



DF 1-009-016-E



DF 1-014-016-A/
DF 1-024-024-A/
DF 1-018-012 P



DF 1-042-082-E/
DF 1-031-046 E/
DF 1-032-052 E



DF 2-020-033-A/
DF 2-021-035 A



DF 2-020-55 E /
DF 2-020-055 A



DF 2-046-030-A/
DF 2-047-030-A



DF 3-070-030 A/
DF 3-072-033 A

Operating conditions

- -25 up to + 50 °C
- resistant to lubricants
- resistant to hydrolysis
- almost equal properties under dynamic and quasi-static loads, force F_n raised factor at dynamic load $f_F \approx 1 + 0,075 * v$ (m/s)
- For outdoor applications we recommend the units to be coated or suitably protected against UV-rays

Applications of the patented DEFORM plus® units include

- machine tools
- wind driven turbines
- automobile industry
- construction of vehicles
- mechanical engineering



DF 3-085-150-A

Machining centre



In the event of a crash, DEFORM plus® Damping Elements or Friction Springs RINGFEDER® – in their function as overload protection – precisely absorb the full kinetic energy and thus avoid enormous costs for external service technicians and downtimes. No other damping systems can absorb such energies within these extremely limited mounting spaces.

Extract of standard DEFORM plus®-units

Type		Nom. values of stat. diagram			Dimensions					Weight kg
		F_n kN	s_n mm	W_n Nm	D' mm	D mm	L mm	thread ***	L_s mm	
DF	1-009-016-E	4,3	11	32	16	16	32,5	M12	15	0,007
DF	1-014-016-A	20,0	10	100	20	20	27,5	M12	15	0,007
DF	1-018-012-P	42,0	12	**) 350	28	28	40,5	M16	18	0,030
DF	1-024-024-A	65,0	18	700	32	32	*) 48,0	M16	20	0,040
DF	1-031-046-E	40,0	46	1500	48	48	*) 103,0	M30	60	0,120
DF	1-032-052-E	52,0	52	1900	50	50	*) 116,2	M30	60	0,120
DF	1-042-082-E	85,0	80	5250	63	63	172,0	M36	95	0,320
DF	2-020-055-E	13,5	50	525	30	30	118,5	M24	57	0,400
DF	2-020-033-A	27,0	33	660	34,5	34,5	106,0	M12	20	0,340
DF	2-021-035-A	31,0	35	840	34,5	34,5	113,6	M12	21	0,360
DF	2-020-055-A	27,0	50	1100	30	30	118,4	M24	57	0,400
DF	2-046-030-A	115,0	30	2500	50	50	87,0	M12	18	0,590
DF	2-047-030-A	140,0	30	3250	50	50	87,0	M12	18	0,600
DF	3-070-030-A	270,0	30	6000	90	90	121,5	M24	41	1,260
DF	3-072-033-A	300,0	33	7500	90	90	126,7	M24	36	1,270
DF	3-085-150-A	700,0	150	75000	141	141	485,0	M24	50	10,600

* stainless steel spring pin

** $V_{zul} = 1,4$ m/sec

*** Units with plastic thread are hand-screwed, units with metal screws are preloaded with half a screw turn.

Explanations to table

F_n = Nominal Force

s_n = Nominal stroke

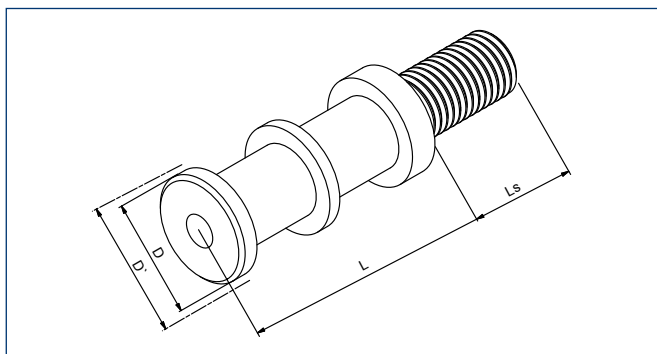
W_n = Nominal capacity

D' = Installation diameter

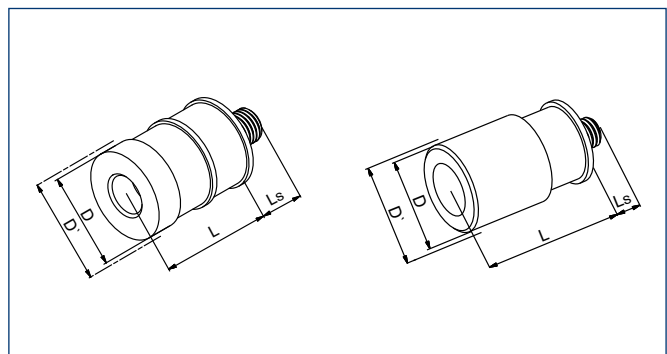
D = Nominal diameter

L = Effective length

L_s = Thread length



Type 1



Type 2/3



Weitere technische Hinweise befinden sich im jeweiligen Katalog.

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Check out the respective catalogue for further technical details

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