EVOLASTIC®
Highly flexible couplings

Description of product and application

The EVOLASTIC® is a highly flexible, non-slip and backlash-free shaft and flange coupling for versatile use in a large number of main and auxiliary drives in mechanical and plant engineering.

Subject to the elastomer element pre-stressed to pressure, the coupling is able to reduce torsional vibrations in the drive train and absorb overload shocks smoothly. Structure-borne noise is efficiently damped. At the same time it offsets misalignment above average in three dimensions (axially, radially and angularly).

The key component of this series is a vulcanised, circularly closed elastomer element made of natural rubber (WN, SN, MN, up to 80 °C) or for higher temperatures made of synthetical EPDM material (WE, SE, ME, up to 100 °C). The various kinds of rubber hardness cover one application and torque range per size.

The basic variants distinguish between directly screwed types and pluggable types. They cover all convenient mounting conditions ranging from a finished individual component through hub/hub and flange/hub applications to the driving shaft. Apart from that the product portfolio allows for highly individual and flexible mounting options, tailor-made for the special application.

Technical data

Size	Elastomer type [2]	Torque [Nm] [1]				Dynamic torsion spring stiffness $C_{dyn.}$ [Nm/rad]		Relative damping ψ [-]		Perm. damping power P_{KW} [W]		Operating speed [rpm]	
		T_{KN}	T_{Kmax}	T_{Kmax1}	T_{KW}	30 °C	60 °C	30 °C	60 °C	30 °C	60 °C	n	$n_{max.}$
12	SN	100	200	300	40	900	720	0.80	0.64	25	15	4,500	5,000
	MN	120	240	360	48	1,500	1,200	1.10	0.88			5,400	6,000
24	SN	200	400	600	80	2,000	1,600	0.80	0.64	40	24	3,780	4,200
	MN	240	480	720	96	3,600	2,880	1.10	0.88			4,500	5,000
NEW 32	SN	280	560	840	112	6,500	5,200	0.80	0.64	50	30	3,800	4,200
	MN	320	640	960	128	9,500	7,600	1.10	0.88			4,500	5,000
48	SN	420	840	1,260	168	6,800	5,440	0.80	0.64	75	45	3,780	4,200
	MN	480	960	1,440	192	13,500	10,800	1.10	0.88			4,500	5,000
60	SN	500	1,000	1,500	200	4,600	3,680	0.80	0.64	80	48	3,240	3,600
	MN	600	1,200	1,800	240	7,750	6,200	1.10	0.88			3,600	4,000
86	SN	760	1,520	2,280	304	12,500	10,000	0.90	0.72	90	54	3,600	4,000
	MN	860	1,720	2,580	344	21,000	16,800	1.10	0.88			4,050	4,500
125	SN	1,100	2,200	3,300	440	8,800	7,040	0.80	0.64	120	72	2,880	3,200
	MN	1,250	2,500	3,750	500	16,000	13,600	1.10	0.88			3,240	3,600
200	SN	1,700	3,400	5,100	680	29,000	23,200	0.90	0.72	150	90	3,060	3,400
	MN	2,000	4,000	5,250	800	44,000	35,200	1.10	0.88			3,240	3,600
280	WN	2,400	4,800	6,100	960	38,000	30,400	0.70	0.56	170	102	2,700	3,000
	MN	2,800	5,600	6,100	1,120	78,000	62,400	1.10	0.88			3,060	3,400
360	WN	3,200	6,400	9,600	1,280	48,500	38,800	0.70	0.56	200	120	2,700	3,000
	SN	3,400	6,800	10,200	1,360	67,000	53,600	0.90	0.72			3,060	3,400
	MN	3,600	7,200	10,800	1,440	115,000	92,000	1.10	0.88			3,060	3,400
560	WN	5,000	10,000	14,000	2,000	73,500	58,800	0.80	0.64	240	144	2,250	2,500
	SN	5,200	10,400	14,000	2,080	105,000	84,000	1.00	0.80			2,520	2,800
	MN	5,600	11,200	14,000	2,240	138,000	110,400	1.10	0.88			2,700	3,000

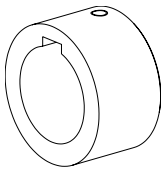
[1] T_{KN} Torque that can be constantly transmitted over the entire speed range.
T_{Kmax} Transient torque peaks (e. g. resonance passage), max. 100,000 load alternation pulsating / 50,000 load alternation vibratory
T_{Kmax1} Impact loads rarely, max. 1,000 load alternation
For selection consider DIN 740 part II (operating factor, temperature factor), parameters for an ambient temperature of 30 °C.
[2] Higher strength on request.

Types

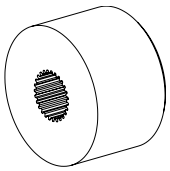
Types axially screwed+	
E	Elastomer + set of screws
EH	Elastomer + hub
E2H	Elastomer + two hubs
EFH	Elastomer + flange + hub
D2H	Two elastomers + intermediate shaft + two hubs
DFH	Two elastomers + intermediate shaft + flange and hub

Types plugged in axially	
EP	Elastomer + locking pin
EHP	Elastomer + pluggable hub
E2HP	Elastomer + two pluggable hubs
EFHP	Elastomer + flange + pluggable hub

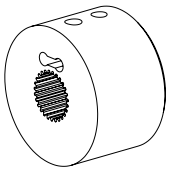
Types of hubs



Type 1.0
with feather keyway and setscrew



Type 1.3
spline toothing



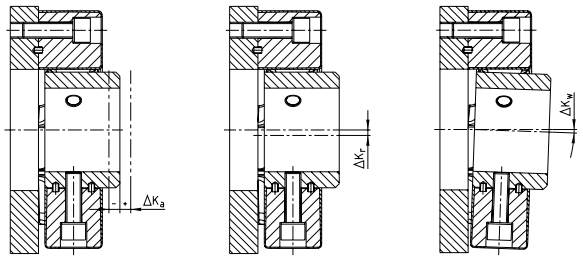
Type 3.1
spline/clamping hub N

Other hub types on request.

