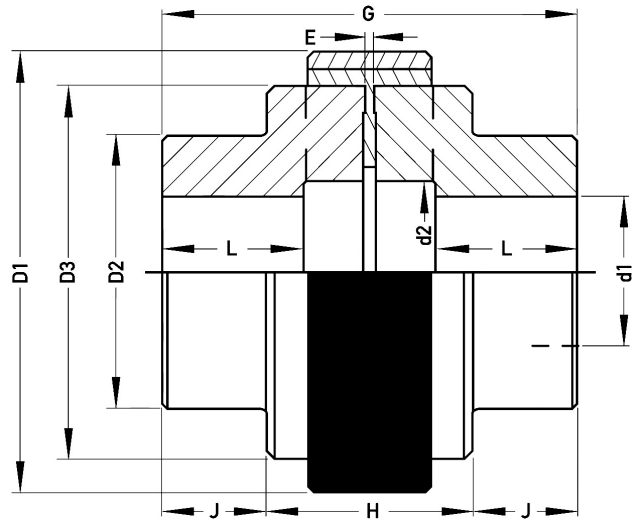
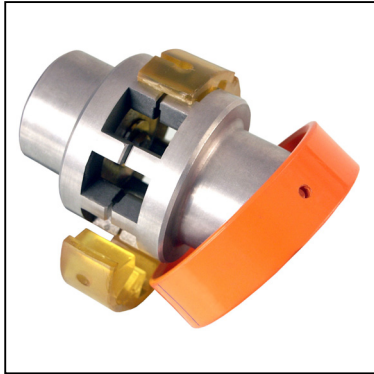


A-PB

COUPLINGS

Elastomeric Couplings



Part Number	STD Insert		HD Insert		Technical Data			Weight Kg	Displacement Values		
	Max. KW per 1000	Max. Cont. Torque Nm	Max. KW per 1000	Max. Cont. Torque Nm	Max. Speed Unbal.	Max. Speed Bal.	Moment of Inertia Kg-m ²		Axial Tolerance	Radial/Parallel	Angular Tolerance
A0-PB	6.00	56.9	-	-	8200	9000	-	1.0	+0.3	0.10	2.0
A1-PB	11.00	107.0	15	142	7250	8000	0.0012	1.8	+0.5	0.10	2.0
A2-PB	30.00	286.0	40	377	5440	6500	0.0050	3.8	+0.5	0.10	2.0
A3B-PB	60.00	569.0	78	740	4200	4800	0.0200	8.5	+0.7	0.15	2.0
A4B-PB	120.00	1139.0	163	1545	3275	3600	0.0750	16.0	+0.8	0.20	1.3
A45-PB	212.00	2014.0	275	2605	2800	3100	0.1020	19.0	+1.0	0.20	1.3
A5B-PB	303.00	2876.0	398	3772	2600	2900	0.2100	31.0	+1.0	0.20	1.3
A55-PB	358.00	3400.0	475	4500	2350	2600	0.2750	36.0	+1.0	0.20	1.3
A6-PB	485.00	4598.0	658	6242	2200	2500	0.4370	47.0	+1.0	0.20	1.3
A7-PB	966.00	9168.0	1170	11104	1900	2200	0.8250	75.0	+1.0	0.30	1.0
A8-PB	1815.00	17225.0	2205	20926	1600	1850	2.3260	137.0	+1.5	0.30	1.0
A9-PB	3023.00	28684.0	3510	33311	1350	1600	4.9500	218.0	+1.5	0.30	1.0
A10-PB	4845.00	45981.0	5663	53739	1100	1250	12.0000	350.0	+2.0	0.40	1.0
A11-PB	5895.00	55945.0	7920	75163	1100	1250	16.0000	410.0	+2.0	0.40	1.0

