



Fenner® Couplings & Shaft Fixings





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Exceptional Performance

Fenner power transmission products are world renowned for delivering the ultimate combination of rugged construction, reliable and efficient performance and value for money - proven in the harshest environments, guaranteed to perform in yours!

All power transmission products are manufactured to exacting specifications in line with international standards, and are backed-up by a product development programme designed to keep them at the cutting edge.

Over 150 Years of Engineering Heritage

Fenner has been a leading name in power transmission for over 150 years and generations of professional engineers have placed their trust in these products.

Founded in 1861 by Joseph Henry Fenner, the company started as a manufacturer of horse hair and leather power transmission belts. In 1921, woven textile belts were developed and the company began to produce some of the finest transmission belting in the market Today, Fenner product range include transmission belts, pulleys, chains, sprockets, couplings, taper lock bushes, shaft fixings, gearboxes, motors and inverters.

Our success in the market means that today the Fenner mark is widely recognised as synonymous with exceptional products for everyday use - a fitting tribute to the designers and engineers who proudly continue to oversee these ever-improving fundamentals of power transmission.



Fenner Guarantee



Products are guaranteed in terms of the manufacturer's Standard Conditions of Business only if all components of an assembly (excluding belts) are of genuine manufacture

All products in this manual are available for purchase subject to our standard conditions of sale. To the best of our knowledge the representations concerning performance of any items contained in this manual are, at date of publication, accurate within normally accepted tolerances. We shall not, however, be liable for consequences arising from inaccuracies in drawings, specification or other information based on specifications, dimensions, calculations or information of whatsoever nature obtained from this manual nor be bounded thereto.

All products covered by this manual are manufactured to standards and or specifications adequate for the purpose for which they have been designed. We will repair, or at our discretion, replace, free of charge at point of delivery, any item or part thereof which may prove, within three months after delivery, to be defective due to faulty workmanship or material, save as aforesaid, no warranty or misrepresentation of any nature is or shall be taken to be given by us or is or can be implied.

The information contained herein is subject to alteration without notice, and accordingly, we shall not be bound to the contents of the terms hereof.

IMPORTANT NOTE:

All products listed in this manual are not approved for use in aviation industries. This comprehensive range is suitable for general industrial purposes.

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Fenner's worldwide commitment to quality is a guarantee that wherever the project or customer is located, the Fenner products supplied will always meet the most exacting standards.

Complete Drive Solution for You



The complete drive solution from prime mover to driven machine in one range with one result - driven performance.



Table of Contents

Items	Page
Fenaflex Coupling	1
Fenaflex Spacer Coupling	2
Fenaflex Flywheel Coupling	2
HRC Coupling	3
Jaw Coupling	4
Rigid Coupling	5
Triflex Coupling	6
Fenner Grid Coupling	7
FenLock Cone Clamping Elements	8
Taper Lock Bushes	9
Trantorque GTR	10

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Fenaflex™ Coupling

Flexible Coupling

Fenaflex[™] Tyre Couplings are highly elastic, lubrication free couplings that tolerate large amounts of misalignment in all planes as well as offering simple installation and inspection without disrupting the drive. The Fenaflex[™] coupling also has excellent shock absorbing properties while reducing vibration and torsional oscillations.

Benefits

- > Simple time saving installation motor and machine remains undisturbed whilst tyre is changed
- > Large misalignment capability, 4° angular, up to 6mm parallel and 8mm axial
- > Internal load carrying cords are wound in both directions, so there is no problem on reversing drives
- > Tyres are available in standard and FRAS (Fire Resistant
- > Anti Static) construction. ATEX approved
- > Simple visual inspection to aid maintenance
- > Lubrication free
- > Taper Lock® and pilot bore flanges
- > Pump spacer and flywheel fixing variants available

Fenaflex Tyres

Fenaflex tyres are available in natural rubber compounds for use in ambient temperatures between –50°C and +50°C. Chloroprene rubber compounds are available for use in adverse operating conditions (e.g. oil or grease contamination) and can be used in temperatures of –15°C to +70°C.

The chloroprene compound should also be used when fire-resistance and anti-static (FRAS) properties are required, and it is this tyre material that is used with specific flange modifications in the ATEX (a) approved variant.









Size reference	Maximum bo	re size in mm
Size reference	Taper lock bush	Bore and keyed
F40	25	32
F50	38	32
F60	45	42
F70	50	50
F80	60	60
F90	70	60
F100	80	75
F110	90	75
F120	100	100
F140	130	100
F160	140	115
F180	150	125
F200	150	125
F220	160	125
F250	190	N/A

Construction

Internal load carrying cords are wound in both directions, so there is no problem on reversing drives

Pump spacer and flywheel fixing variants available



Tyres are available in standard and FRAS (Fire Resistant Anti Static) construction. ATEX approved

Taper Lock® and pilot bore flanges





Fenaflex Coupling Selection

(a) Service Factor

Determine the required Service Factor from table below.

(b) Design Power

Multiply the normal running power by the service factor. This gives the design power which is used as a basis for selecting the coupling.

(c) Coupling Size

Refer to Power Ratings table (page 114) and from the appropriate speed read across until a power greater than that required in step (b) is found.

The size of Fenaflex coupling required is given at the head of that column.

(d) Bore Size

Check from Dimensions table (page 115) that chosen flanges can accommodate required bores.

EXAMPLE

A Fenaflex coupling is required to transmit 45kW from an A.C. electric motor which runs at 1440 rev/min to a rotary screen for 12 hours per day. The motor shaft is 60mm diameter and the screen shaft is 55mm diameter. Taper Lock is required.

(a) Service Factor

The appropriate service factor is 1.4

(b) Design Power

Design power = $45 \times 1.4 = 63 \text{kW}$

Service Factors

			Type of Dr	iving Unit		
SPECIAL CASES For applications where substantial shock, vibration and torque fluctuations occur, and for reciprocating machines (e.g. internal	Electric motors Steam turbines			Internal combus Steam engines Water turbines	stion engines†	
combustion engines, piston pumps and compressors) refer to your local Authorised Distributor with full machine details for analysis.			Hours per	day duty		
Type of Driven Machine	10 and under	Over 10 to 16 incl.	Over 16	10 and under	Over 10 to 16 incl.	Over 16
CLASS 1 Agitators, Brewing machinery, Centrifugal compressors and pumps. Belt conveyors, Dynamometers, Lineshafts, Fans up to 7.5kW. Blowers and exhausters (except positive displacement), Generators.	0.8	0.9	1.0	1.3	1.4	1.5
CLASS 2* Clay working machinery, General machine tools, paper mill beaters and winders, Rotary pumps, Rubber extruders, Rotary screens, Textile machinery, Marine propellors and Fans over 7.5kw.	1.3	1.4	1.5	1.8	1.9	2.0
CLASS 3* Bucket elevators, Cooling tower fans, Piston compressors and pumps, Foundry machinery, Metal presses, Paper mill calenders, Hammer mills, Presses and pulp grinders, Rubber calenders, Pulverisers and Positive displacement blowers.	1.8	1.9	2.0	2.3	2.4	2.5
CLASS 4* Reciprocating conveyors, Gyratory crushers, Mills (ball, pebble and rod), Rubber machinery (Banbury mixers and mills) and Vibratory screens.	2.3	2.4	2.5	2.8	2.9	3.0

^{*} It is recommended that keys (with top clearance if in Taper Lock bushes) are fitted on applications where load fluctuation is expected. † Couplings for use with internal combustion engines may require special consideration, refer to pages 117.