Examples:

- slotted clamping hub
- clamping ring hub
- taper or cylindrical press fit

Displacements / Displacement stiffness



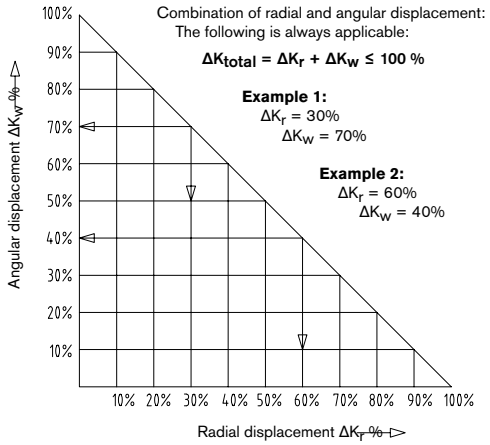
Displacements																										
Size		12		24		32		48		60		86		125		200		280		360			560		
Elastomer type		SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	WN	SN	MN	WN	SN	MN
Perm. radial displacement ΔK_r [mm]	1,500 rpm	3.6	3.6	3.6	3.6	4.5	3.6	4.5	4.5	4.5	5.4	5.4	1.3	2.5	2.0	1.8	1.4	2.5	1.4	2.3	1.8	1.6	2.3	1.8	1.6
	Max. [1]	3.0		3.0		2.0		2.0		3.0		2.0		3.0		2.0		2.0		2.0			2.0		
Perm. angular displacement ΔK_w [°]	1,500 rpm	6.0		6.0		4.0		4.0		6.0		4.0		6.0		4.0		4.0		4.0			4.0		
	Max. [1] [2]	±2.5		±3.0		±3.0		±2.5		±3.0		±3.0		±3.5		±3.0		±3.5		±4.0			±4.0		
Perm. axial displacement ΔK_a [mm]		±2.5		±3.0		±3.0		±2.5		±3.0		±3.0		±3.5		±3.0		±3.5		±4.0			±4.0		

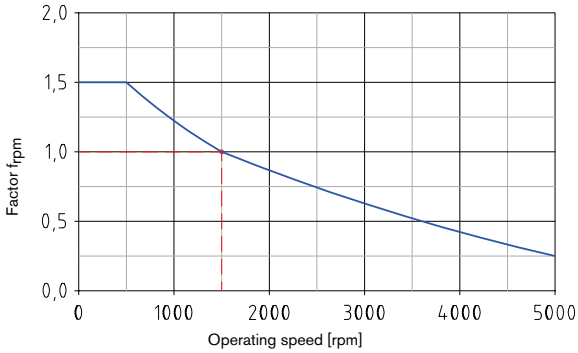
[1] For short-term start-up operation
[2] Check for cardanic free movement

The radial and angular displacement of a coupling element refers to an operating speed of 1,500 rpm. Following the graph the permissible operating displacement increases with lower speed or reduces with rising speed by the factor f_{rpm}. The combination of radial and angular displacement in an application is divided up as a percentage. The permissible displacement refers to the total of alignment and operating displacement.

Stiffnesses							
Size	Elastomer hardness	Axial stiffness C_a [N/mm]		Radial stiffness C_r [N/mm]		Angular stiffness C_w [Nm/°]	
		30 °C	60 °C	30 °C	60 °C	30 °C	60 °C
12	S	50	40	280	224	2.0	1.6
	M	70	56	400	320	3.0	2.4
24	S	70	56	400	320	4.0	3.2
	M	100	80	550	440	5.0	4.0
32	S	200	160	1,100	880	12	9.6
	M	450	360	1,700	1,360	25	20
48	S	270	216	1,000	800	10	8.0
	M	420	336	1,500	1,200	15	12
60	S	100	80	440	352	10	8.0
	M	120	96	650	520	14	11
86	S	390	312	1,300	1,040	24	19
	M	490	392	1,625	1,300	30	24
125	S	150	120	650	520	15	12
	M	200	160	920	736	22	18
200	S	420	336	1,700	1,360	45	36
	M	525	420	2,125	1,700	56	45
280	W	460	368	1,150	920	58	46
	M	800	640	2,800	2,240	95	76
360	W	450	360	1,800	1,440	66	53
	S	550	440	2,200	1,760	80	64
	M	710	568	2,500	2,000	100	80
560	W	380	304	1,950	1,560	95	76
	S	480	384	2,500	2,000	120	96
	M	620	496	3,000	2,400	150	120

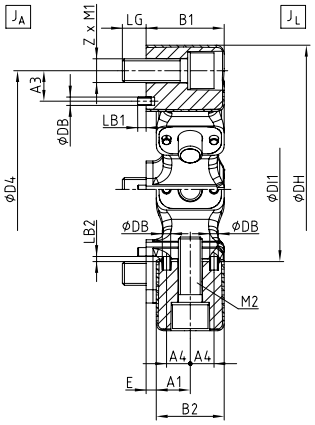
NEW





EVOLASTIC® E
Highly flexible couplings

Individual element - available in various kinds of Shore hardness



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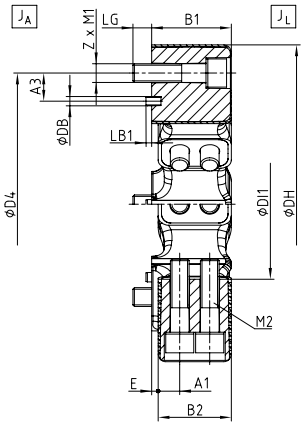

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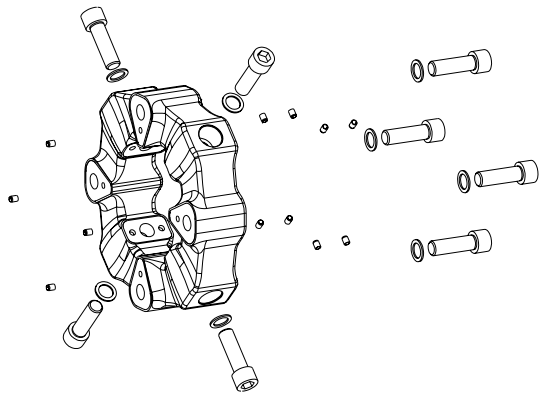


EVOLASTIC® type E																
Size	Dimensions [mm]														Mass moment of inertia [kgm²]		Weight [kg]
	DH	DI1	B1	B2	E	D4	Z x Pitch	A3	LG	LB1	DB	A1	A4	LB2	J_A	J_L	
12	122	60	32	28	4	100	3 x 120°	12	10	4	4	14.0	10.0	-	0.0005	0.0005	0.50
24	150	70	42	36	6	125	3 x 120°	18	12	4	5	18.0	13.5	5	0.0010	0.0010	0.93
NEW 32	150	70	42	36	6	125	4 x 90°	18	12	4	5	18.0	13.5	5	0.0020	0.0020	1.13
48	170	85	46	40	6	140	4 x 90°	18	14	5	5	20.0	14.0	5	0.0040	0.0030	1.55
60	200	100	58	50	8	165	3 x 120°	20	16	5	5	25.0	18.0	5	0.0070	0.0070	2.28
86	200	100	58	50	8	165	4 x 90°	20	16	5	5	25.0	18.0	5	0.0090	0.0080	2.76
125	260	125	70	63	7	215	3 x 120°	25	20	5	8	31.5	22.5	5	0.0240	0.0220	4.74
200	260	125	70	63	7	215	4 x 90°	25	20	5	8	31.5	22.5	5	0.0300	0.0280	5.79
280	300	145	80	72	8	250	4 x 90°	25	20	5	8	36.0	22.5	5	0.0550	0.0500	7.89
360	340	160	85	78	7	280	4 x 90°	30	20	6	10	2 x 23.0	-	-	0.0960	0.0950	11.50
560	363	170	105	95	10	300	4 x 90°	40	24	6	10	2 x 28.5	-	-	0.1510	0.1450	15.38