Part Number	Max. Bore d1	Pilot Bore	D1	D2	D3	d2	G	L	Std. 'DBSE'	Hub Gap E	H	J	Price Each Pilot Bore
A0-PB	34.9	8	65	52	52	32	73	28	17	1.5	-	-	£50.64
A1-PB	41.3	14	83	65	65	39	91	34	23	1.5	-	-	£77.35
A2-PB	53.9	17	111	80	86	45	127	47	33	2.5	55	36	£137.46
A3B-PB	69.8	19	144	105	116	52	156	56	44	2.5	65	45	£253.98
A4B-PB	95.2	24	182	135	150	70	180	63	54	3.5	85	47	£436.91
A45-PB	82.5	25	202	125	170	90	198	70	58	3.5	93	52	£555.90
A5B-PB	114.3	29	225	160	190	89	216	77	62	3.5	101	57	£740.98
A55-PB	101.6	30	250	155	215	115	246	90	66	3.5	109	68	£740.78
A6-PB	114.3	39	265	180	233	112	260	95	70	3.5	119	70	£894.94
A7-PB	139.7	48	306	205	267	135	310	116	78	4.0	134	88	£1442.94
A8-PB	150.0	63	363	242	326	157	382	147	88	5.0	154	114	£2226.70
A9-PB	180.0	73	425	280	385	188	420	162	95	5.0	162	129	£3856.58
A10-PB	210.0	96	523	330	483	218	482	188	106	6.0	192	145	£6433.49
A11-PB	210.0	96	503	350	458	216	512	190	132	6.0	216	148	£P.O.A

- 1) STD inserts will be supplied as standard unless specified. High Torque (HD) Inserts can be supplied upon request.
- 2) Maximum speeds are based on Cast Iron Hubs. Higher speeds may be attained using Ductile Iron or Steel Hubs - Consult sales.
- 3) Distance Between Shaft ends (DBSE) is based on the shafts mating flush with the end of the hub face. Short or longer shaft separations may be obtained by overhanging the shaft or hub.
- 4) Weights and Inertias are based on solid hubs.

Material

Hub: Cast iron**Insert:** Yellow polyurethane, 95 shore hardness**Holding Ring:** Polyamide (sizes A00 to A4) Steel (All other sizes)**Note:** Other materials are available on request, please ask sales for details.**Note:** Other bores sizes are available on request, up to the max. bore size stated above. Please specify your required bore size when ordering.

+44 (0)1246 455500

+44 (0)1246 455522

ondrives

sales@ondrives.com

www.ondrives.com

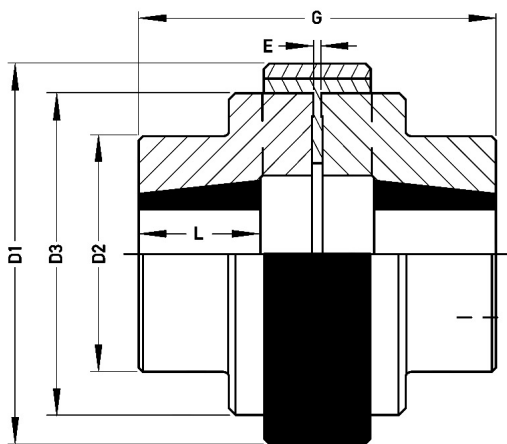
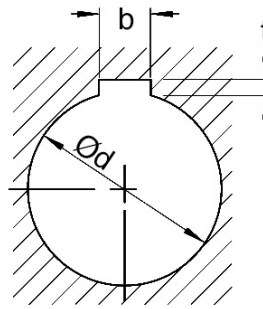
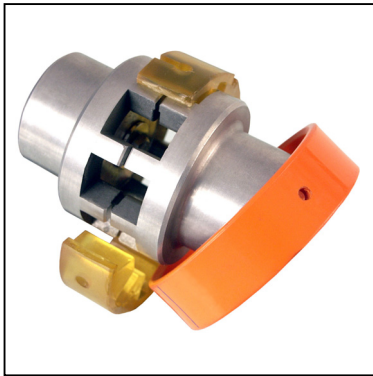
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