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Power Ratings (kw)

Speed							C	ouplings S	ize								
rev/min	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220	F250		
100	0.25	0.69	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5	65.7	97.6	121.0	154.0		
200	0.50	1.38	2.66	5.24	7.85	10.50	14.10	18.30	27.9	48.7	79.0	131.0	195.0	243.0	307.0		
300	0.75	2.07	3.99	7.85	11.80	15.70	21.20	27.50	41.8	73.0	118.0	197.0	293.0	364.0	461.0		
400	1.01	2.76	5.32	10.50	15.70	20.90	28.30	36.60	55.7	97.4	158.0	263.0	391.0	486.0	615.0		
500	1.26	3.46	6.65	13.10	19.60	26.20	35.30	45.80	69.6	122.0	197.0	328.0	488.0	607.0	768.0		
600	1.51	4.15	7.98	15.70	23.60	31.40	42.40	55.00	83.6	146.0	237.0	394.0	586.0	729.0	922.0		
700	1.76	4.84	9.31	18.30	27.50	36.60	49.50	64.10	97.5	170.0	276.0	460.0	684.0	850.0	1076.0		
720	1.81	4.98	9.57	18.80	28.30	37.70	50.90	66.00	100.0	175.0	284.0	473.0	703.0	875.0	1106.0		
800	2.01	5.53	10.60	20.90	31.40	41.90	56.50	73.30	111.0	195.0	316.0	525.0	781.0	972.0	1229.0		
900	2.26	6.22	12.00	23.60	35.30	47.10	63.60	82.50	125.0	219.0	355.0	591.0	879.0	1093.0	1383.0		
960	2.41	6.63	12.80	25.10	37.70	50.30	67.90	88.00	134.0	234.0	379.0	630.0	937.0	1166.0	1475.0		
1000	2.51	6.91	13.30	26.20	39.30	52.40	70.70	91.60	139.0	243.0	395.0	657.0	976.0	1215.0	1537.0		
1200	3.02	8.29	16.00	31.40	47.10	62.80	84.80	110.00	167.0	292.0	474.0	788.0	1172.0				
1400	3.52	9.68	18.60	36.60	55.00	73.30	99.00	128.00	195.0	341.0	553.0	919.0					
1440	3.62	9.95	19.10	37.70	56.50	75.40	102.00	132.00	201.0	351.0	568.0	945.0					
1600	4.02	11.10	21.30	41.90	62.80	83.80	113.00	147.00	223.0	390.0	632.0						
1800	4.52	12.40	23.90	47.10	70.70	94.20	127.00	165.00	251.0	438.0							
2000	5.03	13.80	26.60	52.40	78.50	105.50	141.00	183.00	279.0								
2200	5.53	15.20	29.30	57.60	86.40	115.00	155.00	202.00		The figur	rac in haavi	or type are	for etanda	rd motor			
2400	6.03	16.60	31.90	62.80	94.20	126.00	170.00			The figures in heavier type are for standard motor							
2600	6.53	18.00	34.60	68.10	102.00	136.00	184.00			speeds. All these power ratings are calculated at constant torque. For speeds below 100 rev/min and							
2800	7.04	19.40	37.20	73.30	110.00	147.00						•					
2880	7.24	19.90	38.30	75.40	113.00	151.00				interme	diate spe	eds use no	ominal tor	que rating	S.		
3000	7.54	20.70	39.90	78.50	118.00	157.00											
3600	9.05	24.90	47.90	94.20													

Physical Characteristics - Flexible Tyres

Champatonistics							C	oupling Si	ze						
Characteristics	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220	F250
Maximum speed rev/min	4,500	4,500	4,000	3,600	3,100	3,000	2,600	2,300	2,050	1,800	1,600	1,500	1,300	1,100	1,000
Nominal Torque Nm TkN	24	66	127	250	375	500	675	875	1,330	2,325	3,770	6,270	9,325	11,600	14,675
Maximum Torque Nm Tk MAX	64	160	318	487	759	1,096	1,517	2,137	3,547	5,642	9,339	16,455	23,508	33,125	42,740
Torsional Stiffness Nm/ ⁰	5	13	26	41	63	91	126	178	296	470	778	1,371	1,959	2,760	3,562
Max. parallel misalignment mm	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.7	4.2	4.8	5.3	5.8	6.6
Maximum end float mm ±	1.3	1.7	2.0	2.3	2.6	3.0	3.3	3.7	4.0	4.6	5.3	6.0	6.6	7.3	8.2
Approximate mass. kg	0.1	0.3	0.5	0.7	1.0	1.1	1.1	1.4	2.3	2.6	3.4	7.7	8.0	10.0	15.0
Alternating Torque ± Nm @ 10Hz Tkw	11	26	53	81	127	183	252	356	591	940	1,556	2,742	3,918	5,521	7,124
Resonance Factor VR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Damping Coefficient Ψ	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

Maximum torque figures should be regarded as short duration overload ratings for use in such circumstances as direct-on-line motor starting. All Fenaflex tyre couplings have an angular misalignment capacity up to 4°.

Fenaflex Tyres

Unless otherwise specified Fenaflex flexible tyres will be supplied in a natural rubber compound which is suitable for operation in temperatures –50OC to +50OC. A chloroprene compound is available which is Fire Resistant and Anti-Static (FRAS) and has greater resistance to heat and oil.

This is suitable for operation in temperatures –15OC to +70OC. For temperatures outside these ranges – consult your local Authorised Distributor

The FRAS tyre variant is used with specifically modified metal flanges to create the ATEX approved variant.