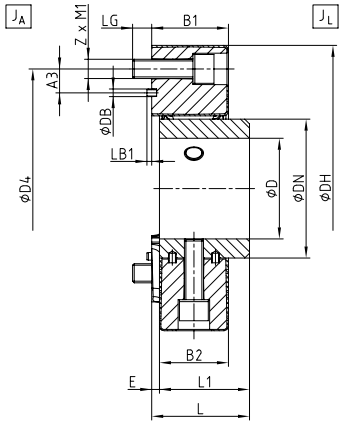
Delivery condition:
EVOLASTIC® couplings type E are supplied with a mounting kit consisting of cap screws, screw locking washers and positioning sleeves. With the connection design make sure sufficient screw-in depth.

Size	Cap screw DIN EN ISO 4762 - 12.9		Tightening torque T_A
	M1 / axial	M2 / radial	[Nm]
12	M10 x 30	M10 x 30	71
24	M12 x 35	M12 x 35	123
32	M12 x 35	M12 x 35	123
48	M14 x 40	M14 x 40	195
60	M16 x 50	M16 x 50	302
86	M16 x 50	M16 x 50	302
125	M20 x 65	M20 x 65	592
200	M20 x 65	M20 x 65	592
280	M20 x 65	M20 x 65	592
360	M20 x 80	M20 x 80	592
560	M24 x 90	M20 x 90	1,017 / 592

Ordering example:

EVOLASTIC® 48	E	S
Coupling size	Type	Elastomer hardness

Individual element + shaft connection



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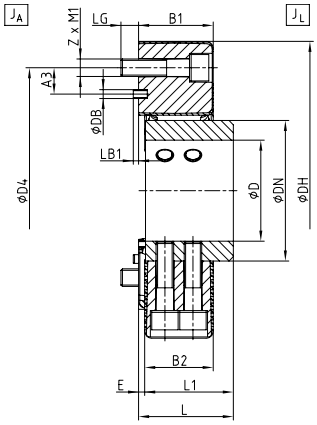

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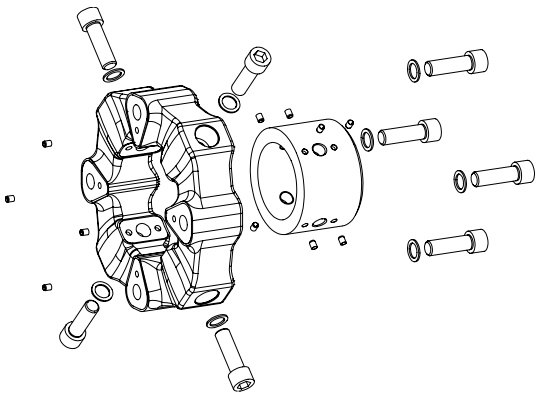


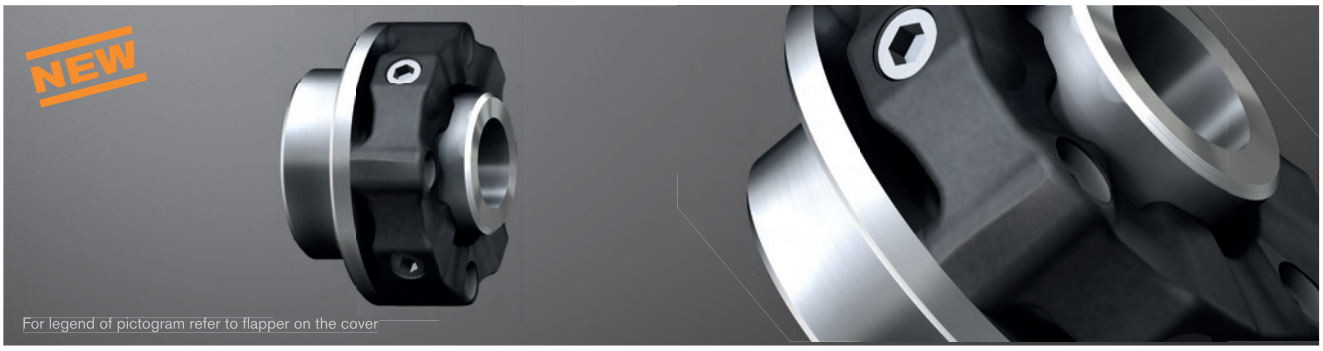
EVOLASTIC® type EH																	
Size	Dimensions [mm]															Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
	Max. finish bore D	DH	DN	B1	B2	E	L	L1	D4	Z x Pitch	M1	A3	LG	LB1	DB	J_A	J_L	
12	38	122	60	32	28	4	46	42	100	3 x 120°	M10	12	10	4	4	0.0006	0.0009	1.04
24	46	150	70	42	36	6	56	50	125	3 x 120°	M12	18	12	4	5	0.0016	0.0021	1.76
NEW 32	46	150	70	42	36	6	56	50	125	4 x 90°	M12	18	12	4	5	0.0020	0.0030	1.95
48	55	170	85	46	40	6	61	55	140	4 x 90°	M14	18	14	5	5	0.0040	0.0050	2.90
60	65	200	100	58	50	8	74	66	165	3 x 120°	M16	20	16	5	5	0.0070	0.0110	4.55
86	65	200	100	58	50	8	74	66	165	4 x 90°	M16	20	16	5	5	0.0090	0.0120	5.03
125	85	257	125	70	63	7	88	80	215	3 x 120°	M20	25	20	5	8	0.0240	0.0340	8.77
200	85	257	125	70	63	7	88	80	215	4 x 90°	M20	25	20	5	8	0.0300	0.0400	9.80
280	105	299	145	80	72	8	102	94	250	4 x 90°	M20	25	20	5	8	0.0560	0.0730	13.54
360	115	340	160	85	78	7	108	100	280	4 x 90°	M20	30	20	6	10	0.0960	0.1320	18.85
560	120	363	170	105	95	10	135	125	300	4 x 90°	M24	40	24	6	10	0.1530	0.2080	26.34