COUPLINGS

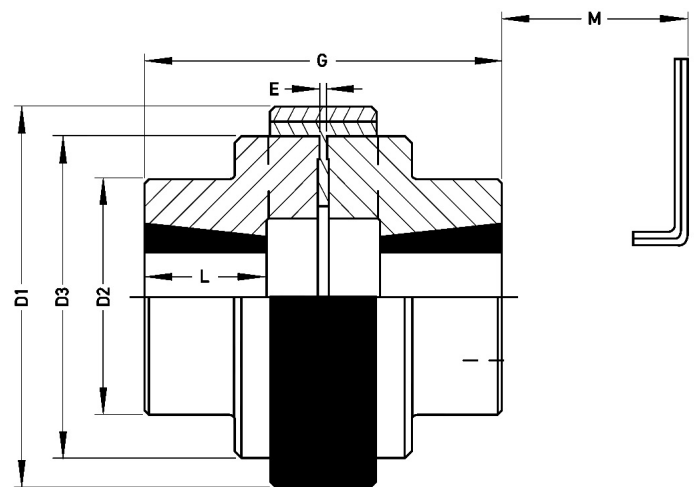
Elastomeric Couplings

Taper Bushes

A-TB
A-TBI



TBI Type



TB Type

		Dimensions - Taper Bushes																																		
d		9	10	11	12	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100	105	110	
b		3	3	4	4	5	5	6	6	6	6	8	8	8	8	8	10	10	10	12	12	14	14	14	16	18	18	20	20	22	22	25	25	28	28	28
t		1.4	1.4	1.8	1.8	2.3	2.3	2.8	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	4.3	4.4	4.4	4.9	4.9	5.4	5.4	5.4	5.4	6.4	6.4	6.4	
1108		•	•																																	
1210				•	•																															
1610						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2012						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2517							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3020													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3535																	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4545																								•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number		Taper Bush	Bore Range		L	G	E	D1	D2	D3	M	Price Each	
TB	TBI		min.	max.								TB	TBI
A1-TB	A1-TBI	1108	9	28	27	77	1.5	83	65	65	29	£187.79	£187.79
A2-TB	A2-TBI	1210	11	32	32	97	2.5	111	80	86	38	£249.13	£249.13
A3-TB	A3-TBI	1610	14	42	32	107	2.5	144	85	116	38	£354.17	£354.17
A4-TB	A4-TBI	2012	14	50	38	130	3.5	182	110	150	42	£519.15	£520.17
A45-TB	A45-TBI	2517	16	60	50	158	3.5	202	125	170	50	£755.10	£755.10
A6-TB	-	3535	35	90	95	259	3.5	265	180	233	67	£1243.62	-
A7-TB	-	4545	55	110	120	318	4.0	306	205	267	70	£1949.82	-

¹⁾ Refer to bush manufacturers for recommended torque capacity of each bush.

Material

Hub: Cast iron

Insert: Yellow polyurethane, 95 shore hardness

Holding Ring: Polyamide (sizes A1 to A4)
Steel (All other sizes)

+44 (0)1246 455500
+44 (0)1246 455522

ondrives

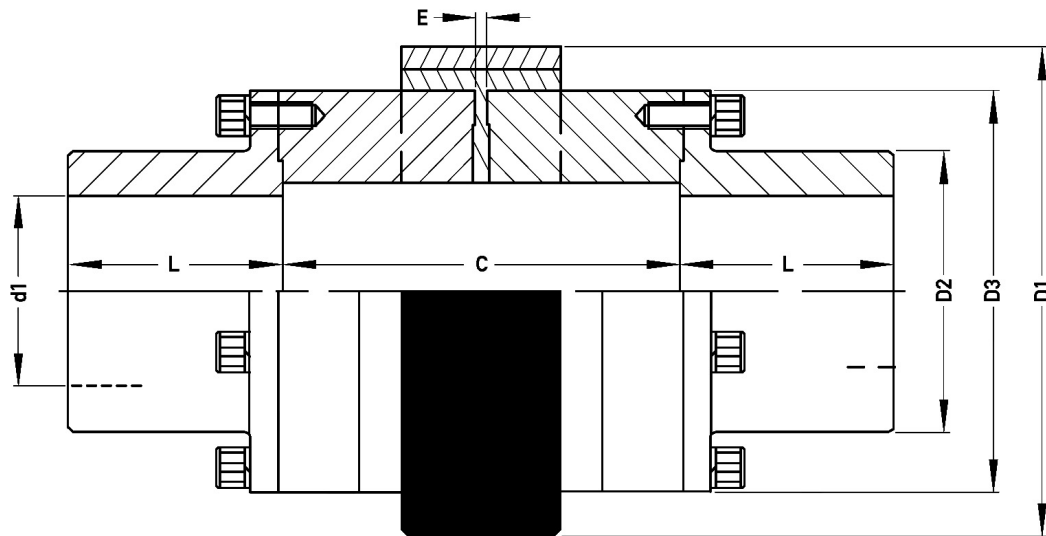
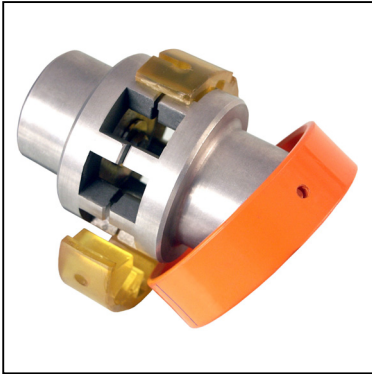
sales@ondrives.com
www.ondrives.com

