



# FEATURES/BENEFITS

## DODGE PARA-FLEX Couplings



### Superior “Problem Solver” Element Design

- Industry leading misalignment capabilities
- End split reinforcement for increased torque ratings and extended life
- Reinforced torque-carrying tension cords prevent unexpected downtime
- Uniform and centered beads prevent element pull out during operation
- Protects connected equipment by damping vibrations and shock loads

### Industry Leading Five-Year Limited Warranty

- Over 50 years of proven performance
- Reliable product operation
- Includes sizes PX40 to PX200



### Increased Productivity

- Non-lubricated design assures trouble-free operation
- Visual inspection saves time and allows for preventive maintenance
- Split element for easy installation

### ATEX Approved

- All documents and markings included with standard product to meet ATEX requirements

### TAPER-LOCK Flange Design

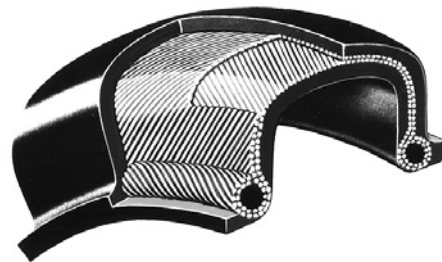
- Utilizes standard TAPER-LOCK bushings for easy installation and removal
- Reversible flanges for H and F style mounting on sizes PX50-PX120
- “TLX” extended bore capacity flanges for increased bore capacities
- Pre-assembled for quick installation

### QD Flange Design

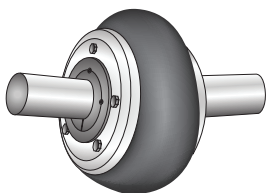
- Utilizes standard QD bushings for easy installation and removal
- Industry leading bore and torque capacities versus competitive designs
- Hardware installs from inside or outside of the hub for mounting flexibility
- Pre-assembled for quick installation

### Bored to Size

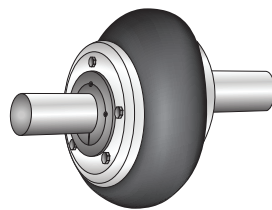
- Steel flanges are ideal for high shock load and vibration applications
- Largest bore capacity of all Para-Flex products



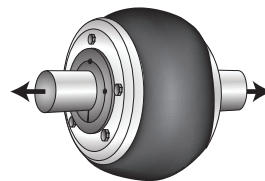
### Accommodates Misalignment



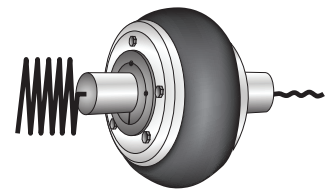
Takes 4° angular misalignment



Takes 1/8" parallel misalignment



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



Dampens vibrations



## PARA-FLEX

### SPECIFICATION

PARA-FLEX Couplings employ a molded, non-lubricated elastomeric flexing member loaded in shear. The flexible element 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 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 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 TAPER-LOCK or QD bushings. Clearance fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

- 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.

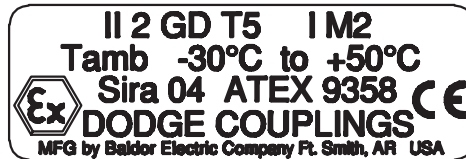
### HOW TO ORDER

Standard couplings consist of:

- (2) Flange Assemblies
- (1) Flexible Element
- (2) Bushings (TL or QD)

### ATEX Approved

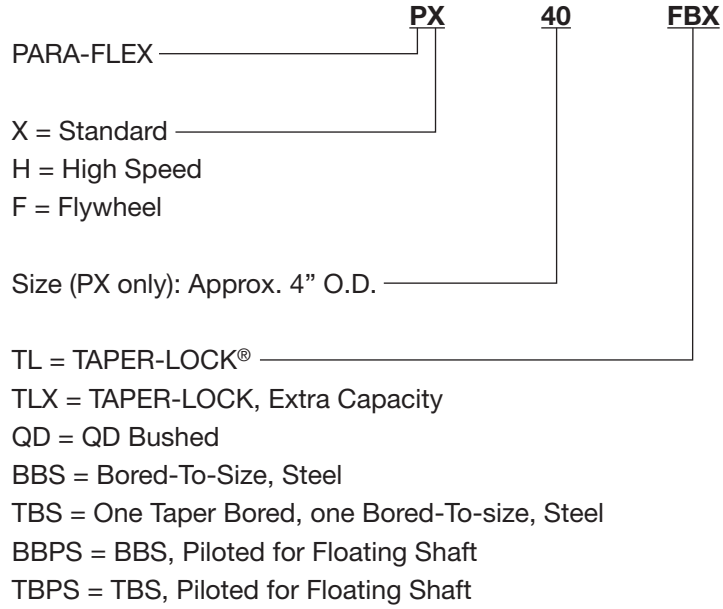
- All documents and markings included with standard product to meet ATEX requirements



FEATURES/BENEFITS PAGE PT1-2	SELECTION/DIMENSIONS PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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## NOMENCLATURE

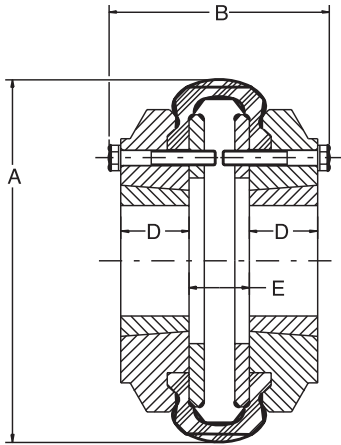


FEATURES/BENEFITS PAGE PT1-2	SELECTION/DIMENSIONS PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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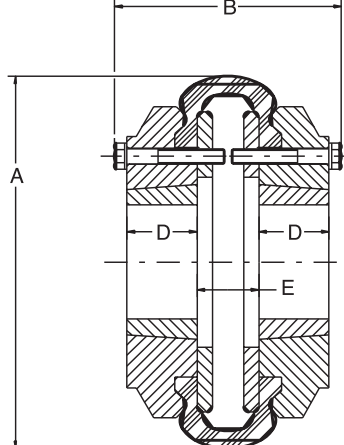