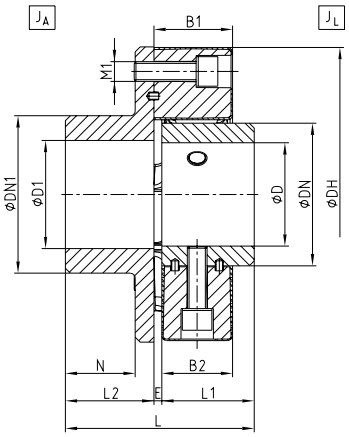
1) With max. bore

Ordering example:	EVOLASTIC® 48	EH	S	1.0	Ø52
	Coupling size	Type	Elastomer hardness	Hub type	Finish bore

EVOLASTIC® E2H
Highly flexible couplings

shaft-to-shaft connection





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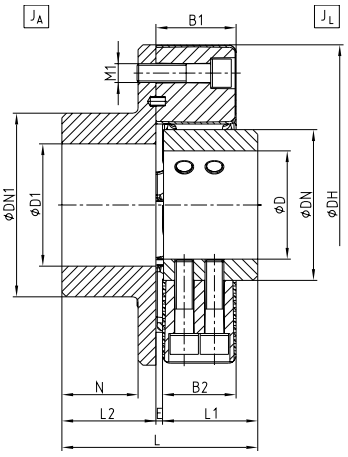

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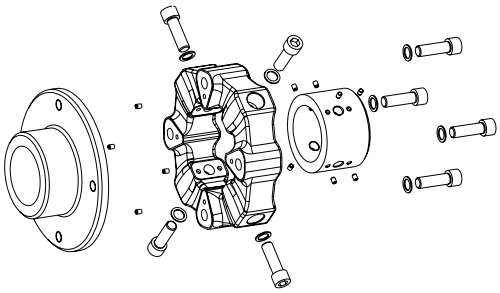


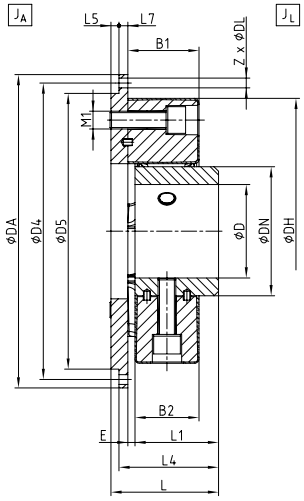
EVOLASTIC® type E2H																
Size	Dimensions [mm]													Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
	Max. finish bore		DH	DN	DN1	B1	B2	E	N	L	L1	L2	M1			
	D	D1												J_A	J_L	
12	38	55	122	60	80	32	28	4	32	88	42	42	M10	0.0030	0.0010	2.38
24	46	70	150	70	100	42	36	6	38	106	50	50	M12	0.0081	0.0021	4.22
NEW 32	46	70	150	70	100	42	36	6	38	106	50	50	M12	0.0090	0.0030	4.40
48	55	85	170	85	115	46	40	6	41	116	55	55	M14	0.0160	0.0050	6.21
60	65	100	200	100	140	58	50	8	50	140	66	66	M16	0.0360	0.0110	10.39
86	65	100	200	100	140	58	50	8	50	140	66	66	M16	0.0370	0.0120	10.83
125	85	110	260	125	160	70	63	7	60	168	80	80	M20	0.1110	0.0340	20.17
200	85	110	260	125	160	70	63	7	60	168	80	80	M20	0.1160	0.0400	21.15
280	105	110	300	145	160	80	72	8	70	192	94	90	M20	0.1960	0.0730	28.30
360	115	130	340	160	195	85	78	7	80	208	100	100	M20	0.3540	0.1320	40.66
560	120	140	370	170	200	105	95	10	100	260	125	125	M24	0.5890	0.2080	56.56

1) With max. bore

Ordering example:	EVOLASTIC® 48	E2H	S	1.0	Ø52	1.0	Ø52
	Coupling size	Type	Elastomer hardness	Hub type	Finish bore	Hub type	Finish bore

EVOLASTIC® EFH
Highly flexible couplings

flange-to-shaft connection



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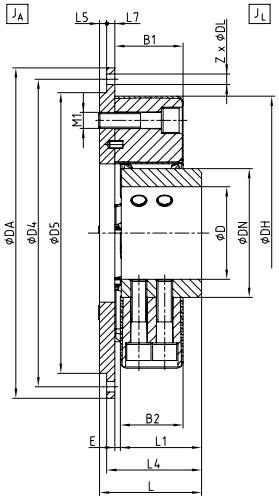

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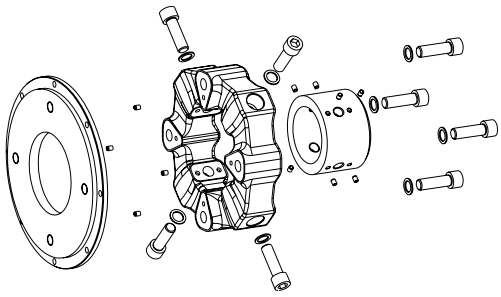


Flange dimensions according to SAE J620 [mm]				
Size	DA	D4	Z	DL
6 1/2"	215.90	200.02	6	9
7 1/2"	241.30	222.25	8	9
8"	263.52	244.47	6	11
10"	314.32	295.27	8	11
11 1/2"	352.42	333.37	8	11
14"	466.72	438.15	8	13

EVOLASTIC® type EFH

Size	Flange connection acc. to SAE - J620						Dimensions [mm]											Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
	6.5"	7.5"	8"	10"	11.5"	14"	Max. finish bore D	DH	DN	B1	B2	E	L	L1	L4	L5	L7	M1	D5	J_A	J_L	
12	●						38	122	60	32	28	4	56	42	52	4	6	M10	180	0.013	0.001	3.26
		●																	190	0.020	0.001	3.78
24	●						46	150	70	42	36	6	68	50	62	6	6	M12	180	0.016	0.002	4.26
		●																	190	0.023	0.002	4.82
NEW 32	●						46	150	70	42	36	6	68	50	62	6	6	M12	180	0.016	0.003	4.44
		●																	190	0.023	0.003	5.00
		●													67	8	6		190	0.026	0.005	6.03
48			●				55	170	85	46	40	6	75	55				M14	200	0.034	0.005	6.62
				●											71	4	10		260	0.091	0.005	9.91
60				●			65	200	100	58	50	8	90	66	84	6	10	M16	270	0.103	0.011	12.07
					●														310	0.165	0.011	14.49
86				●			65	200	100	58	50	8	90	66	84	6	10	M16	270	0.105	0.012	12.52
					●														360	0.166	0.012	14.94
125				●			85	260	125	70	63	7	107	80	98	9	10	M16	270	0.129	0.034	16.72
					●														310	0.199	0.034	19.57
				●															270	0.135	0.039	17.64
200					●		85	260	125	70	63	7	107	80	98	9	10	M20	310	0.205	0.039	20.50
						●													405	0.572	0.039	30.01
280					●		105	300	145	80	72	8	121	94	112	9	10	M20	310	0.226	0.072	23.54
						●													405	0.593	0.072	33.05
360						●	115	340	160	85	78	7	127	100	118	9	10	M20	405	0.628	0.130	37.55
560						●	120	363	170	105	95	10	160	125	145	15	10	M24	405	0.794	0.203	49.06

