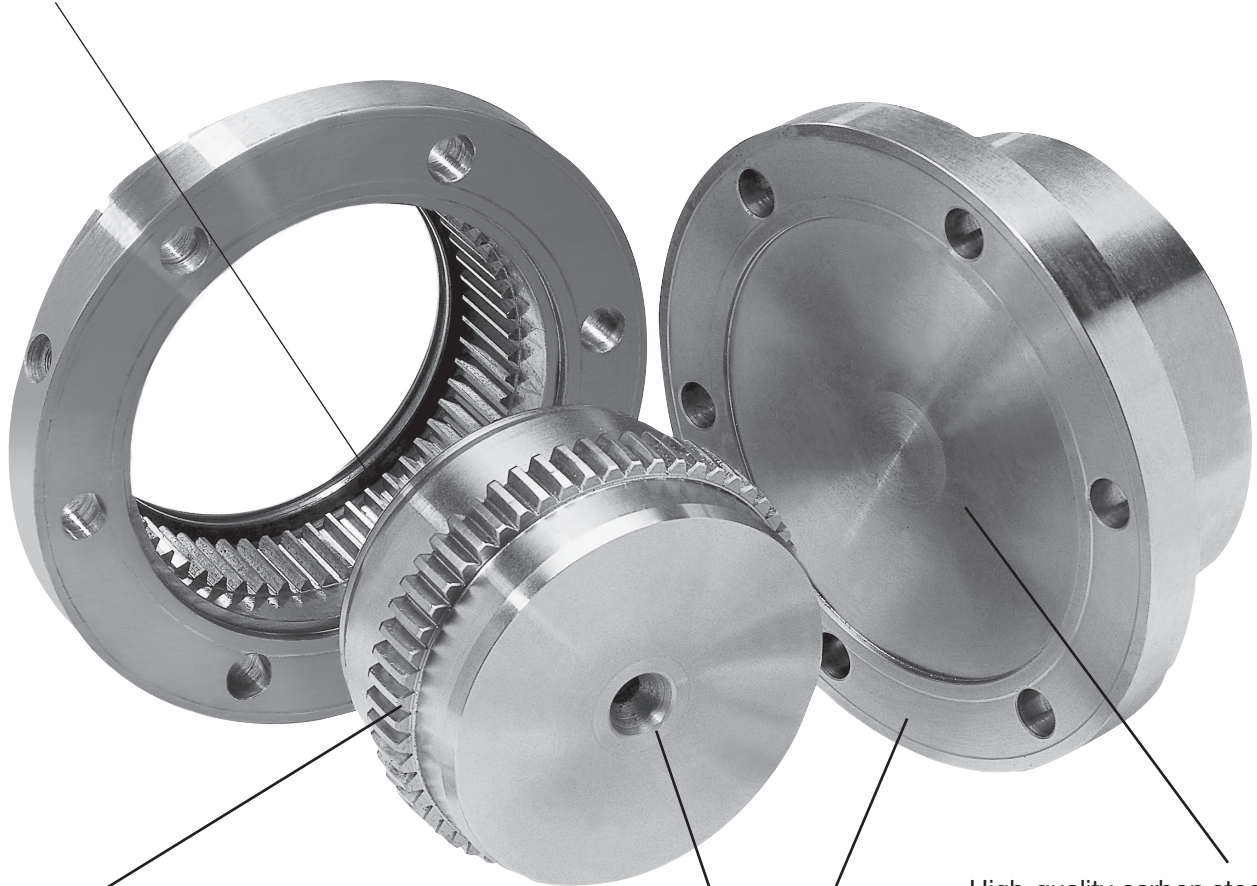
- Coupling solutions for any application
Choose from DODGE coupling family: Gear (DGF), PARA-FLEX, GRID-LIGN, D-FLEX, Rigid and Fluid - all available from stock
- Combine DODGE couplings with any DODGE speed reducer for unmatched performance
Choose from thousands of combinations to get a package tailored to meet your needs
- Years of application expertise
DODGE engineers can help specify products to achieve maximum results from your equipment



FEATURES/BENEFITS

Gear Couplings

Reliable O-ring design effectively seals against contaminants



High pressure angle provides large tooth base; results in high safety factor

Flexible, rigid hub styles available

High-quality carbon steel ensures longer service life

SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Gear Couplings

SPECIFICATION

DODGE GEAR COUPLINGS are power dense and capable of transmitting high torque at high speeds while still remaining inherently well balanced. Gear Couplings transmit torque by the mating of two hubs with external gear teeth that are joined by flanged sleeves with internal gear teeth.

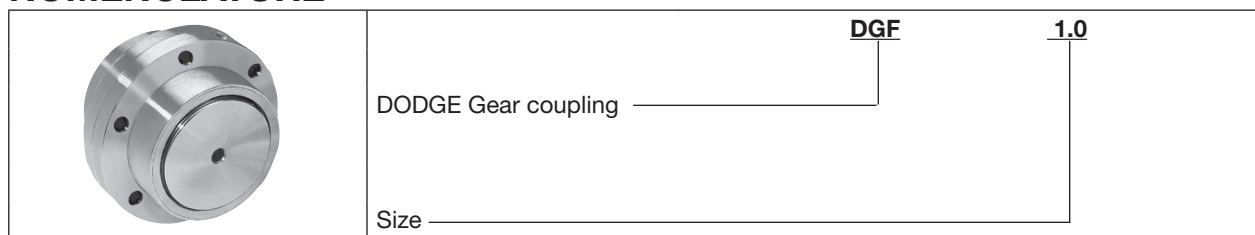
Gear Couplings will be provided with interference fit bores unless otherwise specified. The hubs and sleeves will be manufactured of high quality steel.

HOW TO ORDER

Standard couplings consist of:

- (2) Flex Hubs
- (2) Sleeves
- (1) Hardware Kit

NOMENCLATURE



COMPETITOR INTERCHANGE

DODGE DGF	FALK LIFELIGN	KOP-FLEX KOPPERS SERIES H	AMERIGEAR ZURN F SERIES	LOVEJOY/ SIER-BATH
1	1010G20 *	1	201	-
1.5	1015G20	1-1/2	201-1/2	1.5
2	1020G20	2	202	2
2.5	1025G20	2-1/2	202-1/2	2.5
3	1030G20	3	203	3
3.5	1035G20	3-1/2	203-1/2	3.5
4	1040G20	4	204	4
4.5	1045G20	4-1/2	204-1/2	4.5
5	1050G20	5	205	5
5.5	1055G20	5-1/2	205-1/2	5.5
6	1060G20	6	206	6
7	1070G20	7	207	-

* G20 - FLEX-FLEX
G52 - FLEX-RIGID

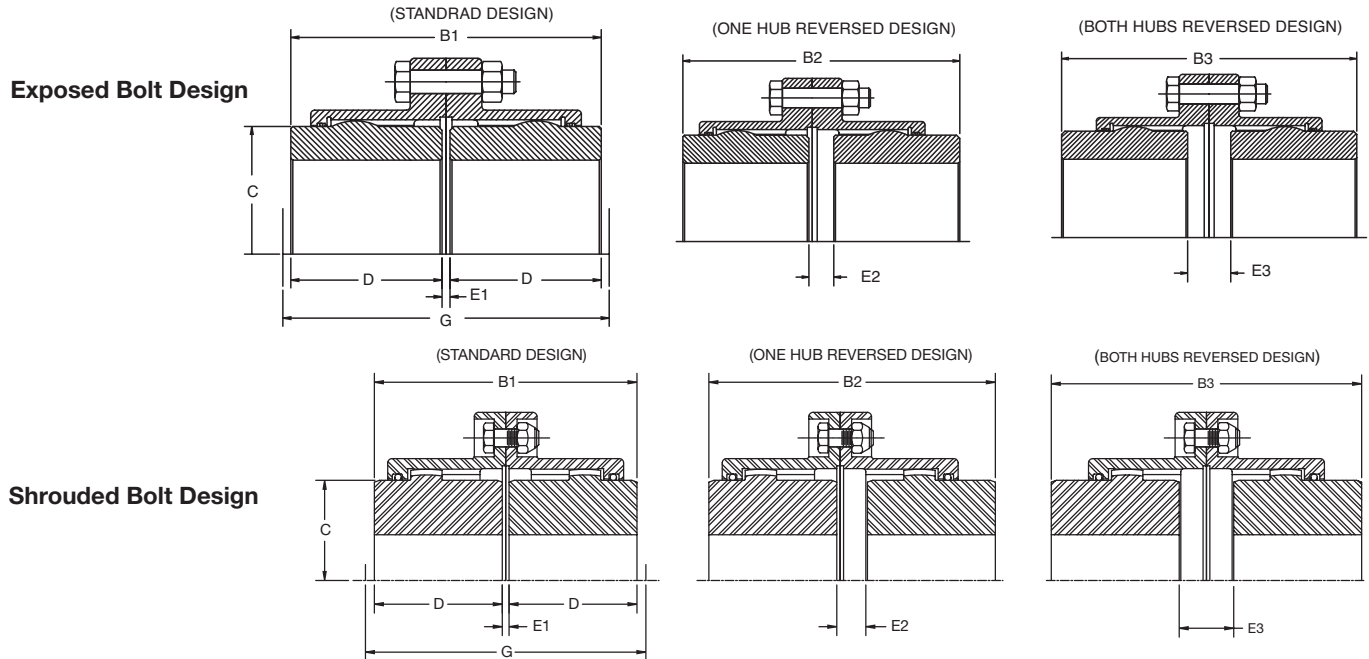
NOTE: Instruction manual for Gear Couplings available on www.dodge-pt.com

FEATURES/BENEFITS PAGE PT1-60	SPECIFICATION/HOW TO ORDER PAGE PT1-63	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



SELECTION/DIMENSIONS

Gear Couplings



Size	Min. Bore [in.]	Max. Bore [in.] Standard Keyway		Max. Bore [in.] Shallow Keyway		HP/100+ RPM	Torque+ [lb-in.]	Max. RPM*	Max. Parallel Offset [in.]**	Approx. Weight [lbs.] ***
		Flex Hub	Rigid Hub	Flex Hub	Rigid Hub					
1	0.438	1.625	2.188	1.750	2.313	12	7500	6000	0.055	9
1.5	0.690	2.125	2.813	2.250	3.063	30	18900	5500	0.060	19
2	0.940	2.750	3.500	3.000	3.750	50	31500	5000	0.085	34
2.5	1.440	3.250	4.250	3.375	4.500	90	56700	4400	0.105	55
3	1.440	4.000	4.875	4.250	5.250	150	94500	4000	0.115	86
3.5	1.810	4.625	5.625	4.875	6.125	240	151300	3500	0.130	135
4	2.440	5.375	6.500	5.625	6.875	350	220600	3000	0.150	195
4.5	3.000	6.000	7.375	6.438	8.000	480	302500	2700	0.175	268
5	3.000	6.500	8.375	7.000	8.875	690	434900	2500	0.200	394
5.5	4.000	7.500	9.250	7.875	9.875	910	573500	2200	0.220	526
6	4.000	8.250	10.125	8.750	11.000	1190	750000	2100	0.120	687
7	5.000	9.500	11.250	9.750	12.250	1600	1008400	2000	0.135	1017

+ Ratings are based on standard interference fit.

* For higher RPM applications, contact DODGE Customer Order Engineering at (864) 284-5700.

** Based on 1-1/2 degrees angular misalignment per gear mesh for sizes 1 through 5-1/2, 3/4 degree angular misalignment per gear mesh for sizes 6 and 7, and maximum bore. Flex-Rigid configurations do not accept parallel misalignment.

*** Approximate weight with minimum bore.

Size	Dimension [in.]								
	B1	B2	B3	C	D	E1	E2	E3	G
1	3-1/2	3-13/16	4-1/8	2-5/16	1-11/16	1/8	7/16	3/4	4-3/16
1.5	4	4-1/4	4-1/2	3	1-15/16	1/8	3/8	5/8	4-3/4
2	5	5-13/16	6-3/8	4	2 -7/16	1/8	13/16	1-1/2	6
2.5	6-1/4	7-1/32	7-13/16	4-5/8	3-1/32	3/16	31/32	1-3/4	7-1/8
3	7-3/8	8-1/32	8-11/16	5-5/8	3-19/32	3/16	27/32	1-1/2	8-1/8
3.5	8-5/8	9-3/16	9-3/4	6-1/2	4-3/16	1/4	13/16	1-3/8	9-3/8
4	9-3/4	10-7/16	11-1/8	7-1/2	4-3/4	1/4	15/16	1-5/8	10-1/4
4.5	10-15/16	12	13-1/16	8-1/2	5-5/16	5/16	1-3/8	2-7/16	11-1/2
5	12-3/8	13-23/32	15-1/16	9-1/2	6-1/32	5/16	1-21/32	3	13
5.5	14-1/8	15-5/8	17-1/8	6-29/32	6-29/32	5/16	1-13/16	3-5/16	14-3/8
6	15-1/8	16-17/32	17-15/16	11-1/2	7-13/32	5/16	1-23/32	3-1/8	17
7	17-3/4	19-1/16	20-3/8	13	8-11/16	3/8	1-11/16	3	20

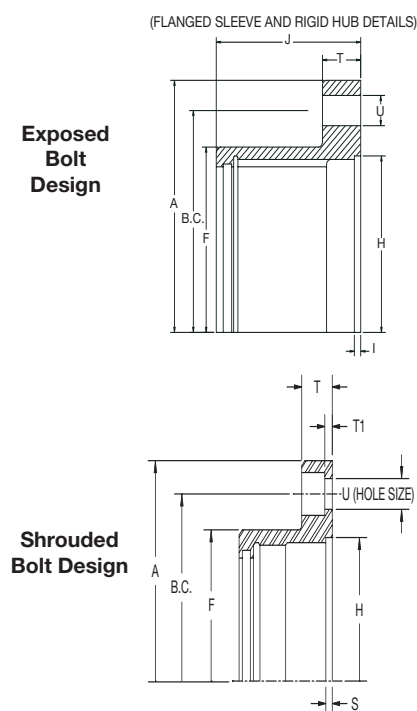
* Minimum space required to install and align coupling.