## SELECTION/DIMENSIONS

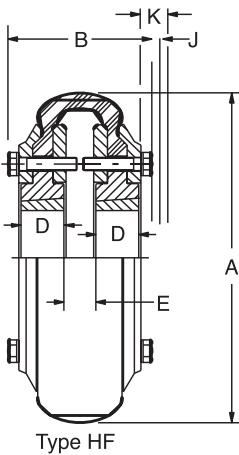
### Standard, TAPER-LOCK



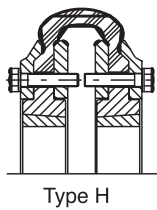
Style 1  
Type H Taper-Lock



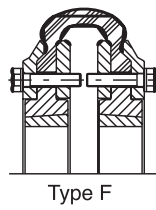
Style 1  
Type F Taper-Lock



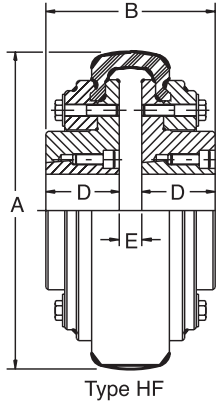
Type HF



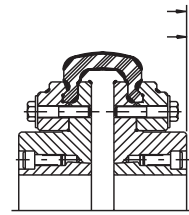
Type H



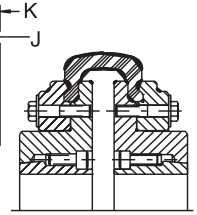
Type F



Type HF



Type H-H



Type F-F

Style 2 Taper-Lock couplings  
with reversible flange

Style 3 PARA-FLEX Taper-Lock couplings

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# SELECTION/DIMENSIONS

## Standard, TAPER-LOCK

Coupling Size	TAPER-LOCK Bushing Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Style	A	B	D	E	J (1)	K (2)	Weight (Lbs.) (3)	Inertia (Lb-Ft <sup>2</sup> ) (4)
PX40TL	1008	1	0.68	429	4500	1	4.25	3	0.88	0.77	0.63	0.75	4.2	0.05
PX50TL	1108	1-1/8	1.43	900	4500	1	5.25	2.75	0.88	0.53	0.63	0.75	4.7	0.07
PX60TL	1310	1-7/16	2.86	1800	4000	1	6.5	3.34	1	0.72	0.81	1.06	9.2	0.21
PX70TL	1610	1-11/16	3.49	2200	3600	2	7.38	3.56	1	0.95	0.81	1.06	13	0.3
PX70TLX-F	2012	2-1/8	3.49	2200	3600	3	7.38	3.83	1.25	0.95	0.94	1.38	14.8	0.3
PX80TL	2012	2-1/8	5.72	3605	3100	2	8.38	3.75	1.25	0.77	0.94	1.38	19.6	0.73
PX80TLX-F	2517	2-11/16	5.72	3605	3100	3	8.38	3.99	1.75	0.77	1	1.63	24.7	0.8
PX90TL	2517	2-11/16	7.15	4502	2800	2	9.25	4.03	1.75	0.33	1	1.63	28.8	1.3
PX100TL	2517	2-11/16	8.58	5402	2600	2	10	4.22	1.75	0.52	1	1.63	38	2.2
PX100TLX-F	3020	3-1/4	8.58	5402	2600	3	10	4.36	2	0.52	1.19	2.06	42.6	2.4
PX110TL	2517	2-11/16	12.3	7750	2300	2	11	4.53	1.75	0.47	1	1.63	52.1	3.7
PX110TLX-F	3020	3-1/4	12.3	7750	2300	3	11	4.75	2	0.47	1.19	2.06	57.2	3.9
PX110TLX-H	3020	3-1/4	12.3	7750	2300	3	11	4.75	2	0.47	1.19	2.06	57.2	3.9
PX120TL	3020	3-1/4	20	12605	2100	2	12.38	5.03	2	0.44	1.19	2.06	74.4	6.6
PX120TLX-F	3525	3-15/16	20	12605	2100	3	12.38	5.45	2.5	0.44	1.31	2.69	88.1	7.4
PX140TL	3535	3-15/16	44	27590	1840	3	14.13	7.81	3.5	0.81	1.31	2.69	156	18.7
PX160TL	4040	4-7/16	60	37800	1560	3	16.63	9.19	4	1.19	1.63	3.38	243	33.7
PX200TL	4545	4-15/16	131	82500	1300	3	20	10.31	4.5	1.31	1.94	4.06	417	101
PX240TL	5050	5	240	151200	1080	3	24.13	11.91	5	1.91	2.31	4.81	682	231
PX280TL	7060	7	480	302200	910	3	28.5	15.97	6	2.22	1.63	4.38	1148	544
PX320TL	8065	8	719	453000	810	3	32.5	16.31	6.5	2.06	1.63	4.38	1640	1077

- 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.

Flange assemblies may be combined or interchanged for a given element size.  
 Upon combination, dimensions B and E as well as mass and inertia should be average to determine appropriate value.

PT Component Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# 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	
PX40TL	000849	000848	1008
PX50TL	010601	*	1108
PX60TL	010602	*	1310
PX70TL	010603	*	1610
PX70TLX-F	-	395277	2012 •
PX80TL	010604	*	2012
PX80TLX-F	-	395278	2517 •
PX90TL	010605	*	2517
PX100TL	010606	*	2517
PX100TLX-F	-	395279	3020 •
PX110TL	010607	*	2517
PX110TLX-H	395281	-	3020 •
PX110TLX-F	-	395280	3020 •
PX120TL	010608	*	3020
PX120TLX-F	-	395282	3525 •
PX140TL	011134	011154	3535
PX160TL	011137	011157	4040
PX200TL	011140	011160	4545
PX240TL	011144	011164	5050
PX280TL	011455	011456	7060
PX320TL	011472	011471	8065

\* PX50-PX120 have a reversible flange for type H or F mount  
Complete coupling consists of (2) TAPER-LOCK Flange Assemblies.

(2) Taper-Lock Bushings, and (1) Element.

