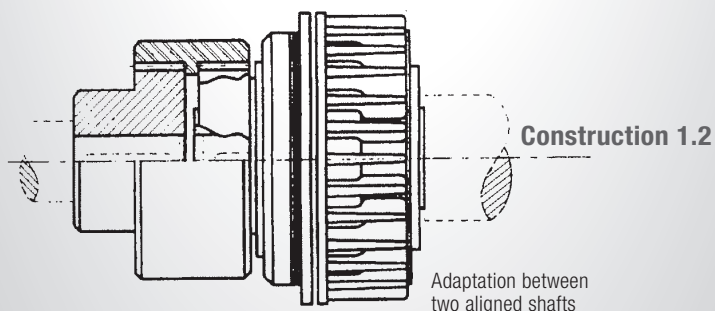
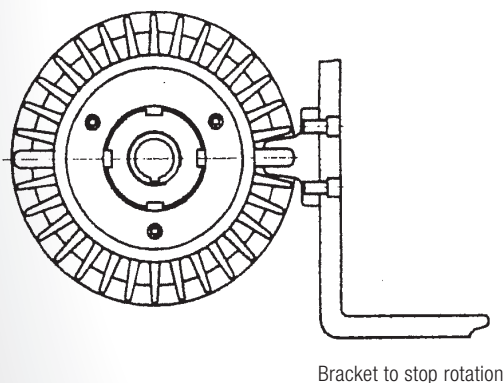
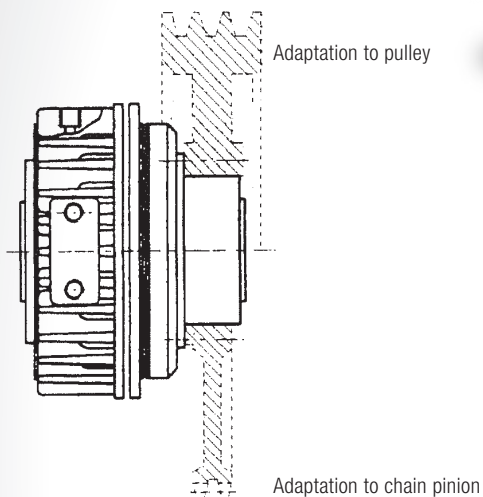


TOOTHED PNEUMATIC CLUTCH

ASSEMBLY EXAMPLE

Construction 1.1



NE/CD Type

Description

The EIDE NE/CD type pneumatic clutch is a compact pneumatic clutch unit, declutching by the reaction of springs. The cylinder is supplied radially with compressed air at 5.5 bars. The air consumption is minimum and the chamber has chromed machined linings for optimum performance.

The driving part is incorporated in to the assembly with 2 bearings, there is a cylindrical area with axial threaded holes to attach a sprocket or pulley (see examples of assembly 1.1) or an elastic coupling to adapt two aligned shafts (const. 1.2).

A limitation of torque transmitted is obtained by a properly regulation of the air pressure with the corresponding security for the rest of mechanisms is achieved, being it possible to detect loss of synchronism by a micro switch.

Large rotation torques are transmitted with the toothed crown as coupling and, according to the layout of the teeth, a positional clutch can be obtained when it is necessary to preserve synchronism between the driving and driven part.

Clutch engagement should take place while stationary or at low speeds, depending on the inertia of the system. Declutching can be at any speed.

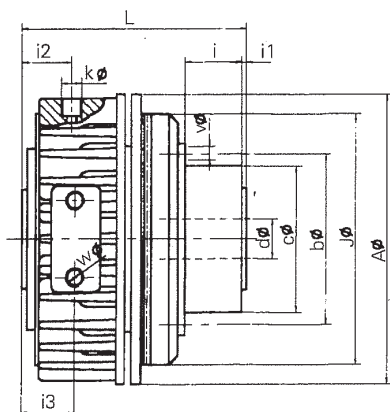
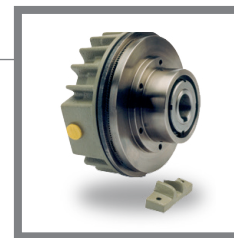
Large rotation torques are transmitted by using a toothed ring as coupling and, according to the distribution of the teeth, a positional clutch can be obtained when it is necessary to preserve synchronism between the driving and driven part. One position per turn synchronism is standard (360°)

Clutch engagement should take place while rested or at a very low speeds, depending on the inertia of the system. Disengagement could be done at any speed.

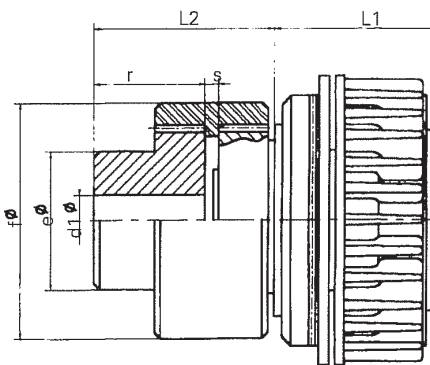
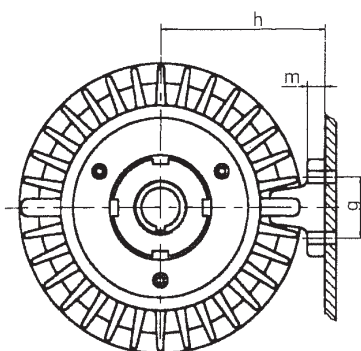
It can also be supplied as friction clutch with spring reaction brake. In this case the pulley, sprocket, etc. should always be the conductive part.

TOOTHED PNEUMATIC CLUTCH NE/CD Type

Characteristics and dimensions



Construction 1.1



Construction 1.2

SIZE		1,75	3,5	7	14	28	55	
Clutch torque (at 5,5 bars.)	Const. 1.1	Nm.	75	150	300	600	1200	2400
	Const. 1.2	Nm.	75	150	237,5	380	712,5	1425
Search par sync to 5.5 bars		Nm.	18	42	65	105	230	400
Max. RPM		n	2500	2000	1700	1500	1200	1000
Mass const. 1.1		kg	3,7	6,8	11	17,5	30	44
J. Moment of inertia (10 ⁻⁴)		kg m²	7	25	55	125	410	675
Volume air chamber		cm³	9	16	30	58	90	160
	A	120	150	180	216	265	320	
	b	72	85	98	115	132	160	
	c	62	74	87	102	115	140	
standard	d	19	24	28	38	42	55	
max.	d	19	25	32	42	48	60	
max.	d₁	34	42	50	60	70	85	
	e	55	78	92	108	123	150	
	f	95	120	135	155	173	210	
	J	108	138	168	180	216	216	
	L	92	102	114	126,5	142	163	
	L₁	65	75	83	93,5	109	122	
	L₂	81,5	96,5	116	138	151,5	177,5	
	i	26	26	30	32	34	40	
	i₁	1	1	1	1	1	1	
	i₂	15	17	19	23	27,5	27,5	
	i₃	22	26	33	33	36	45	
	h	73	87	101	123	145	172	
	m	10	10	10	13	13	13	
	g	42	42	42	50	50	50	
	w	M6	M6	M6	M8	M8	M8	
	v	6 x M5	6 x M6	6 x M6	6 x M8	6 x M10	6 x M12	
Gas thread	k	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	
	r	50	65	80	100	100	130	
	s	4,5	4,5	5	5	6,5	6,5	

Dimensions in millimeters