Size	Natural	FRAS
F40	033A0048	033A0068
F50	033B0048	033B0068
F60	033C0048	033C0068
F70	033D0048	033D0068
F80	033E0048	033E0068
F90	033F0048	033F0068
F100	033G0048	033G0068
F110	033H0048	033H0068
F120	033J0048	033J0068
F140	033K0048	033K0068
F160	033L0048	033L0068
F180	033Q0048	033Q0068
F200	033M0048	033M0068
F220	033N0048	033N0068
F250	033P0048	033P0068

Coupling Size	M Dimension (mm)	Gap Between Tyre Ends (mm)	Clamping Screw Torque (Nm)	Screw Size
F40*	22	2	15	M6
F50*	25	2	15	M6
F60*	33	2	15	M6
F70	23	3	24	M8
F80	25	3	24	M8
F90	27	3	40	M10
F100	27	3	40	M10
F110	25	3	40	M10
F120	29	3	50	M12
F140	32	5	55	M12
F160	30	5	80	M16
F180	46	6	105	M16
F200	45	6	120	M16
F220	55	6	165	M20
F250	59	6	165	M20

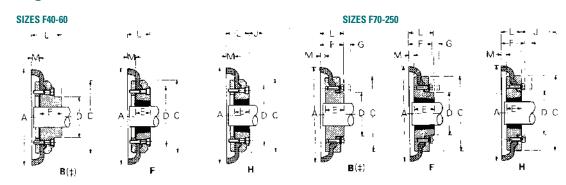
^{*}Hexagonal socket caphead clamping screws on these sizes.







Flanges



DIMENSIONS OF FENAFLEX FLANGES TYPES B, F & H

Catalogue		_	Bush	Max	Bore	Ty	/pes F &	Н	Тур	e B	Screw			_	_			Mass *	
Code ‡	Size	Туре	No.#	Metric	Inch	L	E	J†	L	E	Over Key	A	C	D	F	G §	Μ¶	(kg)	Inertia* (kgm²)
033A0501	F40	В	_	32	-	-	-	29	33.0	22	M5	104	82			-	11.0	0.8	0.00074
033A0502	F40	F	1008	25	1"	33.0	22	29	-	-	-	104	82			-	11.0	0.8	0.00074
033A0503	F40	Н	1008	25	1"	33.0	22	29	-	-	-	104	82		-	_	11.0	0.8	0.00074
033B0501	F50	В	-	38	-	-	-	38	45.0	32	M5	133	100	79		_	12.5	1.2	0.00115
033B0502	F50	F	1210	32	11/4"	38.0	25	38	-	-	-	133	100	79		_	12.5	1.2	0.00115
033B0503	F50	Н	1210	32	11/4"	38.0	25	38	-	-	-	133	100	79		_	12.5	1.2	0.00115
033C0501	F60	В	-	45	-	-	-	38	55.0	38	M6	165	125	70		_	16.5	2.0	0.0052
033C0502	F60	F	1610	42	15/8"	42.0	25	38	-	-	-	165	125	103		-	16.5	2.0	0.0052
033C0503	F60	Н	1610	42	15/8"	42.0	25	38	-	-	-	165	125	103		-	16.5	2.0	0.0052
033D0301	F70	В	-	50	-	-	-	-	47.0	35	M10	187	144	80	50	13	11.5	3.1	0.009
033D0302	F70	F	2012	50	2"	44.0	32	42	-	-	-	187	144	80	50	13	11.5	3.1	0.009
033D0303	F70	Н	1610	42	15/8"	42.0	25	38	-	-	-	187	144	80	50	13	11.5	3.0	0.009
033E0301	F80	В	-	60	-	-	-	-	55.0	42	M10	211	167	98	54	16	12.5	4.9	0.018
033E0302	F80	F	2517	60	21/2"	58.0	45	48	-	-	-	211	167	97	54	16	12.5	4.9	0.018
033E0303	F80	Н	2012	50	2"	45.0	32	42	-	-	-	211	167	98	54	16	12.5	4.6	0.017
033F0301	F90	В	_	70	-	-	-	-	63.5	49	M12	235	188	112	60	16	13.5	7.1	0.032
033F0302	F90	F	2517	60	21/2"	59.5	45	48	-	-	-	235	188	108	60	16	13.5	7.0	0.031
033F0303	F90	Н	2517	60	21/2"	59.5	45	48	-	-	-	235	188	108	60	16	13.5	7.0	0.031
033G0301	F100	В	_	80	-	-	-	-	70.5	56	M12	254	216	125	62	16	13.5	9.9	0.055
033G0302	F100	F	3020	75	3"	65.5	51	55	-	-	-	254	216	120	62	16	13.5	9.9	0.055
033G0303	F100	Н	2517	60	21/2"	59.5	45	48	-	-	-	254	216	113	62	16	13.5	9.4	0.054
033H0301	F110	В	_	90	-	-	-	-	75.5	63	M12	279	233	128	62	16	12.5	12.5	0.081
033H0302	F110	F	3020	75	3"	63.5	51	55	-	-	-	279	233	134	62	16	12.5	11.7	0.078
033H0303	F110	Н	3020	75	3"	63.5	51	55	-	-	-	279	233	134	62	16	12.5	11.7	0.078
033J0301	F120	В	-	100	-	-	-	-	84.5	70	M16	314	264	143	67	16	14.5	16.9	0.137
033J0302	F120	F	3525	100	4"	79.5	65	67	-	-	-	314	264	140	67	16	14.5	16.5	0.137
033J0303	F120	Н	3020	75	3"	65.5	51	55	-	-	-	314	264	140	67	16	14.5	15.9	0.130
033K0301	F140	В	-	130	-	-	-	-	110.5	94	M20	359	311	178	73	17	16.0	22.2	0.254
033K0302	F140	F	3525	100	4"	81.5	65	67	-	-	-	359	311	178	73	17	16.0	22.3	0.255
033K0303	F140	Н	3525	100	4"	81.5	65	67	-	-	-	359	311	178	73	17	16.0	22.3	0.255
033L0301	F160	В	-	140	-	-	-	-	117	102	M20	402	345	187	78	19	15.0	35.8	0.469
033L0302	F160	F	4030	115	41/2"	92.0	77	80	-	-	-	402	345	197	78	19	15.0	32.5	0.380
033L0303	F160	Н	4030	115	41/2"	92.0	77	80	-	-	-	402	345	197	78	19	15.0	32.5	0.380
033Q0301	F180	В	-	150	-	-	-	-	137	114	M20	470	398	200	94	19	23.0	49.1	0.871
033Q0302	F180	F	4535	125	5"	112.0	89	89	-	-	-	470	398	205	94	19	23.0	42.2	0.847
03300303	F180	Н	4535	125	5"	112.0	89	89	_	-	-	470	398	205	94	19	23.0	42.2	0.847
033M0301	F200	В	-	150	_	-	-	-	138	114	M20	508	429	200	103	19	24.0	58.2	1.301
033M0302	F200	F	4535	125	5"	113.0	89	89	-	-	-	508	429	205	103	19	24.0	53.6	1.281
033M0303	F200	Н	4535	125	5"	113.0	89	89	-	_	-	508	429	205	103	19	24.0	53.6	1.281
033N0301	F220	В	-	160	-	-	_	-	154.5	127	M20	562	474	218	118	20	27.5	79.6	2.142
033N0302	F220	F	5040	125	5"	129.5	102	92	-	-	-	562	474	223	118	20	27.5	72.0	2.104
033N0303	F220	Н	5040	125	5"	129.5	102	92	-	_	-	562	474	223	118	20	27.5	72.0	2.104
033P0301	F250	В	-	190	-	-	-	-	161.5	132	M20	628	532	254	125	25	29.5	104.0	3.505

Dimensions in millimetres unless otherwise stated.