For Taper-Lock Bushings, see page/section \_\_\_\_\_

• These flanges require a metric bushing, see page \_\_\_\_\_

### Elements

Coupling Size	Standard Part No.	Neoprene (1) Part No.	Cordless (2) Part No.
PX40	011529	012455	012456
PX50	011105	011296	011285
PX60	011106	011297	011286
PX70	011107	011298	011287
PX80	011108	011299	011288
PX90	011109	011300	011289
PX100	011110	011301	011290
PX110	011111	011302	---
PX120	011112	011303	011292
PX140	011114	011304	---
PX160	011117	011305	---
PX200	011120	011306	---
PX240	011124	011312	---
PX280	011457	011313	---
PX320	011463	011315	---

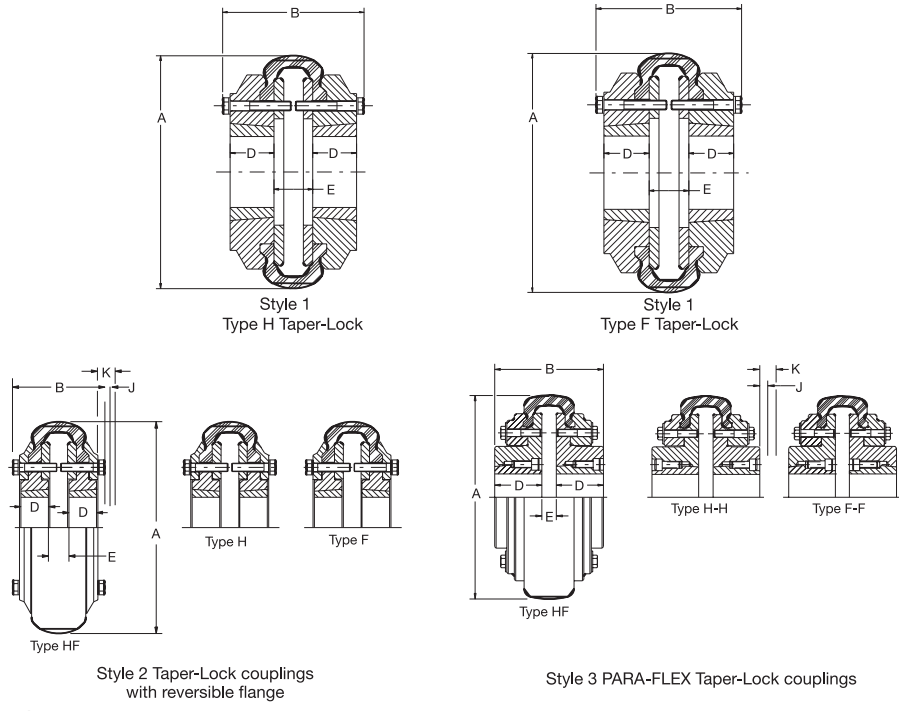
- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)





# SELECTION/DIMENSIONS

## Metric, TAPER-LOCK Part Numbers



### Taper-Lock Couplings\*

Coupling flange assy.	Element size	Min. bore	Max. bore	TL Bushing*	kW/100	Torque (in-lbs)	Max RPM	Style	A (in)	B = (in)	D (in)	E = (in)	J <sup>(1)</sup> (in)	K <sup>(2)</sup> (in)	Mass <sup>(3=)</sup> (lbs)	Inertia <sup>(4=)</sup> (lb-ft <sup>2</sup> )
PXM40TL	40	13	25	1008	0.51	425	4500	1	4.25	3	.88	.77	.63	.75	4.2	.05
PXM50TL	50	13	32	1210	1.07	900	4500	1	5.25	2.75	.88	.53	.63	.75	4.7	.07
PXM60TL	60	13	42	1610	2.13	180	4000	1	6.5	3.34	1	.72	.81	1.06	9.2	.21
PXM70TL	70†	13	42	1610	2.60	2200	3600	2	7.38	3.56	1	.95	.81	1.06	13	.3
PXM70TLX-F	70†	13	50	2012	2.60	2200	3600	3	7.38	3.83	1.25	.95	.94	1.38	14.8	.3
PXM80TL	80†	13	50	2012	4.27	3605	3100	2	8.38	3.75	1.25	.77	.94	1.38	19.6	.73
PXM80TLX-F	80†	13	65	2517	4.27	3605	3100	3	8.38	3.99	1.75	.77	1	1.63	24.7	.8
PXM90TL	90	13	65	2517	5.33	4502	2800	2	9.25	4.03	1.75	.33	1	1.63	28.8	1.3
PXM100TL	100†	13	65	2517	6.40	5402	2600	2	10	4.22	1.75	.52	1	1.63	38	2.2
PXM100TLX-F	100†	24	80	3020	6.40	5402	2600	3	10	4.36	2	.52	1.19	2.06	42.6	2.4
PXM110TL	110†	13	65	2517	9.18	7750	2300	2	11	4.53	1.75	.47	1	1.63	52.1	3.7
PXM110TLX-H	110†	24	80	3020	9.18	7750	2300	3	11	4.75	2	.47	1.19	2.06	57.2	3.9
PXM110TLX-F	110†	24	80	3020	9.18	7750	2300	3	11	4.75	2	.47	1.19	2.06	57.2	3.9
PXM120TL	120†	24	80	3020	14.92	12605	2100	2	12.38	5.03	2	.44	1.19	2.06	74.4	6.6
PXM120TLX-F	120†	31	100	3525	14.92	12605	2100	3	12.38	5.45	2.5	.44	1.31	2.69	88.1	7.4
PXM140TL	140	31	95/100•	3535	32.82	27590	1840	3	14.13	7.81	3.5	.81	1.31	2.69	156	18.7
PXM160TL	160	37	105/115•	4040	44.76	37800	1560	3	16.63	9.19	4	1.19	1.63	3.38	243	33.7
PXM200TL	200	50	115/125•	4545	97.73	82500	1300	3	20	10.31	4.5	1.31	1.94	4.06	417	101
PXM240TL	240	61	127	5050	179.04	151200	1080	3	24.13	11.91	5	1.91	2.31	4.81	682	231

(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  
 \* Metric hardware  
 • Requires short series bushings to achieve maximum bore.  
 † Flange assemblies may be combined or interchanged for a given element size. Upon combination, dimensions B & E as well as mass and inertia should be averaged for appropriate value.  
 H = Hub Mount  
 F = Flange Mount