FEATURES/BENEFITS PAGE PT1-60	SPECIFICATION/HOW TO ORDER PAGE PT1-62	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



SELECTION/DIMENSIONS

Gear Couplings



Size	Outside Diameter A	Flange Width J	Flange Thickness T	Hub T1	Hub Diameter F	Undercut Depth I	Undercut Diameter H	Hole Diameter U	Bolt Circle B.C.	Number of Bolts
All Dimensions in Inches										
1 EB	4-9/16	1-21/32	9/16	-	3	3/32	2 -7/8	1/4	3-3/4	6
1 SB	4-9/16	1-21/32	9/16	1/2	3	3/32	2 -7/8	1/4	3-3/4	6
1.5 EB	6	1-7/8	3/4	-	3-7/8	3/32	3-11/16	3/8	4-13/16	8
1.5 SB	6	1-7/8	3/4	1/2	3-7/8	3/32	3-11/16	3/8	4-13/16	8
2 EB	7	2-3/8	3/4	-	4-13/16	3/32	4-5/8	1/2	5 -7/8	6
2 SB	7	2-3/8	3/4	1/2	4-13/16	3/32	4-5/8	3/8	5-13/16	10
2.5 EB	8-3/8	2-7/8	15/16	-	5-13/16	3/32	5-7/16	5/8	7-1/8	6
2.5 SB	8-3/8	2-7/8	15/16	5/16	5-13/16	3/32	5-7/16	1/2	7	10
3 EB	9-7/16	3-5/16	15/16	-	6-13/16	3/32	6-7/16	5/8	8-1/8	8
3 SB	9-7/16	3-5/16	15/16	5/16	6-13/16	3/32	6-7/16	1/2	8	12
3.5 EB	11	3-13/16	1-1/8	-	7-27/32	3/32	7-3/8	3/4	9-1/2	8
3.5 SB	11	3-13/16	1-1/8	3/8	7-27/32	3/32	7-3/8	5/8	9-9/32	12
4 EB	12-1/2	4-1/4	1-1/8	-	9-3/16	3/16	8-3/4	3/4	11	8
4 SB	12-1/2	4-1/4	1-1/8	3/8	9-3/16	3/16	8-3/4	5/8	10-5/8	14
4.5 EB	13-5/8	4-13/16	1-1/8	-	10-5/16	3/16	9-3/4	3/4	12	10
4.5 SB	13-5/8	4-13/16	1-1/8	3/8	10-5/16	3/16	9-3/4	5/8	11-3/4	14
5 EB	15-5/16	5-1/2	1-1/2	-	11-7/16	3/16	10-3/4	7/8	13-1/2	8
5 SB	15-5/16	5-1/2	1-1/2	9/16	11-7/16	3/16	10-3/4	3/8	13-3/16	14
5.5 EB	16-3/4	6	1-1/2	-	10-1/2	3/16	12-1/8	7/8	14-1/2	14
5.5 SB	16-3/4	6	1-1/2	9/16	10-1/2	3/16	12-1/8	3/4	14-7/16	16
6 EB*	18	6-11/16	1	-	13-15/16	3/16	13 -3/8	7/8	15-3/4	14
7 EB*	20-3/4	7-3/8	1-1/8	-	15-3/4	1/4	14-5/8	1	18-1/4	16

EB = Exposed Bolt Pattern

SB = Shrouded Bolt Pattern

* Sizes 6 & 7 only available in exposed bolt pattern

Part Numbers

Part Number	Description	Part Number	Description	Part Number	Description
Size 1.0		Size 3.0		Size 5.0	
013110	DGF 1.0 FLEX HUB	013126	DGF 3.0 FLEX HUB	013142	DGF 5.0 FLEX HUB
013111	DGF 1.0 SLEEVE EB	013127	DGF 3.0 SLEEVE EB	013143	DGF 5.0 SLEEVE EB
012975	DGF 1.0 SLEEVE SB	012979	DGF 3.0 SLEEVE SB	012983	DGF 5.0 SLEEVE SB
013112	DGF 1.0 RIGID HUB EB	013128	DGF 3.0 RIGID HUB EB	013144	DGF 5.0 RIGID HUB EB
013113	DGF 1.0 EB HARDWARE KIT	013129	DGF 3.0 EB HARDWARE KIT	013145	DGF 5.0 EB HARDWARE KIT
394171	DGF 1.0 SB HARDWARE KIT	394175	DGF 3.0 SB HARDWARE KIT	394179	DGF 5.0 SB HARDWARE KIT
Size 1.5		Size 3.5		Size 5.5	
013114	DGF 1.5 FLEX HUB	013130	DGF 3.5 FLEX HUB	013146	DGF 5.5 FLEX HUB
013115	DGF 1.5 SLEEVE EB	013131	DGF 3.5 SLEEVE EB	013147	DGF 5.5 SLEEVE EB
012976	DGF 1.5 SLEEVE SB	012980	DGF 3.5 SLEEVE SB	012984	DGF 5.5 SLEEVE SB
013116	DGF 1.5 RIGID HUB EB	013132	DGF 3.5 RIGID HUB EB	013148	DGF 5.5 RIGID HUB EB
013117	DGF 1.5 EB HARDWARE KIT	013133	DGF 3.5 EB HARDWARE KIT	013149	DGF 5.5 EB HARDWARE KIT
394172	DGF 1.5 SB HARDWARE KIT	394176	DGF 3.5 SB HARDWARE KIT	394180	DGF 5.5 SB HARDWARE KIT
Size 2.0		Size 4.0		Size 6.0	
013118	DGF 2.0 FLEX HUB	013134	DGF 4.0 FLEX HUB	013150	DGF 6.0 FLEX HUB
013119	DGF 2.0 SLEEVE EB	013135	DGF 4.0 SLEEVE EB	013151	DGF 6.0 SLEEVE EB
012977	DGF 2.0 SLEEVE SB	012981	DGF 4.0 SLEEVE SB	013152	DGF 6.0 RIGID HUB EB
013120	DGF 2.0 RIGID HUB EB	013136	DGF 4.0 RIGID HUB EB	013153	DGF 6.0 HARDWARE KIT
013121	DGF 2.0 EB HARDWARE KIT	013137	DGF 4.0 EB HARDWARE KIT		
394173	DGF 2.0 SB HARDWARE KIT	394177	DGF 4.0 SB HARDWARE KIT		
Size 2.5		Size 4.5		Size 7.0	
013122	DGF 2.5 FLEX HUB	013138	DGF 4.5 FLEX HUB	013154	DGF 7.0 FLEX HUB
013123	DGF 2.5 SLEEVE EB	013139	DGF 4.5 SLEEVE EB	013155	DGF 7.0 SLEEVE EB
012978	DGF 2.5 SLEEVE SB	012982	DGF 4.5 SLEEVE SB	013156	DGF 7.0 RIGID HUB EB
013124	DGF 2.5 RIGID HUB EB	013140	DGF 4.5 RIGID HUB EB	013157	DGF 7.0 HARDWARE KIT
013125	DGF 2.5 EB HARDWARE KIT	013141	DGF 4.5 EB HARDWARE KIT		
394174	DGF 2.5 SB HARDWARE KIT	394178	DGF 4.5 SB HARDWARE KIT		

Ordering Information: Standard Gear Couplings may be orders in 3 different assemblies -

1. Flex-Flex (or Full Flex): To order a complete Flex-Flex coupling you need - (2) Flex Hubs [reborable], (2) Sleeves (includes Seal), and (1) Hardware Kit.
2. Flex-Rigid: To order a complete Flex-Rigid Coupling you need - (1) Flex Hub [reborable], (1) Sleeve (includes Seal), (1) Rigid Hub [reborable], and (1) Hardware Kit.
3. Rigid-Rigid: To order a complete Rigid-Rigid Coupling you need - (2) Rigid Hubs [reborable], and (1) Hardware Kit.

FEATURES/BENEFITS PAGE PT1-60	SPECIFICATION/HOW TO ORDER PAGE PT1-62	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



DODGE Moment Couplings

DODGE Moment Couplings are specifically designed to make the rigid connection between the output shaft of a gearbox and an overhung driven load, commonly a head pulley. Highly engineered to meet the most rigorous application requirements, these couplings are capable of handling both the required application torque and the bending moment forces of the suspended weight of a drive package, including the gearbox, motor, high-speed coupling, and swing base.

Moment Coupling hubs are designed to maximize the bore range of the driver and driven shafts. The male and female hubs are manufactured from 4140 alloy steel and are assembled with Grade 8 bolts. Suitable for a wide range of applications, DODGE Moment Couplings span a torque range of 100,000 to 920,000 inch-pounds and may be used in DODGE MagnaGear packages and in other operations.

Information needed from the customer for DODGE engineering to select the appropriate Moment Coupling for an application:

- Horse Power / Torque / Speed Requirements
- Driver and Driven Shaft Sizes
- Overhung Load
- Length of Lever Arm
- Application Specifics: Type of Operation; Required Stops and Starts; Shock Loads and Vibration

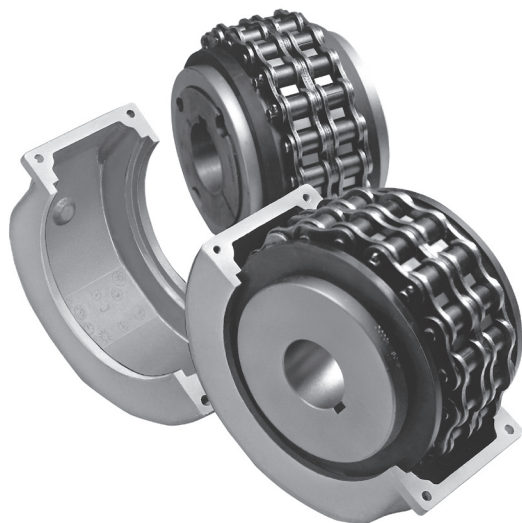
For more information on Couplings contact your authorized DODGE distributor or log onto www.dodge-pt.com.

FEATURES/BENEFITS PAGE PT1-61	SPECIFICATION/HOW TO ORDER PAGE PT1-67	MODIFICATION/ACCESSORIES PAGE PT1-78	ENGINEERING/TECHNICAL PAGE PT1-80
----------------------------------	---	---	--------------------------------------



FEATURES/BENEFITS

Chain Couplings



DODGE Chain Couplings offer a simple, widely accepted and inexpensive way to couple two shafts. They are interchangeable with industry standard dimensions. DODGE Chain Couplings can be provided with TAPER-LOCK bushed hubs, finished bore or reboreable flanges. Chain coupling covers and chain assemblies are also available from stock.

Low Operating Cost

- Long service life
- Inexpensive initial investment
- Economical replacement costs

Broad Product Line

- Six popular TAPER-LOCK coupling sizes
- Eleven popular straight bore sizes
- Stocked covers available for higher speeds

Shaft Attachment Flexibility

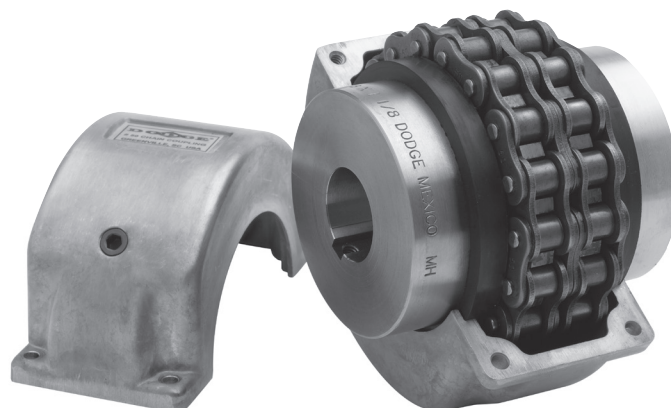
- TAPER-LOCK bushings
- Slip fit with setscrews
- Interference fit

High Torque Capability

- Hardened tooth sprockets
- ANSI standard double width roller chain

Compact Design

- All metallic components
- Excellent torque to bore compatibility



NOTE: Instruction manual for Chain Couplings and TAPER-LOCK Bushings available on www.dodge-pt.com



Chain Couplings

SPECIFICATION

Chain Couplings transmit torque through two hubs with hardened sprocket teeth and a double width roller chain. The chain is wrapped around the sprocket and connected with a link or pin for easy installation or removal. The Chain Coupling allows for misalignment through the clearances between chain and sprocket teeth. The coupling allows 2° angular misalignment,.015" parallel misalignment and up to.300" shaft end float. The temperature range is -30°F to +225°F.

The coupling hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with one set screw over the keyway.

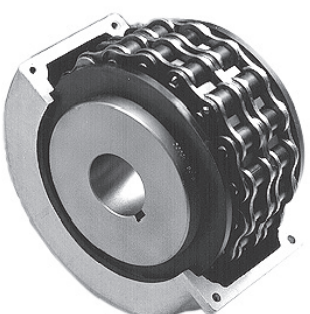
Aluminum covers with elastomeric seals contain lubricant and protect the chain and teeth in an abrasive or corrosive atmosphere.

