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DAVALL STOCK GEARS

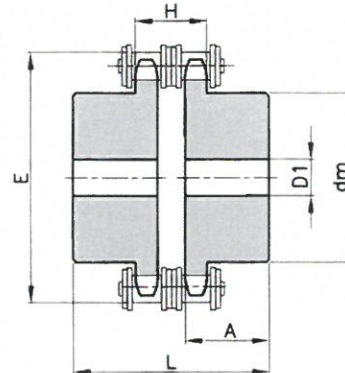
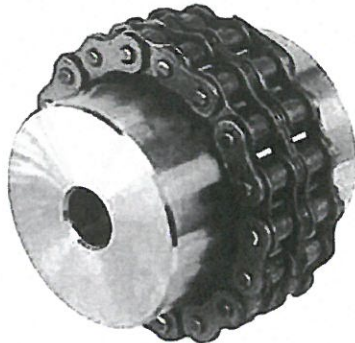
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CHAIN COUPLINGS - DIN 8187



Material C45

reference	code	chain connection ISO	mm	number of teeth	dm mm	D1 mm	A mm	E mm	L mm	H mm	Kg.
GC 06 14	GC109014	06B-2	9,525	14/14	31	8	25	51,0	55,0	15,6	0,42
GC 06 18	GC109018	06B-2	9,525	18/18	43	10	28	63,1	61,0	15,6	0,79
GC 08 14	GC112014	08B-2	12,7	14/14	41	10	28	68,9	62,7	21,1	0,88
GC 08 18	GC112018	08B-2	12,7	18/18	56	12	28	85,0	62,7	21,1	1,49
GC 10 18	GC115018	10B-2	15,875	18/18	70	14	30	106,2	67,5	25,7	2,52
GC 12 18	GC119018	12B-2	19,05	18/18	80	16	35	125,8	78,4	30,6	4,01
GC 12 24	GC119024	12B-2	19,05	24/24	90	20	40	162,1	88,4	30,6	6,39
GC 16 18	GC125018	16B-2	25,4	18/18	100	20	45	167,3	105,7	48,1	9,44
GC 16 24	GC125024	16B-2	25,4	24/24	110	20	50	215,6	115,7	48,1	14,82

Other types of chains, tooth numbers and versions with finished bore and hardened teeth on request

service factor [K]

load of drive	type of prime mover		
	electric motor	internal combustion	
		4 cylinders or more	4 cylinders or less
uniform	1,0	1,5	2,0
medium load	1,5	2,0	2,5
high load	2,0	2,5	3,0

Choice of Chain Coupling

Having the engine power and the number of revolutions, multiply the engine power (Nm) to the load factor (K) to obtain the effective power (kW). Obtained the actual power divide it by the number of revolutions of the engine (rpm) to obtain the transmission ratio (P / n). With the value obtained using the table of power rating to choose the most suitable joint.

Example

- Tipo di motore : Motore diesel a 4 cilindri
- Fattore di carico : Regolare (K) = 1,5
- Potenza motore : P = 110 kW
- Numero giri : n = 1400 rpm

$$P \text{ eff.} = P \times K = 110 \times 1,5 = 165 \text{ kW}$$

$$\frac{P}{n} = \frac{P \text{ eff.}}{\text{rpm}} = \frac{165}{1400} = 0,1178$$

The coupling next in size is GC 1618

reference	Mt	$\frac{P}{n}$
	Nm	kW/rpm
GC 06 14	60	0,0062
GC 06 18	95	0,0097
GC 08 14	150	0,0154
GC 08 18	240	0,0246
GC 10 18	380	0,0246
GC 12 18	600	0,0616
GC 12 24	940	0,0965
GC 16 18	1480	0,1519
GC 16 24	2350	0,2413