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
---------------------------------	------------------------------------------	-----------------------------------------	--------------------------------------



# SELECTION/DIMENSIONS

## Metric, TAPER-LOCK

Complete Para-Flex coupling consists of:  
one element, two PXMTL flange assemblies and two TL bushings

### Para-Flex Taper-Lock flange assemblies

Coupling size	Type H	Type F	
	Part Number	Part Number	Taper-Lock bushing size
PXM40TL	013095	013096	1008
PXM50TL	013041	013040	1210
PXM60TL	013043	013042	1610
PXM70TL	013044	*	1610
PXM70TLX-F	—	395277	2012
PXM80TL	013045	*	2012
PXM80TLX-F	—	395278	2517
PXM90TL	013046	*	2517
PXM100TL	013047	*	2517
PXM100TLX-F	—	395279	3020
PXM110TL	013048	*	2517
PXM110TLX-H	395281	—	3020
PXM110TLX-F	—	395280	3020
PXM120TL	013049	*	3020
PXM120TLX-F	—	395282	3525
PXM140TL	013051	013050	3535 / 3525 •
PXM160TL	013053	013052	4040 / 4030 •
PXM200TL	013055	013054	4545 / 4535 •
PXM240TL	395286	395285	5050

#### Notes:

- \* Have reversible flange for type H or F mount.
  - Requires short series bushing to achieve maximum bore.
- Metric bushing required  
For Taper-Lock designs, Taper-Lock bushings must be ordered separately.

### Elements

Coupling Size	Standard Part No.	Neoprene (1) Part No.	Cordless (2) Part No.
PX40	011529	012455	012456
PX50	011105	011296	011285
PX60	011106	011297	011286
PX70	011107	011298	011287
PX80	011108	011299	011288
PX90	011109	011300	011289
PX100	011110	011301	011290
PX110	011111	011302	---
PX120	011112	011303	011292
PX140	011114	011304	---
PX160	011117	011305	---
PX200	011120	011306	---
PX240	011124	011312	---

- (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)

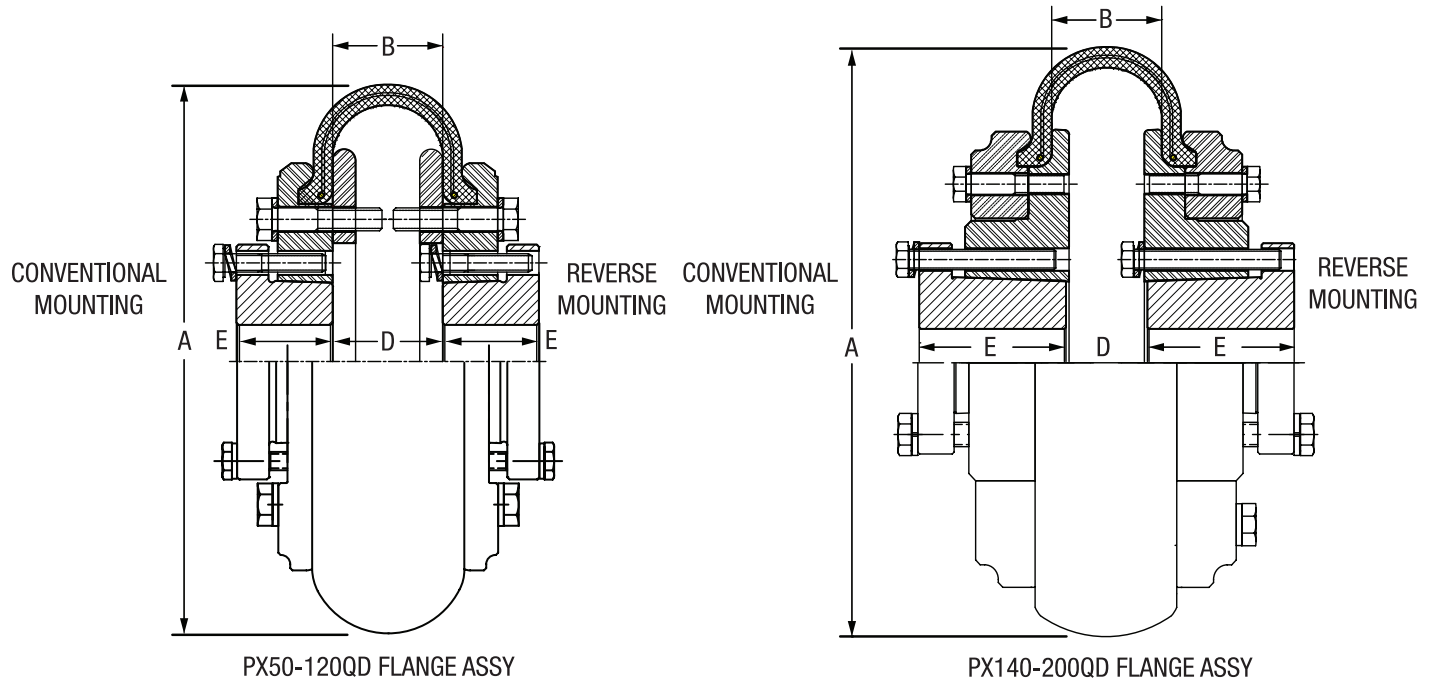
FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# SELECTION/DIMENSIONS