HOW TO ORDER

Standard couplings consist of:

- (2) Flanges
- (1) Chain Assembly
- (1) Cover (check RPM requirements on page PT1-68)

NOMENCLATURE



FB 60 18

FB = Finished Bore

B = Reborable

Blank = TAPER-LOCK

Chain Size

Number of Teeth



EASY SELECTION

Chain Couplings

Basic Size No.	Max. Bore			Max. RPM		*HP Ratings at Various RPM 1.0 Service Factor									
	TAPER-LOCK	Finished Bore	Reborable	Without Covers	With Covers	10	20	40	60	80	100	150	200	250	300
4012	..	3/4	7/8	875	5000	0.22	0.43	0.86	1.29	1.72	2.15	2.83	3.43	4.03	4.57
4016	1-1/8	1-1/8	1-5/16	875	5000	0.38	0.77	1.53	2.30	3.06	3.83	5.02	6.06	7.14	8.08
5012	...	1-1/8	1-1/8	875	...	40	0.81	1.61	2.42	3.23	4.03	5.30	6.39	7.57	8.57
5016	...	1-5/8	1-11/16	800	4000	0.73	1.46	2.93	4.39	5.86	7.32	9.60	11.7	13.7	15.5
5018	1-11/16	...	2	800	4000	0.95	1.89	3.79	5.68	7.57	9.47	12.4	15.0	17.7	20.0
6018	...	2-7/16	2-7/16	675	3000	1.73	3.46	6.92	10.4	13.8	17.3	22.9	27.6	32.5	36.8
6020	2-1/8	...	2-3/4	675	3000	2.25	4.50	9.01	13.5	18.0	22.5	29.6	35.6	42.0	47.6
8018	...	2-7/8	3-1/8	500	2000	3.86	7.72	15.4	23.2	30.9	38.6	50.8	61.4	72.3	81.5
8020	3-1/4	...	3-9/16	500	2000	5.03	10.1	20.1	30.2	40.3	50.3	66.1	79.7	94.0	106.0
10020	3-15/16	...	4-5/8	450	1800	8.68	17.4	34.7	52.1	69.4	86.8	115.0	139.0	162.0	184.0
12018	...	...	4-11/16	400	...	13.7	27.3	54.6	82.0	109.0	137.0	178.0	217.0	253.0	288.0
12020	4-7/16	...	...	400	1600	16.8	33.6	67.2	101.0	134.0	168.0	218.0	264.0	308.0	350.0

* TAPER-LOCK Bushings are not recommended below 250 RPM

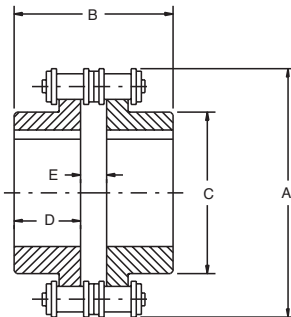
Basic Size No.	Max. Bore			Max. RPM		HP Ratings at Various RPM 1.0 Service Factor									
	TAPER-LOCK	Finished Bore	Reborable	Without Covers	With Covers	350	400	500	600	800	1000	1200	1400	160	1800
4012	..	3/4	7/8	875	5000	5.10	5.57	6.55	7.56	9.42	11.3	13.1	14.9	16.6	18.2
4016	1-1/8	1-1/8	1-5/16	875	5000	9.04	9.89	11.6	13.4	16.7	20.1	23.0	26.3	29.3	32.7
5012	...	1-1/8	1-1/8	875	...	9.41	10.42	12.2	14.1	17.5	21.0	...	...	...	...
5016	...	1-5/8	1-11/16	800	4000	17.3	18.9	22.3	25.7	32.0	38.3	44.5	50.4	56.2	61.9
5018	1-11/16	...	2	800	4000	22.4	24.5	28.8	33.1	41.4	49.7	56.8	65.1	72.6	80.9
6018	...	2-7/16	2-7/16	675	3000	41.2	44.9	53.0	60.9	75.9	90.7	105.0	120.0	134.0	147.0
6020	2-1/8	...	2-3/4	675	3000	53.2	58.2	68.5	78.8	98.5	118.0	135.0	155.0	173.0	192.0
8018	...	2-7/8	3-1/8	500	2000	91.5	99.8	118.0	135.0	169.0	202.0	234.0	266.0	297.0	326.0
8020	3-1/4	...	3-9/16	500	2000	119.0	130.0	153.0	176.0	220.0	264.0	302.0	346.0	386.0	430.0
10020	3-15/16	...	4-5/8	450	1800	205.0	225.0	265.0	305.0	380.0	454.0	527.0	598.0	667.0	734.0
12018	...	...	4-11/16	400	...	322.0	355.0	...	...	...	...	...	...	...	...
12020	4-7/16	...	...	400	1600	391.0	432.0	510.0	585.0	708.0	877.0	1003.0	1135.0	1273.0	...



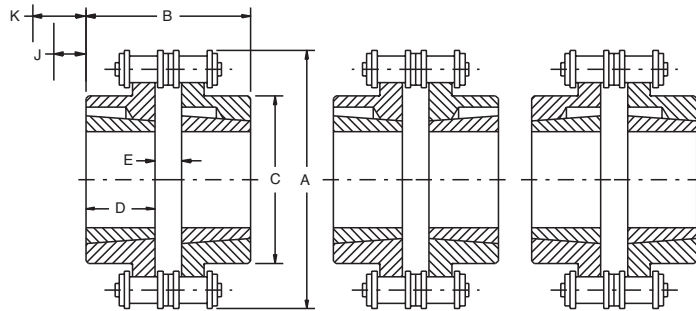
SELECTION/DIMENSIONS

Chain Couplings

STANDARD, STRAIGHT BORE AND TAPER-LOCK - FLANGES DIMENSIONS, RATINGS



STRAIGHT BORE CHAIN COUPLING



TYPE H-F

TYPE H-H

TYPE F-F

TAPER-LOCK CHAIN COUPLING

Ratings

Coupling Size	Straight Bore		TAPER-LOCK		Max. RPM		Weight (lbs.) (1)	
	Min.	Max.	Min.	Max.	Without Cover	With Cover	Str.	TL
4012	1/2	7/8	---	---	875	5000	2.20	---
4016	5/8	1-5/16	1/2	1-1/8	875	5000	3.80	2.70
5012	5/8	1-1/8	---	---	875	---	3.10	---
5016	5/8	1-11/16	---	---	800	4000	5.00	---
5018	3/4	2	1/2	1-11/16	800	4000	6.00	6.00
6018	1	2-7/16	---	---	675	3000	9.90	---
6020	1-1/8	2-3/4	1/2	2-1/8	675	3000	12.25	12.70
8018	1-1/8	3-1/8	---	---	500	2000	31.10	---
8020	1-1/2	3-9/16	7/8	3-1/4	500	2000	33.50	31.10
10020	1-1/2	4-5/8	1-3/16	3-15/16	450	1800	80.00	77.90
12018	2	4-11/16	---	---	400	---	110.00	---
12020	---	---	1-7/16	4-7/16	400	1600	---	135.00

Dimensions

Coupling Size	A	B		C	D		E		K (2)	J (3)
		Str.	T-L		Str.	T-L	Str.	T-L		
4012	2.41	2.53	---	1.41	1.13	---	0.28	---	---	---
4016	3.03	2.53	2.04	1.97	1.13	0.88	0.28	0.28	0.75	0.63
5012	3.00	2.88	---	1.75	1.25	---	0.38	---	---	---
5016	3.91	3.25	---	2.50	1.44	---	0.38	---	---	---
5018	4.19	3.75	2.38	2.97	1.69	1.00	0.38	0.38	1.06	0.81
6018	5.00	4.23	---	3.50	1.88	---	0.47	---	---	---
6020	5.50	4.47	2.94	3.88	2.00	1.25	0.47	0.47	1.38	0.94
8018	6.66	5.35	---	4.56	2.38	---	0.59	---	---	---
8020	7.30	5.85	4.59	5.38	2.63	2.00	0.59	0.59	2.06	1.19
10020	9.13	6.97	7.63	6.72	3.13	3.50	0.72	0.72	2.34	1.31
12018	10.00	7.88	---	6.75	3.50	---	0.86	---	---	---
12020	10.94	---	8.75	7.75	---	4.00	---	0.86	3.38	1.63

(1) Weight of complete coupling with cover at maximum bore (5012 & 12018 are without cover).

(2) Space required to loosen bushing with shortened hex key.

FEATURES/BENEFITS PAGE PT1-66	EASY SELECTION PAGE PT1-68	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	-------------------------------	---	--------------------------------------



SELECTION/DIMENSIONS

Chain Couplings

TAPER-LOCK, Reborable, Finished Bore Flanges - Part Number

Bore (in.)	Coupling Size											
	4012	4016	5012	5016	5018	6018	6020	8018	8020	10020	12018	12020
Chain Assembly	100480	100490	100489	100481	100491	100482	100492	100483	100493	100495	100497	100496
TL-H	---	• 099049	---	---	• 099053	---	• 099055	---	• 099057	• 099061	---	• 099063
TL-F	---	• 099048	---	---	• 099052	---	• 099054	---	• 099056	• 099060	---	• 099062
Bushing	---	1108	---	---	1610	---	2012	---	3020	3535	---	4040
Reborable	• 099190	• 099151	• 099150	• 099152	• 099161	• 099153	• 099162	• 099154	• 099163	• 099164	• 099226	
Finished Bore Hubs												
1/2"	• 099100											
5/8"	• 099101	• 099138										
3/4"	• 099102	• 099103	• 099132	• 099141	• 099193							
7/8"		• 099104	• 099133	• 099107	• 099194							
15/16"		• 099139	• 099134									
1"		• 099105	• 099135	• 099108	• 099195	• 099142						
1-1/8"		• 099106	• 099136	• 099109	• 099196	• 099143	• 099209	• 099146				
1-3/16"		• 099191		• 099192	• 099197	• 099206						
1-1/4"		• 099140		• 099110	• 099198	• 099115	• 099210					
1-3/8"				• 099111	• 099199	• 099116						
1-7/16"				• 099112	• 099200	• 099117						
1-1/2"				• 099113	• 099201	• 099118	• 099211		• 099219			
1-5/8"				• 099114	• 099202	• 099119						
1-3/4"					• 099203	• 099120	• 099212	• 099147				
1-7/8"					• 099204	• 099121						
1-15/16"					• 099205	• 099122	• 099213	• 099125				
2"						• 099123		099126				
2-1/8"						• 099124	• 099214	• 099127				
2-3/16"						• 099207			• 099220			
2-1/4"						• 099208						
2-3/8"						• 099144	• 099215	• 099128				
2-7/16"						• 099145	• 099216	• 099129	• 099221			
2-5/8"							• 099217	• 099130				
2-11/16"									• 099222			
2-7/8"								• 099131				
2-15/16"								• 099218	• 099223			
3-1/8"												
3-3/8"									• 099224			
3-7/16"									• 099225			

• Stock Sizes

Complete coupling consists of:

- (2) Hubs, TAPER-LOCK, straight bore, or reborable
- (1) Chain Assembly
- (1) Cover Assembly (if required)

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately



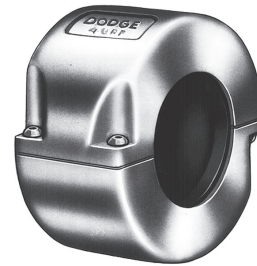
SELECTION/DIMENSIONS

Chain Couplings

CHAIN COUPLING COVERS

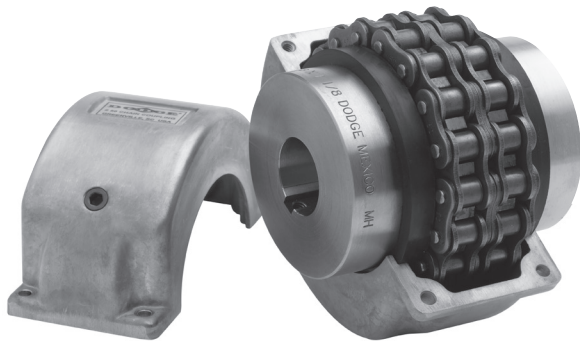
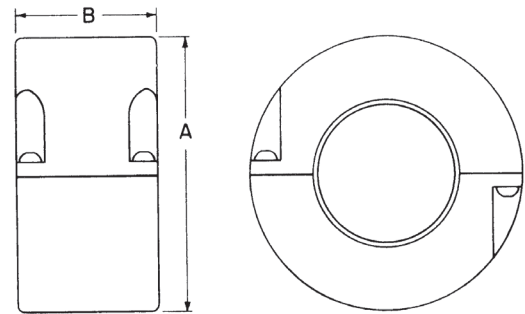
Chain coupling covers are recommended for use when couplings are operating under abrasive or moist conditions, or when coupling speeds exceed the RPM listed in the table below.

Cover should be filled with a roller bearing grease of soft or medium consistency. This provides excellent lubrication and substantially increases coupling life.



Chain Coupling Cover Recommendation

Coupling Size	Cover required when Coupling RPM exceeds this figure
4012	875
4016	875
5016	800
5018	800
6018	675
6020	675
8018	500
8020	500
10020	450
12020	400



Chain Coupling Cover Assemblies ▲

For Coupling Size	Cover Size	Part No.	Wt. (lbs.)	A	B
4012	40	099026	1.0	4.00	2.00
4016					
5016	50	099027	1.3	5.13	2.38
5018					
6018	60	099028	2.6	6.38	2.94
6020					
8018	80	099029	5.1	8.19	4.00
8020					
10020	100	099024	12.2	10.13	5.25
12020	120	099025	19.5	12.25	6.13

▲ Consists of (2) cover halves and screws; (4) seals for cover sizes 4012/4016 thru 8012/8020; (2) seals for cover sizes 10020 and 12020; and (2) cover gaskets.

