

GENERAL DESCRIPTION AND DATA

The DEZ, DEZ-S and DEZ-R are highly durable rubber elements offering remarkable flexibility in all directions for torsional coupling applications. Their high damping characteristics and low dynamic torsional stiffness result in a low frequency drive system, ensuring that critical speeds remain below operational speeds.

Features

- **Rubber:** One piece, non-lubricated elastomeric rubber element
- **No need for lubrication**
- **Sizes:** As per the following tables
- **Torque range:** As per the following tables
- **Rupture torque:** 6 to 9 times the nominal torque
- **Industry applications:** Marine propulsion, mining, cement, pulp and paper
- **Interchangeability:** Direct and interchangeable replacement elements for Vulkan[®] manufactured EZ[®], EZS[®] and EZR[®] couplings



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TECHNICAL DATA – DEZ and DEZ-S

Size	Permissible Torque				Static Torsional Angle		Permissible Rotational Speed (with GGG)	Permissible Shaft Displacement			Deflection Stiffness	
		Nominal Torque	Max. Torque	Vibratory Torque				Axial	Radial	Max. Radial	Axial	Radial
	$\frac{N}{n} \ll$	T _{oP} kNm	T _{max P} kNm	T _{v P} kNm	φ T _{oP} °	φ T _{max P} °		n _{max p} r/min	ΔX_p mm	Δr_p mm	$\Delta r_{max P}$ mm	C _x N/mm
86	0.42	3.00	9.00	1.20	13.0	18.5	3330	6.0	1.9	4.0	900	960
95	0.56	4.00	12.00	1.60	16.0	21.0						
102	0.66	4.70	14.10	1.90	11.5	16.5	2880	7.0	2.2	4.5	1500	2400
115	0.95	6.80	20.40	2.70	15.5	20.0						
121	1.20	8.60	25.8	3.40	12.5	18.0	2500	7.5	2.5	5.0	1400	1800
135	1.63	11.7	35.1	4.70	15.5	21.0						
141	2.04	14.6	43.8	5.85	12.5	17.0	2150	8.0	2.9	6.0	2100	2700
165	2.82	20.2	60.6	8.10	15.0	20.0						
171	3.49	25.0	75.0	10.0	15.0	21.5	1840	9.0	3.5	7.0	3000	3100
195	4.82	34.5	103.5	13.8	18.5	24.5						
201	6.07	43.5	130.5	17.4	15.0	20.0	1540	10.0	4.0	8.0	2650	3600
230	7.54	54	162	21.6	17.0	21.5						
235	9.77	70	210	28.0	19.5	23.5						
241	11.59	83	249	33.2	16.5	21.5	1340	11.0	4.5	9.0	3300	4350
275	14.80	106	318	42.5	19.0	23.5						
280	17.45	125	375	50	10.0	13.0	1170	12.0	5.0	10.0	8400	18000
285	20.94	150	450	60	11.0	14.5						

TECHNICAL DATA – DEZ-R

Size	Permissible Torque			Perm. Power Loss	Static Torsional Angle	Permissible Rotational Speed (with GGG)	Permissible Coupling Displacement		
	Nominal Torque	Max. Torque	Perm. Vibratory Torque				Axial	Radial	Max. Radial
	T_{KN} kNm	T_{Kmax} kNm	T_{KW} kNm				ΔK_a mm	ΔK_r mm	$\Delta K_{r max}$ mm
0412	0.40	1.20	0.16	0.03	11.0	5870	3.5	1.0	2.0
0422	0.50	1.50	0.20	0.03	12.5				
0512	0.63	1.90	0.25	0.04	12.0	5100	4.0	1.2	2.5
0522	0.75	2.30	0.30	0.04	13.5				
0612	1.00	3.00	0.40	0.06	13.0	4480	4.5	1.4	3.0
0622	1.25	3.75	0.50	0.06	14.5				
0712	1.60	4.80	0.64	0.13	13.5	3890	5.0	1.6	3.5
0722	2.00	6.00	0.80	0.13	15.5				
0812	3.15	9.45	1.26	0.20	17.0	3330	6.0	1.9	4.0
0822	4.00	12.00	1.60	0.20	17.0				
1012	5.00	15.00	2.00	0.35	14.0	2880	7.0	2.2	4.5
1022	6.30	18.90	2.52	0.35	15.5				
1212	8.00	24.00	3.20	0.60	15.5	2550	7.5	2.5	5.0
1222	10.00	30.00	4.00	0.60	16.0				
1232	12.50	37.50	5.00	0.60	18.0	2550	7.5	2.5	5.0
1412	16.00	48.00	6.40	1.02	17.0	2150	8.0	2.9	6.0
1422	20.00	60.00	8.00	1.02	17.5				
1712	25.00	75.00	10.00	1.64	18.0	1840	9.0	3.5	7.0
1722	31.50	94.50	12.60	1.64	17.0				
2012	40.00	120.00	16.00	3.02	15.0	1540	10.0	4.0	8.0
2022	50.00	150.00	20.00	3.02	15.0				
2032	63.00	189.00	25.20	3.02	16.5	1540	10.0	4.0	8.0
2412	80.00	240.00	32.00	4.95	19.0	1340	11.0	4.5	9.0
2422	100.00	300.00	40.00	4.95	19.5				
2812	125.00	375.00	50.00	7.45	14.5	1170	12.0	5.0	10.0
2822	160.00	480.00	64.00	7.45	15.5				
3012	200.00	600.00	80.00	10.50	14.5	1080	13.0	5.5	11.0
3022	250.00	750.00	100.00	10.50	16.5				