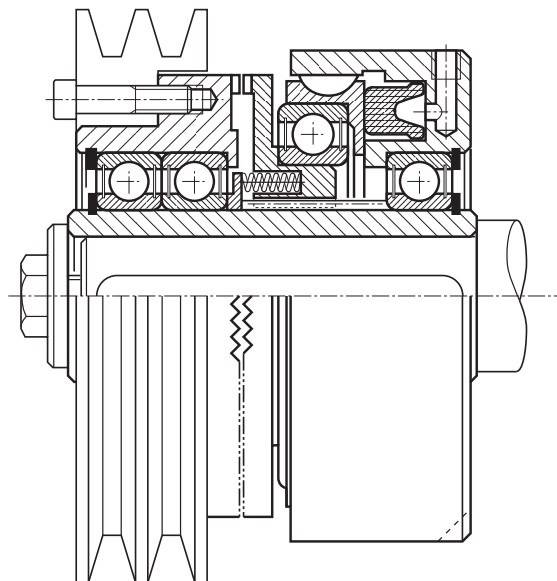




EMBRAGUE NEUMATICO DE DIENTES DIRECTO

DPG



EMBRAGUE NEUMÁTICO DE DIENTES DIRECTO DPG

Este dispositivo difiere del acoplamiento de embrague solo en lo que concierne al componente de arrastre.

El movimiento se transmite a través del dentado; el par también es directamente proporcional a la presión de suministro.

Al igual que con los embragues, un conjunto de resortes helicoidales desengancha completamente el dentado de arrastre, liberando así la transmisión durante una pérdida de presión total.

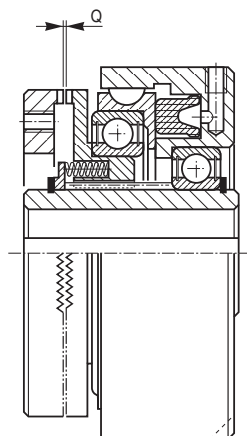
Para garantizar que el acoplamiento y, por lo tanto, la transmisión, funcionen correctamente, la presión de suministro siempre debe permanecer constante; por lo tanto, se debe usar un tanque de acumulación para compensar cualquier cambio de presión.

La válvula de control debe montarse lo más cerca posible del orificio de suministro ubicado en el cilindro y debe estar equipada con un dispositivo de descarga para descargar el pistón y, como consecuencia, que desconecte rápidamente la transmisión.

MONTAJE Y VERIFICACIÓN DEL ENTREHIERRO

Al montar, siga nuestras instrucciones y ejemplos: El cilindro de trabajo debe estar anclado, pero no bloqueado, por medio de una abrazadera o pasador enganchado en una de las tres manchas fresadas de 120 ° en el cilindro de trabajo mismo; este soporte debe engancharse al punto fresado más conveniente, en relación con el orificio de suministro de aire, asegurándose de que el cilindro de trabajo tenga algo de juego radial y axial.

Durante la fase de ensamblaje, es muy importante verificar el entrehierro (Q) en 3 puntos a 120 ° con un medidor de espesor; debe ser como se especifica en las tablas.



DPG PNEUMATIC TOOTH-TYPE COUPLINGS WITH STATIC CYLINDER

These devices differ from clutch couplings only for what concerns the entrainment component. In fact, in couplings motion is transmitted through tooththing.

In couplings, the torque is also directly proportional to the supply pressure

Just like with clutches, a set of helical springs completely disengages the entrainment tooththing, thus releasing the transmission during a total pressure loss.

To ensure that the coupling, and therefore the transmission, operates correctly, the supply pressure must always remain constant; therefore, an accumulation tank should be used to compensate for any pressure changes.

The control valve must be mounted as close as possible to the supply hole located on the cylinder and it must also be equipped with a blow-off device to discharge the piston and, as a consequence, to quickly disengage the transmission.