- § G is the amount by which clamping screws need to be withdrawn to release tyre.
 † J is the wrench clearance to allow for tightening/loosening the bush on the shaft and the clamp ring screws on sizes F40. F50 and F60. The use of a shortened wrench will allow this dimension to be reduced.
 ¶ M is half the distance between flanges. Shaft ends, although normally located twice M apart, can project beyond the flanges as shown. In this event allow sufficient space between shaft ends for end float and misalignment.
 M Mass and inertia figures are for single flange with mid range bore and include clamping ring, screws and washers and half tyre.
 ‡ For pilot bore 'B' flange code as listed. Flanges are also available finish bored with keyway if required. Bore must be specified on order.
 Note: On sizes F70, 80, 100 and 120 the 'F' direction bush is larger than that in the 'H'direction.





Fenaflex[™] Spacer Coupling

Fenaflex spacer couplings consit of a Fenaflex tyre coupling (size F40-F140) plus a spacer flange assembly.

They are designed for use on applications where it is an advantage to be able to move either shaft axially without disturbing the driving or driven machine (e,g, centrifugal pump rotors), Fenaflex spacer couplings are primarily designed for standard distance between shaft end dimensions of 80, 100, 140 and 180mm.



DISTANCE BETWEEN SHAFT ENDS

									Distance	betwee	n Shaft E	nds (mm)								
0:	SN	112		SN	/116				SN	125				SN	130			SN	135	
Size	80 (100)	10	00	14	40	1	00	14	40	18	80	1-	40	1	80	14	40	1	80
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
F40	80	100	100	113	140	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F50	-	-	100	116	140	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F60	-	-	100	124	140	164	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F70	-	-	-	-	-	-	100	114	140	154	180	194	-	-	-	-	-	-	-	-
F80	-	-	-	-	-	-	100	117	140	157	180	197	-	-	-	-	-	-	-	-
F90	-	-	-	-	-	-	-	-	140	158	180	198	-	-	-	-	-	-	-	-
F100	-	-	-	-	-	-	-	-	-	-	-	-	140	158	180	198	-	-	-	-
F110	-	-	-	-	-	-	-	-	-	-	-	-	140	156	180	196	-	-	-	-
F120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	160	180	200
F140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	163	180	203

Note: Alternative distances between shaft ends may be accommodated. Consult your local Authorised Distributor

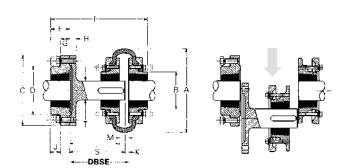
SELECTION

- 1. Select a suitable size of Fenaflex coupling using the method shown on page 113. Read down the first column in table below and locate the size of coupling selected.
- 2. Read across until the required distance between shaft ends can be accommodated.
- 3. Note the required spacer coupling designation at head of column.
- 4. Check from the Spacer Coupling Dimensions table below that the selected spacer/couplingcombination can accomodate the machine shaft size.

Note. A full specification comprises:

1 x Spacer assembly 3 x Taper Lock bushes

2 x Fenaflex flanges 1 x Fenaflex tyre



	Spacer Nom			Spacer	Max	Bore	Fenaflex	Max	Bore															Aamu
Spacer	DBSE	Fenaflex	Spacer Code	Bush Size	mm	Inch	Bush Size	mm	Inch	A	В	С	D	E	F	G	Н	J	K	L	M	S	T	Asmy wt. kgf
SM12	80	F40	033S1200	1210	32	11/4"	1008	25	1"	104	82	118	83	134	25	14	15	14	6	65	22	77	25	2.53
SM12	100	F40	033S1200	1210	32	11/4"	1008	25	1"	104	82	118	83	140	25	14	15	14	22	77	22	77	25	
SM16	100	F40*	033T1600	1610	42	15/8"	1008	25	1"	104	82	127	80	157	25	18	15	14	9	88	22	94	32	3.11
SM16	140	F40*	033V1600	1610	42	15/8"	1008	25	1"	104	82	127	80	187	25	18	15	14	9	128	22	134	32	3.29
SM16	100	F50	033T1600	1610	42	15/8"	1210	32	11/4"	133	79	127	80	160	25	18	15	14	9	85	25	94	32	3.11
SM16	140	F50	033V1600	1610	42	15/8"	1210	32	11/4"	133	79	127	80	200	25	18	15	14	9	125	25	134	32	3.29
SM16	100	F60	033T1600	1610	42	15/8"	1610	42	15/8"	165	70	127	80	161	25	18	15	14	9	78	33	94	32	3.11
SM16	140	F60	033V1600	1610	42	15/8"	1610	42	15/8"	165	70	127	80	201	25	18	15	14	9	118	33	134	32	3.29
SM25	100	F70†	033T2500	2517	60	21/2"	2012	50	2"	187	80	178	123	180	45	22	16	14	9	80	23	94	48	7.06
SM25	140	F70†	033V2500	2517	60	21/2"	2012	50	2"	187	80	178	123	220	45	22	16	14	9	120	23	134	48	8.19
SM25	180	F70†	033W2500	2517	60	21/2"	2012	50	2"	187	80	178	123	260	45	22	16	14	9	160	23	174	48	8.60
SM25	100	F80	033T2500	2517	60	21/2"	2517	60	21/2"	211	95	178	123	193	45	22	16	14	9	78	25	94	48	7.06
SM25	140	F80	033V2500	2517	60	21/2"	2517	60	21/2"	211	95	178	123	233	45	22	16	14	9	118	25	134	48	8.19
SM25	180	F80	033W2500	2517	60	21/2"	2517	60	21/2"	211	95	178	123	273	45	22	16	14	9	158	25	174	48	8.60
SM25	140	F90	033V2500	2517	60	21/2"	2517	60	21/2"	235	108	178	123	233	45	22	16	14	9	116	27	134	48	8.19
SM25	180	F90	033W2500	2517	60	21/2"	2517	60	21/2"	235	108	178	123	273	45	22	16	14	9	156	27	174	48	8.60
SM30	140	F100	033V3000	3020	75	3"	3020	75	3"	254	120	216	146	245	51	29	20	17	9	116	27	134	60	13.98
SM30	180	F100	033W3000	3020	75	3"	3020	75	3"	254	120	216	146	285	51	29	20	17	9	156	27	174	60	15.30
SM30	140	F110	033V3000	3020	75	3"	3020	75	3"	279	134	216	146	245	51	29	20	17	9	118	25	134	60	13.58
SM30	180	F110	033W3000	3020	75	3"	3020	75	3"	279	134	216	146	285	51	29	20	17	9	158	25	174	60	15.30
SM35	140	F120†	033V3500	3525	100	4"	3525	100	4"	314	140	248	178	272	63	34	20	17	9	114	29	134	80	21.94
SM35	180	F120†	033W3500	3525	100	4"	3525	100	4"	314	140	248	178	312	63	34	20	17	9	154	29	174	80	23.34
SM35	140	F140	033V3500	3525	100	4"	3525	100	4"	359	178	248	178	271	63	34	20	17	9	111	32	134	80	21.94
SM35	180	F140	033W3500	3525	100	4"	3525	100	4"	359	178	248	178	312	63	34	20	17	9	151	32	174	80	23.34



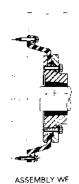


Fenaflex[™] Flywheel Coupling

Designed to fit standard SAE and other popular flywheel configurations, these couplings use chloroprene flexible elements and employ standard B, F or H type driven flanges.