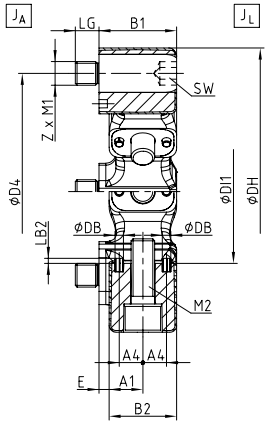
1) With max. bore

Ordering example:

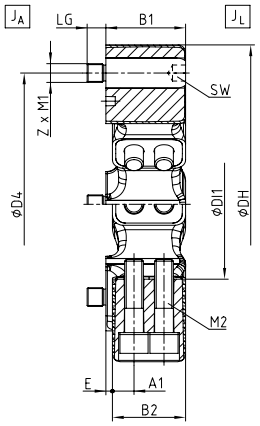
EVOLASTIC® 48	EFH	S	8	1.0	Ø52
Coupling size	Type	Elastomer hardness	Flange ØDA acc. to SAE or special	Hub type	Finish bore

EVOLASTIC® EP
Highly flexible couplings

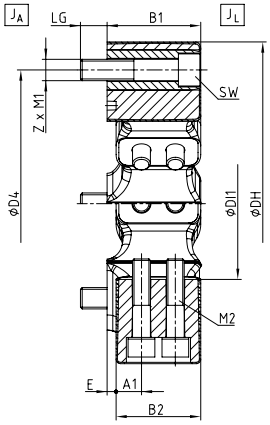
Pluggable elastomer - available in various kinds of Shore hardness



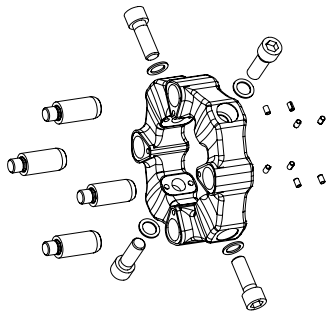
Size 12 - 280



Size 360



Size 560



	EVOLASTIC® type EP														
	Size	Dimensions [mm]												Mass moment of inertia [kgm²]		Weight [kg]
		DH	DI1	B1	B2	E	D4	Z x Pitch	LG	DB	A1	A4	LB2	J_A	J_L	
	12	122	60	32	28	4	100	3 x 120°	10	4	14.0	10.0	-	0.001	0.001	0.55
	24	150	70	42	36	6	125	3 x 120°	12	5	18.0	13.5	5	0.002	0.001	1.03
NEW	32	150	70	42	36	6	125	4 x 90°	12	5	18.0	13.5	5	0.003	0.002	1.26
	48	170	85	46	40	6	140	4 x 90°	14	5	20.0	14.0	5	0.005	0.003	1.74
	60	200	100	58	50	8	165	3 x 120°	16	5	25.0	18.0	5	0.009	0.007	1.52
	86	200	100	58	50	8	165	4 x 90°	16	5	25.0	18.0	5	0.010	0.008	3.08
	125	260	125	70	63	7	215	3 x 120°	20	8	31.5	22.5	5	0.028	0.022	5.16
	200	260	125	70	63	7	215	4 x 90°	20	8	31.5	22.5	5	0.036	0.028	6.35
NEW	280	300	145	80	72	8	250	4 x 90°	20	8	36.0	22.5	5	0.068	0.050	8.71
NEW	360	340	160	85	78	7	280	4 x 90°	20	-	2 x 23.0	-	-	0.110	0.096	12.21
NEW	560	363	170	105	95	10	300	4 x 90°	30	-	2 x 28.5	-	-	0.203	0.145	17.67

Delivery condition:
EVOLASTIC® couplings type EP are supplied with a mounting kit consisting of cap screws, screw locking washers, locking pins and positioning sleeves. With the connection design make sure sufficient screw-in depth. For the locking pin provide for an adhesive (e. g. Loctite® 243).

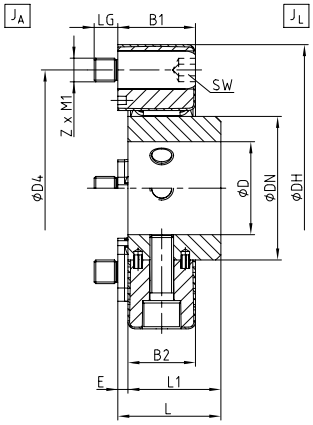
Size	Pin			Cap screw radial DIN EN ISO 4762 - 12.9	
	M1 / axial	SW	Tightening torque [Nm]	M2 / radial	Tightening torque [Nm]
12	M10	8	71	M10 x 30	71
24	M12	10	123	M12 x 35	123
32	M12	10	123	M12 x 35	123
48	M14	12	195	M14 x 40	195
60	M16	14	302	M16 x 50	302
86	M16	14	302	M16 x 50	302
125	M20	17	592	M20 x 65	592
200	M20	17	592	M20 x 65	592
280	M20	17	592	M20 x 65	592
360	M20	17	592	M20 x 80	592
560	M24	19	1017	M20 x 90	592

Ordering example:

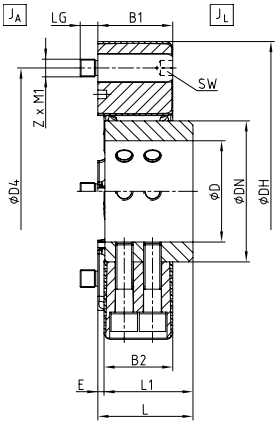
EVOLASTIC® 48	EP	S
Coupling size	Type	Elastomer hardness

