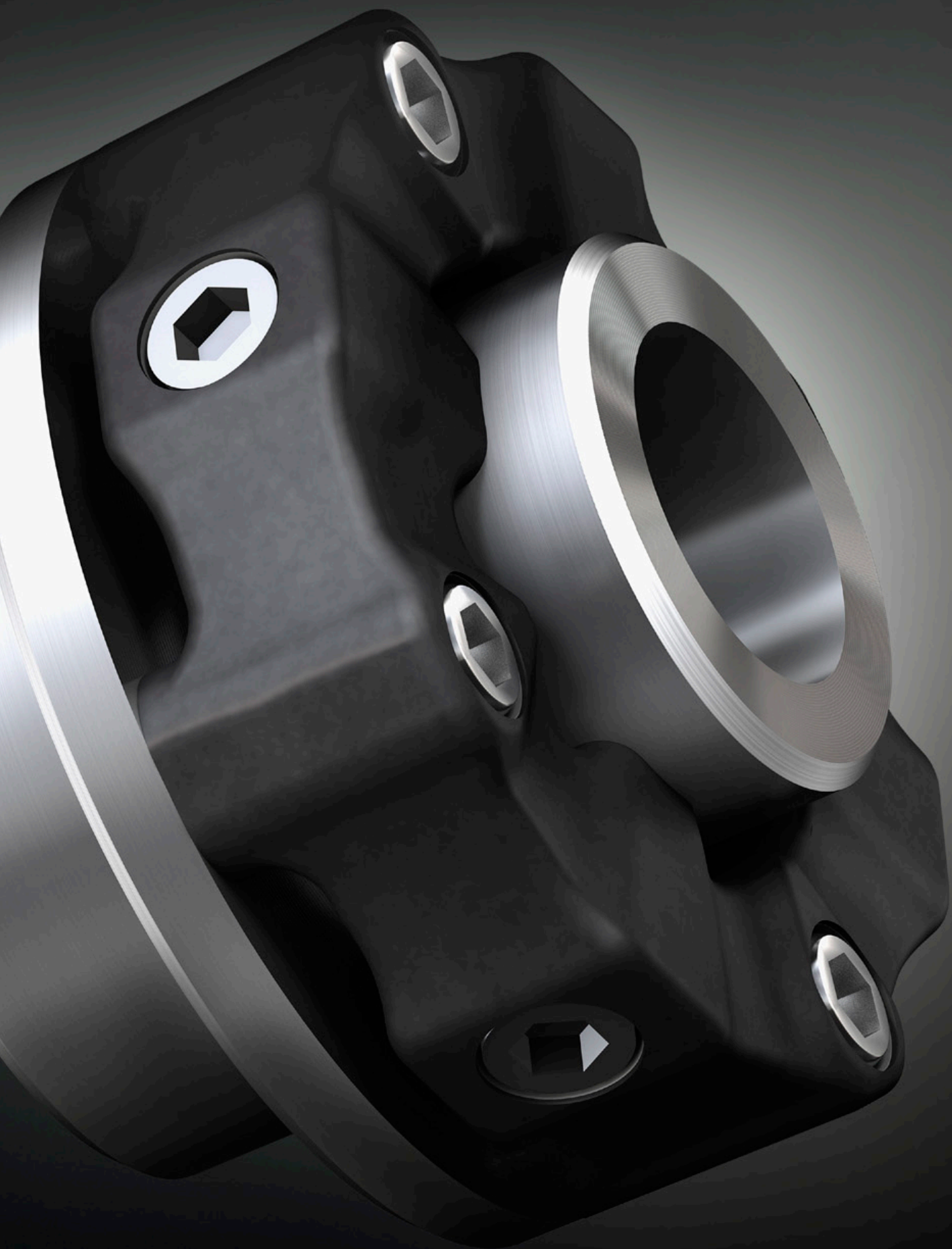




Highly flexible shaft couplings

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Type HEW Compact	206

Highly flexible
shaft couplings

EVOLASTIC®



BoWex-ELASTIC® HEW Compact



HIGHLY FLEXIBLE SHAFT COUPLINGS

TYPES AND OPERATING DESCRIPTION

Properties of highly flexible shaft couplings

		
Product	EVOLASTIC®	BoWex® HEW Compact
Type	Highly flexible jaw coupling	Highly flexible gear coupling
Features		
Highly flexible	●	●
Damping vibrations	●	
Maintenance-free	●	●
Axial plug-in	●	●
Shear type		●
Fail-safe	●	
Compensating for misalignment	●	●
Types		
Variant diversity	very high	medium
Special features	compensating for high displacements, compact design single- and double-cardanic	low restoring forces, compact design, single-cardanic
Applications / core industries	flexible all-rounder coupling for applications, among other things, in mechanical and plant engineering as well as agricultural machinery	rotation-critical applications such as screw compressors, piston compressors or transfer pumps
Torque range T_{KN} [Nm]		
Min.	100	200
Max.	5,600	8,400
Max. circumferential speed v [m/s]		
Steel + cast EN-GJS (dynamic balancing)	60	50
Hub materials available		
Steel (semi-finished product) » customised solutions available	●	●
Stainless steel	○	○
Corrosion-protected types	○	○
Elastomers		
Material	NR + EPDM	NR + EPDM
Degree of hardness	W, S, M	40 - 70 Shore A
Temperature range in [°C] min./ max. (NR)	-40 / +100	-40 / +100
Temperature range in [°C] min./max. (EPDM)	-30 / +120	-30 / +120