SPECIFICATION/HOW TO ORDER NOMENCLATURE



POLY-DISC

SPECIFICATION

POLY-DISC Couplings are a pin type coupling using a molded polyurethane disc. The physical properties of the disc allow for the cushioning of shock loads and the resistance to most common chemicals such as acids, alkalis and petroleum products. The disc has an operating range of -90°F to +170°F.

The flexible disc is captured through metallic pins, utilizing a light press fit over the pins to prevent the accumulation of abrasive particles between the disc and pins. The pin holes are barreled to allow 2° angular misalignment and the flexible disc allows 1/32" parallel misalignment. The disc has spacer buttons to achieve automatic flange spacing which speeds up installation. Both flanges are machined all over and are taper bored to receive TAPER-LOCK bushings to permit quick and easy installation on shafts of equal or different diameters.

HOW TO ORDER

Consist of:

- (2) TAPER-LOCK Flanges
- (1) Disc

NOMENCLATURE

Size 3-1/4 - H
(O.D. of Coupling)
Type of T-L Flange
H-Bushing installs from hub side
F-Bushing installs from flange size

Other Couplings -

RIGID SPECIFICATION

Rigid Couplings provide a connection between two perfectly aligned shafts. Flanged Rigid Couplings consist of two flanges joined by bolts and taper bored for TAPER-LOCK bushings to connect shafts of the same or different diameters. Ribbed Rigid Couplings are axially split to clamp on shafts of the same diameter and held together by bolts. The coupling uses one key over the entire length and permits quick and easy installation and removal.

HOW TO ORDER

TAPER-LOCK consist of:
(1) Male Flange Assembly
(1) Female Flange

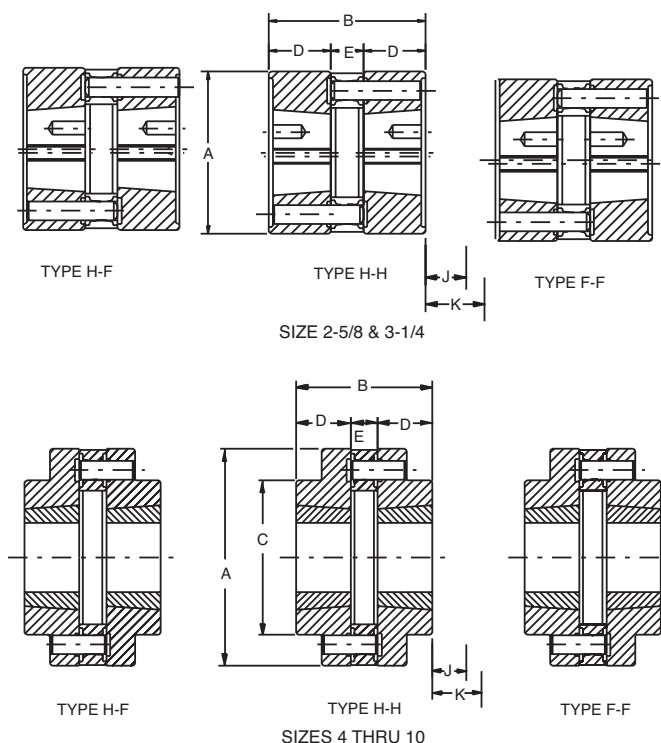
NOMENCLATURE

T-L Rigid R 35 Ribbed Rigid 2-3/4
Size (Designated size of T-L Bushing) Bore Size of Coupling

NOTE: Instruction manuals for POLY-DISC Couplings and TAPER-LOCK Bushings available on www.dodge-pt.com

SELECTION/DIMENSIONS

POLY-DISC



Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lb)	Max. RPM	A	B	C	D	E	J	K	Weight (Lbs.)	Inertia (Lb-Ft ²)	Hole In disc
2-5/8	1008	1/2	1	0.29	180	3600	2.63	2.56	2.63	1.00	0.69	0.63	0.75	2.50	2.30	6
3-1/4	1210	1/2	1-1/4	0.57	360	3600	3.25	2.88	3.25	1.13	0.75	0.81	1.06	4.15	6.20	6
4	1215	1/2	1-1/4	0.95	600	3600	4.00	3.63	2.63	1.50	0.63	0.81	1.06	5.80	10.00	8
5-1/4	1615	1/2	1-11/16	2.29	1440	3600	5.25	3.75	3.25	1.50	0.75	0.81	1.06	12.10	34.40	8
7	2517	1/2	2-11/16	4.6	2900	3000	7.00	4.38	4.97	1.75	0.88	1.00	1.63	25.90	141.20	10
8	2517	1/2	2-11/16	10	6300	2400	8.00	4.63	5.00	1.75	1.13	1.00	1.63	34.10	246.70	12
10	3030	15/16	3-1/4	17.26	10900	2000	10.00	7.5	6.00	3.00	1.50	1.31	2.69	77.70	866.00	12

POLY-DISC Part Numbers

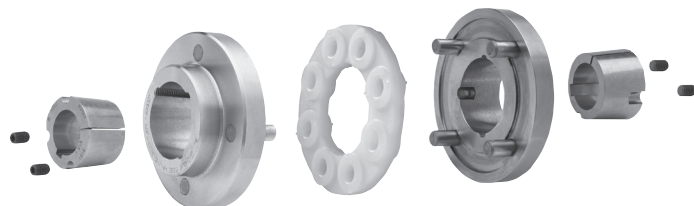
Coupling Size	Bushing Size	T-L Flanges (2) Req'd		Disc (1) Req'd
		Type H	Type F	
2-5/8	1008	008057	008058	008030
3-1/4	1210	008059	008060	008031
4	1215	008041	008040	008032
5-1/4	1615	008043	008042	008033
7	2517	008045	008044	008034
8	2517	008047	008046	008035
10	3030	008049	008048	008036

Complete coupling consists of:

(2) TAPER-LOCK Flanges (as selected)

(1) POLY-DISC Element.

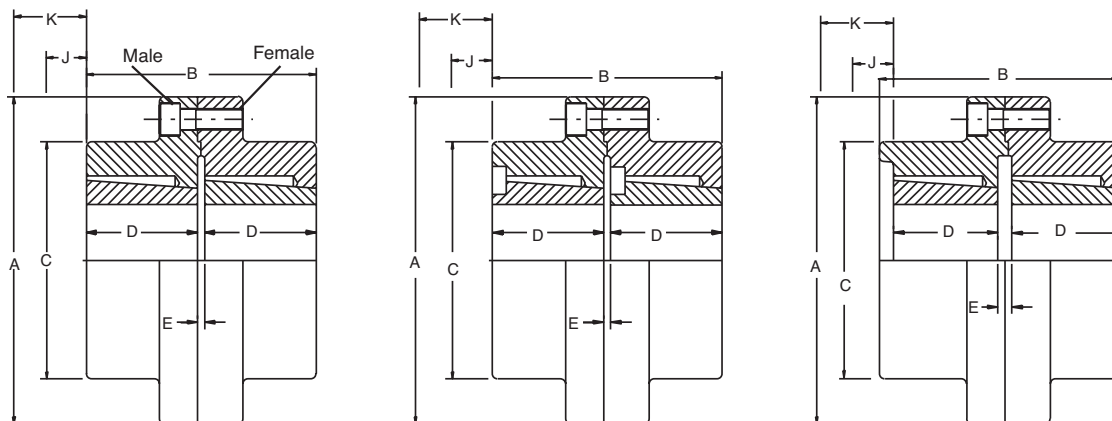
NOTE: TAPER-LOCK bushings ordered separately. Refer to Bushing section PT6-15



FEATURES/BENEFITS PAGE PT1-66	SPECIFICATION/HOW TO ORDER PAGE PT1-72	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

SELECTION/DIMENSIONS

TAPER-LOCK Rigid



R16 TO R30

R35 TO R50

R60

Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In Lb)**	Max. RPM	A	B	C	D	E	J*	K†	Weight (Lbs.)
R16	1615	1/2	1-11/16	8.0	5,050	4965	5.00	3.25	3.25	1.50	0.25	0.81	1.06	8.00
R25	2517	1/2	2-11/16	29.2	18,400	3545	7.00	3.75	5.00	1.75	0.25	1.00	1.63	19.10
R30	3030	15/16	3-1/4	50.5	31,800	2920	8.50	6.25	5.75	3.00	0.25	1.19	2.06	38.10
R35	3535	1-3/16	3-15/16	80.0	50,500	2545	9.75	7.25	7.00	3.50	0.25	1.31	2.69	62.20
R40	4040	1-7/16	4-7/16	120	75,500	2115	11.75	8.25	8.50	4.00	0.25	1.63	3.38	105.60
R45	4545	1-15/16	4-15/16	170	107,000	1910	13.00	9.25	9.50	4.50	0.25	1.94	4.06	146.70
R50	5050	2-7/16	5-5/16	233	147,000	1740	14.25	10.25	10.50	5.00	0.25	2.31	4.81	194.40
R60	6050	3-7/16	6	404	254,500	1240	20.00	13.25	16.00	5.00	1.75	1.63	4.38	526.70

* Space required to tighten bushing with shortened hex key in bushings 1615 through 5050. 6050 uses standard wrench. Also space required to loosen screws to permit removal of hub by a puller

† Space required to loosen bushing using screws as jack screws-no puller required. Use shortened hex key for bushing 1615 through 5050. 6050 uses standard wrench

** Ratings are based on uniform, non-reversing type loads. For more severe conditions, consult DODGE



TAPER-LOCK Rigid Part Numbers

Coupling Size	Bushing Size	Male Flange Assy (1) Req'd	Female Flange (1) Req'd
R16	1615	003001	003002
R25	2517	003003	003004
R30	3030	003005	003006
R35	3535	003007	003008
R40	4040	003009	003010
R45	4545	003011	003012
R50	5050	003013	003014
R60	6050	003015	003016

Complete coupling consists of:

(1) Male Flange Assembly

(1) Female Flange

NOTE: TAPER-LOCK bushings ordered separately. Refer to bushing section PT6-16

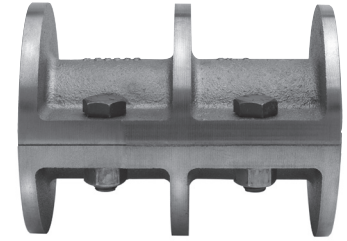
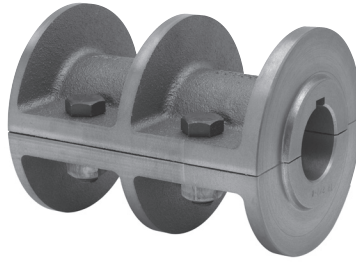
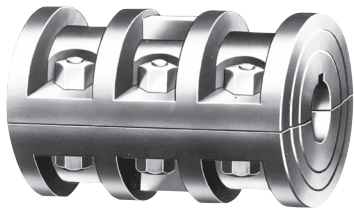
NOTE: Instruction manuals for TAPER-LOCK Rigid Couplings and TAPER-LOCK Bushings available on www.dodge-pt.com

FEATURES/BENEFITS PAGE PT1-66	SPECIFICATION/HOW TO ORDER PAGE PT1-72	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



