

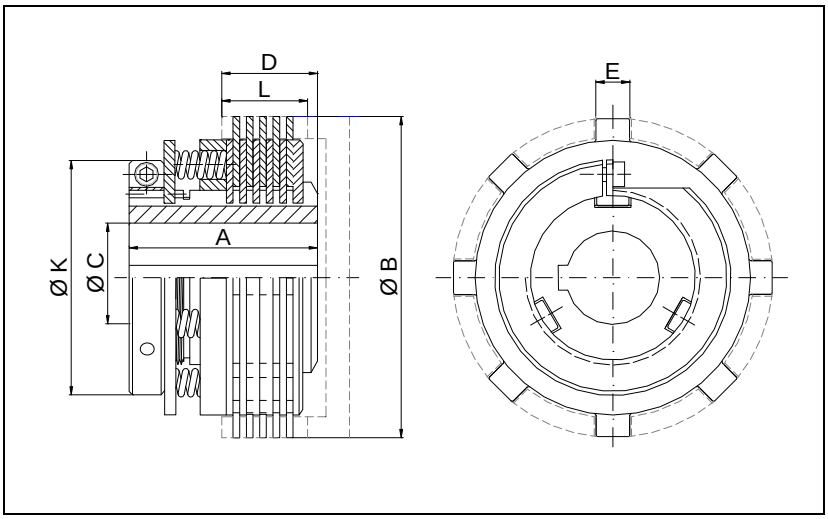
TORQUE LIMITING COUPLINGS

Characteristics
Like fuse for electric appliances, these couplings are very precious safety elements housed in a transmission in order not to damage (in case of overloads, shocks, blocks) important components, whose failure would require expensive maintenance and might hinder the production process.
The couplings consist in a set of inside and outside plats, pressed by springs, which are loaded by means of an adjusting ring.
The considered torque is calibrated with such a ring and once overcome the limiter slides until overloads are present.
The advantages of such couplings are:
- after being operated no reset is needed
- in case of failure, they perform a braking action on these parts which might accelerate dangerously.
-further more, by allowing frequent sliding, they can be operated systematically i.e. in machinery starting.

Plates
It is possible to chose the correct friction pairing among the following possibilities:
-steel/steel plates working wet in oil
-steel/sinter plates working wet in oil or dry
-sinter or cast iron/lining discs.
The choice depends on the unit features, power through the couplings and estimated sliding times. In this catalogue we show kind of limiter with steel/steel plate but, upon request, we can supply the other above mentioned combinations.

Cooling
We recommend an effective cooling system when units work frequently. For coupling with steel/steel plates we suggest a good quality oil with max viscosity: 5,2 E/50°C
For discs with linins we suggest having an open installation allowing good self ventilation.

Adjustment
Calibration is obtained by means of threaded, locking ring, which loads springs pressing in turn the discs.



MULTIPLATE
TORQUE LIMITING COUPLINGS
Model GSA

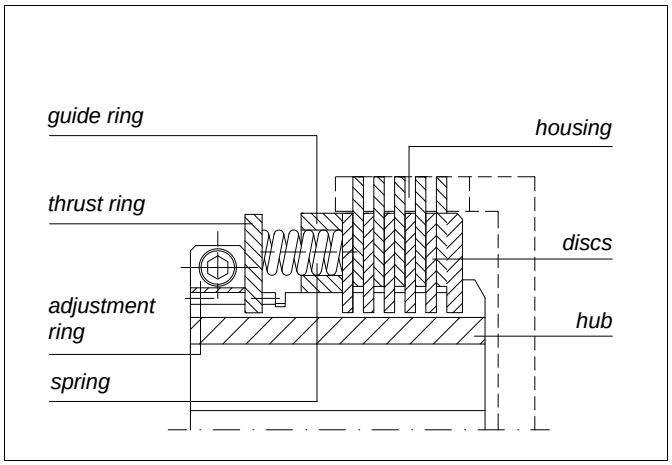
PERFORMANCES

size	*min torque* (Nm)	*max torque* (Nm)	*weight* (kg)	*cap housing*
GSA 050	2	20	0,65	CAL 050
GSA 069	4	40	1,4	CAL 069
GSA 078	8	80	1,6	CAL 078
GSA 086	10	90	2,1	CAL 086
GSA 108	15	160	3,2	CAL 108
GSA 130	20	280	6,5	CAL 130
GSA 163	35	450	11	CAL 163