A-D

COUPLINGS

Elastomeric Couplings

Spacer Coupling



Part Number	Max. KW per 1000 RPM STD Insert	Max. Bore d1	Max. Rpm	D1	D2	D3	L	C (D.B.S.E.)	Price Each
A2D-100	26	42	4100	111	60	86	60	100	£415.47
A2D-120	26	42	4100	111	60	86	60	120	£360.38
A2D-140	26	42	4100	111	60	86	60	140	£365.04
A3D-100	52	60	4100	144	88	116	70	100	£557.93
A3D-120	52	60	4100	144	88	116	70	120	£469.02
A3D-140	52	60	4100	144	88	116	70	140	£474.76
A3D-180	52	60	4100	144	88	116	70	180	£520.80
A4D-120	104	80	3600	182	110	150	85	120	£851.82
A4D-140	104	80	3600	182	110	150	85	140	£722.05
A4D-180	104	80	3600	182	110	150	85	180	£756.58
A45D-120	184	90	3100	202	125	170	95	120	£1159.87
A45D-140	184	90	3100	202	125	170	95	140	£982.48
A45D-180	184	90	3100	203	125	170	95	180	£1001.58

The drop out spacer (DO) is interchangeable with many competitive couplings. Please consult our sales team.

Material

Hub: Cast iron

Insert: Yellow polyurethane, 95 shore hardness

Holding Ring: Polyamide (sizes A2D to A4D) Steel (All other sizes)

+44 (0)1246 455500

+44 (0)1246 455522

ondrives

sales@ondrives.com

www.ondrives.com

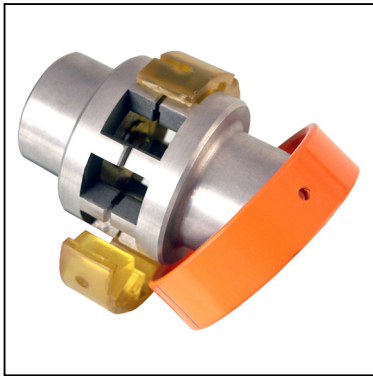
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

COUPLINGS

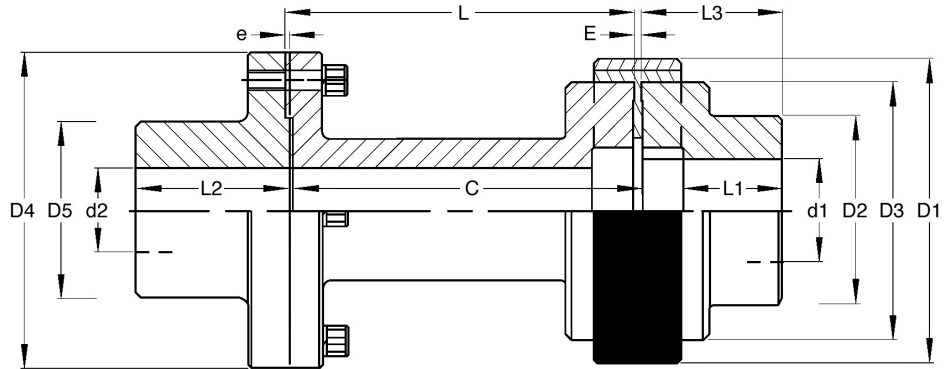
A-SP

Elastomeric Couplings

Spacer Coupling



- 1) $L = C - 1$.
2) Refer to Samiflex Coupling Type A for dimensions D2 and E.