SELECTION/DIMENSIONS

Ribbed Rigid



For Nominal Shaft of:	Style Cplg. Figure no.	Part Number	Max RPM	Torque (In-Lb)	Weight	Coupling Dia x Length	Keyway Size	Key Furnished	Bolts	
									No.	Dia.
1	1	009001	5360	1200	6.0					
1-3/16	1	009002	5360	2000	5.5	3-5/8 x 5-1/4	1/4 x 1/8	1/4 x 1/4 x 5-1/4	4	3/8
1-1/4	1	009003	5360	2300	5.2					
1-3/8	1	009004	4130	3100	11.0	4-5/8 x 6-3/16	5/16 x 5/32	5/16 x 5/16 x 6-3/16	4	1/2
1-7/16	1	009005	4130	3500	10.5	4-5/8 x 6-3/16	3/8 x 3/16	3/8 x 3/8 x 6-3/16	4	1/2
1-1/2	1	009006	4130	4000	10.2					
1-11/16	1	009007	3965	5700	13.7	4-13/16 x 7-1/16	3/8 x 3/16	3/8 x 3/8 x 7-1/16	4	1/2
1-3/4	1	009008	3965	6300	13.3					
1-7/8	★	009009	3635	7800	19.4				4	1/2
1-15/16		009010	3635	8600	20.6	5-1/4 x 7-15/16	1/2 x 1/4	1/2 x 1/2 x 7-15/16		
2		009011	3635	9400	20.0					
2-3/16	★	009013	3180	12400	29.1	6 x 8-5/8	1/2 x 1/4	1/2 x 1/2 x 8-5/8	4	5/8
2-1/4		009012	3180	13400	29.0					
2-7/16	2	009015	2965	17100	37.3	6-7/16 x 9-11/16	5/8 x 5/16	5/8 x 5/8 x 9-11/16	6	5/8
2-1/2	2	009016	2965	18400	36.6					
2-11/16	2	009017	2830	22900	43.4	6-3/4 x 10-9/16	5/8 x 5/16	5/8 x 5/8 x 10-9/16	6	5/8
2-3/4	2	009014	2830	24500	43.0					
2-15/16	2	009019	2545	29900	58.7	7-1/2 x 11-3/8	3/4 x 3/8	3/4 x 3/4 x 11-3/8	6	3/4
3	2	009020 *	2545	31800	56.2					
3-3/16	2	009022	2315	38200	80.5	8-1/4 x 12-1/4	3/4 x 3/8	3/4 x 3/4 x 12-1/4	6	7/8
3-1/4	2	009021 *	2315	40500	80.0	8-1/4 x 12-1/4	3/4 x 3/8	3/4 x 3/4 x 12-1/4	6	7/8
3-7/16	2	009023	2165	47900	94.6	8-13/16 x 13-3/16	7/8 x 7/16	7/8 x 7/8 x 13-3/16	6	7/8
3-1/2	2	009024 *	2165	50500	94.0	8-13/16 x 13-3/16	7/8 x 7/16	7/8 x 7/8 x 13-3/16	6	7/8
3-15/16	2	009025	1900	72000	146.6	10-1/16 x 15-1/4	1 x 1/2	1 x 1 x 15-1/4	6	1
4	2	009027 *	1900	75400	146.0	10-1/16 x 15-1/4	1 x 1/2	1 x 1 x 15-1/4	6	1
4-7/16	3	009026	1775	103000	215.0	10-3/4 x 18-3/16	1 x 1/2	1 x 1 x 18-3/16	6	1-1/8
4-1/2	3	009031 *	1775	107400	214.4	10-3/4 x 18-3/16	1 x 1/2	1 x 1 x 18-3/16	6	1-1/8
4-15/16	3	009028	1625	142000	276.3	11-3/4 x 19-5/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 19-5/8	6	1-1/8
5	3	009043 *	1625	147500	275.6	11-3/4 x 19-5/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 19-5/8	6	1-1/8
5-7/16	4	009029	1390	190000	426.2	13-3/4 x 20-3/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 20-3/8	8	1-1/8
5-1/2	4	009050 *	1390	196000	425.4	13-3/4 x 20-3/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 20-3/8	8	1-1/8
5-15/16	3	009042 *	1365	247000	426.0	14 x 20-3/4	1-1/2 x 3/4	1-1/2 x 1-1/2 x 20-3/4	6	1-1/4
6	3	009054 *	1365	255000	425.3	14 x 20-3/4	1-1/2 x 3/4	1-1/2 x 1-1/2 x 20-3/4	6	1-1/4
7	4	009044 *	1230	404000	560.8	15-1/2 x 21-15/16	1-3/4 x 3/4	1-3/4 x 1-1/2 x	8	1-1/4

★ Same as Fig. 1 except with a rib parallel to the bore between each pair of flanges

* Standard non-stock size. Consult DODGE for delivery

Note: Coupled shafts must be the same diameters

NOTE: Instruction manuals for Ribbed Rigid Couplings available on www.dodge-pt.com

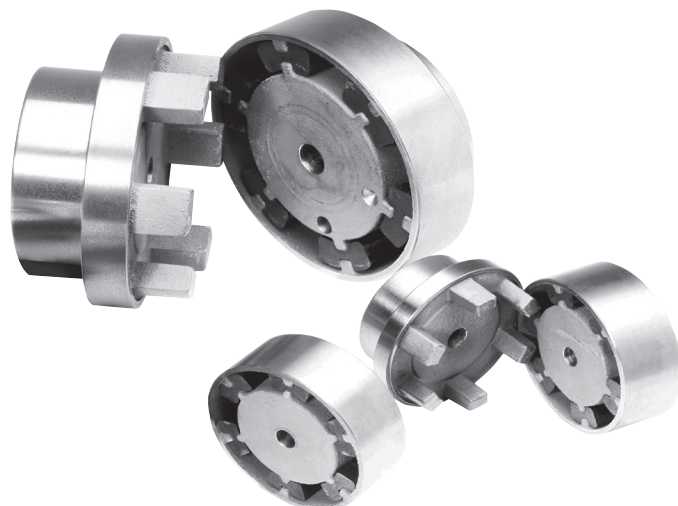
FEATURES/BENEFITS PAGE PT1-66	SPECIFICATION/HOW TO ORDER PAGE PT1-72	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------



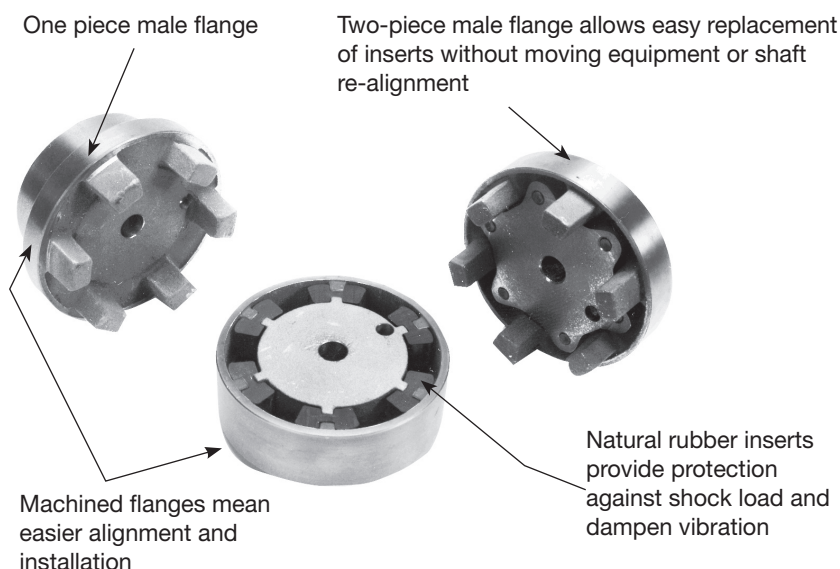
FEATURES/BENEFITS

POWERPLUS

A POWER-DENSE, HIGH TORQUE ELASTOMERIC COUPLING – DODGE POWERPLUS is a cost-saving alternative to metallic couplings. POWERPLUS has a simple, non-lubricated design which makes it versatile and easy to maintain.



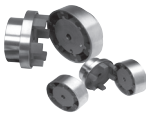
- **Power Density at High Speeds**
 - Up to 1945 HP at 1800 RPM
 - Up to 1210 kW at 1500 RPM
- **Positive Drive**
 - Will maintain tooth engagement even if rubber insert degradation occurs
- **Shock Load and Vibration Dampening**
 - Rubber inserts help absorb shock and protect both driver and driven equipment
- **Easy Installation**
 - Simple male/female flange design fits together for intuitive installation
- **Low Maintenance**
 - No lubrication required means less maintenance
- **ATEX Approved**
 - Documentation available
- **Minimal Length thru Bore**
 - Requires less shaft space than other coupling designs
- **Lightweight Design**
 - Lower weight complete coupling compared to other coupling products



NOTE: Instruction manuals for POWERPLUS Couplings available on www.dodge-pt.com

SPECIFICATION/HOW TO ORDER/NOMENCLATURE

POWERPLUS



SPECIFICATION

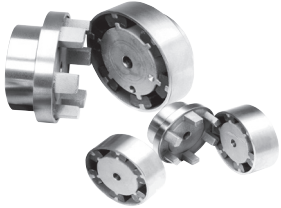
DODGE POWERPLUS couplings are hybrid jaw style coupling which utilize elastomeric inserts held in compression between interlocking teeth of male and female flanges. The flanges are offered as a finished bore design and are machined all over, in order to offer a coupling which is inherently well balanced design and suitable for operation at high speeds.

With interlocking metallic teeth, the flanges provide positive drive and negate the potential for catastrophic failure. Additionally, the rubber inserts are protected from exposure to contaminants as a result of the flange engagement design. The inserts are suitable for operation from -30° C to +80° C (-22° F to +176° F) and are readily replaced by disengaging the male flange from the female flange.

HOW TO ORDER

- Complete coupling consist of:
- (1) Male flange (1 piece or 2 piece design)
 - (1) Female flange (Includes 1 set of inserts)

NOMENCLATURE



DPP

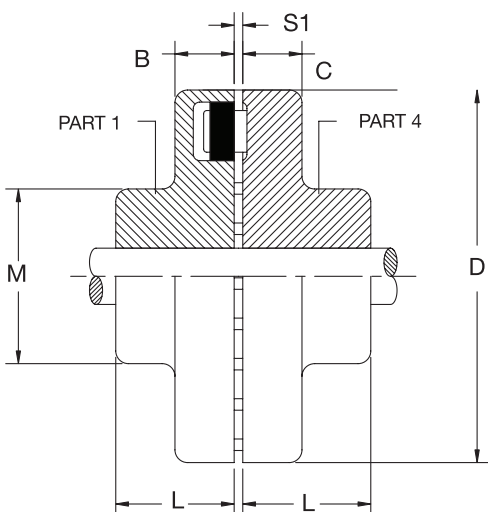
58

DODGE POWERPLUS _____

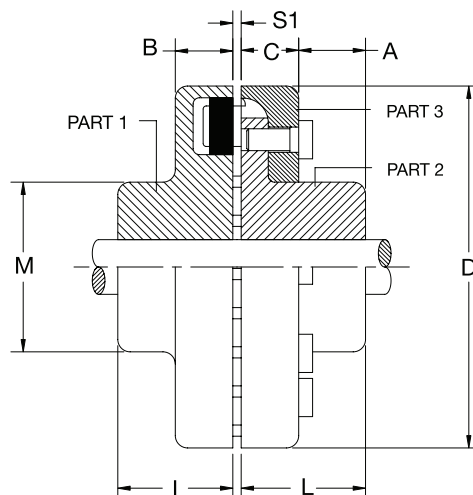
Size _____

SELECTION

POWERPLUS Coupling Chart



TYPE A (One Piece Male Flange)

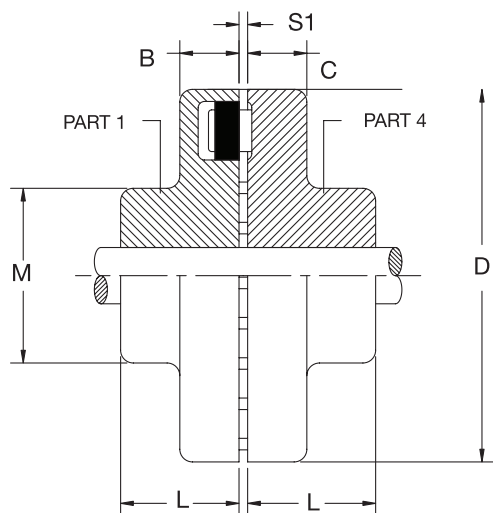


TYPE B (Two Piece Male Flange)

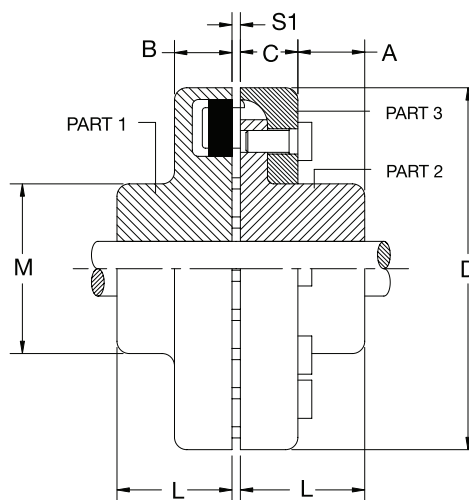
D Coupling Size	Type	Torque		Max RPM	Max Bore				M				C	
					mm		in		mm		in			
		mm	Nm		in-lb	Part 1	Part 2 & 4	Part 1	Part 2 & 4	Part 1	Part 2 & 4	Part 1	Part 2 & 4	mm	in
58	A	18.98	168	5000	19.05	23.88	0.75	0.94	—	39.88	—	1.57	7.87	0.31
68	A	34.01	301	5000	23.88	27.94	0.94	1.10	—	45.97	—	1.81	7.87	0.31
80	A	60.00	531	5000	29.97	38.10	1.18	1.50	—	68.07	—	2.68	9.91	0.39
95	A	100.01	885	5000	41.91	41.91	1.65	1.65	75.95	75.95	2.99	2.99	11.94	0.47
110	A	160.01	1,416	5000	48.01	48.01	1.89	1.89	86.11	86.11	3.39	3.39	13.97	0.55
125	A	240.01	2,124	5000	55.12	55.12	2.17	2.17	100.08	100.08	3.94	3.94	18.03	0.71
140	A	360.02	3,186	4900	59.94	59.94	2.36	2.36	100.08	100.08	3.94	3.94	20.07	0.79
160	A	560.14	4,957	4250	65.02	65.02	2.56	2.56	107.95	107.95	4.25	4.25	20.07	0.79
180	A	880.16	7,789	3800	74.93	74.93	2.95	2.95	124.97	124.97	4.92	4.92	20.07	0.79
200	A	1340.18	11,860	3400	85.09	85.09	3.35	3.35	139.95	139.95	5.51	5.51	23.88	0.94
225	A	2000.33	17,702	3000	89.92	89.92	3.54	3.54	150.11	150.11	5.91	5.91	18.03	0.71
250	A	2800.48	24,783	2750	100.08	100.08	3.94	3.94	165.10	165.10	6.50	6.50	18.03	0.71
280	A	3900.65	34,519	2450	109.98	109.98	4.33	4.33	180.09	180.09	7.09	7.09	20.07	0.79
110	B	160.01	1,416	5000	48.01	38.10	1.89	1.50	86.11	61.98	3.39	2.44	20.07	0.79
125	B	240.01	2,124	5000	55.12	44.96	2.17	1.77	89.92	74.93	3.54	2.95	23.11	0.91
140	B	360.02	3,186	4900	59.94	50.04	2.36	1.97	100.08	82.04	3.94	3.23	27.94	1.10
160	B	560.14	4,957	4250	65.02	57.91	2.56	2.28	107.95	95.00	4.25	3.74	27.94	1.10
180	B	880.16	7,789	3800	74.93	65.02	2.95	2.56	124.97	107.95	4.92	4.25	29.97	1.18
200	B	1340.18	11,860	3400	85.09	74.93	3.35	2.95	139.95	121.92	5.51	4.80	32.00	1.26
225	B	2000.33	17,702	3000	89.92	85.09	3.54	3.35	150.11	137.92	5.91	5.43	38.10	1.50
250	B	2800.48	24,783	2750	100.08	95.00	3.94	3.74	165.10	154.94	6.50	6.10	41.91	1.65
280	B	3900.65	34,519	2450	109.98	104.90	4.33	4.13	180.09	171.96	7.09	6.77	41.91	1.65
315	B	5500.95	48,681	2150	100.08	100.08	3.94	3.94	165.10	165.10	6.50	6.50	46.99	1.85
350	B	7701.29	68,153	1950	109.98	109.98	4.33	4.33	180.09	180.09	7.09	7.09	51.05	2.01
400	B	10301.65	91,165	1700	119.89	119.89	4.72	4.72	199.90	199.90	7.87	7.87	55.88	2.20
440	B	13502.26	119,489	1550	130.05	130.05	5.12	5.12	214.88	214.88	8.46	8.46	64.01	2.52
480	B	16602.75	146,927	1400	145.03	145.03	5.71	5.71	240.03	240.03	9.45	9.45	65.02	2.56