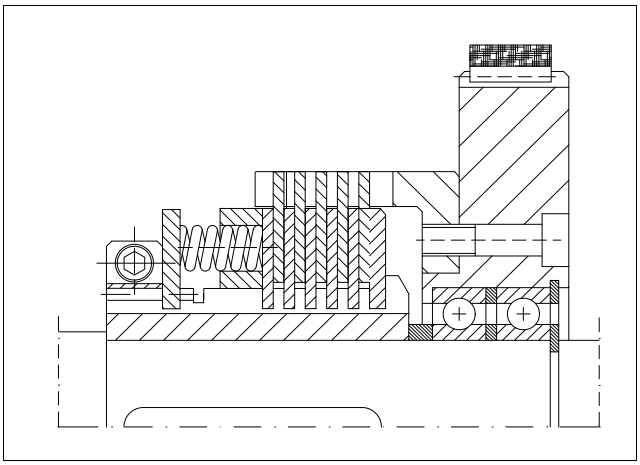
DIMENSIONS (mm)

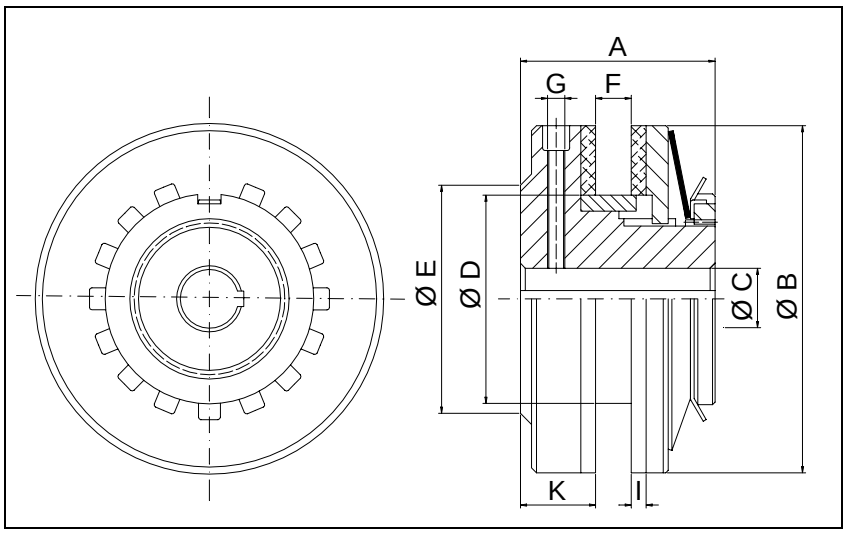
size	A h8	B	C max	D	E	K	L	*plates* ext/int
GSA 050	50	68	22	21	3 x 12	54	17	5/5
GSA 069	62	80	24	27	3 x 12	70	23	6/6
GSA 078	62	89	28	27	3 x 12	75	23	6/6
GSA 086	65	96	35	31	6 x 12	89	24	6/6
GSA 108	75	116,5	40	31	6 x 15	104	24	6/6
GSA 130	80	144	50	34	6 x 20	120	26	7/7
GSA 163	100	179	62	45	9 x 20	130	37	7/7

PARTS NAME



MOUNTING EXAMPLE







TORQUE LIMITING COUPLINGS WITH LINING DISCS Model GSF

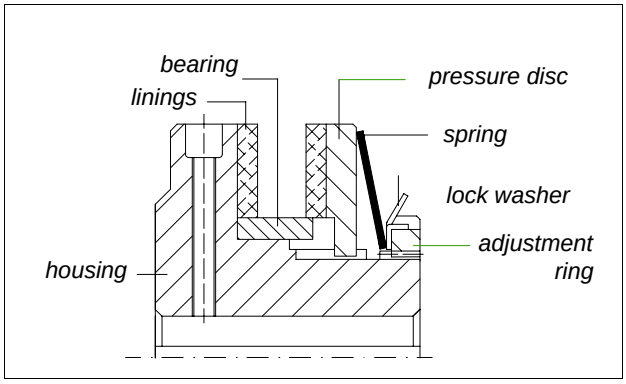
PERFORMANCES

size	*min torque* (Nm)	*max torque* (Nm)	*rpm* max	*weight* (kg)
GSF 040	2	15	7000	0,18
GSF 050	5	30	6000	0,30
GSF 070	15	130	4000	0,90
GSF 090	26	250	3000	1,6
GSF 115	50	500	2500	2
GSF 140	110	1100	2000	5
GSF 170	140	1400	1700	8,5
GSF 200	240	2400	1500	13,5