Fenaflex flywheel style elements can be deployed to couple a balanced disc with Taper Lock weld-on-hub shaft fixing (effectively replacing the flywheel in the designs illustrated above) to a standard Fenaflex flange, for use at higher rotational speeds. Consult your local Authorised Distributor for details.







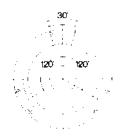


			Driving Flange - W (Bolt ring)								D	riven F	langes	- Thro	ugh Bo	re and	Taper	Lock -	F&H				
Code No	Size	PCD	Bolts Flywheel Fixing Screws *	A	н	Mass (kg)	Inertia (kgm²)	Code No	Size	Туре	Bush	Max Bore	С	D	E	F	G	J††	L	M	Screw Over Key	Mass (kg)	Inertia (kgm²)
033D0010	87	8.750"	8 off M8 x 30 lg 8 off ⁵ / ₁₈ " UNC x 1 ¹ / ₈ " lg	240	26	1.41	0.016	033D0301 033D0302 033D0303	F70 F70 F70	B F H	2012 1610	50 50 42	144 144 144	80 80 80	35 32 30	73 73 73	13 13 13	42 38	70 67 65	35 35 35	M10 - -	3.1 3.1 3.0	0.009 0.009 0.009
033E0010	96	9.625"	6 off M10 x 35 lg 6 off ³ / ₈ " UNC x 1 ³ / ₈ " lg	262	30	1.87	0.025	033E0301 033E0302 033E0303	F80 F80 F80	B F H	2517 2012	60 60 50	167 167 167	97 95 95	42 45 32	81 81 81	16 16 16	48 42	85 85 72	40 40 40	M10 - -	4.9 4.9 4.6	0.018 0.018 0.017
033R0010	112	11.250"	8 off ⁷ / ₁₆ " UNF x 1 ¹ / ₂ " lg	305	32	2.49	0.048	033G0301 033G0302 033G0303	F100 F100 F100	B F H	3020 2517	80 75 60	216 216 216	125 120 113	48 51 45	89 89 89	16 16 16	55 48	86 89 83	41 41 41	M12 -	9.9 7.0 7.0	0.055 0.031 0.031
033G0010	116		8 off M10 x 35 lg 1.625" 8 off $^{3}/_{8}$ " UNC x $^{13}/_{8}$ " lg 8 off $^{3}/_{8}$ " BSF x $^{13}/_{8}$ " lg	313	30	2.51	0.051	033G0301 033G0302 033G0302	F100 F100 F100	B F H	3020 2517	80 75 60	216 216 216	125 120 113	48 51 45	89 89 89	16 16 16	- 55 48	89 92 86	41 41 41	M12 -	9.9 9.9 9.4	0.055 0.055 0.054
033H0010	131	13.125"	8 off M10 x 45 lg 8 off ³ / ₈ " UNC x 1 ³ / ₄ " lg	351	39	3.71	0.094	033H0301 033H0302 033H0303	F110 F110 F110	B F H	3020 3020	90 75 75	233 233 233	128 134 134	63 51 51	102 102 102	16 16 16	55 55	118 106 106	55 55 55	M12 - -	12.5 11.7 11.7	0.081 0.078 0.078
033S0010	135	13.500"	6 off 3/8" UNC x 13/4" Ig	364	37	4.16	0.113	033H0301 033H0302 033H0303	F110 F110 F110	B F H	3020 3020	90 75 75	233 233 233	128 134 134	63 51 51	102 106 106	16 16 16	- 55 55	120 108 108	57 57 57	M12 -	12.5 11.7 11.7	0.081 0.078 0.078
033K0010	172	17.250"	8 off M12 x 50 lg 8 off ½" UNC x 2" lg	465	41	7.10	0.320	033K0301 033K0302 033K0303	F140 F140 F140	B F H	3525 3525	130 100 100	311 311 311	178 178 178	94 65 65	121 121 121	17 17 17	67 67	162 133 133	68 68 68	M20 -	22.2 22.3 22.3	0.254 0.254 0.255

All dimensions in millimetres unless otherwise stated.

Driving flange mass & inertia given are for the bolt ring, bolts and half of the element. Driven flange mass & inertia given are for an assembled flange having a mid range bore or bush and half the element.

J is the wrench clearance to allow for tightening/loosening the bush. A shortened wrench will allow this dimension to be reduced. Flywheel fixing screws are not a stock component but should be sourced to the above dimensions, according to thread type used in the flywheel concerned. They should be used with rectangular / square section split washers, respectively.





FENAFLEX HIGH SPEED COUPLINGS

Fenaflex flywheel style elements can be deployed to couple a balanced disc with Taper Lock weld-on-hub shaft fixing (effectively replacing the flywheel in the designs illustrated above) to a standard Fenaflex flange, for use at higher rotational speeds.

Consult your local Authorised Distributor for details.