## Standard, QD Bushed



PX50-120QD FLANGE ASSY

PX140-200QD FLANGE ASSY

### Dimensions

Coupling Size	Bushing Size	Max Bore (In.)			HP/100	Torque Rating (In-Lbs)	Max RPM	Style	Dimensions (In.)				Weight (1) (Lbs.)	Inertia (2) (Lb-Ft)
		Full KW	Shallow KW	No KW					A	B	D	E		
PX50QD	JA	1	1-3/16	1-1/4	1.43	900	4500	1	5 1/4	3 7/8	1	1 17/32	4.7	0.08
PX60QD	SH	1-3/8	1-5/8	1-11/16	2.86	1800	4000	1	6 1/2	4 23/32	1 1/4	1 25/32	8.0	0.24
PX70QD	SDS	1-5/8	1-15/16	2	3.49	2200	3600	1	7 3/8	4 17/32	1 5/16	1 1/2	10.7	0.45
PX80QD	SK	2-1/8	2-1/2	2-5/8	5.72	3600	3100	1	8 3/8	5 13/16	3 7/8	1 1/2	15.5	0.88
PX90QD	SK	2-1/8	2-1/2	2-5/8	7.15	4350	2800	1	9 1/4	5 7/8	3 7/8	1 9/16	22.0	1.60
PX100QD	SF	2-5/16	2-15/16	-	8.58	5250	2600	1	10	6 1/8	4 5/8	1 15/32	32.0	2.90
PX110QD	SF	2-5/16	2-15/16	-	12.3	7750	2300	1	11	5 7/8	4 5/8	1 3/16	46.0	4.30
PX120QD	E	2-7/8	3-1/2	-	20	12540	2100	1	12 3/8	7 1/4	6	1 1/4	59.8	6.70
PX140QD	F	3-1/4	3-15/16	4	44	27590	1840	2	14 1/8	9 1/2	6 5/8	1 3/8	132.5	19.50
PX160QD	J	3-3/4	4-1/2	-	60	37800	1560	2	16 5/8	11 1/2	7 1/4	1 3/8	208.7	34.60
PX200QD	J	3-3/4	4-1/2	-	131	82500	1300	2	20	11 3/4	7 1/4	1 13/16	366.0	103.00

**Notes:**

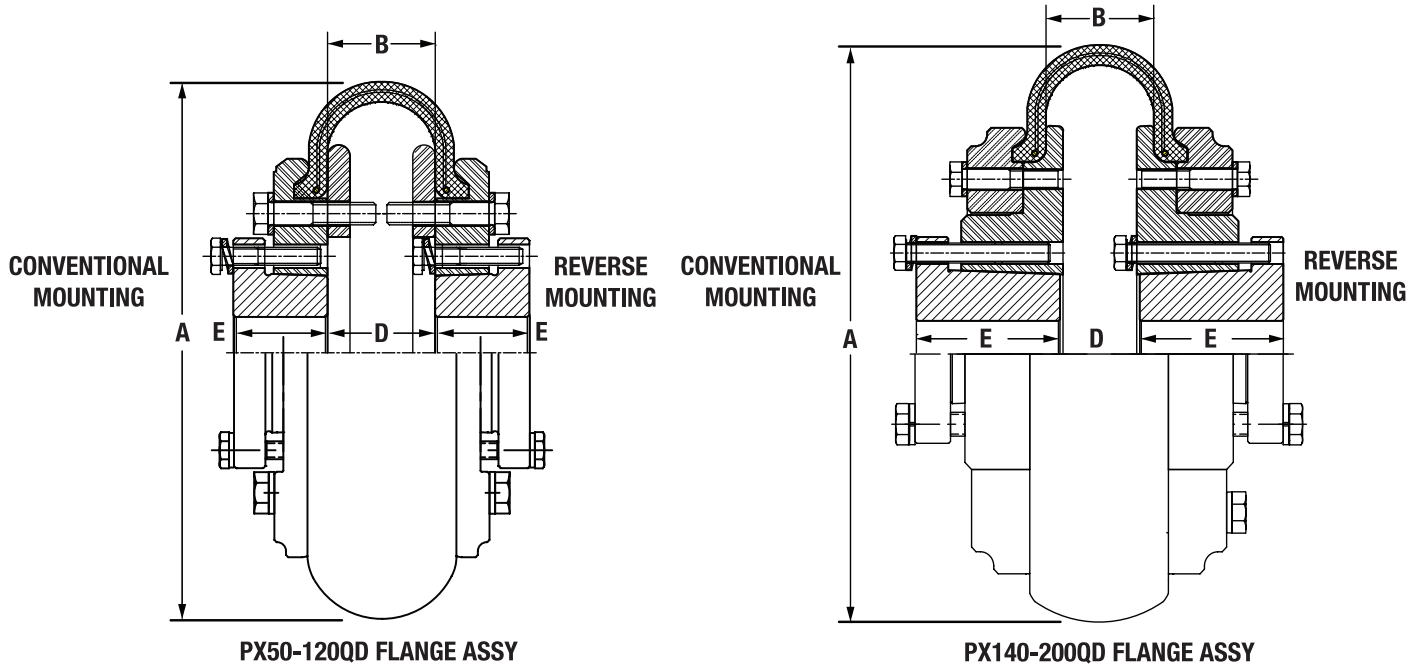
- (1) Weight of complete coupling with bushings.
- (2) Inertia of complete coupling with bushing.

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# SELECTION/DIMENSIONS

## Standard, QD Bushed



### Para-Flex QD Part Numbers

Size	PXQD Flanges		Elements		
	Description	Part No.	Standard	Neoprene (1)	Cordless (2)
PX50	PX50QD FLANGE ASSEMBLY	013210	011105	011296	011285
PX60	PX60QD FLANGE ASSEMBLY	013211	011106	011297	011286
PX70	PX70QD FLANGE ASSEMBLY	013212	011107	011298	011287
PX80	PX80QD FLANGE ASSEMBLY	013213	011108	011299	011288
PX90	PX90QD FLANGE ASSEMBLY	013214	011109	011300	011289
PX100	PX100QD FLANGE ASSEMBLY	013215	011110	011301	011290
PX110	PX110QD FLANGE ASSEMBLY	013216	011111	011302	-
PX120	PX120QD FLANGE ASSEMBLY	013217	011112	011303	011292
PX140	PX140QD FLANGE ASSEMBLY	013218	011114	011304	-
PX160	PX160QD FLANGE ASSEMBLY	013219	011117	011305	-
PX200	PX200QD FLANGE ASSEMBLY	013220	011120	011306	-

Complete Para-Flex QD coupling consists of one element, two flanges, and two QD bushings.