SELECTION

POWERPLUS Coupling Chart



TYPE A (One Piece Male Flange)



TYPE B (Two Piece Male Flange)

Coupling Size	Type	L		B		S1				A		# of Inserts	Total Weight	
						mm		in						
		mm		mm	in	mm	in	Min	Max	Min	Max		mm	in	kg	lb
58	A	20.07	0.79	20.07	0.79	2.032	4.06	0.08	0.16	—	—	4	0.45	0.99
68	A	20.07	0.79	20.07	0.79	2.032	4.06	0.08	0.16	—	—	5	0.65	1.43
80	A	29.97	1.18	29.97	1.18	2.032	4.06	0.08	0.16	—	—	6	1.30	2.87
95	A	35.05	1.38	29.97	1.18	2.032	4.06	0.08	0.16	—	—	6	2.00	4.41
110	A	39.88	1.57	34.04	1.34	2.032	4.06	0.08	0.16	—	—	6	3.10	6.83
125	A	50.04	1.97	36.07	1.42	2.032	4.06	0.08	0.16	—	—	6	5.00	11.02
140	A	55.12	2.17	34.04	1.34	2.032	4.06	0.08	0.16	—	—	6	7.00	15.43
160	A	59.94	2.36	38.10	1.5	2.032	6.10	0.08	0.24	—	—	7	9.50	20.94
180	A	70.10	2.76	41.91	1.65	2.032	6.10	0.08	0.24	—	—	8	14.00	30.86
200	A	80.01	3.15	46.99	1.85	2.032	6.10	0.08	0.24	—	—	8	20.00	44.09
225	A	89.92	3.54	52.07	2.05	2.032	6.10	0.08	0.24	—	—	8	25.00	55.12
250	A	100.08	3.94	59.94	2.36	3.048	8.13	0.12	0.32	—	—	8	35.00	77.16
280	A	109.98	4.33	65.02	2.56	3.048	8.13	0.12	0.32	—	—	8	46.50	102.51
110	B	39.88	1.57	26.92	1.06	2.032	4.06	0.08	0.16	33.02	1.30	6	3.00	6.61
125	B	50.04	1.97	30.99	1.22	2.032	4.06	0.08	0.16	38.10	1.50	6	5.00	11.02
140	B	55.12	2.17	34.04	1.34	2.032	4.06	0.08	0.16	42.93	1.69	6	6.50	14.33
160	B	59.94	2.36	39.12	1.54	2.032	6.10	0.08	0.24	46.99	1.85	7	9.80	21.61
180	B	70.10	2.76	41.91	1.65	2.032	6.10	0.08	0.24	50.04	1.97	8	13.50	29.76
200	B	80.01	3.15	46.99	1.85	2.032	6.10	0.08	0.24	53.09	2.09	8	20.00	44.09
225	B	89.92	3.54	52.07	2.05	2.032	6.10	0.08	0.24	60.96	2.40	8	26.50	58.42
250	B	100.08	3.94	59.94	2.36	3.048	8.13	0.12	0.32	69.09	2.72	8	37.50	82.67
280	B	109.98	4.33	65.02	2.56	3.048	8.13	0.12	0.32	72.90	2.87	8	49.00	108.03
315	B	124.97	4.92	70.10	2.76	3.048	8.13	0.12	0.32	77.98	3.07	9	63.00	138.89
350	B	139.95	5.51	73.91	2.91	3.048	8.13	0.12	0.32	83.06	3.27	9	86.00	189.6
400	B	160.02	6.3	77.98	3.07	3.048	8.13	0.12	0.32	87.88	3.46	10	122.00	268.96
440	B	180.09	7.09	86.11	3.39	5.08	9.91	0.20	0.39	99.06	3.90	10	159.00	350.53
480	B	189.99	7.48	89.92	3.54	5.08	9.91	0.20	0.39	103.89	4.09	10	200.00	440.92

FEATURES/BENEFITS PAGE PT1-76	SPECIFICATION/HOW TO ORDER PAGE PT1-77	MODIFICATION/ACCESSORIES PAGE PT1-81	ENGINEERING/TECHNICAL PAGE PT1-83
----------------------------------	---	---	--------------------------------------

SELECTION

POWERPLUS Part Numbers



Part Number	Description
DPP 58	
708383	POWERPLUS 58 Female Flange
708385	POWERPLUS 58 Male Flange (1 piece)
719349	POWERPLUS 58 Insert Pack
DPP 68	
708389	POWERPLUS 68 Female Flange
708391	POWERPLUS 68 Male Flange (1 piece)
719350	POWERPLUS 68 Insert Pack
DPP 80	
708399	POWERPLUS 80 Female Flange
708403	POWERPLUS 80 Male Flange (1 piece)
719351	POWERPLUS 80 Insert Pack
DPP 95	
708420	POWERPLUS 95 Female Flange
708425	POWERPLUS 95 Male Flange (1 piece)
719352	POWERPLUS 95 Insert Pack
DPP 110	
708079	POWERPLUS 110 Female Flange
708086	POWERPLUS 110 Male Flange (1 piece)
708083	POWERPLUS 110 Male Flange (2 piece)
719353	POWERPLUS 110 Insert Pack
DPP 125	
708110	POWERPLUS 125 Female Flange
708118	POWERPLUS 125 Male Flange (1 piece)
708084	POWERPLUS 125 Male Flange (2 piece)
719354	POWERPLUS 125 Insert Pack
DPP 140	
708151	POWERPLUS 140 Female Flange
708158	POWERPLUS 140 Male Flange (1 piece)
708155	POWERPLUS 140 Male Flange (2 piece)
719355	POWERPLUS 140 Insert Pack
DPP 160	
708188	POWERPLUS 160 Female Flange
708195	POWERPLUS 160 Male Flange (1 piece)
708192	POWERPLUS 160 Male Flange (2 piece)
719356	POWER PLUS 160 Insert Pack
DPP 180	
708223	POWERPLUS 180 Female Flange
708230	POWERPLUS 180 Male Flange (1 Piece)
708227	POWERPLUS 180 Male Flange (2 Piece)
719357	POWERPLUS 180 Insert Pack
DPP 200	
708252	POWERPLUS 200 Female Flange
708260	POWERPLUS 200 Male Flange (1 piece)
708256	POWERPLUS 200 Male Flange (2 piece)
719358	POWERPLUS 200 Insert Pack

Part Number	Description
DPP 225	
708280	POWERPLUS 225 Female Flange
708289	POWERPLUS 225 Male Flange (1 piece)
708284	POWERPLUS 225 Male Flange (2 piece)
719359	POWERPLUS 225 Insert Pack
DPP 250	
708300	POWERPLUS 250 Female Flange
708308	POWERPLUS 250 Male Flange (1 piece)
708304	POWERPLUS 250 Male Flange (2 piece)
719360	POWERPLUS 250 Insert Pack
DPP 280	
708322	POWERPLUS 280 Female Flange
708331	POWERPLUS 280 Male Flange (1 piece)
708326	POWERPLUS 280 Male Flange (2 piece)
719361	POWERPLUS 280 Insert Pack
DPP 315	
708337	POWERPLUS 315 Female Flange
708341	POWERPLUS 315 Male Flange (2 piece)
719362	POWERPLUS 350 Insert Pack
DPP 350	
708347	POWERPLUS 350 Female Flange
708351	POWERPLUS 350 Male Flange(2 piece)
719363	POWERPLUS 350 Insert Pack
DPP 400	
708357	POWERPLUS 400 Female Flange
708361	POWERPLUS 400 Male Flange (2 piece)
719364	POWERPLUS 400 Insert Pack
DPP 440	
708367	POWERPLUS 440 Female Flange
708370	POWERPLUS 440 Male Flange (2 piece)
719365	POWERPLUS 440 Insert Pack
DPP 480	
708375	POWERPLUS 480 Female Flange
708378	POWERPLUS 480 Male Flange (2 piece)
719366	POWERPLUS 480 Insert Pack

Complete coupling consist of:

- (1) Male flange (1 piece or 2 piece design)
- (1) Female flange (Includes 1 set of inserts)

MODIFICATIONS/ ACCESSORIES



PARA-FLEX Elements - Part Numbers

Element Size	Standard	Neoprene (1)	Cordless (2)	Weight (Lbs)
	Part No.	Part No.	Part No.	
PX40	011529	012455	012456	0.3
PX50	011105	011296	011285	0.7
PX60	011106	011297	011286	1.2
PX70	011107	011298	011287	1.6
PX80	011108	011299	011288	2.2
PX90	011109	011300	011289	2.6
PX100	011110	011301	011290	2.5
PX110	011111	011302	---	3.0
PX120	011112	011303	011292	4.8
PX140	011114	011304	---	5.6
PX160	011117	011305	---	9.1
PX200	011120	011306	---	20.8
PX240	011124	011312	---	27.0
PX280	011457	011313	---	45.0
PX320	011463	011315	---	80.0

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

High Speed/Flywheel Elements			
Element Size	Standard Part No.	Neoprene Part No. (1)	Weight (lbs)
PH87	011227	011266	1.20
PH96	011228	011267	1.80
PH116	011230	011268	2.00
PH131	011231	011269	3.50
PH172	011234	011270	7.50
PH192	011236	011271	9.30
PH213	011239	011272	13.90
PH252	011242	011273	27.00

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)

Elastomer Compatibility

Ratings: 1 - Minor Effect 2 - Moderate Effect 3 - Severe Effect nd - No Data

Substance	Nat. Rubber	Neo-prene	EPDM	Hytrel	Substance	Nat. Rubber	Neo-prene	EPDM	Hytrel
Acetic Acids	2	1	1	1	Hydrobromic Acid (40%)	1	2	1	nd
Acetic Anhydride	2	1	2	nd	Kerosene	3	2	3	nd
Alcohols, Monohydric	2	1	2	nd	Lacquers	3	3	3	2
Ammonia Anhydrous	3	1	1	nd	Lead Sulfamate	2	1	1	nd
ASTM A Oils	3	1	1	1	Mineral Oil	3	2	2	1
Animal Fats	3	2	2	nd	Naphtha	3	2	3	1
Benzene	3	3	3	2	Nickel Chloride	1	2	1	nd
Carbonic Acid	3	2	2	nd	Nitric Acid (10%)	1	2	2	2
Calcium Bisulfite	2	1	3	nd	Ozone	3	2	1	nd
Chloroacetone	2	2	1	2	Petroleum (<250°F)	3	2	3	nd
Chloroacetic Acid	2	1	1	nd	Potassium Dichromate	2	1	1	nd
Copper Sulphate	2	1	1	1	Salt Water	1	2	1	1
Corn Oil	2	2	2	nd	Silicone Oils	1	1	1	1
Diesel Oil	3	2	3	1	Sulfuric Acid (Conc.)	3	3	3	3
Fuel Oil	3	2	3	1	Vinegar	2	1	1	nd
Gasoline	2	2	3	1	Zinc Sulfate	2	1	1	nd

MODIFICATIONS/ ACCESSORIES



GRID-LIGN Replacement Grids, Covers, and Seals - Part Numbers

Coupling Size	Grid	T10 Cover Assembly	T10 Seal Kit	T20 Cover Assembly	T20 Seal Kit
1020T	006275	006250	006805	006260	006815
1030T	006276	006251	006806	006261	006816
1040T	006277	006252	006807	006262	006817
1050T	006278	006253	006808	006263	006818
1060T	006279	006254	006809	006264	006819
1070T	006280	006255	006810	006265	006820
1080T	006281	006256	006811	006266	006821
1090T	006282	006257	006812	006267	006822
1100T	006283	006258	006813	006268	006823
1110T	006284	006259	006814	006269	006824
1120T	007462	007471	007520	426672	007529
1130T	007463	007472	007521	426673	007530
1140T	007464	007473	007522	426674	007531
1150T	007465	007474	007523	007011	007532
1160T	007466	007475	007524	007012	007533
1170T	007467	007476	007525	007013	007534
1180T	007468	007477	007526	007014	007535
1190T	007469	007478	007527	007015	007536
1200T	007470	007479	007528	007016	007537

Chain Coupling: Chain Assemblies And Covers - Part Numbers

Coupling Size	Chain Assembly	Chain Assembly Weight (Lbs.)	Cover Assembly (1)	Cover Assembly Weight (Lbs.)
4012	100480	.4	099026	1.0
4016	100490	.6	099026	1.0
5012	100489	.9	N/A	N/A
5016	100481	1.4	099027	1.3
5018	100491	1.4	099027	1.3
6018	100482	2.7	099028	2.6
6020	100492	2.7	099028	2.6
8018	100483	6.1	099029	5.1
8020	100493	6.1	099029	5.1
10020	100495	11.0	099024	12.2
12018	100497	20.0	N/A	N/A
12020	100496	20.0	099025	19.5

(1) Cover assemblies consist of cover halves, screws, seals, and cover gaskets.