● ≈ Standard
○ ≈ On request

HIGHLY FLEXIBLE SHAFT COUPLINGS

TYPES AND OPERATING DESCRIPTION

Product finder for highly flexible shaft couplings

		
Product	EVOLASTIC®	BoWex® HEW Compact
Type	Highly flexible jaw coupling	Highly flexible gear coupling
Geometries		
Design	very short	short
Mass moment of inertia	low	low
Shaft distance dimension	small to large (depending on design)	low
Types (extract)		
Elastomers can be radially disassembled » without displacing driving/driven side	D2H, DFH	–
shaft-to-shaft connection	EH, E2H, EHP, E2HP	Standard
flange-to-shaft connection	EFH, EFHP, DFH	–
Double-cardanic » compensating for big displacements, lower restoring forces » bridging bigger shaft distances	D2H, DFH	–
Certifications / type examinations		
ATEX 	○	●
GOST R / GOST TR 	○	●
DNV/GL 	○	●
Bureau Veritas 	○	●

● = Standard
○ = On request

EVOLASTIC®

Highly flexible couplings

Description of product and application

The EVOLASTIC® is a highly flexible, failure-protected 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 pre-stressed to pressure, the coupling is able to reduce and dampen torsional vibrations in the drive train and absorb overload shocks smoothly. Axial, radial and angular displacements are well balanced by the coupling.

The key component of this series is a vulcanised, circularly closed elastomer made of natural rubber (WN, SN, MN, up to 100 °C) or for higher temperatures made of synthetical EPDM material (WE, SE, ME, up to 120 °C).

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]				Perm. speed [rpm]	Perm. damping power P _{KW} [W]		Dynamic torsion spring stiffness C _{dyn} [Nm/rad]		Relative damping ψ [-]		Radial spring stiffness Cr [N/mm]	
		TKN ¹⁾	TK _{max} 50,000 load alternations[Nm]	TK _{max} 1,000 load alternations[Nm]	TK _W									
							η _{max}	30 °C	60 °C	30 °C	60 °C	30 °C	60 °C	30 °C
12	SN	100	200	300	40	5,000	25	15	900	720	0.80	0.64	280	224
	MN	120	240	360	48	6,000			1,500	1,200	1.10	0.88	400	320
24	SN	200	400	600	80	4,200	40	24	2,000	1,600	0.80	0.64	400	320
	MN	240	480	720	96	5,000			3,600	2,880	1.10	0.88	550	440
32	SN	280	560	840	112	4,200	50	30	6,500	5,200	0.80	0.64	1,100	880
	MN	320	640	960	128	5,000			9,500	7,600	1.10	0.88	1,700	1,360
48	SN	420	840	1,260	168	4,200	75	45	6,800	5,440	0.80	0.64	1,000	800
	MN	480	960	1,440	192	5,000			13,500	10,800	1.10	0.88	1,500	1,200
60	SN	500	1,000	1,500	200	3,600	80	48	4,600	3,680	0.80	0.64	440	352
	MN	600	1,200	1,800	240	4,000			7,750	6,200	1.10	0.88	650	520
86	SN	760	1,520	2,280	304	4,000	90	54	12,500	10,000	0.90	0.72	1,300	1,040
	MN	860	1,720	2,580	344	4,500			21,000	16,800	1.10	0.88	1,625	1,300
125	SN	1,100	2,200	3,300	440	3,200	120	72	8,800	7,040	0.80	0.64	650	520
	MN	1,250	2,500	3,750	500	3,600			16,000	13,600	1.10	0.88	920	736
200	SN	1,700	3,400	5,100	680	3,400	150	90	29,000	23,200	0.90	0.72	1,700	1,360
	MN	2,000	4,000	6,000	800	3,600			44,000	35,200	1.10	0.88	2,125	1,700
280	WN	2,400	4,800	7,200	960	3,000	170	102	38,000	30,400	0.70	0.56	1,150	920
	MN	2,800	5,600	8,400	1,120	3,400			78,000	62,400	1.10	0.88	2,800	2,240
360	WN	3,200	6,400	9,600	1,280	3,000	200	120	48,500	38,800	0.70	0.56	1,800	1,440
	SN	3,400	6,800	10,200	1,360	3,400			67,000	53,600	0.90	0.72	2,200	1,760
560	MN	3,600	7,200	10,800	1,440	3,400	240	144	115,000	92,000	1.10	0.88	2,500	2,000
	WN	5,000	10,000	14,000	2,000	2,500			73,500	58,800	0.80	0.64	1,950	1,560
SN	5,200	10,400	14,000	2,080	2,800	105,000			84,000	1.00	0.80	2,500	2,000	
	MN	5,600	11,200	14,000	2,240	3,000			138,000	110,400	1.10	0.88	3,000	2,400

¹⁾ TKN Torque that can be constantly transmitted over the entire speed range.

Observe with selection DIN 740 part II (operating factor, temperature factor), parameters for an ambient temperature of 30 °C

²⁾ Other types of elastomers available on request

Types

Types axially screwed+	
E	Elastomer + set of screws
EH	Elastomer + hub (radial)
E2H	Elastomer + two hubs (1x axial / 1x radial)
EFH	Elastomer + flange + hub (radial)
D2H	Two elastomers + intermediate shaft + two hubs (axial)
DFH	Two elastomers + intermediate shaft + flange and hub (axial)



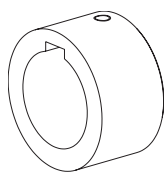
Types plugged in axially	
EP	Elastomer (pluggable) + locking pin (radial)
EHP	Elastomer (pluggable) + hub (radial)
E2HP	Elastomer (pluggable) + two hubs (1x axial / 1x radial)
EFHP	Elastomer (pluggable) + flange + hub (radial)



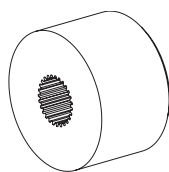
EVOLASTIC®

Highly flexible couplings

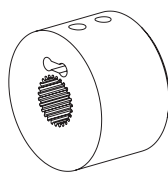
Types of hubs



Type 1.0
with feather keyway
and setscrew



Type 1.3
spline toothing



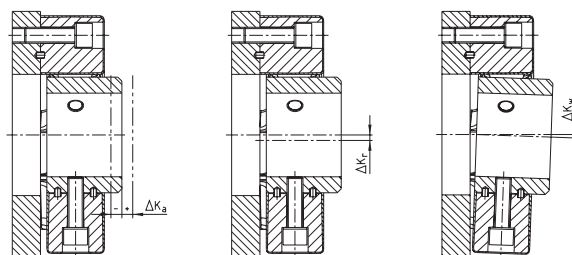
Type 3.1
spline/clamping hub N

Other hub types on request.