**Notes:**

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

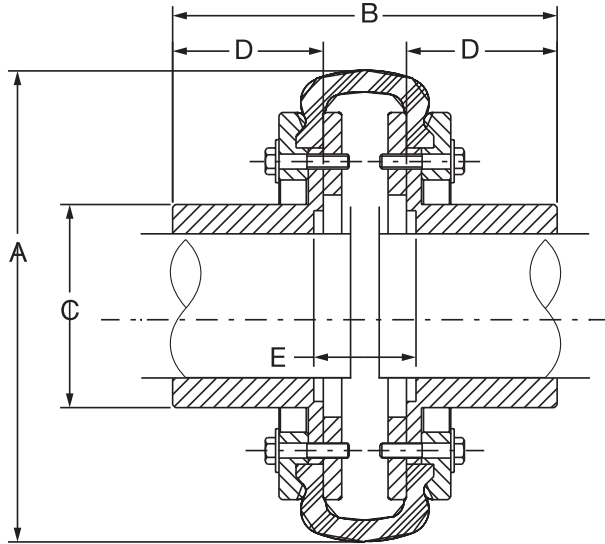
(2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
---------------------------------	------------------------------------------	-----------------------------------------	--------------------------------------



# SELECTION/DIMENSIONS

## Bored 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 <sup>2</sup> )
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

## Bored 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

Unless otherwise specified, Size 60-120 BBS flanges are clearance fit per AGMA 9002. Size 140-320 BBS flanges are interference fit per AGMA 9002.

See page \_\_ for additional details.

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

### 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)

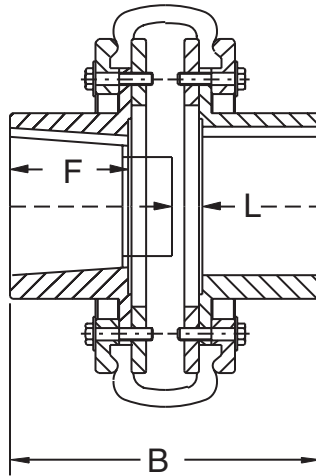
(2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
---------------------------------	------------------------------------------	-----------------------------------------	--------------------------------------



# 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 <sup>2</sup> )
PX60TBS	602,802*	none	1-1/2	2.86	1,800	4000	5.78	3.00	0.34	10.1	0.21
PX70TBS	603	none	2-1/8	3.49	2,200	3600	6.75	3.50	0.50	16.1	0.32
	802B,802C						6.25	3.00	0.56		
PX80TBS	603,803	none	2-9/16	5.72	3,605	3100	7.00	3.50	0.50	23.2	0.79
	604804						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	none	3-15/16	12.30	7,750	2300	8.56	4.00	0.59	62.3	4.2
	608						9.06	4.50	0.16		
PX120TBS	608,806	none	4	20.00	12,605	2100	9.00	4.00	0.63	81.4	7.0
	608,808						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

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# SELECTION/DIMENSIONS

## Mill Motor, Type TBS

### PX60 - PX280 TBS Part Numbers

Coupling Size	For Mill Motor Size	TBS Flange Assembly	Standard Element	BS Flange Assembly	Coupling Size	TBS Flange Assy Rough Bore
PX60TBS	602,802*	010471	011106	See Page PT1-30	PX60TBS	010510
PX70TBS	603	010472	011107		PX70TBS	010511
	802B,802C	010473			PX80TBS	010512
PX80TBS	603,803	010474	011108		PX90TBS	010513
	604,804				PX100TBS	010514
PX90TBS	804	010475	011109		PX110TBS	010515
PX100TBS	804	010476	011110		PX120TBS	010516
PX110TBS	606,806	010477	011111		PX140TBS	010524
	608	010478			PX160TBS	010531
PX120TBS	606,806	010479	011112		PX200TBS	010532
	608,808	010480			PX240TBS	010525
PX140TBS	608,808	008980	011114		PX280TBS	010526
	610,810	008981				
	612,812	008982				
PX160TBS	610,810	008983	011117			
	612,812	008984				
	614	008985				
PX200TBS	612,812	008986	011120			
	614,814	008987				
	616,816	008988				
	618,818	008989				
PX240TBS	818	008990	011124			
	620	008991				
PX280TBS	622	008992	011457			
	624	008993				

Complete coupling consists of:

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

\* Key furnished for shallow keyways.

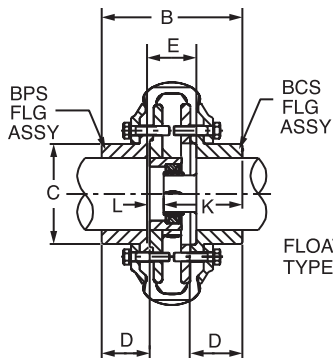
+ Part numbers are finished bore flanges to fit mill motor sizes listed.

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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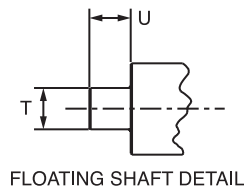


# SELECTION/DIMENSIONS

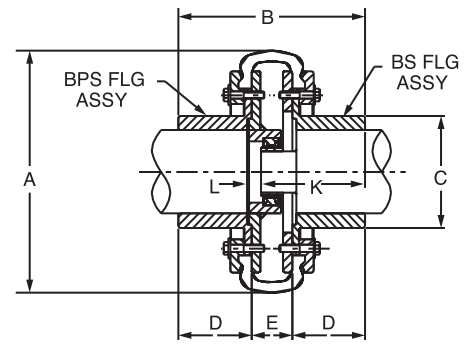
## Floating Shaft, Type BBPS



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 <sup>2</sup> )
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) 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 Assembly	BPS Flange Assembly	Standard Element
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

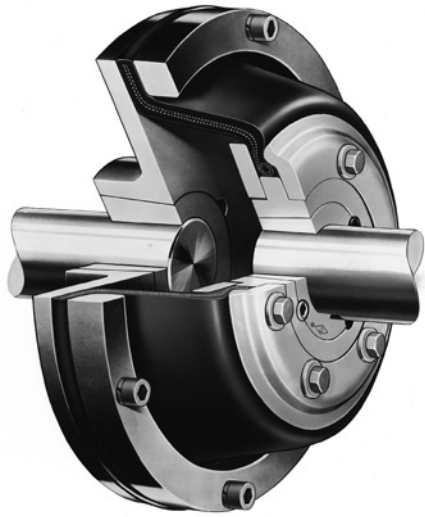
Coupling Size	BS Flange Assembly	BPS Flange Assembly	Standard Element
PX140BBPS	010530	011714	011114
PX160BBPS	010531	011715	011117
PX200BBPS	010532	011716	011120
PX240BBPS	010533	011717	011124
PX280BBPS	010528	011718	011457
PX320BBPS	010529	011719	011463