MOUNTING AND AIR GAP ADJUSTMENT

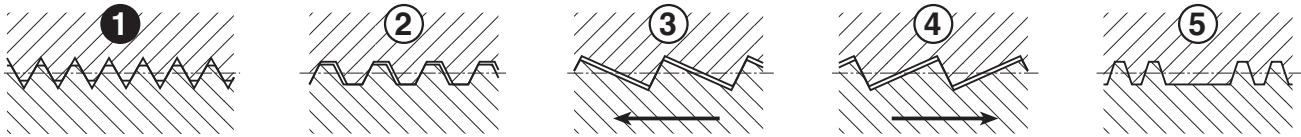
When mounting, please follow our instructions and examples. The working cylinder must be anchored, but not blocked, by means of a bracket or pin engaged on one of the three 120° milled spots on the working cylinder itself; this bracket is to be hooked onto the most convenient milled spot, in relation to the air supply bore, making sure that the working cylinder has some radial and axial play.

During the assembly phase, it is very important to check the air gap (Q) at 3 points at 120° with a thickness gauge; it should be as specified in the relevant tables.

DPG		
Grandezza Size	Traferro «Q» Air Gap mm	
00	0,20	0,30
01	0,25	0,35
02	0,30	0,45
03	0,30	0,45
04	0,35	0,50
05	0,35	0,50
06	0,40	0,60
07	0,50	0,70



The teeth can have any one of a number of designs.



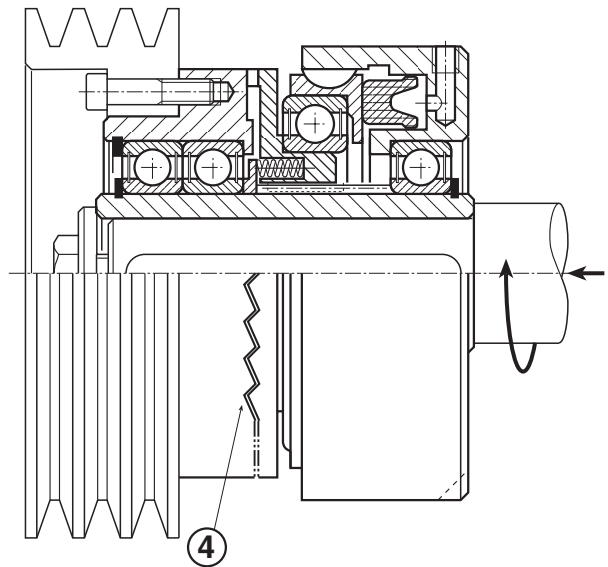
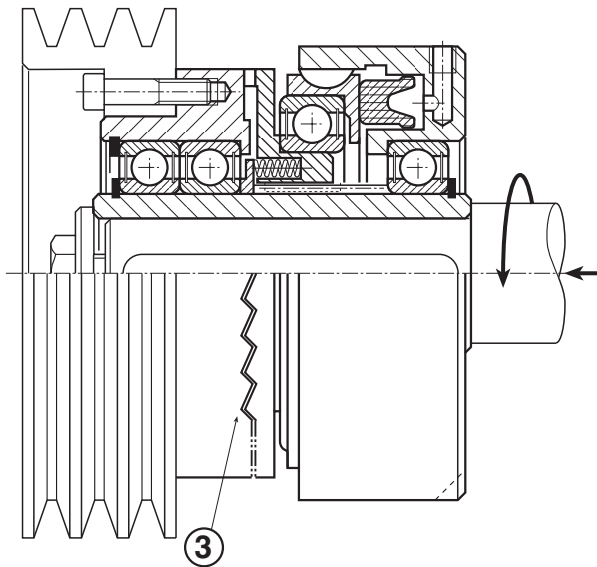
Triangular teeth without play ① (standard)

This type has no lateral play and only permits engagement when there is no movement or when the velocities are synchronous.