Part Number	Max. Range		Max. Rpm	D1	D3	D4	D5	L1	L2	L3	e	C (D.B.S.E.)	Price Each
	d1	d2											
A1-SP-100	41.30	42	5500	83	65	100	67	34	45	45	2.0	100	£280.69
A1-SP-120	41.30	42	5500	83	65	100	67	34	45	45	2.0	120	£254.70
A1-SP-140	41.30	42	5500	83	65	100	67	34	45	45	2.0	140	£268.39
A2-SP-100	53.97	48	5000	111	86	120	83	47	62	62	2.0	100	£415.47
A2-SP-120	53.97	48	5000	111	86	120	83	47	62	62	2.0	120	£360.38
A2-SP-140	53.97	48	5000	111	86	120	83	47	62	62	2.0	140	£365.04
A2-SP-180	53.97	48	5000	111	86	120	83	47	62	62	2.0	180	£515.78
A3-SP-100	69.80	65	4500	144	116	140	107	56	76	76	2.5	100	£557.93
A3-SP-120	69.80	65	4500	144	116	140	107	56	76	76	2.5	120	£469.02
A3-SP-140	69.80	65	4500	144	116	140	107	56	76	76	2.5	140	£474.76
A3-SP-180	69.80	65	4500	144	116	140	107	56	76	76	2.5	180	£636.51
A4-SP-100	95.20	85	3500	182	150	178	140	63	88	88	2.5	100	£842.20
A4-SP-120	95.20	85	3500	182	150	178	140	63	88	88	2.5	120	£709.83
A4-SP-140	95.20	85	3500	182	150	178	140	63	88	88	2.5	140	£722.05
A4-SP-180	95.20	85	3500	182	150	178	140	63	88	88	2.5	180	£756.58
A45-SP-100	82.50	90	3100	202	170	200	150	70	97	97	2.5	100	£1175.58
A45-SP-120	82.50	90	3100	202	170	200	150	70	97	97	2.5	120	£966.55
A45-SP-140	82.50	90	3100	202	170	200	150	70	97	97	2.5	140	£982.48
A45-SP-180	82.50	90	3100	202	170	200	150	70	97	97	2.5	180	£1001.58
A5-SP-140	114.30	110	2900	225	190	225	179	77	106	106	2.5	140	£1473.63
A5-SP-180	114.30	110	2900	225	190	225	179	77	106	106	2.5	180	£1520.17
A5-SP-200	114.30	110	2900	225	190	225	179	77	106	106	2.5	200	£1579.47
A5-SP-250	114.30	110	2900	225	190	225	179	77	106	106	2.5	250	£1614.14
A55-SP-140	101.60	110	2600	250	215	245	180	90	121	121	3.0	140	£1533.92
A55-SP-180	101.60	110	2600	250	215	245	180	90	121	121	3.0	180	£1565.99
A55-SP-200	101.60	110	2600	250	215	245	180	90	121	121	3.0	200	£1594.15
A55-SP-250	101.60	110	2600	250	215	245	180	90	121	121	3.0	250	£2076.34
A6-SP-180	114.30	120	2500	265	233	265	198	95	128	128	3.0	180	£1811.22
A6-SP-200	114.30	120	2500	265	233	265	198	95	128	128	3.0	200	£1838.16
A6-SP-250	114.30	120	2500	265	233	265	198	95	128	128	3.0	250	£1866.82
A6-SP-280	114.30	120	2500	265	233	265	198	95	128	128	3.0	280	£2365.08
A7-SP-180	139.70	130	2200	306	267	290	230	116	153	153	3.0	180	£3372.09
A7-SP-200	139.70	130	2200	306	267	290	230	116	153	153	3.0	200	£4597.49
A7-SP-250	139.70	130	2200	306	267	290	230	116	153	153	3.0	250	£4629.35
A7-SP-280	139.70	130	2200	306	267	290	230	116	153	153	3.0	280	£4677.08

Material

Hub: Cast iron

Insert: Yellow polyurethane, 95 shore hardness

Holding Ring: Polyamide (sizes A1 to A4) Steel (All other sizes)