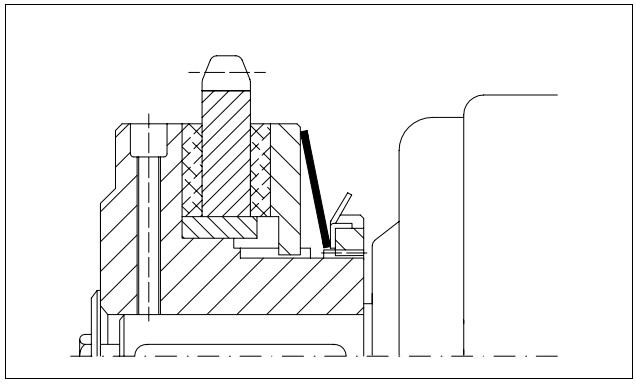
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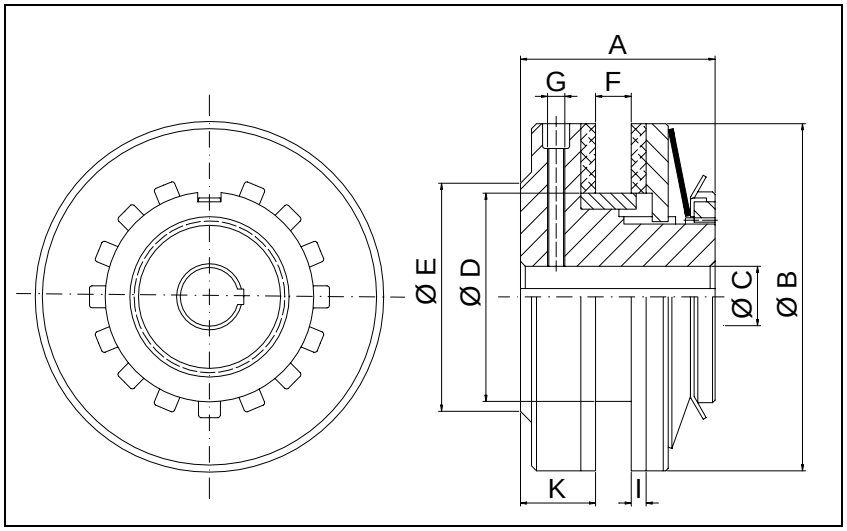
size	A h8	B h11	C H7	D H6	E	F	G	K	I
GSF 040	30	40	5÷12	24	-	2÷6	M5	8,5	2,5
GSF 050	38	50	8÷20	38	-	3÷8	M6	11	3
GSF 070	55	70	10÷25	45	44	3÷10	M6	18	4
GSF 090	57	90	15÷35	58	60	4÷11	M8	19	4
GSF 115	68	115	20÷45	72	76	6÷15	M8	21	4
GSF 140	78	140	25÷55	85	92	6÷18	M8	23	5
GSF 170	92	170	30÷65	98	106	8÷20	M10	29	5
GSF 200	102	200	40÷80	116	120	8÷23	M10	31	5

PARTS NAME



MOUNTING EXAMPLE







TORQUE LIMITING COUPLINGS WITH LINING DISCS Model GSF

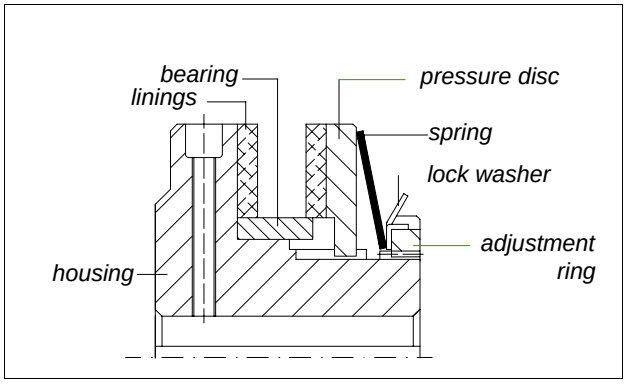
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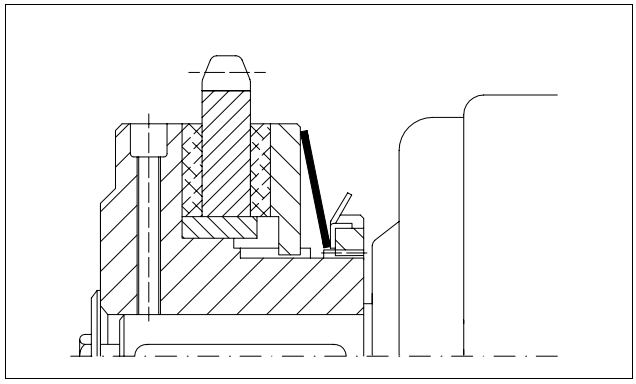
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GSF 070	55	70	10÷25	45	44	3÷10	M6	18	4
GSF 090	57	90	15÷35	58	60	4÷11	M8	19	4
GSF 115	68	115	20÷45	72	76	6÷15	M8	21	4
GSF 140	78	140	25÷55	85	92	6÷18	M8	23	5
GSF 170	92	170	30÷65	98	106	8÷20	M10	29	5
GSF 200	102	200	40÷80	116	120	8÷23	M10	31	5

PARTS NAME



MOUNTING EXAMPLE



Symbology


mechanically actuated


electromagnetically actuated


hydraulically actuated


pneumatically actuated


springs loaded


permanent magnet


with rotating magnet


with stationary magnet


with steel plates


with steel plates E


with sintered discs M


with linings


toothed


accessories


powder