Fenaflex[™] Elements - Physical Characteristics and Power Ratings

Coupling Size	Element Part No.	Normal Torque (Nm) Tkn	Maximum Torque (Nm) Ткмах	Maximum Alternating Torque (Nm) ± Tĸw	Resonance Factor V _R	Damping Energy Ratio Ψ	Dynamic Stiffness (Nm/rad) CT _{dyn}	Power at * 1500 rev/min (kW)	Power at * 1800 rev/min (kW)
	033D0100	239	717	155	7.0	0.9	6847	37	45
87	033D0101	478	956	238	7.0	0.9	13695	75	90
(SAE 7½)	033D0102	239	717	120	7.0	0.9	3427	37	45
	033D0105	239	717	64	7.0	0.9	1369	37	45
	033E0100	325	975	211	7.0	0.9	9311	51	61
96	033E0101	650	1300	324	7.0	0.9	18623	102	122
(SAE 8)	033E0102	325	975	163	7.0	0.9	4653	51	61
	033E0105	325	975	87	7.0	0.9	1862	51	61
	033R0100	592	1776	385	7.0	0.9	16959	93	111
112	033R0101	1184	2368	590	7.0	0.9	33922	186	223
	033R0105	592	1776	158	7.0	0.9	3392	93	111
	033G0100	592	1776	385	7.0	0.9	16961	93	111
116	033G0101	1184	2368	590	7.0	0.9	33922	186	223
(SAE 10)	033G0102	592	1776	296	7.0	0.9	8480	93	111
	033G0105	592	1776	158	7.0	0.9	3392	93	111
	033H0100	754	2262	490	7.0	0.9	21602	118	142
131	033H0101	1508	3016	751	7.0	0.9	43204	237	284
(SAE 11½)	033H0102	754	2262	377	7.0	0.9	10801	118	142
	033H0105	754	2262	201	7.0	0.9	4320	118	142
405	033S0101	1508	3016	751	7.0	0.9	43204	237	284
135	033S0105	754	2262	201	7.0	0.9	4320	118	142
	033K0100	1919	5757	1247	7.0	0.9	54979	301	362
172	033K0101	3838	7676	1912	7.0	0.9	109959	602	723
(SAE 14)	033K0102	1919	5757	960	7.0	0.9	27492	301	362
	033K0105	1919	5757	511	7.0	0.9	10996	301	362

Selection of Fenaflex flywheel couplings should take account of design power (using Service Factors on page 107 and speed, and also the torsional characteristics of the coupled machines – consult your local Authorised Distributor.

All Fenaflex[™] Couplings - Ordering Instructions

SHAFT TO SHAFT COUPLINGS USING FLEXIBLE TYRE

Consists of: 2–Flanges T/L bushes for F and H flanges only 1–Flexible tyre

EXAMPLE ORDER

Fenaflex coupling F90BH comprising: 1–F90B flange bored 70mm (coded at time of order)

1–F90H flange code 033F0303 1–2517 T/L bush (bore 35mm) code 029M0035

1–F90 Flexible tyre (Natural) code 033F0048

FENAFLEX SPACER COUPLING

Consists of:

1-standard Fenaflex coupling using B, F or H flanges as desired (2 flanges, 2 T/L Bush, 1 Flexible Tyre)

1- Spacer flange

1- Taper Lock bushes

EXAMPLE ORDER

Fenaflex spacer assembly F110FF–SM30/140 comprising:

2–F110F flanges – 033H0302

1-F110 flexible tyre - 033H0048

1–SM30 x 140mm spacer flange –033V3000 1–3020 T/L bush to suit motor shaft –029P00 1–3020 x 60mm T/L bush to suit dimension

'T' - 029P0060

1–3030 T/L bush to suit driven shaft –029Q00

FENAFLEX FLYWHEEL COUPLING

Consists of:

1-Driving (W) flange

1-Flexible element (above)

1-Driven flange

1–T/L bush to suit driven shaft (F & H driven flanges only)

EXAMPLE ORDER

Fenaflex 114 flywheel coupling comprising

1-116W flange 033G0010

1-Bolt pack 033X0203

1–Standard element 033G0100

1–F100 F flange 033G0302

1-3020 T/L bush 60mm bore 029P0060

Bolts for flywheel fixing can be supplied but are not a stock component.

consult your local Authorised Distributor.

* Power ratings at other speeds directly proportional to these values.

Reliable | Trusted | Connected



HRC Coupling

Semi-elastic General Purpose Coupling

Permitting quick and easy installation by means of Taper Lock[®] bushes, and offering quick alignment, the semi-elastic general purpose HRC coupling is ideal for use with electric motors.

Benefits

- > Offers the simplest, most straightforward fitting available
- > Ease of alignment and fitting using straight edge and machined outside diameters
- > Fail-safe design due to interacting dog design
- > Accommodates incidental misalignment
- > Exceptional performance at low cost
- > Power ratings are matched to standard motor sizes
- > Standard and FRAS elements available
- > Flywheel fixing variant available

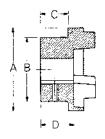


Size Reference

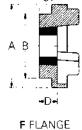
Size reference	Maximum bore size in mm					
Size reference	Taper lock bush	Bore and keyed				
70	25	32				
90	28	42				
110	42	55				
130	42	60				
150	50	70				
180	60	80				
230	75	100				
280	100	115				

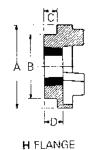


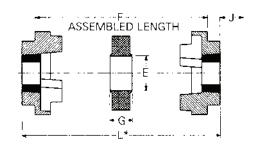




B FLANGE







PHYSICAL DIMENSIONS AND CHARACTERISTICS

		Common Dimensions			Type F & H					Туре В						
Size						Bush	Max	Bore				Bore	Dia's	Screw		
	A	В	E	F _i ‡	G	size	mm	ins.	С	D	Jt	Max.	Pilot H9	Over Key	С	D
70	69	60	31	25.0	18.0	1008	25	1"	20.0	23.5	29	32	8	M 6	20	23.5
90	85	70	32	30.5	22.5	1108	28	1 ¹ /8	19.5	23.5	29	42	10	M 6	26	30.0
110	112	100	45	45.0	29.0	1610	42	1 ⁵ /8	18.5	26.5	38	55	10	M10	37	45.0
130	130	105	50	53.0	36.0	1610	42	1 ⁵ /8	18.0	26.5	38	60	15	M10	39	47.5
150	150	115	62	60.0	40.0	2012	50	2	23.5	33.5	42	70	20	M10	46	56.0
180	180	125	77	73.0	49.0	2517	60	2 ¹ /2	34.5	46.5	48	80	25	M10	58	70.0
230	225	155	99	85.5	59.5	3020	75	3	39.5	52.5	55	100	25	M12	77	90.0
280	275	206	119	105.5	74.5	3525	100	4	51.0	66.5	67	115	30	M16	90	105.5

^{† &#}x27;J' is the wrench clearance required for tightening/loosening the bush on the shaft. A shortened wrench will allow this dimension to be reduced. ‡ F₁ refers to combinations of flanges: FF, FH, HH, FB, HB, BB.

Bore limits H7 unless otherwise specified.

PHYSICAL DIMENSIONS AND CHARACTERISTICS

Size	A Co	ssembled Length (L* mprising Flange Typ	*) ies	Mass			Maximum N	Nominal Torque	
	FF. FH. HH	FB.HB	ВВ	(kg)	(kgm²)	(Nm/º)	Parallel	Axial	(Nm)
70	65.0	65.0	65.0	1.00	0.00085	-	0.3	+0.2	31
90	69.5	76.0	82.5	1.78	0.00115	-	0.3	+0.5	80
110	82.0	100.5	119.0	5.00	0.00400	65	0.3	+0.6	160
130	89.0	110.0	131.0	5.46	0.00780	130	0.4	+0.8	315
150	107.0	129.5	152.0	7.11	0.01810	175	0.4	+0.9	600
180	142.0	165.5	189.0	16.60	0.04340	229	0.4	+1.1	950
230	164.5	202.0	239.5	26.00	0.12068	587	0.5	+1.3	2000
280	207.5	246.5	285.5	50.00	0.44653	1025	0.5	+1.7	3150

All dimensions in millimetres unless otherwise stated. **All HRC couplings have an angular misalignment capacity of up to 1º.**Mass is for an FF, FH or HH coupling with mid range Taper Lock Bushes.