Examples:

- slotted clamping hub
- taper or cylindrical press fit

Displacements / Displacement stiffness

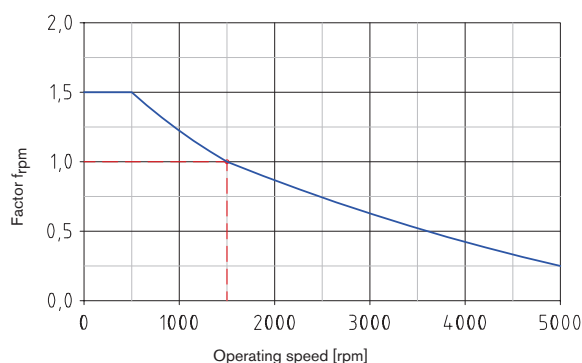
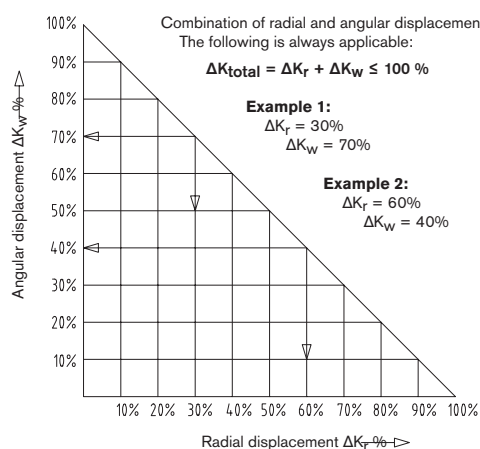


Displacements																									
Size		12		24		32		48		60		86		125		200		280		360		560			
Elastomer type		SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	SN	MN	WN	SN	MN	WN	SN	MN
Perm. radial displacement ΔK _r [mm]	1,500 rpm	1.9	1.4	2.0	1.5	1.4	0.9	1.8	1.2	2.5	1.9	1.6	1.3	2.5	2.0	1.8	1.4	2.5	1.4	2.3	1.8	1.6	2.3	1.8	1.6
	Max. ¹⁾	3.6		3.6		3.6		3.6		4.5		3.6		4.5		4.5		4.5		5.4		5.4			
Perm. angular displacement ΔK _w [°]	1,500 rpm	3.0		3.0		2.0		2.0		3.0		2.0		3.0		2.0		2.0		2.0		2.0			
	Max. ^{1) 2)}	6.0		6.0		4.0		4.0		6.0		4.0		6.0		4.0		4.0		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.



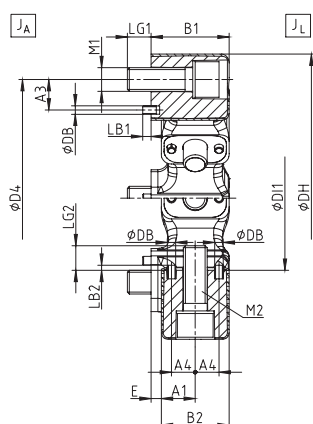
EVOLASTIC® E

Highly flexible couplings

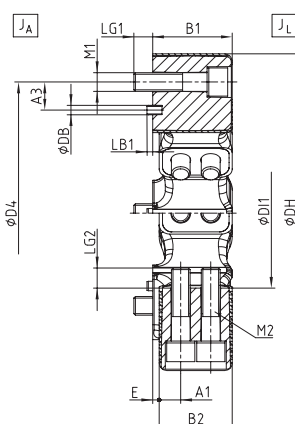
Individual element - available in various kinds of Shore hardness



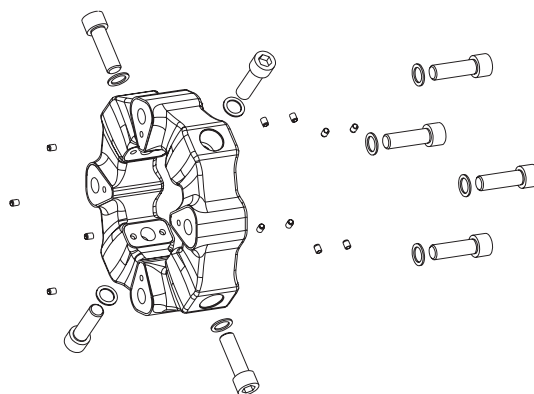
For legend of pictogram refer to flapper on the cover



Size 12 - 280



Size 360 - 560



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
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.