+44 (0)1246 455500

+44 (0)1246 455522

ondrives

sales@ondrives.com

www.ondrives.com

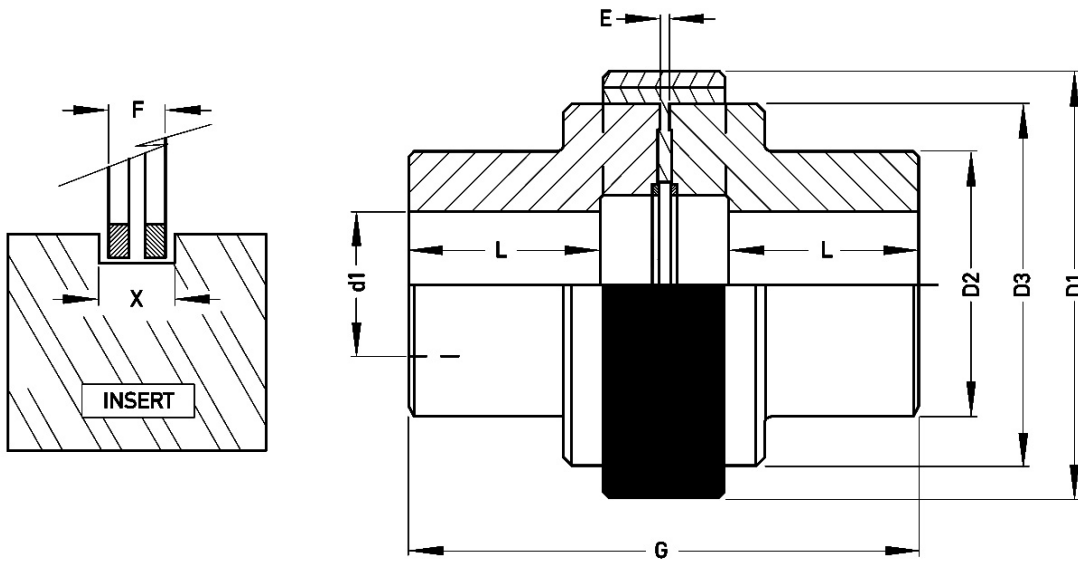
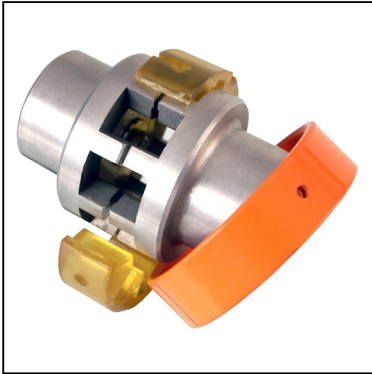
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

A-FX

COUPLINGS

Elastomeric Couplings

Limited End Float Couplings



Part Number	Max. Bore d1	D1	D2	D3	D.B.S.E.	E	G	L	F	X	Axial Float	Price Each
A4BFX	95.2	182	135	150	54	3.5	180	63	11.5	12.5	1.0	£P.O.A
A4.5FX	82.5	202	125	170	58	3.5	198	70	11.5	12.5	1.0	£P.O.A
A5BFX	114.3	225	160	190	62	3.5	216	77	14.5	16.0	1.5	£P.O.A
A55FX	101.6	250	155	215	66	3.5	246	90	14.5	16.0	1.5	£P.O.A
A6FX	114.3	265	180	233	70	3.5	260	95	18.5	20.5	2.0	£P.O.A
A7FX	139.7	306	205	267	78	4.0	310	116	18.5	20.5	2.0	£P.O.A
A8FX	150.0	363	242	326	88	5.0	382	147	21.0	24.0	3.0	£P.O.A
A9FX	180.0	425	280	385	96	5.0	420	162	21.0	24.0	3.0	£P.O.A
A10FX	210.0	523	330	483	106	6.0	482	188	22.0	26.0	4.0	£P.O.A

Material

Hub: Cast iron

Insert: Yellow polyurethane, 95 shore hardness

Holding Ring: Polyamide (size A4 only), Steel (All other sizes)

+44 (0)1246 455500

+44 (0)1246 455522

ondrives

sales@ondrives.com

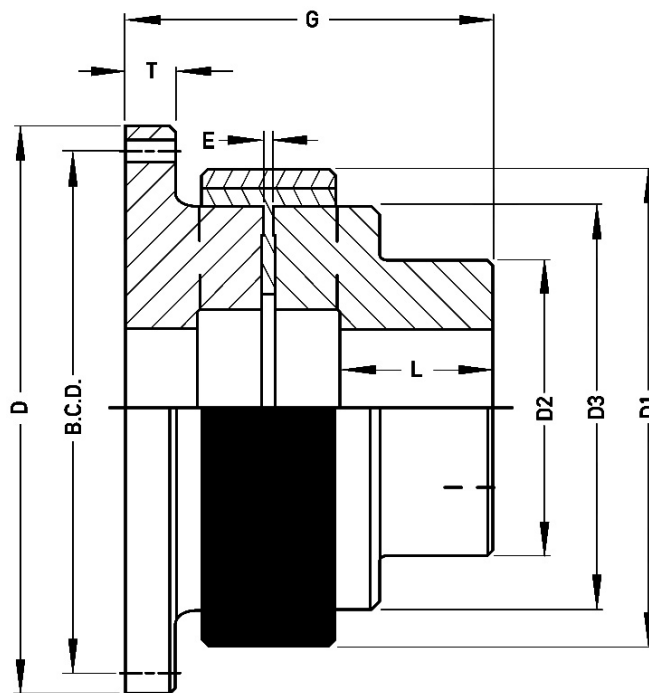
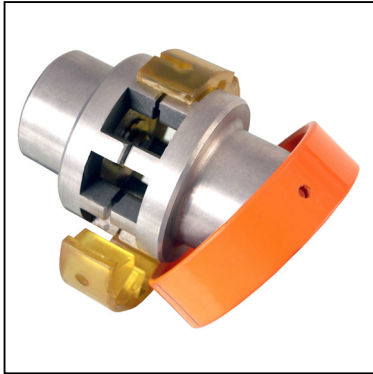
www.ondrives.com

Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

COUPLINGS

A-SAE

Elastomeric Couplings Coupling for SAE Flywheel Arrangements



Part Number	Max. Bore	SAE J620 Number	D1	D2	D3	E	G	L1	T	Price Each
A2-EB-SAE	53.97	6½", 7½", 8"	111	80	86	2.5	100	46	12	£482.93
A3-BEB-SAE	69.80	7½", 8", 10"	144	105	116	2.5	124	56	15	£621.52
A4-BEB-SAE	95.20	8", 10", 11½"	182	135	150	3.5	144	63	17	£826.80
A5-BEB-SAE	114.30	10", 11½", 14"	225	160	190	3.5	168	76	20	£1150.82
A6-EB-SAE	114.30	11½", 14", 16"	265	180	234	3.5	196	94	22	£P.O.A
A7-EB-SAE	139.70	14", 16", 18"	306	205	267	4.0	229	115	25	£P.O.A
A8-EB-SAE	150.00	16", 18", 21"	363	240	326	5.0	280	146	30	£P.O.A

- 1) For standard flywheel dimensions (D, B.C.D. and hole sizes) please consult Rino sales.
- 2) Flywheels are available in non-standard sizes please consult Rino sales.

Material

Hub: Cast iron

Insert: Yellow polyurethane, 95 shore hardness

Holding Ring: Polyamide (sizes A2 to A4), Steel (All other sizes)

+44 (0)1246 455500
+44 (0)1246 455522

ondrives

sales@ondrives.com
www.ondrives.com

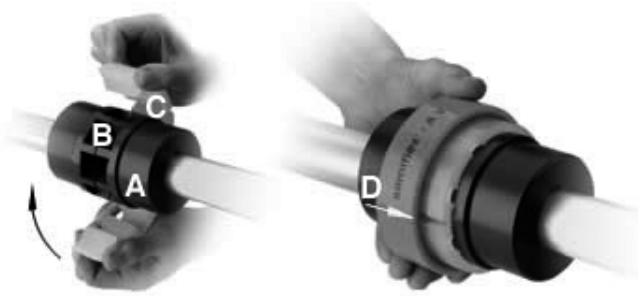
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

COUPLINGS

Elastomeric Couplings

Assembly and Features

Now there's a new solution to one of the most costly and troublesome problems facing maintenance personnel - coupling failure and the expensive down time associated with fixing it.



Only Four Parts to the Elastomeric Coupling

The two identical hubs (items A & B) are manufactured in cast iron, cast steel or aluminium alloy and incorporate four, six or eight teeth, depending on size rating of the coupling.

A precision cast and machined polyurethane insert (item C) fits between the hubs and is split axially so fitting and removal can be achieved without moving hubs.

The holding ring, manufactured in steel, polyamide or bronze (item D) is fitted over the insert securing both insert and ring between hubs. The coupling requires no bolts or nuts.

Assembly & Disassembly

Once hubs (A) and (B) and holding ring (D) have been installed and aligned on the shafts the coupling hubs will not have to be moved again during the life of the equipment.

The elastic insert (C) can then be installed between the parallel slots formed by the hub teeth.

With the insert in position, slide the retaining ring (D) into position over the polyurethane insert.

Centrifugal force will expand the insert under operation ensuring a tight, secure fit inside the retaining ring.

Removing and replacing the coupling insert is very simple and requires no special tools.

By removing the retaining ring, the insert can be quickly and easily removed and replaced without the need to undo screws, bolts or other fasteners

Features and Benefits

Coupling insert removable without the need to remove either driving or driven equipment.