ORDERING CODES

Size	Туре F	Туре Н	Type B Unbored	Standard Element Tempr40°C/+100°C	FRAS Element Tempr20°C/+80°C
70	045L0002	045L0003	045L0004	045L0009	045L0006
90	045M0002	045M0003	045M0004	045M0009	045M0006
110	045N0012	045N0013	045N0004	045N0009	045N0006
130	045P0002	045P0003	045P0004	045P0009	045P0006
150	045R0002	045R0003	045R0004	045R0009	045R0006
180	045S0002	045S0003	045S0004	045S0009	045S0006
230	045T0002	045T0003	045T0001	045T0009	045T0006
280	045U0002	045U0003	045U0001	045U0009	045U0006

Note: For details of HRC couplings suitable for application to drives involving SAE engine flywheels, consult your local Authorised Distributor. Type B flanges can be supplied finished bored to H7 tolerance with keyway, if required.

Hub material: GG25 grey cast iron.

Reliable | Trusted | Connected



Jaw Coupling

Flexible solutions providing exceptional performance and value.

Absorbing incidental misalignment, shock loads and small amplitude vibrations, Fenner® Jaw couplings offer a low cost flexible solution for most applications.

Benefits

- > Ease of alignment
- > Fail-safe shaft connection
- Range of element materials available including nitrile, urethane and Hytrel
- > Pump spacer variant available (100mm or 140mm length)
- > Quick-fit wrap around element available
- > Design powers up to 42.2kW available at 1440rpm
- > Ambient operating temperature range -50°C to +120°C
- > Pilot bore design also available

Fenner Jaw Coll

Size Reference

Maximum bore size in mm				
Bore and keyed				
9				
14				
19				
24				
24				
28				
35				
42				
48				
55				
60				

Assembly Variants

SX

Simple coupling of two close-coupled shafts using 2 x SX hubs + a spider shaped element. The element petals are connected by an inner ring to maintain location between the 'jaws' on the hubs. Urethane and Hytrel® spider elements are available to enhance the coupling power rating.

OF

On sizes 095 and above, the SX hubs are drilled/tapped for fixing a pressed steel 'ring' or sleeve. The ring retains a QF type nitrile rubber element on which the petals are joined by an outer band. Unscrewing and withdrawing the ring allows the element to be removed for replacement without disturbing the hubs. The retaining ring and elemnt are supplied together as a 'ring kit'.

QFS

Used when the machine shafts to be coupled are set apart by a DBSE (distance between shaft ends) of 100 or 140mm. This arrangement is common with centrifugal pump applications.

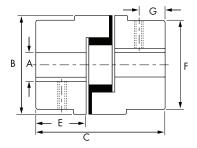
A QF coupling is used with a light alloy spacer, which is supplied complete with a second ring kit, to create a spacer coupling which is easily disassembled by removing the two elements.

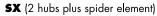


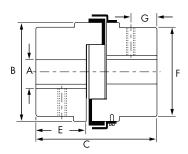




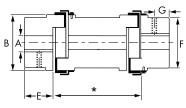
HUBS & SPACERS







QF (2 hubs plus QF ring kit)



*DBSE-100mm or 140 mm

QFS (2 hubs plus QF ring kit plus QFS spacer kit)

DIMENSIONS: SX, QF AND QFS

Pilot Bore	e:	1	A	E	3	С	E	F		Set	Approxt	Max.
Hub Code*	Size	Pilot	Max	SX	QF	·	-	ļ ⁻	G	Screw	mass (kg)	speed (rev/min)
968G0099	035	3	9	16.0	_	27	13	16.0	3.0	M3	0.03	31000
968A0099	050	6	14	27.5	_	44	16	27.5	6.5	M6	0.10	18000
968B0099	070	9	19	35.0	_	51	19	35.0	9.5	M6	0.25	14000
968C0099	075	9	24	44.5	_	54	21	44.5	8.0	M6	0.45	11000
968H0099	090	9	24	54.0	_	54	21	54.0	8.7	M6	0.55	9000
968D0099	095	9	28	54.0	64	64	25	54.0	11.5	M6	0.65	9000
968E0099	100	12	35	65.0	77	89	35	65.0	12.5	M8	1.55	7000
968F0099	110	15	42	84.0	97	108	43	84.0	20.5	M10	3.00	5000
968J0099	150	15	48	96.0	112	115	45	96.0	22.5	M10	4.85	4000
968K0099	190	19	55	115.0	130	133	54	102.0	22.5	M12	7.00	3600
968L0099	225	19	60	127.0	143	153	64	108.0	25.5	M12	9.00	3600

All dimensions in millimetres unless otherwise stated

Hub material is high grade cast iron. Spacer material is aluminium

DBSE = distance between shaft ends

[†] Mass of complete SX or QF type with pilot bore hubs * Bored or bored and keywayed hubs can be supplied.

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Triflex Coupling

Triflex Cord Reinforced Flexible Coupling

Utilising the tension force principle, Fenner® TriFlex couplings offer an efficient and cost effective alternative to traditional compression couplings. They are highly compact, lightweight and low maintenance.

Benefits

- Fenner® TriFlex Couplings are lightweight and compact
 typically one third of the weight of a traditional compression coupling
- Individual elements of the coupling can be replaced quickly without the need to move the motor or driven load
- > Drive train torque peaks can be effectively dampened
- > Precise oscillatory tuning of the whole drive train can be achieved with ease
- For special projects the stiffness of the reinforced cords in Fenner® TriFlex couplings can be individually adjusted in all directions to compensate for radial, axial and angular misalignment
- Ideal for fans, pumps, compressors and mixers and agricultural machinery as a flexible connecting element
- > ATEX certified
- > Corrosion resistant







Size Reference

	Maximum bore size in mm					
Size reference	Taper lock bush	Bore and keyed				
3FD-075	28	42				
3FD-096	42	60				
3FD-120	50	70				
3FD-140	60	80				
3FD-180	75	102				
3FD-220	100	127				



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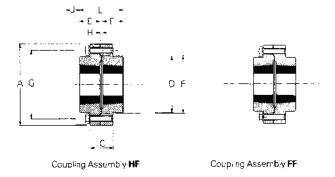
Rigid Coupling

The vital link between motor and machine

Taper Lock® Rigid Couplings provide a convenient method of rigidly connecting the ends of shafts. Taper Lock® bushes permit easier and quicker fixing to the shafts with the firmness of a shrunk-on-fit.