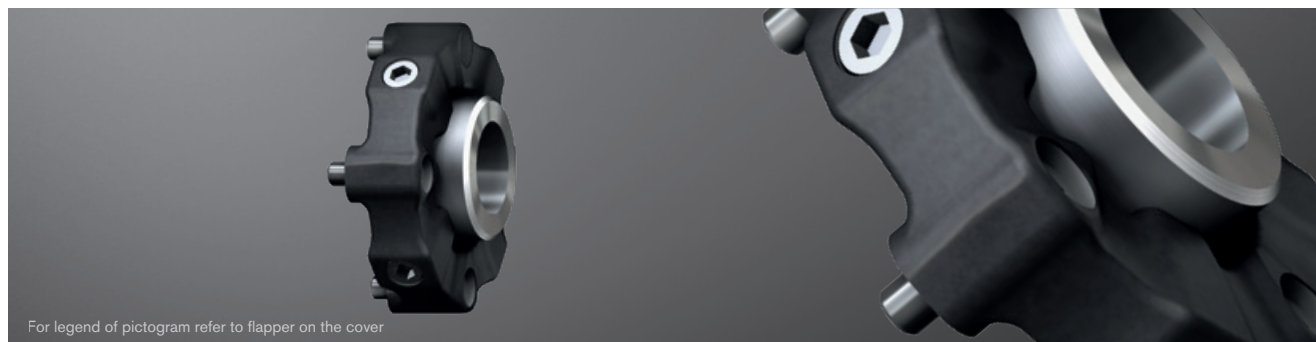
Size	Cap screw DIN EN ISO 4762 - 12.9		Tightening torque T _A
	M1 / axial	M2 / radial	[Nm]
12	M10 x 30	M10 x 30	71
24	M12 x 35	M12 x 35	123
32	M12 x 35	M12 x 35	123
48	M14 x 40	M14 x 40	195
60	M16 x 50	M16 x 50	302
86	M16 x 50	M16 x 50	302
125	M20 x 65	M20 x 65	592
200	M20 x 65	M20 x 65	592
280	M20 x 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	SN
	Coupling size	Type	Elastomer type

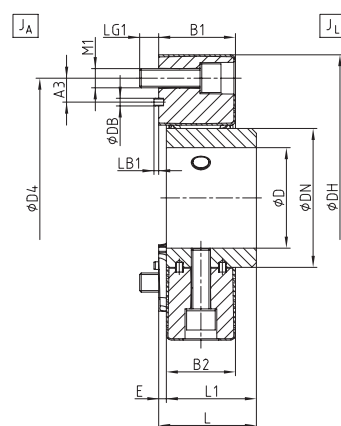
EVOLASTIC® EH

Highly flexible couplings

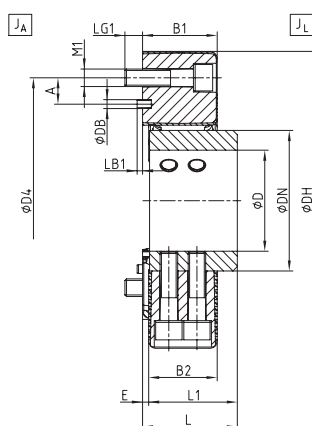
Individual element + shaft connection



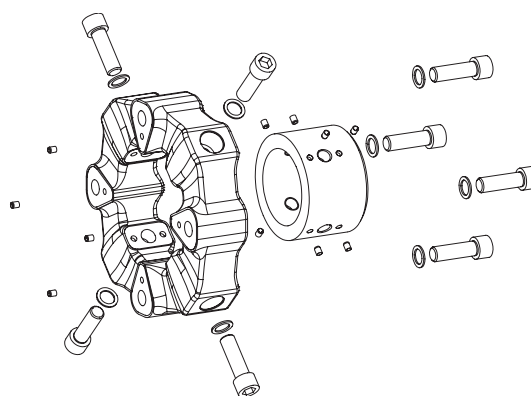
For legend of pictogram refer to flapper on the cover



Size 12 - 280



Size 360 - 560



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
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

EVOLASTIC®

Highly flexible
shaft couplings

BoWex-ELASTIC® HEW Compact

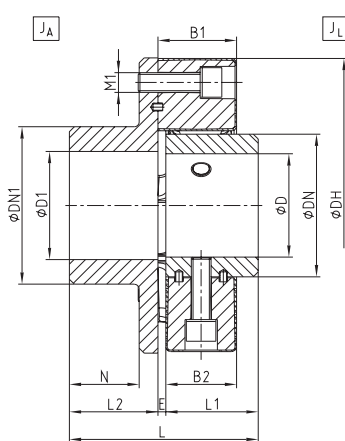
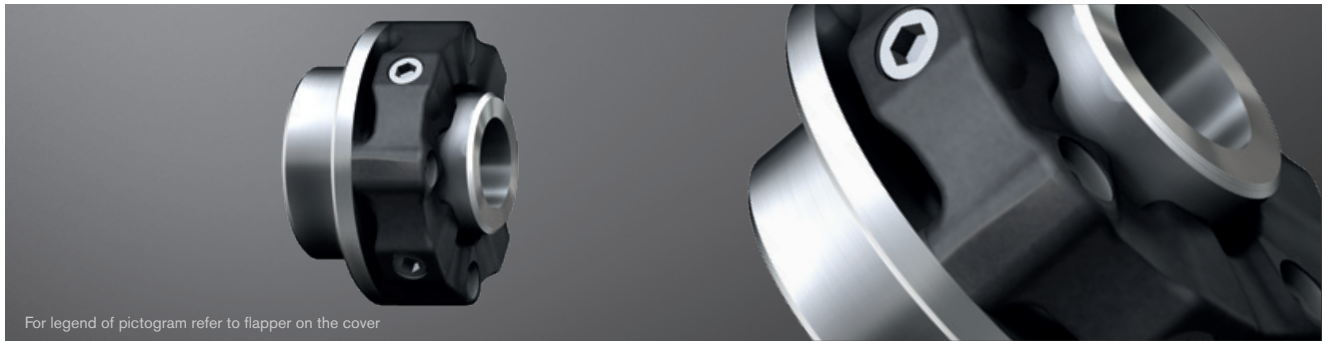
Ordering
example:

EVOLASTIC® 48	EH	SN	1.0	Ø52
Coupling size	Type	Elastomer type	Hub type	Finish bore