EVOLASTIC® EHP
Highly flexible couplings

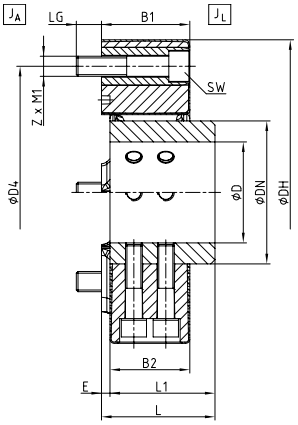
Pluggable elastomer + shaft connection



Size 12 - 280



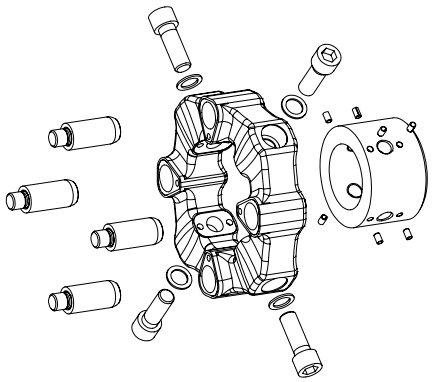
Size 360



Size 560

	EVOLASTIC® type EHP															
	Size	Dimensions [mm]													Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
		Max. finish bore D	DH	DN	B1	B2	E	L	L1	D4	Z x Pitch	LG	M1	SW	J_A	J_L	
	12	38	122	60	32	28	4	46	42	100	3 x 120°	10	M10	8	0.001	0.001	1.09
	24	46	150	70	42	36	6	56	50	125	3 x 120°	12	M12	10	0.002	0.002	1.85
NEW	32	46	150	70	42	36	6	56	50	125	4 x 90°	12	M12	10	0.003	0.003	2.08
	48	55	170	85	46	40	6	61	55	140	4 x 90°	14	M14	12	0.004	0.005	3.07
	60	65	200	100	58	50	8	74	66	165	3 x 120°	16	M16	14	0.009	0.010	4.79
	86	65	200	100	58	50	8	74	66	165	4 x 90°	16	M16	14	0.010	0.012	5.32
	125	85	260	125	70	63	7	88	80	215	3 x 120°	20	M20	17	0.028	0.024	9.15
	200	85	260	125	70	63	7	88	80	215	4 x 90°	20	M20	17	0.036	0.039	10.30
NEW	280	105	300	145	80	72	8	102	94	250	4 x 90°	20	M20	17	0.068	0.076	14.29
NEW	360	115	340	160	85	78	7	108	100	280	4 x 90°	20	M20	17	0.110	0.131	19.44
NEW	560	120	363	170	105	95	10	135	125	300	4 x 90°	30	M24	19	0.203	0.203	28.41

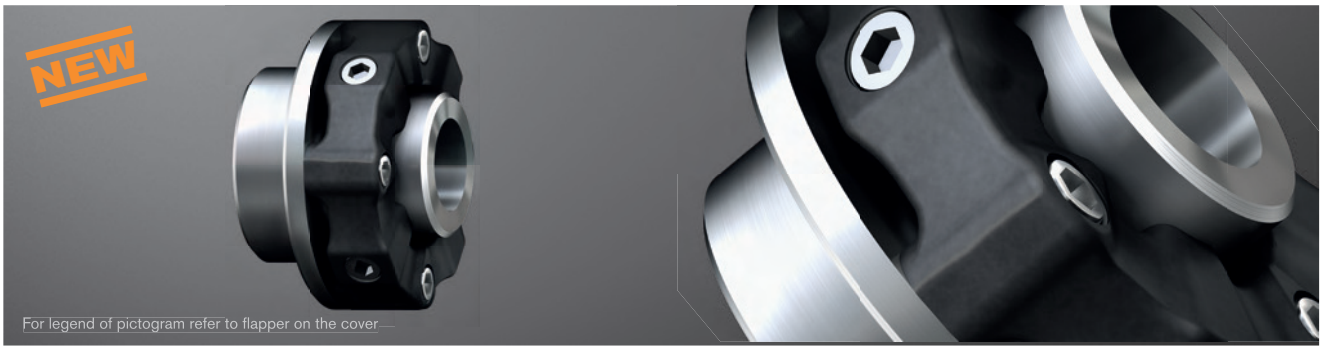
1) With max. bore

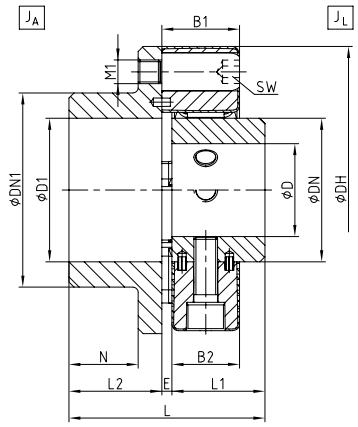


Ordering example:	EVOLASTIC® 48	EHP	S	1.0	Ø52
	Coupling size	Type	Elastomer hardness	Hub type	Finish bore

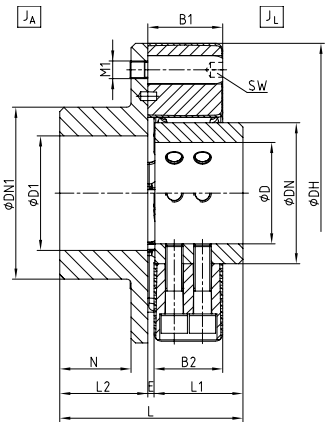
EVOLASTIC® E2HP
Highly flexible couplings

Shaft-to-shaft connection, plug-in

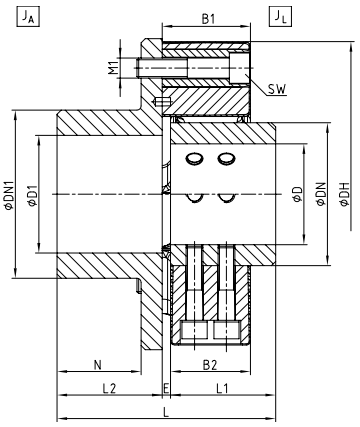




Size 12 - 280



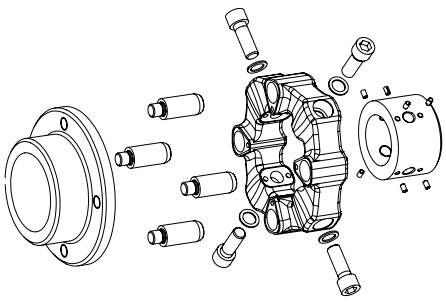
Size 360



Size 560

	EVOLASTIC® type E2HP															
	Size	Dimensions [mm]													Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
		Max. finish bore		DH	DN	DN1	B1	B2	E	N	L	L1	L2	M1	SW			
		D	D1													J_A	J_L	
	12	38	55	122	60	80	32	28	4	32	88	42	42	M10	8	0.003	0.001	2.44
	24	46	70	150	70	100	42	36	6	38	106	50	50	M12	10	0.009	0.002	4.26
NEW	32	46	70	150	70	100	42	36	6	38	105	50	50	M12	10	0.009	0.003	4.53
	48	55	85	170	85	115	46	40	6	41	116	55	55	M14	12	0.016	0.005	6.41
	60	65	100	200	100	140	58	50	8	50	140	66	66	M16	14	0.038	0.010	10.62
	86	65	100	200	100	140	58	50	8	50	140	66	66	M16	14	0.039	0.012	11.13
	125	85	110	260	125	160	70	63	7	60	168	80	80	M20	17	0.115	0.034	20.55
	200	85	110	260	125	160	70	63	7	60	168	80	80	M20	17	0.123	0.039	21.65
NEW	280	105	110	300	145	160	80	72	8	70	192	94	90	M20	17	0.208	0.073	29.05
NEW	360	115	130	340	160	195	85	78	7	80	208	100	100	M20	17	0.368	0.104	41.25
NEW	560	120	140	363	170	200	105	95	10	100	260	125	125	M24	19	0.640	0.203	58.62