FEATURES/BENEFITS PAGE PT1-2	SPECIFICATION/HOW TO ORDER PAGE PT1-3	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# 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

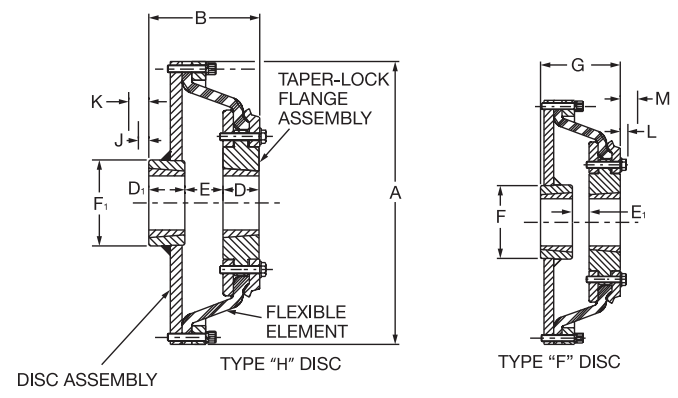
- Specifically designed to connect the flexible element to standard SAE flywheel bolt patterns
- Available in TAPER-LOCK and bored to configurations



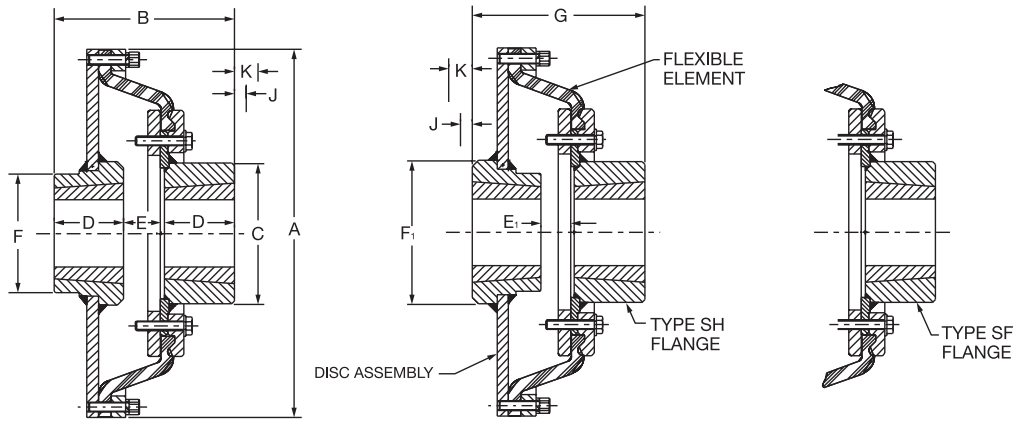


# SELECTION/DIMENSIONS

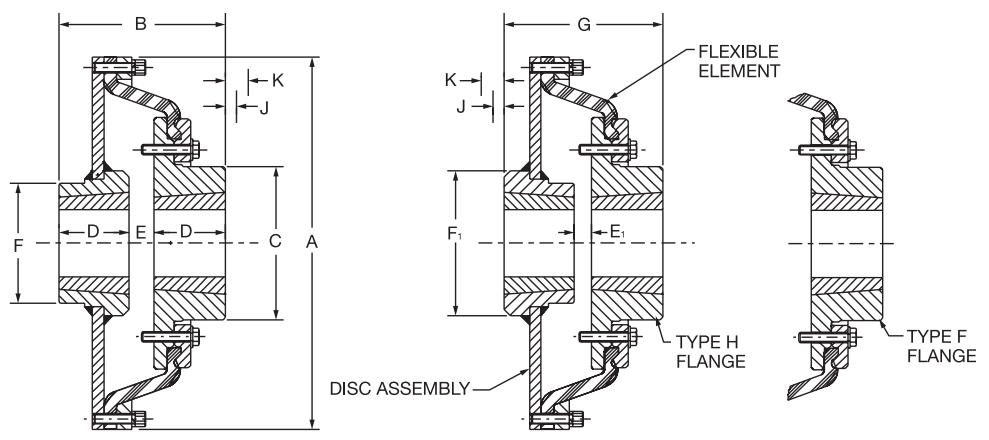
## High Speed, TAPER-LOCK



PH87 THRU PH131



PH172 thru PH252 STEEL FLANGE ASSEMBLY



PH172 & PH192 IRON FLANGE ASSEMBLY

<p>FEATURES/BENEFITS PAGE PT1-17</p>	<p>SELECTION/DIMENSION PAGE PT1-18</p>	<p>MODIFICATION/ACCESSORIES PAGE PT1-79</p>	<p>ENGINEERING/TECHNICAL PAGE PT1-81</p>
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# 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 <sup>2</sup> )	
						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 <sup>1</sup>	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 <sup>1</sup>		F	F <sup>1</sup>	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						Disc Assembly	High Speed Element	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