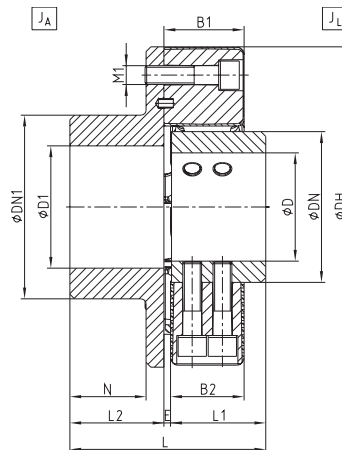
EVOLASTIC® E2H

Highly flexible couplings

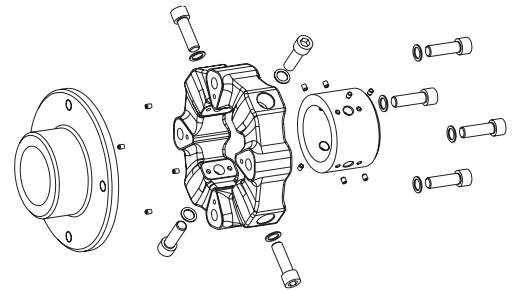
shaft-to-shaft connection



Size 12 - 280



Size 360 - 560



EVOLASTIC® type E2H																
Size	Dimensions [mm]												Mass moment of inertia [kgm ²] ¹⁾		Weight [kg] ¹⁾	
	Max. finish bore		DH	DN	DN1	B1	B2	E	N	L	L1	L2	M1	JA	JL	
	D	D1														
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
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	SN	1.0	Ø52	1.0	Ø52
	Coupling size	Type	Elastomer type	Hub type	Finish bore	Hub type	Finish bore

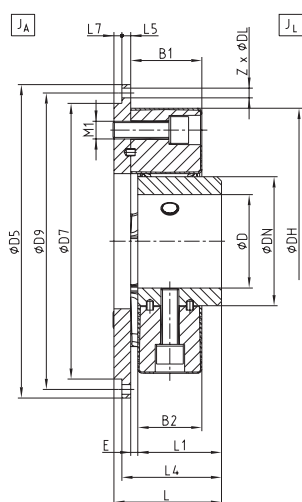
EVOLASTIC® EFH

Highly flexible couplings

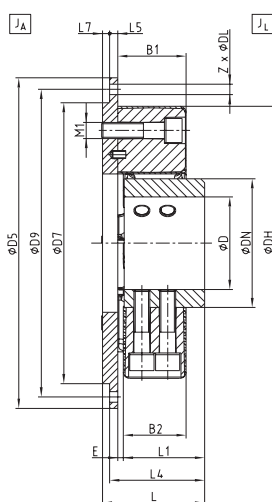
flange-to-shaft connection



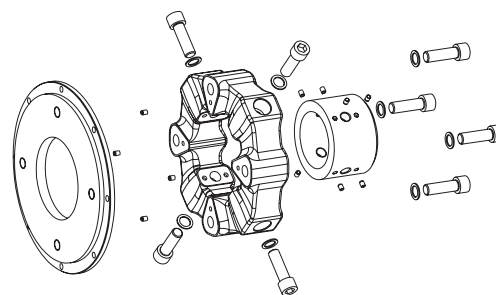
For legend of pictogram refer to flapper on the cover



Size 12 - 280



Size 360 - 560



Flange dimensions according to SAE J620 [mm]				
Size	D5	D9	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		Weight [kg] ¹⁾		
																			[kgm²] 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	D7	J _A		J _L	
12	●						38	122	60	32	28	4	56	42	52	6	4	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	
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	
48		●													67	6	8	M14	190	0.026	0.005	6.03	
			●				55	170	85	46	40	6	75	55		71	10		4	200	0.034	0.005	6.62
				●																260	0.091	0.005	9.91
60				●														M16	270	0.103	0.011	12.07	
					●		65	200	100	58	50	8	90	66	84	10	6		310	0.165	0.011	14.49	
						●													270	0.105	0.012	12.52	
86					●		65	200	100	58	50	8	90	66	84	10	6	M16	360	0.166	0.012	14.94	
						●													270	0.129	0.034	16.72	
125					●		85	260	125	70	63	7	107	80	98	10	9	M16	310	0.199	0.034	19.57	
						●													270	0.135	0.039	17.64	
200						●	85	260	125	70	63	7	107	80	98	10	9	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	10	9	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	10	9	M20	405	0.628	0.130	37.55	
560						●	120	363	170	105	95	10	160	125	145	10	15	M24	405	0.794	0.203	49.06	

¹) With max. bore

Ordering example:

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

EVOLASTIC®

Highly flexible shaft couplings

BoWex-ELASTIC® HEW Compact

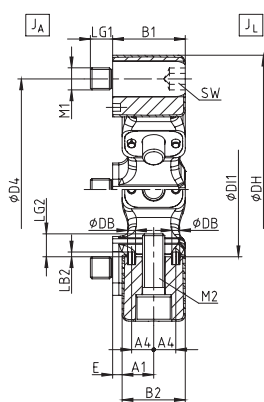
EVOLASTIC® EP

Highly flexible couplings

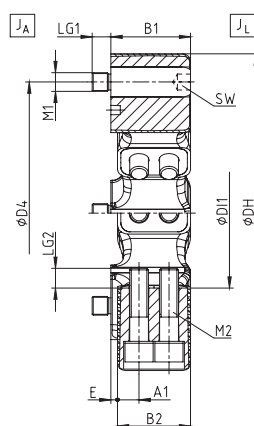
Pluggable elastomer - available in various kinds of Shore hardness



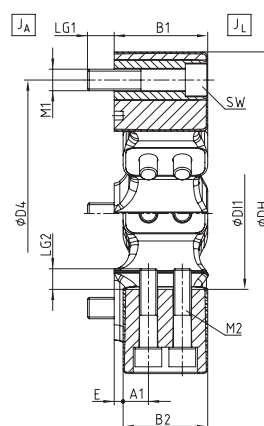
For legend of pictogram refer to flapper on the cover