PARA-FLEX Nickel Plated Screws

Flange Assembly Size	Screw Size (2)	Part Number	Number per Flange (3)
PX70, PX80	5/16-18X1-1/2	411767	5, 6
PX90, PX100	3/8-16X1-3/4	411768	6
PX120	1/2-13X2	411770	6
PX140	1/2-13X2-1/4	411771	8

(2) Nickel plated Grade 8 hex head cap screws. Screws not available from stock for PX140 with iron flanges. For sizes not listed, contact DODGE.

(3) 5 required for PX70; 6 for PX80.

NOTE: Product installation and maintenance instructions can be found at www.dodge-pt.com



Selection Methods:

D-FLEX, PARA-FLEX, GRID-LIGN, GEAR, POWER-PLUS, POLY-DISC, & RIGID COUPLINGS

HP/100 METHOD

Step 1: Obtain required service factor from Service Factor Tables on pages PT1-83 and PT1-84.

Step 2: Determine the application HP per 100 RPM:

$$\text{HP} / 100 \text{ RPM} = \frac{\text{Motor HP} \times 100 \times \text{Service Factor}}{\text{Coupling RPM}}$$

Step 3: From Rating Tables, find a rating equal to or greater than the HP/100 RPM. Note coupling size from left hand column.

Step 4: Check maximum RPM capability.

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

Step 6: If the GT Adapter System is utilized then ensure the keyless torsional holding power exceeds the application demands. From the application tables listed on PT1-10 and PT1-11, ensure the **Maximum Adapter Torque** for the shaft size exceeds the application torque that was calculated in Step 2.

TORQUE METHOD:

Step 1: Obtain required service factor from Service Factor Tables on pages PT1-83 and PT1-84

Step 2: Determine torque required for application.

$$\text{Torque (In - lbs)} = \frac{63025 \times \text{HP} \times \text{SF}}{\text{Coupling RPM}}$$

Step 3: From Rating Tables, find a rating equal to or greater than the torque. Note coupling size from left hand column.

Step 4: Check maximum RPM capability

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

CHAIN COUPLINGS

DESIGN HP METHOD:

Step1: Obtain required service factor from Service Factory Tables on pages PT1-84 and PT1-85

Step 2: Determine application HP:
HP Design = HP x SF

Step 3: From rating tables, select appropriate coupling RPM column and find a rating equal to or greater than HP design. Note coupling size from left hand column.

Step 4: Check maximum RPM capability

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded.

NOTE: If spring set motor brake is used, and brake HP is greater than prime mover, use brake HP in place of motor HP.

NOTE: If system peak torque is known and is non-reversing, start at Step 3. If system peak torque is known and reversing, multiply by 2.0 and start at Step 3

NOTE: Selection program "Couple" available on www.ptwizard.com



SERVICE FACTOR

Table 1

Application (Read Footnotes)	Factor Δ				
	PARA -FLEX/ Poly- Disc	Grid Chain Rigid	D-FLEX	Gear	Power- Plus
AGITATORS					
Paddle or Propeller (Vert. or Horiz.)	1.00	1.00	1.25	1.00	1.25
Screw	1.00	1.00	1.25	1.00	1.25
BLOWERS					
Centrifugal	1.00	1.00	1.25	1.00	1.00
Lobe	1.50	1.25	1.50	1.25	1.50
Vane	1.00	1.25	1.25	1.25	1.25
BREWING & DISTILLING					
Bottling Machinery, Brew Kettle	1.00	1.00	1.25	1.00	1.00
Cooker (Continuous Duty)	1.00	1.00	1.25	1.00	1.25
Mash Tub	1.00	1.00	1.25	1.00	1.25
Scale Hopper-Frequent Starting Peaks	1.50	1.75	◆	1.75	1.75
CAN FILLING MACHINE	1.00	1.00	1.25	1.00	1.00
CAR DUMPER	1.50	2.50	2.00	2.50	2.00
CAR PULLER	1.50	1.50	1.50	1.50	1.50
CLARIFIER	1.00	1.00	1.25	1.00	1.25
CLASSIFIER	1.00	1.00	1.25	1.00	1.25
CLAY-WORKING MACHINES					
Brick Press, Briquette Mach., Clay Working Mach., Pug Mill	1.50	1.50	1.50	1.75	1.75
COMPRESSORS**					
Centrifugal, Lobe, Screw	1.00	1.00	1.25	1.00	1.00
Lobe, Rotary	2.00	1.25	2.00	1.25	1.50
Reciprocating					
1 cylinder - single acting	3.50	3.00	◆	3.00	3.50
1 cylinder - double acting	3.00	3.00	◆	3.00	3.00
2 cylinder - single acting	3.00	3.00	◆	3.00	3.00
2 cylinder - double acting	2.50	3.00	◆	3.00	2.50
3 cl. or more - single acting	2.50	3.00	◆	3.00	2.50
3 cl. or more - double acting	2.00	2.00	◆	2.00	2.00
CONVEYORS					
Apron, Assembly, Belt, Chain, Flight, Oven	1.00	1.00	1.25	1.00	1.25
Reciprocating	2.50	3.00	©	3.00	2.50
Screw	1.00	1.00	1.25	1.00	1.25
CRANES AND HOISTS					
Main Hoist-Medium Duty	1.50	1.75	1.50	1.75	1.75
Main Hoist-Heavy Duty	2.00	2.00	2.00	2.00	2.50
Skip Hoist, Travel Motion, Trolley	1.50	1.75	1.00	1.75	2.00
Motion, Slope	1.50	1.75	1.00	1.75	1.75
CRUSHERS					
Cane	2.00	2.00	2.00	2.00	2.00
Gyratory	2.50	2.50	◆	2.50	2.50

Application (Read Footnotes)	Factor Δ				
	PARA -FLEX/ Poly- Disc	Grid Chain Rigid	D-FLEX	Gear	Power- Plus
DREDGES					
Cable Reel, Screen Drive, Stacker	1.50	1.75	1.50	1.75	1.75
Conveyor	1.50	1.75	1.50	1.25	1.75
Cutter Head Drive, Jig Drive	2.50	2.00	2.00	2.00	2.00
Pump, Utility Winch	1.50	1.75	1.50	1.50	1.75
DYNAMOMETER	1.00	1.00	1.25	1.00	1.00
ELEVATORS					
Bucket, Freight	2.00	1.25	2.00	1.25	2.00
EXCITER	1.00	1.00	1.25	1.00	1.00
FANS					
Centrifugal	1.00	1.00	1.25	1.00	1.00
Cooling Tower	2.00	2.00	2.00	2.00	2.00
Heavy Duty (Forced Draft)	1.50	1.50	2.00	1.50	1.50
Induced Draft	1.50	1.50	2.00	1.50	2.00
Light	1.00	1.00	1.25	1.00	1.00
Propeller Indoor	1.50	1.50	2.00	1.50	1.50
FOOD INDUSTRY					
Beet Slicer	1.50	1.75	1.50	1.75	1.75
Cereal Cooker	1.00	1.25	1.25	1.25	1.25
Dough Mixer, Meat Grinder	1.50	1.75	1.50	1.75	1.75
GENERATORS					
Even Load	1.00	1.00	1.25	1.00	1.00
Hoist or Railway Service	1.50	1.50	1.50	1.50	1.50
Welder Load	2.00	2.00	2.00	2.00	2.00
GRIZZLY	2.00	2.00	2.00	2.00	2.00
KILN	2.00	2.00	2.00	2.00	2.00
LAUNDRY MACHINES					
Tumbler Washer	2.00	2.00	2.00	2.00	2.00
LINE SHAFTS					
Driving Processing Machinery	1.00	1.50	1.25	1.50	1.50
Light	1.00	1.50	1.25	1.50	1.50
LUMBER INDUSTRY					
Band Resaw	1.50	1.50	1.50	1.50	1.50
Circular Resaw	1.50	1.50	1.50	1.75	1.50
Edger Head Rig, Hog, Log Haul	2.00	2.00	2.00	2.00	2.00
Planer	1.50	1.75	1.50	1.75	1.75
Rolls Non-Reversing	1.50	1.25	1.50	1.25	1.25
Rolls Reversing	2.00	2.00	2.00	2.00	2.00
Sawdust Conveyor	1.00	1.25	1.25	1.25	1.25
Slab Conveyor	1.50	1.75	1.50	1.75	1.50
Sorting Table	1.50	1.75	1.50	1.50	1.50
MACHINE TOOLS					
Auxiliary	1.00	1.00	1.25	1.00	1.00

Note: Selection program "Couple" available on www.ptwizard.com



SERVICE FACTOR

Table 1 (continued)

Application (Read Footnotes)	Factor Δ				
	PARA -FLEX/ Poly- Disc	Grid Chain Rigid	D-FLEX	Gear	Power- Plus
MACHINE TOOLS (continued)					
Main Drive	1.50	1.75	1.50	1.50	1.75
Notching Press, Planer (Reversing), Plate Planer, Punch Press	1.50	1.75	1.50	1.75	1.75
Traverse	1.00	1.00	1.25	1.00	1.00
METAL FORMING MACHINES					
Draw Bench, Carriage, Main Drive, Extruder,	2.00	2.00	1.50	2.00	2.00
Wire Drawing, Flattening Machine	2.00	2.00	1.50	1.75	2.00
MILLS Rotary Type					
Ball or Pebble direct or	2.50	2.00	2.00	2.00	2.25
on LS Shaft Gear Reducer	2.50	2.00	2.00	2.00	2.25
on HS Shaft Gear Reducer	2.00	1.50	1.50	1.50	1.75
Dryer and Cooler	1.50	1.75	1.50	1.75	2.00
Rod or Tube direct or	2.50	2.00	2.00	2.00	2.25
on LS Shaft Gear Reducer	2.50	2.00	2.00	2.00	2.25
on HS Shaft Gear Reducer	2.00	1.50	1.50	1.50	1.75
Tumbling Barrel	1.50	1.75	2.00	1.75	1.75
MIXERS					
Concrete (Continuous or intermittent)	1.50	1.75	1.50	1.75	1.75
Muller-Simpson type	1.50	1.75	1.50	1.50	1.75
OIL INDUSTRY					
Chiller	1.00	1.25	1.25	1.25	1.25
Oil Well Pumping (Not over 150% peak torque	2.00	2.00	2.00	2.00	2.00
Paraffin Filter Press	1.50	1.50	1.50	1.50	1.50
PAPER MILLS					
Agitator	1.00	2.00	1.25	2.00	2.00
Barking Drum	2.50	2.50	2.00	2.50	2.25
Beater and Pulper	1.50	1.75	1.50	1.75	1.75
Bleacher	1.00	1.00	1.25	1.00	1.00
Calender	2.00	1.75	2.00	1.75	2.00
Chipper	3.00	2.50	2.00	2.50	2.50
Couch Cylinder Dryer	1.50	1.75	1.50	1.75	1.75
Felt Stretcher	1.00	1.25	1.25	1.25	1.25
Fourdrinier	1.50	1.75	1.50	1.75	1.75
Jordan	2.00	2.00	2.00	2.00	2.00
Press	2.00	1.75	1.50	1.75	1.75
Pulp Grinder	2.00	1.75	2.00	1.75	1.75
Stock Chest	1.50	1.50	1.50	1.50	1.50
Stock Pump					
Reciprocating	2.00	2.00	◆	2.00	2.00