1) With max. bore

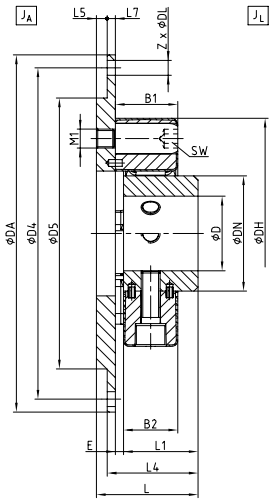


Ordering example:

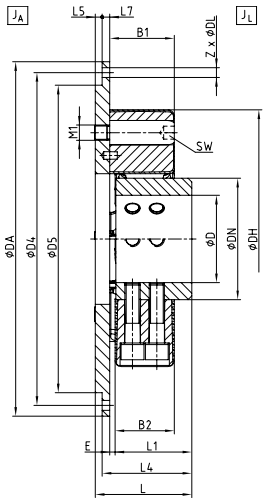
EVOLASTIC® 48	E2HP	S	1.0	Ø52	1.0	Ø52
Coupling size	Type	Elastomer hardness	Hub type	Finish bore	Hub type	Finish bore

EVOLASTIC® EFHP
Highly flexible couplings

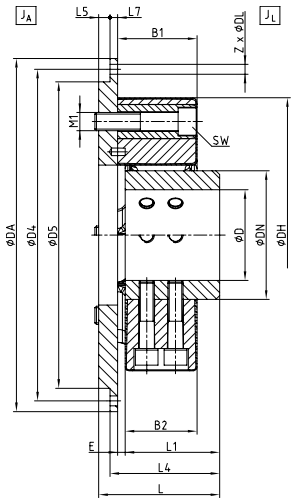
Flange-to-shaft connection, pluggable



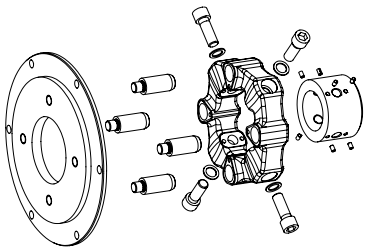
Size 12 - 280



Size 360



Size 560



Flange dimensions according to SAE J620 [mm]				
Size	DA	D4	Z	DL
6 1/2"	215.90	200.02	6	9
7 1/2"	241.30	222.25	8	9
8"	263.52	244.47	6	11
10"	314.32	295.27	8	11
11 1/2"	352.42	333.37	8	11
14"	466.72	438.15	8	13

EVOLASTIC® type EFHP

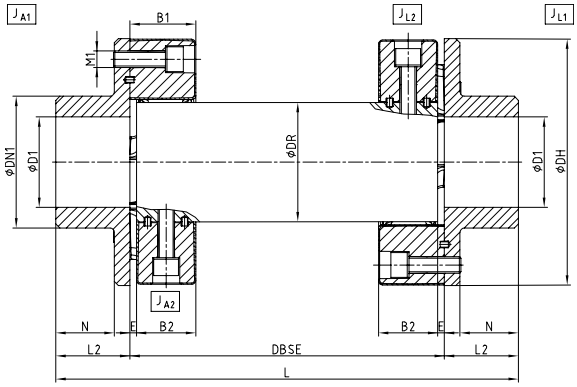
Size	Flange connection acc. to SAE - J620						Max. finish bore D	Dimensions [mm]											Mass moment of inertia [kgm²] 1)		Weight [kg] 1)
	6.5"	7.5"	8"	10"	11.5"	14"		DH	DN	B1	B2	E	L	L1	L4	L5	L7	M1	SW	D5	J_A	J_L	
12	●						38	122	60	32	28	4	56	42	52	4	6	M10	8	180	0.014	0.001	3.33
		●																		190	0.020	0.001	3.84
24	●						46	150	70	42	36	6	68	50	62	6	6	M12	10	180	0.016	0.002	4.30
		●																		190	0.249	0.002	4.86
NEW 32	●						46	150	70	42	36	6	68	50	62	6	6	M12	10	180	0.017	0.003	4.57
		●																		190	0.024	0.003	5.13
		●													67	8	6			190	0.027	0.005	6.20
48			●				55	170	85	46	40	6	75	55				M14	12	200	0.035	0.005	6.80
				●											71	4	10			260	0.091	0.005	10.09
60				●			65	200	100	58	50	8	90	66	84	6	10	M16	14	270	0.105	0.011	12.30
					●															310	0.166	0.011	14.73
86				●			65	200	100	58	50	8	90	66	84	6	10	M16	14	270	0.107	0.012	12.82
					●															310	0.168	0.012	15.24
125				●			85	260	125	70	63	7	107	80	98	9	10	M20	17	270	0.134	0.034	17.10
					●															310	0.204	0.034	19.95
				●																270	0.141	0.039	18.20
200					●		85	260	125	70	63	7	107	80	98	9	10	M20	17	310	0.212	0.039	21.06
						●														405	0.578	0.039	30.57
NEW 280					●		105	300	145	80	72	8	121	94	112	9	10	M20	17	310	0.239	0.072	24.35
						●														405	0.606	0.072	33.87
NEW 360						●	115	340	160	85	78	7	127	100	118	9	10	M20	17	405	0.642	0.130	38.25
NEW 560						●	120	363	170	105	95	10	160	125	145	15	10	M24	19	405	0.847	0.203	51.35

1) With max. bore

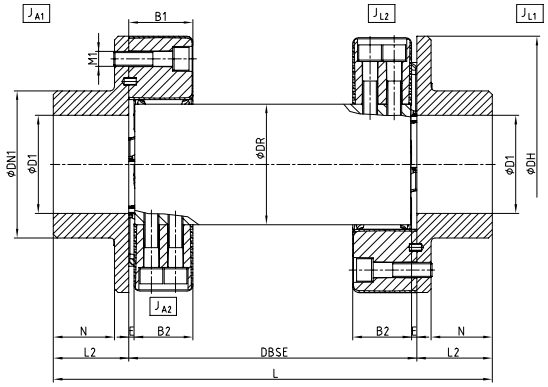
Ordering example:	EVOLASTIC® 48	EFHP	S	8	1.0	Ø55
	Coupling size	Type	Elastomer hardness	Flange ØDA acc. to SAE or special	Hub type	Finish bore