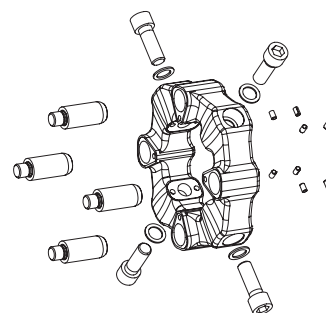
Size 12 - 280



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	JA	JL	
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
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
280	300	145	80	72	8	250	4 x 90°	20	8	36.0	22.5	5	0.068	0.050	8.71
360	340	160	85	78	7	280	4 x 90°	20	-	2 x 23.0	-	-	0.110	0.096	12.21
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	SN
Coupling size	Type	Elastomer type

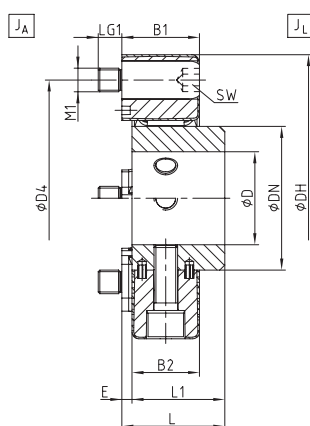
EVOLASTIC® EHP

Highly flexible couplings

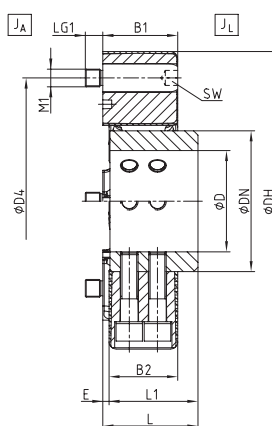
Pluggable elastomer + shaft connection



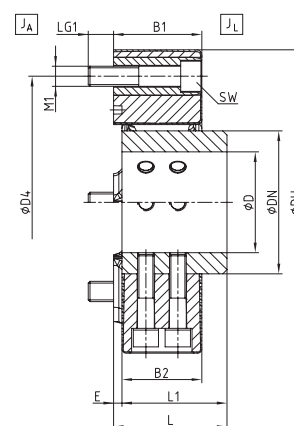
For legend of pictogram refer to flapper on the cover



Size 12 - 280



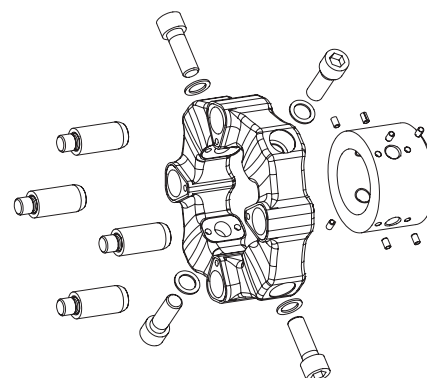
Size 360



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
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
280	105	300	145	80	72	8	102	94	250	4 x 90°	20	M20	17	0.068	0.076	14.29
360	115	340	160	85	78	7	108	100	280	4 x 90°	20	M20	17	0.110	0.131	19.44
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	SN	1.0	Ø52
Coupling size	Type	Elastomer type	Hub type	Finish bore

EVOLASTIC®

Highly flexible shaft couplings

BoWex-ELASTIC® HEW Compact

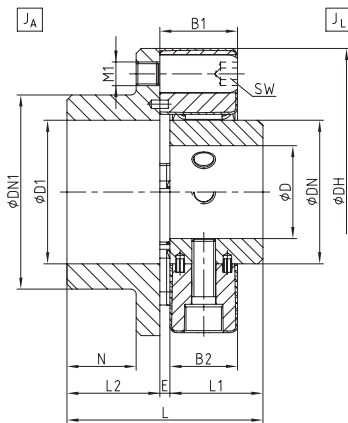
EVOLASTIC® E2HP

Highly flexible couplings

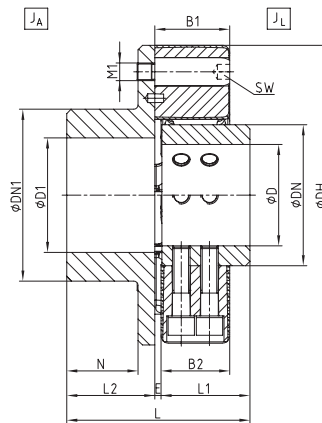
Shaft-to-shaft connection, plug-in



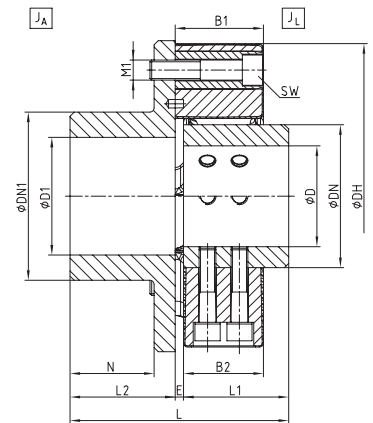
For legend of pictogram refer to flapper on the cover



Size 12 - 280



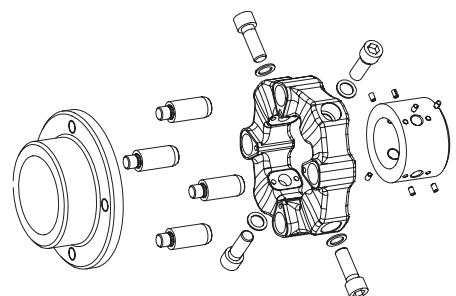
Size 360



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	J _A	J _L	
	D	D1															
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
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
280	105	110	300	145	160	80	72	8	70	192	94	90	M20	17	0.208	0.073	29.05
360	115	130	340	160	195	85	78	7	80	208	100	100	M20	17	0.368	0.104	41.25
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	SN	1.0	Ø52	1.0	Ø52
	Coupling size	Type	Elastomer type	Hub type	Finish bore	Hub type	Finish bore