Benefits

- > Ease of alignment
- > Fail-safe shaft connection
- > Range of element materials available including nitrile, urethane and Hytrel
- > Pump spacer variant available (100mm or 140mm length)
- > Quick-fit wrap around element available
- > Design powers up to 42.2kW available at 1440rpm
- > Ambient operating temperature range -50°C to +120°C
- > Pilot bore design also available



CODE NUMBERS

	Catalogue	Catalogue
Size	Code HF	Code FF
RM12	039A0501	039A0502
RM16	039B0501N	039B0502N
RM25	039C0501	039C0502
RM30	039D0501N	039D0502N
RM35	039E0501N	039E0502N
RM40	039F0501N	039F0502N
RM45	039G0501N	039G0502N
RM50	039H0501N	039H0502N



Size Reference

	Maximum bore size in mm
Size reference	Taper lock bush
RM12	32
RM16	42
RM25	60
RM30	75
RM35	100
RM40	110
RM45	125
RM50	125



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Fenner® Grid

Protection Against Shaft Misalignment, Shock and Vibratory Load

Fenner® Grid Couplings are shaft-to-shaft couplings that are of compact size, yet can handle torque capacity due to their high strength hardened alloy steel construction.

The tapered grids are designed with a trapezoidal cross section and are tempered for spring hardness. Through a high-precision operation called shot peening, the surface molecules are compressed by high-velocity steel micro beads.

The compression of the molecules results in dramatic increase in strength rating and provides reserve strength for a longer part life.

Due to their compact size, the tapered grids can simply be placed directly in the slots of the hub. The practical split cover can be placed using standard tools.

Benefits

- > Protection against shaft misalignment
- Provides generous capacity for misalignment without producing the detrimental side loads on the bearings that are often created when couplings are misaligned
- > Protection against shock and vibratory loads
- Able to deflect torsionally when subject to normal or vibratory loads



KBW Type



Size Reference

Туре	Size
T10 Type T10 Large T20 Type T31 Full Spacer T35 Half Spacer T50 Floating Shaft T63 Type	1020 - 1170 1020 - 1170
KBW Type T10 & G82 Type (Floating Shaft)	1020 - 1170

Construction



Tapered Grids

Accessible through the unit's removable cover. It is extremely easy to fit the trapezoidal grids into the slots of the hub, compared to fitting rectangular grids.

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FenLock Cone Clamping Elements

Extreme Duty, High Torque Solution

FenLock cone-clamping elements provide a wide range of keyless shaft/hub fixing assemblies offering simple installation, increased shaft strength and high torque transmission capacity.

Benefits

- > Wide range of standard designs, solutions for all applications
- > Eliminates the cost and complexity of keyways.
- > Also allow the use of smaller shafts, as keyway does not weaken the shaft
- > Extensive bore range from 20mm up to 900mm
- Allows for axial and angular adjustment of mounted components
- > Excels at transmitting high torques
- > Good resistance to alternating torques
- > Simple installation and disassembly
- > Eliminates fretting corrosion
- > Easy selection based on torque and shaft diameter
- > Includes shrink disks



Size Reference	Bore size in mm
FLK200	20mm to 900mm
FLK132 + FLK133	20mm to 200mm
FLK130 + FLK131	20mm to 180mm
FLK300	6mm to 540mm
FLK250	14mm to 60mm
FLK110	6mm to 130mm
FLK603	14mm to 105mm



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Taper Lock® Bushes

Taper Lock® Four Hole Bush Simple, Universal Solution

Machined to exacting tolerances in cast iron and steel, the Fenner® Taper Lock® four hole bush has been tried and tested in over 50 million applications. It is the most successful shaft fixing in the market place today with a full range of both metric and imperial sizes as well as a full range of weld-on hubs, bolt-on hubs and hub adaptors.

Benefits

- > Ease of installation and removal
- > Equivalent to a shrink-on fit on uniform load applications and thus eliminating the cost of a key
- No costly reboring: full range of both metric and imperial available
- > Standard range fits up to 125mm/5" shafts
- > Special 4-hole feature for balanced assemblies
- Complete short reach range available, for compact lightweight assemblies
- > High grade, close grain iron (GG25) material
- > Spherodial Graphite (S.G.) iron construction on some sizes to give increase maximum bores

Weld on Hubs

- > Manufactured from steel to provide convenient means to secure fan rotors, steel pulleys, plate sprockets, impellers etc. to a shaft.
- > Shouldered outer diameter allows for easy location
- > Taper bored to receive 4 hole Taper Lock® bush sizes 1210 to 5040

Bolt on Hubs

- > A convenient means to secure fan rotors, steel pulleys, plate sprockets, impellers etc to a shaft
- > Welding not necessary
- > Taper bored to receive 4 hole Taper Lock® bush sizes 1210 to 3040

Hub Adaptors

- > For use with parallel bore eliminating the cost of drilling, tapping and taper boring
- > Keyed version also available for heavy duty applications
- > Taper bored to receive 4 hole Taper Lock® bush sizes 1008 to 4040



Size Reference Bore Sizes in mm

1008 to 5040 9 to 125

Construction



High grade, close grain iron (GG25) material

Special 4-hole feature for balanced assemblies

Spherodial Graphite (S.G.) iron construction on some sizes to give increase maximum bores

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Trantorque GTR

High Power, Critical Timing Solution

Trantorque GTR keyless bushing is the ideal solution for high power or critical timing applications. It offers a mechanical shrink-fit eliminating the problems of fretting corrosion, backlash and key wallowing.

Benefits

- > Locks and unlocks with the twist of just one nut
- > Precise radial and axial adjustment on shaft.
- > Ideal for timing components
- > Trantorque GTR is "self-centering" unlike other cone clamping units. It needs no location diameter in components to retain concentricity
- > Repair of damaged keyways, just slip Trantorque GTR over the damaged keyway to effect repair
- > Eliminates keyways thereby reducing shaft costs.
- > Also allows smaller shaft as the keyway does not weaken the shaft
- > Ambient operating temperature -34°C to +204°C



Size Reference Bore Size in mm

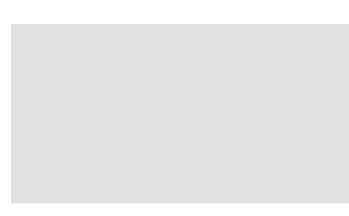
184A0105 to 184P0175 5mm to 75mm



Our Presence in Asia Pacific



Fenner® products conform to international standards, as such, we can advise that all Fenner® products comply with appropriate national and international standards in terms of design, performance and safety / environmental requirements. Where appropriate international standards (ISO) exist, these take priority over national standards. In respect of some operational safety and environmental requirements, some European standards (EN) are considered definitive worldwide.



Fenner®

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