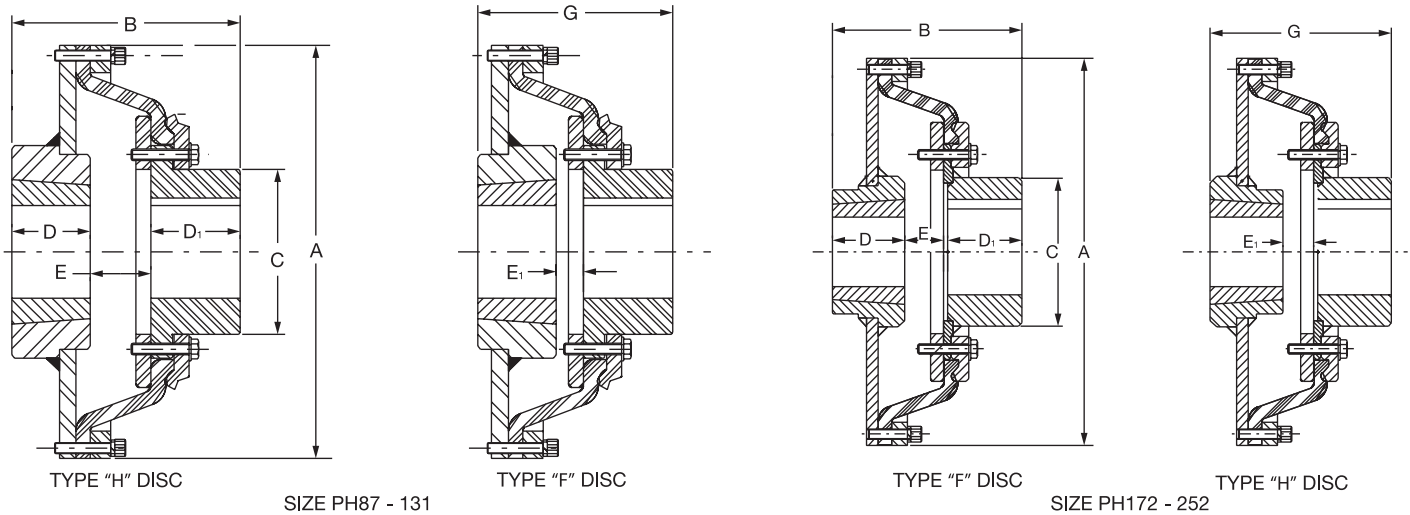
**Complete coupling consists of:  
 (1) TAPER-LOCK Flange Assembly, (1) TAPER-LOCK Disc Assembly, & (1) High speed Element.  
 TAPER-LOCK bushings must be ordered separately.  
 Refer to bushing section PT6-16.**

FEATURES/BENEFITS PAGE PT1-17	SELECTION/DIMENSION PAGE PT1-18	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# SELECTION/DIMENSIONS

## High Speed, Bored to Size



Coupling Size	BS Flange Assembly		TAPER-LOCK Disc Assembly		A	B	C	D	D1	E	E1	G	Weight (Lbs)	Inertia (Lb-Ft <sup>2</sup> )
	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 Assembly	TAPER-LOCK Disc Assembly	TAPER-LOCK Bushing Size	High Speed Element
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.

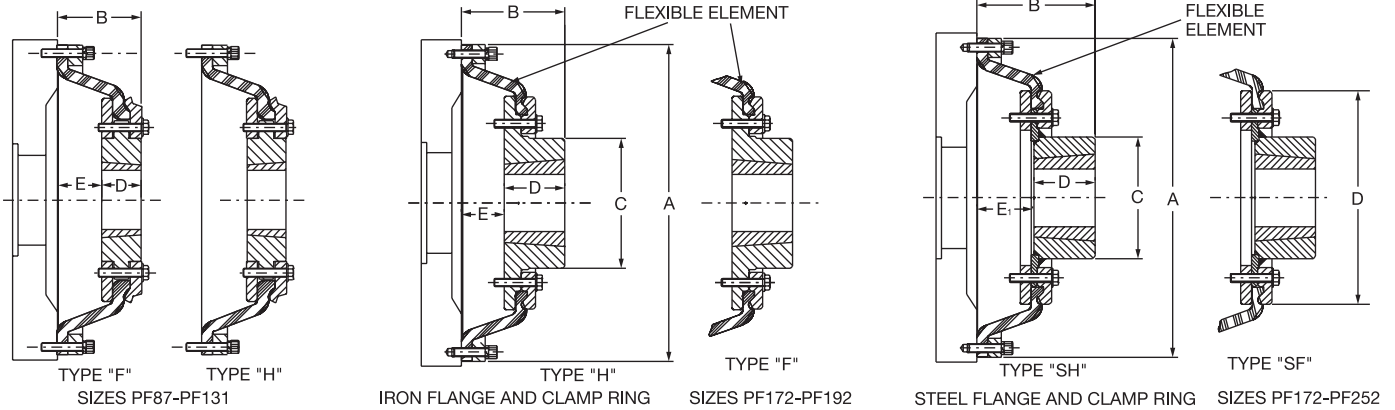
Unless otherwise specified, Size 60-120 BS flanges are clearance fit per AGMA 9002. Size 140-320 BS flanges are interference fit per AGMA 9002. See page \_\_ for additional details.

FEATURES/BENEFITS PAGE PT1-17	SELECTION/DIMENSION PAGE PT1-18	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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# 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 <sup>2</sup> )	
		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					Bolt Ring Assembly	High Speed Element	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.

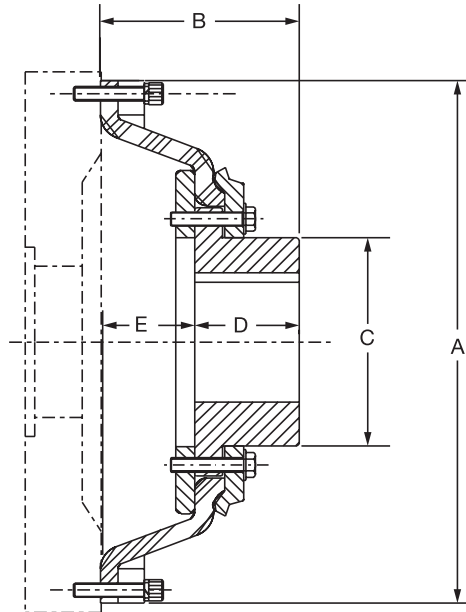
See page PT1-34 for Flywheel & Power Take Off housing information. Refer to bushing section PT6-16.

FEATURES/BENEFITS PAGE PT1-17	SELECTION/DIMENSION PAGE PT1-18	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
----------------------------------	------------------------------------	-----------------------------------------	--------------------------------------



## 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 <sup>2</sup> )
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 Assembly	Bolt Ring Assembly	High Speed Element
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.

Unless otherwise specified, Size 60-120 BS flanges are clearance fit per AGMA 9002. Size 140-320 BS flanges are interference fit per AGMA 9002.

See page \_\_ for additional details.

#### 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

FEATURES/BENEFITS PAGE PT1-17	SELECTION/DIMENSION PAGE PT1-18	MODIFICATION/ACCESSORIES PAGE PT1-79	ENGINEERING/TECHNICAL PAGE PT1-81
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