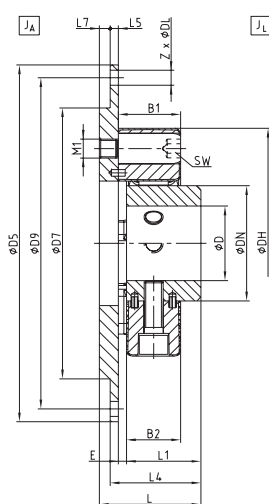
EVOLASTIC® EFHP

Highly flexible couplings

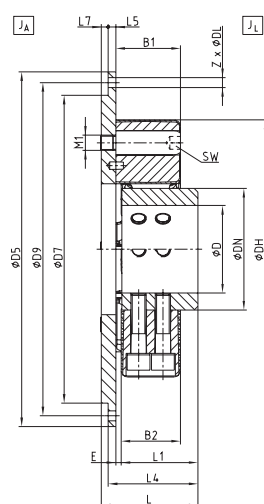
Flange-to-shaft connection, pluggable



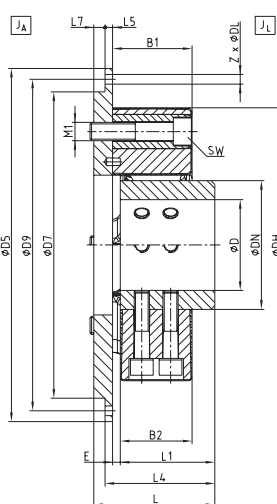
For legend of pictogram refer to flapper on the cover



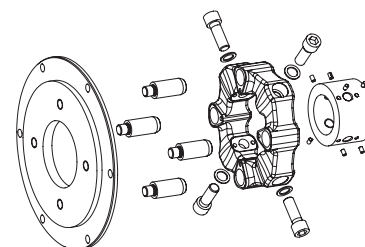
Size 12 - 280



Size 360



Size 560



Flange dimensions according to SAE J620 [mm]				
Size	D5	D9	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						Dimensions [mm]												
	6.5"	7.5"	8"	10"	11.5"	14"	Max. finish bore D	DH	DN	B1	B2	E	L	L1	L4	L5	L7	M1	SW
12	●						38	122	60	32	28	4	56	42	52	6	4	M10	8
		●																	
24	●		●				46	150	70	42	36	6	68	50	62	6	6	M12	10
		●																	
32	●		●				46	150	70	42	36	6	68	50	62	6	6	M12	10
		●																	
48			●				55	170	85	46	40	6	75	55	67	6	8	M14	12
			●												71	10	4		
60				●			65	200	100	58	50	8	90	66	84	10	6	M16	14
				●															
86				●			65	200	100	58	50	8	90	66	84	10	6	M16	14
				●															
125				●			85	260	125	70	63	7	107	80	98	10	9	M20	17
				●															
200				●			85	260	125	70	63	7	107	80	98	10	9	M20	17
				●															
280				●			105	300	145	80	72	8	121	94	112	10	9	M20	17
				●															
360				●			115	340	160	85	78	7	127	100	118	10	9	M20	17
				●															
560				●			120	363	170	105	95	10	160	125	145	10	15	M24	19

¹⁾ With max. bore

Ordering example:

EVOLASTIC® 48	EFHP	SN	8	1.0	Ø55
Coupling size	Type	Elastomer type	Flange ØDA acc. to SAE or special	Hub type	Finish bore

EVOLASTIC®

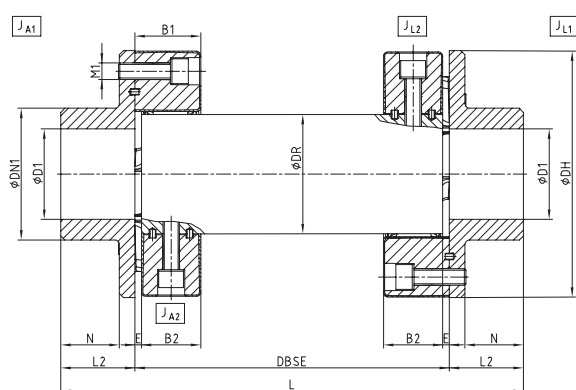
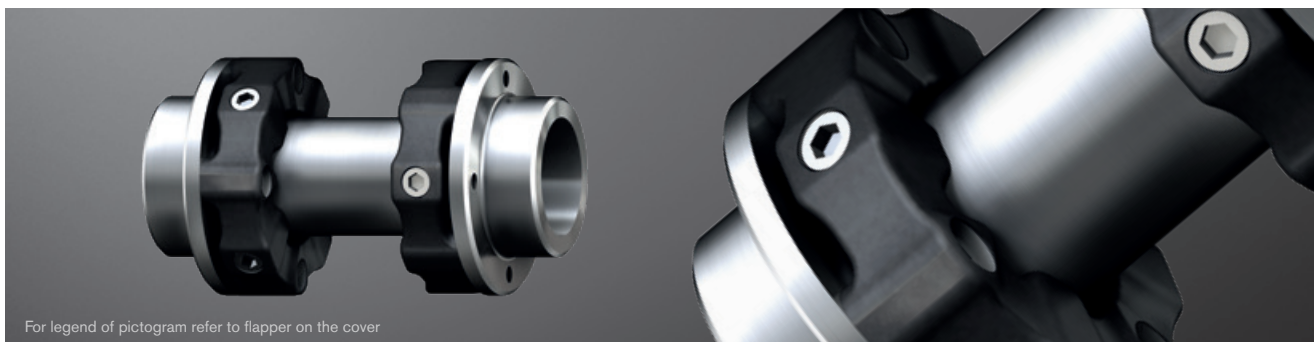
Highly flexible shaft couplings