EVOLASTIC® D2H
Highly flexible couplings

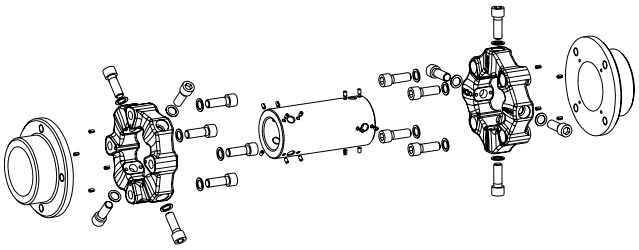
Double-cardanic shaft-to-shaft connection



Size 12 - 280



Size 360 - 560



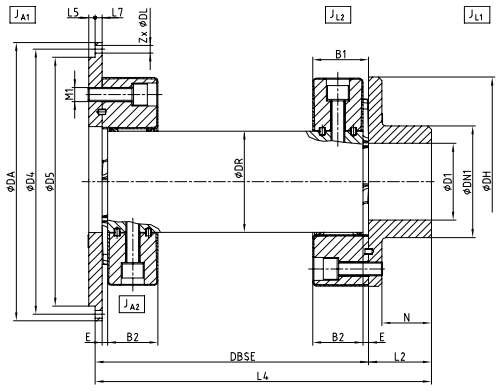
EVOLASTIC® type D2H												
Size	Dimensions [mm]										Mass moment of inertia [kgm²] 1)	
	Max. finish bore D1	DH	DN1	DR	B1	B2	E	L2	N	M1	J_{A1}	J_{L1}
12	55	122	80	60	32	28	4	42	32	M10	0.003	0.003
24	70	150	100	70	42	36	6	50	38	M12	0.008	0.008
NEW 32	70	150	100	70	42	36	6	50	38	M12	0.009	0.009
48	85	170	115	85	46	40	6	55	41	M14	0.016	0.016
60	100	200	140	100	58	50	8	66	50	M16	0.036	0.036
86	100	200	140	100	58	50	8	66	50	M16	0.037	0.037
125	110	260	160	125	70	63	7	80	60	M20	0.111	0.111
200	110	260	160	125	70	63	7	80	60	M20	0.116	0.116
280	110	300	160	145	80	72	8	94	70	M20	0.196	0.196
360	130	340	195	160	85	78	7	100	80	M20	0.354	0.354
560	140	370	200	170	105	95	10	125	100	M24	0.589	0.589

1) With max. bore
Dimension L and DBSE as well as total weight depend on the mounting length
Mass moments JA2 and JL2 depend on the mounting length and are available on request

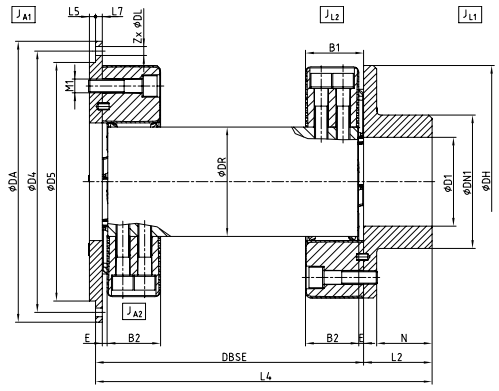
Ordering example:

EVOLASTIC® 48	D2H	140	S	1.0	Ø52	1.0	Ø52
Coupling size	Type	Shaft distance DBSE	Elastomer hardness	Hub type	Finish bore	Hub type	Finish bore

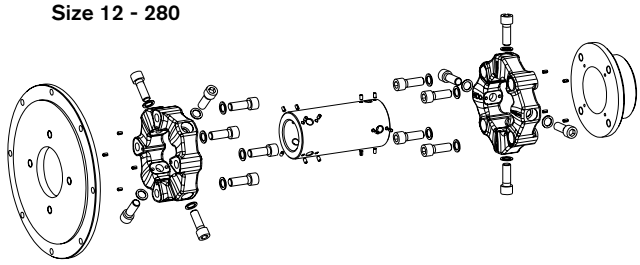
Double-cardanic flange-to-shaft connection



Size 12 - 280



Size 360 - 560



Flange dimensions according to SAE J620 [mm]				
Size	DA	D4	Z	DL
6 ½"	215.90	200.02	6	9
7 ½"	241.30	222.25	8	9
8"	263.52	244.47	6	11
10"	314.32	295.27	8	11
11 ½"	352.42	333.37	8	11
14"	466.72	438.15	8	13

EVOLASTIC® type DFH

Size	Flange connection acc. to SAE - J620						Dimensions [mm]											Mass moment of inertia [kgm²] [1]	
	6.5"	7.5"	8"	10"	11.5"	14"	Max. finish bore D1	DH	DN1	DR	B1	B2	E	L5	L7	L2	N	M1	D5	JA1	JL1
12	●						55	122	80	60	32	28	4	4	6	42	32	M10	180	0.013	0.003
		●																	190	0.020	
24	●						70	150	100	70	42	36	6	6	6	50	38	M12	180	0.016	0.008
		●																	190	0.023	
NEW 32	●						70	150	100	70	42	36	6	6	6	50	38	M12	180	0.016	0.009
		●																	190	0.023	
		●																	190	0.026	
48			●				85	170	115	85	46	40	6	8	6	55	41	M14	200	0.034	0.016
				●										4	10				260	0.091	
60				●			100	200	140	100	58	50	8	6	10	66	50	M16	270	0.103	0.036
					●														310	0.165	
86				●			100	200	140	100	58	50	8	6	10	66	50	M16	270	0.105	0.037
					●														310	0.166	
125				●			110	260	160	125	70	63	7	9	10	80	60	M20	270	0.129	0.111
					●														310	0.199	
200				●			110	260	160	125	70	63	7	9	10	80	60	M20	270	0.135	
					●														310	0.205	0.116
						●													405	0.572	
280					●		110	300	160	145	80	72	8	9	10	94	70	M20	310	0.226	0.196
						●													405	0.593	
360						●	130	340	195	160	85	78	7	9	10	100	80	M20	405	0.628	0.354
560						●	140	370	200	170	105	95	10	15	10	125	100	M24	405	0.794	0.589

[1] With max. bore
Dimension L4 and DBSE as well as total weight depend on the mounting length
Mass moments JA2 and JL2 depend on the mounting length and are available on request

Ordering example:

EVOLASTIC® 48	DFH	140	S	8	1.0	Ø52
Coupling size	Type	Shaft distance DBSE	Elastomer hardness	Flange ØDA acc. to SAE or special	Hub type	Finish bore