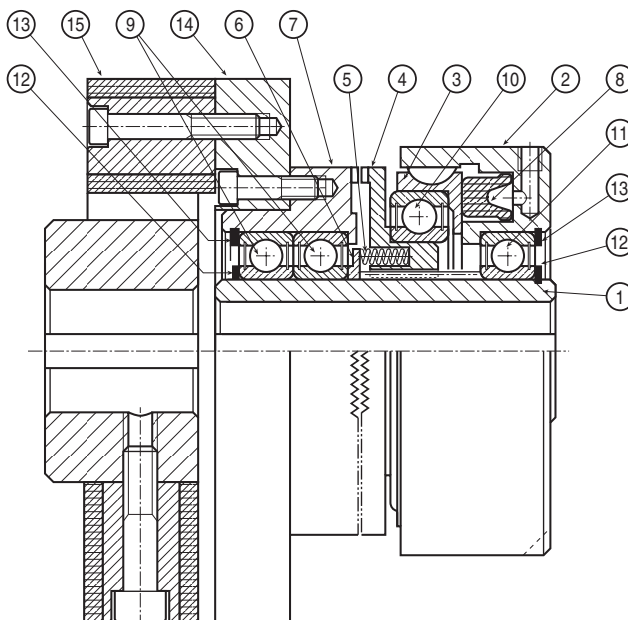
Trapezoidal teeth with lateral play ②

This type permits engagement when the velocities are synchronous, or at a very low R.P.M.

On request, the following features are available: dragging in only one direction (clockwise or counterclockwise), saw-toothed design ③ ④; one or more fixed points of reference, special tooth design ⑤.



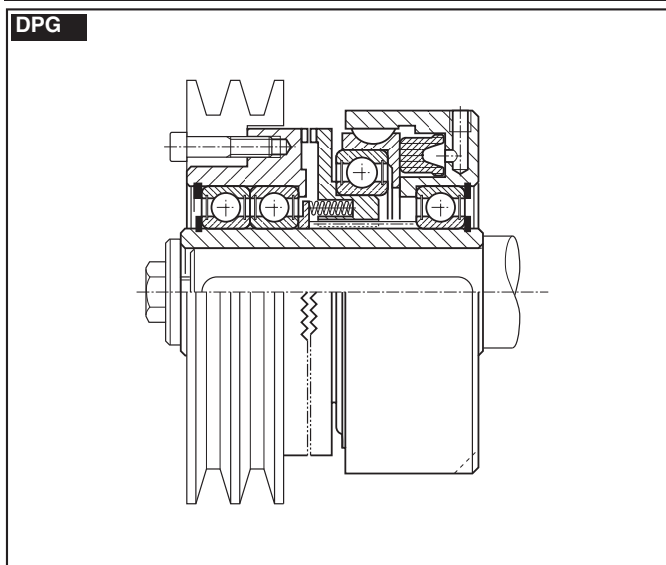
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PARTS LIST

1. CENTRAL HUB
2. CYLINDER
3. PISTON
4. TOOTHED RING
5. SPRING
6. SPRING COMPRESSION RING
7. TRANSMISSION HUB
8. SEAL RING
9. SLEEVE BEARING
10. PISTON BEARING
11. HUB BEARING
12. OUTER SAFETY RING
13. INNER SAFETY RING
14. COUPLING FLANGE
15. FLEXIBLE COUPLING