BoWex-ELASTIC® HEW Compact

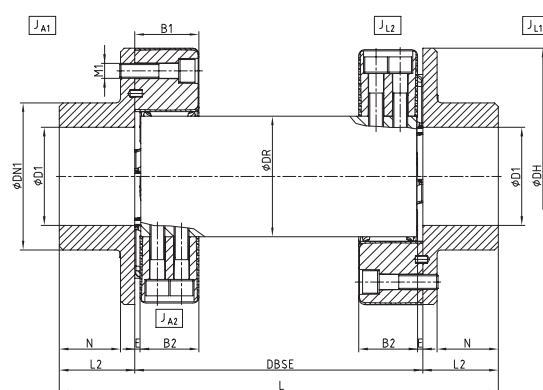
EVOLASTIC® D2H

Highly flexible couplings

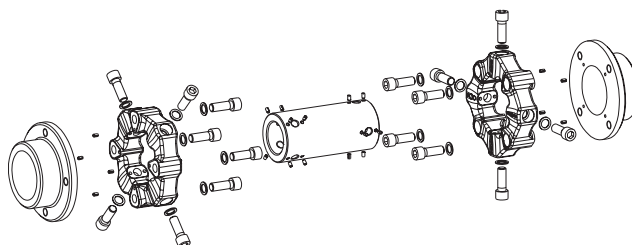
Double-cardanic shaft-to-shaft connection



Size 12 - 280



Size 360 - 560



EVOLASTIC® type D2H												
Size	Dimensions [mm]										Mass moment of inertia [kgm ²] ¹⁾	
	Max. finish bore D1	DH	DN1	DR	B1	B2	E	L2	N	M1	JA1	JL1
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
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	SN	1.0	Ø52	1.0	Ø52
Coupling size	Type	Shaft distance DBSE	Elastomer type	Hub type	Finish bore	Hub type	Finish bore

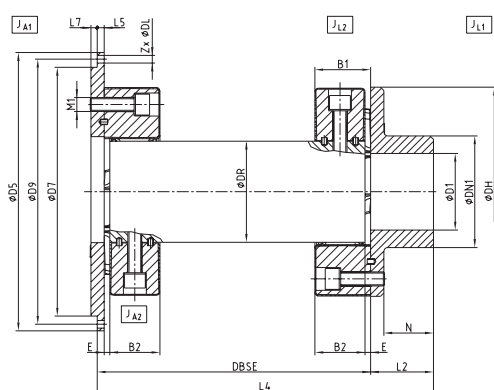
EVOLASTIC® DFH

Highly flexible couplings

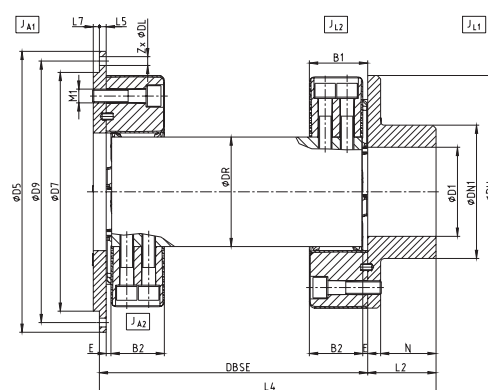
Double-cardanic flange-to-shaft connection



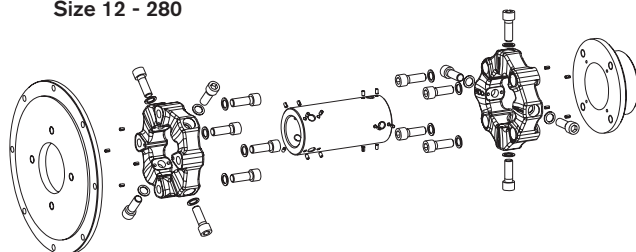
For legend of pictogram refer to flapper on the cover



Size 12 - 280



Size 360 - 560



Flange dimensions according to SAE J620 [mm]				
Size	D5	D9	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 DFH																		
Size	Flange connection acc. to SAE - J620						Dimensions [mm]										Mass moment of inertia [kgm ²] ¹⁾	
	6.5"	7.5"	8"	10"	11.5"	14"	Max. finish bore D1	DH	DN1	DR	B1	B2	E	L2	L5	L7	N	M1
12	●	●					55	122	80	60	32	28	4	42	6	4	32	M10
24	●	●	●				70	150	100	70	42	36	6	50	6	6	38	M12
32	●	●	●	●			70	150	100	70	42	36	6	50	6	6	38	M12
48			●	●	●		85	170	115	85	46	40	6	55	6	8	41	M14
60				●	●	●	100	200	140	100	58	50	8	66	10	6	50	M16
86				●	●	●	100	200	140	100	58	50	8	66	10	6	50	M16
125				●	●	●	110	260	160	125	70	63	7	80	10	9	60	M20
200				●	●	●	110	260	160	125	70	63	7	80	10	9	60	M20
280				●	●	●	110	300	160	145	80	72	8	94	10	9	70	M20
360				●	●	●	130	340	195	160	85	78	7	100	10	9	80	M20
560				●	●	●	140	370	200	170	105	95	10	125	10	15	100	M24

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	SN	8	1.0	Ø52
Coupling size	Type	Shaft distance DBSE	Elastomer type	Flange ØDA acc. to SAE or special	Hub type	Finish bore

EVOLASTIC®

Highly flexible shaft couplings

BoWex-ELASTIC® HEW Compact