Change out of coupling insert is faster than any other coupling.

No lubrication or maintenance required over the life of the insert.

The polyurethane insert can be supplied in a variety of hardnesses to optimise torque capacity and damping.

Polyurethane insert is very resistant to chemical attack.

Standard insert can handle large temperature range from -40 to 80 °C.

High temperature insert available up to 150 °C.

Hubs can be rotated independently during motor test.

No metal to metal contact.

Large bore to torque capacity.

Vertical operation possible with standard coupling.

Retaining rings provided with locking screws as standard.

T
E
C
H
N
I
C
A
L

COUPLINGS

Elastic Insert Selection and Service factors

The Samiflex elastic insert is manufactured from a special blend of polyurethane compound manufactured to best meet the demanding characteristics of a high performance elastic coupling. Samiflex elastic inserts are offered in three styles of compound and five hardness ratings allowing the most appropriate insert to be selected for the application.

The standard elastic insert is supplied at 95 shore and is a yellow colour. High performance inserts type HD and HDT are coloured ochre and red respectively and enable Samiflex torque ratings to be increased by 40% (contact Technical for details).

Insert	Ref.	Hardness	Colour	Temp. Rating	
Standard	STD	80 Shore A	Clear	-40 / 80°C	
		90 Shore A	Blue		
		95 Shore A	Yellow		
High Temp.	HT	95 Shore A	Orange	-40 / 140°C	
High Performance	HD	97 Shore A	Ochre	-40 / 80°C	
		HDT	97 Shore A	Red	-40 / 140°C
		HR	65 Shore D	Green	-40 / 140°C



Coupling Selection

Method

Data required for Coupling Selection.

- Application details (for service factor)
- Kilowatt and rpm of the driver
- Shaft details of the driving and driven equipment

(1) Determine the service factor (SF) from the application and classification lists noted below.

(2) Calculate the maximum Kw/1000 rpm rating:
 $Kw/1000\text{ rpm} = (Kw \times 1000 \times SF) / \text{rpm}$
 Select the coupling which has a higher max rating.

(3) Compare the maximum rpm capacity & bore requirements to the catalogue limits for the coupling selected.

Example

Driver: Water Turbine (75 Kw at 1500 rpm)

Driven equipment: Screw Compressor

Turbine Bore: 60 mm **Compressor Bore:** 50 mm

Distance Between Shaft Ends: 140 mm

Service Factor for the Water Turbine & Screw Compressor:
SF=2

$Kw/1000\text{ rpm} = (75\text{ Kw} \times 1000 \times 2) / 1500$
 $Kw/1000\text{ rpm} = 100$

Coupling selection based on max rating: A4B







Coupling Bore Capacity: 75 mm

Maximum Speed for the A4B: 3275 rpm unbalanced.

DBSE for the A4B Type SP: 140 mm

The A4B Type SP is acceptable in this application.

Service Factors - SF

Load Characteristics	Electric Motor, Steam Turbine, Gas Turbine	Steam Engine, Water Turbine, 8 Cyl. Recip. Engine	6 Cyl. Recip. Engine	4 Cyl. Recip. Engine
 Constant Torque eg. Centrifugal pumps, compressors & blowers, light duty agitators and fans.	1.0	1.5	2.0	2.5
 Slight Fluctuations eg. Slurry pumps, Screw compressors, Lobe and Vane Blowers.	1.5	2.0	2.5	3.0
 Moderate Fluctuations and/or Slight Shock Loads Double acting pumps, Recip. Comp.	2.0	2.5	3.0	3.5
 Large Fluctuations and/or Moderate Shock Loads 1 or 2 Cylinder Recip.pumps.	2.5	3.0	3.5	4.0
 Shock Loads or Light Torque Reversals Slitters, Rod Mill, Hot Mill	3.0	3.5	4.0	Consult Factory
 Heavy Shock Loads or Large Torque Reversals Feed Rolls, Reversing Mills	Consult Factory	Consult Factory	Consult Factory	Consult Factory

(1) Use a minimum Service Factor of 1.25 when driving through a gearbox or using a direct on-line electric motor.

(2) Consult Sales when using a reciprocating engine with fewer than 4 cylinders.

(3) Service Factors provided are for reference only. Customer experience may dictate the selection of different service factors.

L
A
C
I
N
H
C
E
T