EXAMPLES OF MOUNTING

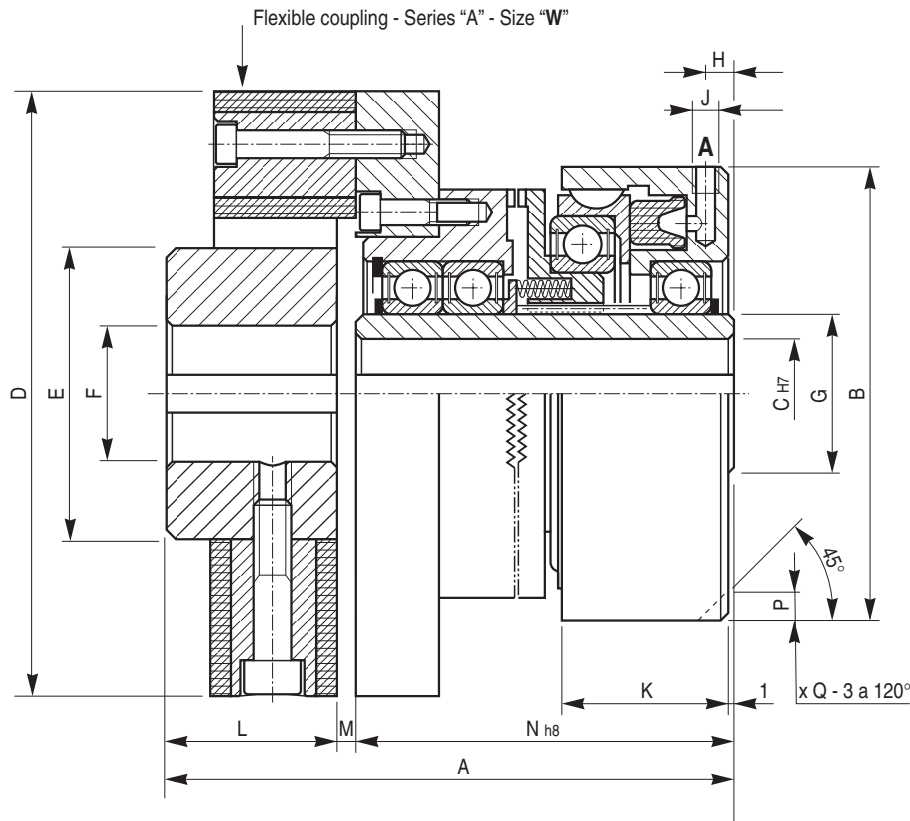


**TOOTH-TYPE PNEUMATIC COUPLING
WITH FLEXIBLE COUPLING**

DPG..

03

MODEL DPG □□
CODE 03.22.□□.01



A = Air supply

□□	Torque - COUPLING Ms(Nm)	R.P.M. max	Working pressure (bar)	Cylinder volume (cm ³)	Coupling size W	Weight (kg)
00	110	3000	6	6	8	5,8
01	160	3000	6	8	12	6,5
02	260	2400	6	12	16	9,8
03	350	2400	6	15	22	11,4
04	550	2000	6	25	30	19,5
05	750	2000	6	30	50	21,9
06	1300	1600	6	40	90	36,4
07	2100	1400	6	50	140	45,7

□□	A	B	C		D	E	F		G	H	J	K	L	M	N	PxQ	X	Y	α	γ
			min	max			min	max												
00	132	97	14	20	120	60	12	38	30	7	1/8"	38	42	4	86	9 x 10	2	1	1°	7°
01	139	115	15	25	122	60	12	38	35	7	1/8"	46	42	4	93	10x10	2	1	1°	4°
02	154	127	18	34	150	70	15	48	45	7	1/8"	44	50	6	98	10x10	3	1	1°	7°
03	157	134	18	34	150	70	15	48	45	7,5	1/8"	45	50	6	101	10x10	3	1	1°	4°
04	186	153	20	46	200	100	20	65	60	9	1/4"	49	66	8	112	12x12	3	1	1°	7°
05	187	167	25	50	200	100	20	65	65	9	1/4"	55	66	8	113	12x12	3	1	1°	4°
06	217	193	30	60	260	125	30	85	75	9	1/4"	60	80	8	129	12x12	3	1	1°	7°
07	234	216	30	68	260	125	30	85	85	9	1/4"	65	80	8	146	14x14	3	1	1°	4°