Application (Read Footnotes)	Factor Δ				
	PARA -FLEX/ Poly- Disc	Grid Chain Rigid	D-FLEX	Gear	Power- Plus
PAPER MILLS (continued)					
Suction Roll	2.00	1.75	1.50	1.75	1.75
Winder	1.50	1.50	1.50	1.50	1.50
PARAFFIN FILTER PRESS	1.50	1.50	1.50	1.50	1.50
PRINTING PRESS	1.50	1.50	1.50	1.50	1.50
PROPELLER Marine	1.50	1.50	◆	1.50	1.50
PULLERS					
Barge Hall	2.50	2.00	2.00	1.50	2.00
PULVERIZERS					
Hammermill-Light Duty	1.50	1.50	1.50	1.50	1.50
Hammermill-Heavy Duty	2.00	1.75	2.00	1.75	1.75
Hog	2.00	1.75	2.00	1.75	1.75
Roller	1.50	1.50	1.50	1.50	1.50
PUMPS					
For Stock Pumps See Paper Mills					
Centrifugal	1.00	1.00	1.25	1.00	1.00
Descaling Gear Type	1.50	1.25	1.50	1.25	1.50
Oil Well Pumping (Not over 150% peak torque	2.00	2.00	2.00	2.00	2.00
Rotary -other than gear	1.50	1.25	1.50	1.25	1.50
Reciprocating					
1 cylinder-single acting	2.50	3.00	◆	3.00	2.25
1 cylinder-double acting	2.00	3.00	◆	3.00	2.00
2 cylinder-single acting	2.00	2.00	◆	2.00	2.25
2 cylinder-double acting	1.50	1.75	◆	1.75	2.00
3 cylinder or more	1.50	1.50	◆	1.50	1.75
RUBBER INDUSTRY					
Banbury Mixer	2.50	2.50	2.00	2.50	2.50
Calender	2.00	2.00	2.00	2.00	2.00
Cracker Mixing Mill Plasticator	2.50	2.50	2.00	2.50	2.50
Refiner, Sheeter	2.00	2.50	2.00	2.50	2.00
Tire-Building Machine	2.00	2.50	2.00	2.50	2.50
Tire and Tube Press Opener Based on Peak Torque	1.00	1.00	1.25	1.00	1.00
Tuber and Strainer	1.50	1.75	1.50	1.75	1.75
Warming Mill	2.00	2.00	2.00	2.00	2.00
Washer	2.50	2.50	2.00	2.50	2.50
SCREENS					
Air Washing	1.00	1.00	1.25	1.00	1.00
Coal and Sand Rotary	1.50	1.50	1.50	1.50	1.50
Vibrating	2.50	2.50	2.00	2.50	2.50
Water	1.00	1.00	1.25	1.00	1.25

Note: Selection program "Couple" available on www.ptwizard.com



SERVICE FACTOR

Table 1 (continued)

Application (Read Footnotes)	Factor Δ				
	PARA-FLEX/ Poly-Disc	Grid Chain Rigid	D-FLEX	Gear	Power-Plus
SEWAGE DISPOSAL EQUIPMENT	1.00	1.00	1.25	1.00	1.25
SHOVEL	2.00	2.00	2.00	2.00	2.00
SHREDDER	1.50	1.50	1.50	1.50	1.50
STEEL INDUSTRY					
Cold Mills					
Coiler up or down	1.50	2.00	◆	1.50	2.00
Strip, Temper	2.00	2.00	◆	2.00	2.00
Hot Mills					
Coiler up or down	1.50	2.00	◆	1.50	2.00
Edger Drive	1.50	2.00	◆	1.50	2.00
Feed Roll Blooming	3.00	2.50	◆	3.00	3.50
Roughing Mill Delivery	3.00	2.50	◆	2.50	3.00
Non-reversing, Sheet Strip	3.00	2.50	◆	2.50	3.00
Rod Mill	2.50	2.50	◆	2.00	2.25
Soaking Pit Cover Drive Lift	3.00	1.50	◆	1.00	3.00
Soaking Pit Cover Drive Travel	3.00	1.50	◆	2.00	3.00

Application (Read Footnotes)	Factor Δ				
	PARA-FLEX/ Poly-Disc	Grid Chain Rigid	D-FLEX	Gear	Power-Plus
STEERING GEAR	1.00	1.00	1.25	1.00	1.25
STOKER		1.00	1.25	1.00	1.25
TEXTILE MILLS					
Batcher	1.00	1.25	1.25	1.25	1.25
"Calender, Card Machine, D Can"	1.50	1.50	1.50	1.50	1.50
Dyeing Machine	1.00	1.25	1.25	1.25	1.25
Loom	1.50	1.50	1.50	1.50	1.50
Mangel, Napper, Soaper	1.00	1.25	1.25	1.25	1.25
Spinner, Tenter Frame	1.50	1.50	1.50	1.50	1.50
WINDLASS	1.50	1.50	1.50	1.50	1.50
WOODWORKING MACHINES	1.00	1.00	1.25	1.00	1.25

SYSTEM SERVICE FACTOR CALCULATION

To determine the system service factor, the driver service factor adder (Table 1A) must be added to the driven service factor. (Table 1) Example: Determine the system service factor for a PARA-FLEX coupling used to couple a barking drum and a six-cylinder diesel engine.

$$\text{Driven S.F.} + \text{Driver S.F. Adder} = \text{System S.F.} \\ 2.5 + .5 = 3.0$$

Δ The service factors listed are intended only as a general guide. Where substantial shock occurs or starting and stopping is frequent as on some "inching" drives and on some reversing drives or where the power source is an internal combustion engine with less

than four cylinders—Consult DODGE. Where torsional vibrations occur as in, for example, internal combustion engine or reciprocating compressor or pump applications, check the coupling stiffness for the possible development of damaging large-amplitude vibrations. A complete system torsional analysis may be necessary.

** Add 0.5 to factor if without flywheel

◆ CONSULT DODGE FOR SELECTION ASSISTANCE

Table 1A-Driver Service Factor Adders

Type of Coupling	Electric Motor Std. Torque	High Torque Motors	Turbines	Reciprocating Engine Number of Cylinders				
				12 or More	8 to 11	6 to 7	4 to 5	Less than 4
PARA-FLEX	0.00	0.00	0.00	0.00	0.50	0.50	0.50	◆
METALLIC	0.00	0.00	0.00	0.00	0.50	0.50	1.00	◆
D-FLEX	0.00	IF SF < 1.25 ADD 0.25	IF SF < 1.5 SUBTRACT 0.25	IF SF < 1.25 ADD 0.25				◆
		IF SF > 1.25 ADD 0.5	IF SF > 1.5 SUBTRACT 0.5	IF SF > 1.25 ADD 0.5				◆

Note: Selection program "Couple" available on www.ptwizd.com



Comparative Table

Coupling Type	Misalignment		End Float
	Angular	Parallel	
PARA-FLEX (PX, PS) (1) (2)	4°	.125"	± 0.156"
PARA-FLEX (PH, PF)	1°	0.0625"	± 0.094"
GRID-LIGN	1/2°	0.012"	0.375"
CHAIN	2°	.015"	0.300"
POLY-DISC	2°	0.032"	
POWERPLUS	Please refer to instruction manual #MN4025 on www.dodge-pt.com		

(1) PX40 is 4° Angular / .06" Parallel / ±.094" End Float

(2) PX110 is 4° Angular / 0.125" Parallel / ±.125" End Float

Temperature Range

Coupling Type	°F
PARA-FLEX	
PX, PS	-45°F (1) to +180°F(1)
PH, PF	-45°F (1) to +180°F(1)
D-FLEX	
EPDM	-30°F to +275°F
NEOPRENE	0°F to +200°F
HYTREL	-65°F to +250°F
GRID-LIGN	-35°F to +210°F
CHAIN	-30°F to +225°F
GEAR	-30°F to +250°F
POLY-DISC	-90°F to +170°F
NYLIGN	0°F to +170°F
POWERPLUS	-22°F to 176°F

(1) -40°F to +210°F for neoprene element.

D-Flex Misalignment (1)

Size	Types JE, JN, E & N			Types H & HS (4)		
	Parallel (1)	Angular (2)	End Float (3)	Parallel (1)	Angular (2)	End Float (3)
3	0.010	1°	± 0.030	-	-	-
4	0.010	1°	± 0.030	-	-	-
5	0.015	1°	± 0.046	-	-	-
6	0.015	1°	± 0.060	.010	1/4°	± 0.060
7	0.020	1°	± 0.060	.012	1/4°	± 0.060
8	0.020	1°	± 0.096	.015	1/4°	± 0.096
9	0.025	1°	± 0.096	.017	1/4°	± 0.096
10	0.025	1°	± 0.125	.020	1/4°	± 0.125
11	0.032	1°	± 0.125	.022	1/4°	± 0.125
12	0.032	1°	± 0.125	.025	1/4°	± 0.125
13	0.040	1°	± 0.125	.030	1/4°	± 0.125
14	0.045	1°	± 0.125	.035	1/4°	± 0.125
16	0.062	1°	± 0.125	-	1/4°	-

NOTE: (1) All dimensions are in inches
(2) Values are for when 1/4 or more of the rated torque is transmitted.
Reduce values by 50% for lower torques

(3) Increase E dimension by this amount to accommodate end float.
(4) Types H & HS should not be used as direct replacements for EPDM or Neoprene sleeves



PARA-FLEX Couplings Bolt Torque Information

Size	Standard				
	Clamp Ring Bolts (5) Torque (In.-Lbs.)			PS Shaft Hub Bolts (3)	
	No.	2-Piece Assy	3-Piece Assy	No.	Torque (In.-Lbs.)
PX40	4	130	130	4	130
PX50	5	130	130	4	180
PX60	5	290	290	5	180
PX70	5	290	290	5	180
PX80	6	290	290	5	300
PX90	6	480	480	6	300
PX100	6	480	480	6	300
PX110	6	480	480	6	300
PX120	6	1080	1080	6	720
PX140	8	1080	1080	5	720
PX160 (2)	8	2160	1150	6	1296
PX200	12	2160	2400	8	1296
PX240	12	3600	4020	-	-
PX280	14	4320	6600	-	-
PX320	16	4320	6600	-	-

(2) PX160 steel flanges have 10 clamp ring bolts

(3) SAE Grade 8

(5) SAE Grade 8. FB style couplings utilize class 10.9 metric clamping ring bolts

PARA-FLEX High Speed & Fly Wheel Bolt Torque Information (in-lb)

Size	For Flange (3)		For Bolt Ring (3)
	Iron Fig.	Steel Fig.	
87	290	290	180
96	290	290	300
116	480	480	360
131	480	480	420
172	1080	1150	600
192	2160	1150	780
213	2160	2160	840
252	3600	3600	2880

(3) SAE Grade 8

Torsional Stiffness

PARA-FLEX		HIGH SPEED PARA-FLEX	
Size	In-Lbs/Degree (4)	Size	In-Lbs/Degree (4)
PX40	120	PH 87	1000
PX50	224	PH 96	1190
PX60	414	PH 116	2182
PX70	544	PH 131	2566
PX80	876	PH 172	6737
PX90	1088	PH 192	13893
PX100	1530	PH 213	23143
PX110	2420	PH 252	39008
PX120	4014		
PX140	8296		
PX160	12,000		
PX200	29,000		
PX240	48,000		
PX280	98,000		
PX320	151,000		

(4) Values are nominal and may vary +/- 20%. To convert static values to approximate dynamic values, multiply the static values by 1.2

D-Flex Torsional Stiffness*

Size	EPDM & Neoprene (In-Lbs/radian)	Hytrel (In-Lbs/radian)
3	229	-
4	458	-
5	916	-
6	1,718	10,000
7	2,769	20,000
8	4,335	30,000
9	6,875	47,500
10	10,980	100,000
11	17,300	125,000
12	27,500	225,000
13	43,350	368,900
14	68,775	593,250
16	180,480	-

* Values shown are for an ambient temperature of 75°F

D-Flex Spacer Bolt Torques

Size	Shaft Hub Bolts (1)	
	Number	Torque Ft-Lbs
5SCH	4	4
6SCH	4	9
7SCH	4	9
8SCH	4	18
9SCH	4	31
10SCH	4	50
11SCH	4	75
12SCH	4	150
13SCH	4	150
14SCH	4	150

(1) SAE Grade 8



AGMA Class 1 Fits

Nom. Shaft Diameter (In.)			Bore Dimensions			
			Clearance		Interference	
			Nom. Shaft Dia. Less	Bore Tolerance	Nom. Shaft Dia. Less	Bore Tolerance
0	-	1-1/2	.000	+.001 -.000	.001	-.0005 -.000
1-1/2	-	2	.000	+.001 -.000	.002	-.001 -.000
2	-	3	.000	+.0015 -.000	.002	-.0015 -.000
3	-	4	.000	+.0015 -.000	.003	-.0015 -.000
4	-	5	.000	+.002 -.000	.0035	-.0015 -.000
5	-	6	.000	+.002 -.000	.004	-.0015 -.000

Standard Keyways

Keyway Bore Size			Width	For Sq. Key	For Rec. Key
7/16	-		3/32	3/64	...
1/2	-	9/16	1/8	1/16	...
5/8	-	7/8	3/16	3/32	...
15/16	-	1-1/4	1/4	1/8	...
1-5/16	-	1-3/8	5/16	5/32	...
1-7/16	-	1-3/4	3/8	3/16	1/8
1-13/16	-	2-1/4	1/2	1/4	3/16
2-5/16	-	2-3/4	5/8	5/16	7/32
2-13/16	-	3-1/4	3/4	3/8	1/4
3-5/16	-	3-3/4	7/8	7/16	5/16
3-13/16	-	4-1/2	1	1/2	3/8
4-9/16	-	5-1/2	1-1/4	5/8	7/16

Metric Bore Standard

MM Bore	MM Keyway Width	MM Hub Keyseat	MM Key
14	5	2.3	5x5
16	5	2.3	5x5
18	6	2.8	6X6
19	6	2.8	6X6
20	6	2.8	6X6
22	6	2.8	6X6
24	8	3.3	8X7
25	8	3.3	8X7
28	8	3.3	8X7
30	8	3.3	8X7
32	10	3.3	10X8
35	10	3.3	10X8
38	10	3.3	10X8
40	12	3.3	12X8
42	12	3.3	12X8
45	14	3.8	14X9
48	14	3.8	14X9
50	14	3.8	14X9
55	16	4.3	16X10
60	18	4.4	18X11
65	18	4.4	18X11
70 & 75	20	4.9	20X12
80 & 85	22	5.4	22X14
90	25	5.4	25X14
95	25	5.4	25X14
100	28	6.4	28X16

MM bore and keyway conform to ISO standard recommendation R773, for "FREE" fit

NOTES



Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushing