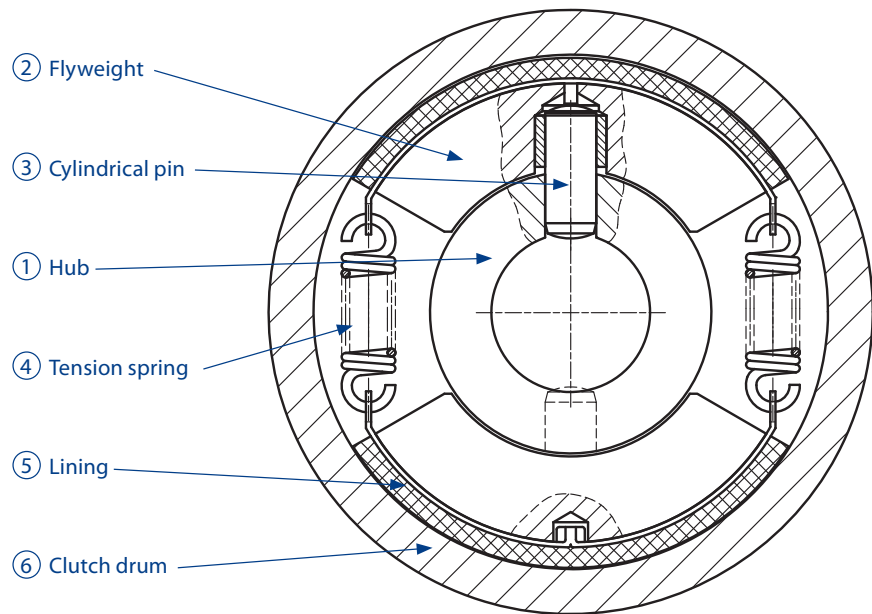


W-Type

Pin-guided clutch with two flyweights

Construction and mode of operation

The cylindrical hub ① carries two flyweights ②, which are located by and can slide on cylindrical pins ③. The tension springs ④ are attached outside the flyweights to lining carriers ⑤. The tension springs restrain the flyweights until centrifugal force overcomes the spring force. Then the flyweights lift from their seats and the linings contact the inside diameter of the clutch drum ⑥. Friction between the linings and the clutch drum allows torque to be transmitted.



Advantages:

The W-Type combines the advantages of F-Type and S-Type clutches. Because the tension springs are easily accessible and the linings removable, the parts subject to wear are easy to replace.

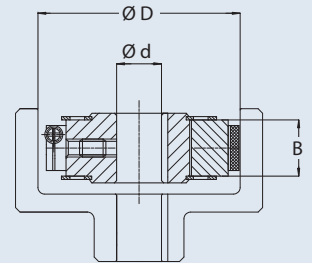
As with the S-Type, the guide pins provide accurate guidance for the flyweights, which ensures quiet operation of the clutch. For this type of clutch, the performance factor for torque transmission is 1.0.

Performance data and dimensions:

Size	D [mm]	B [mm] ¹⁾	d max. [mm]	Standard bore diameter d [mm] (inch) ²⁾	Md at nE 750 and nB 1500 [Nm]	Recommended motor power ³⁾ [kW]	Md at nE 1250 and nB 2500 [Nm]	Recommended motor power ³⁾ [kW]	Md at nE 1500 and nB 3000 [Nm]	Recommended motor power ³⁾ [kW]
04	80	15	15	15	1.7	0.14	4.6	0.6	6.6	1.0
05	90	20	25	14 (⁵ / ₈)	3.7	0.3	10.3	1.4	14.8	2.3
06	100	20	30	30	5.7	0.45	16.0	2.0	23.0	3.6
07	110	20	40	-	8.6	0.7	24.0	3.2	34.5	5.5
08	125	20	40	20; 30 (1 ¹ / ₂)	14.0	1.0	38.5	5.0	55	8.5
09	138	25	55	-	27.0	2.2	75.0	9.8	110	17
10	150	25	60	38 (1 ¹ / ₈)	36.5	3.0	102	13	145	23

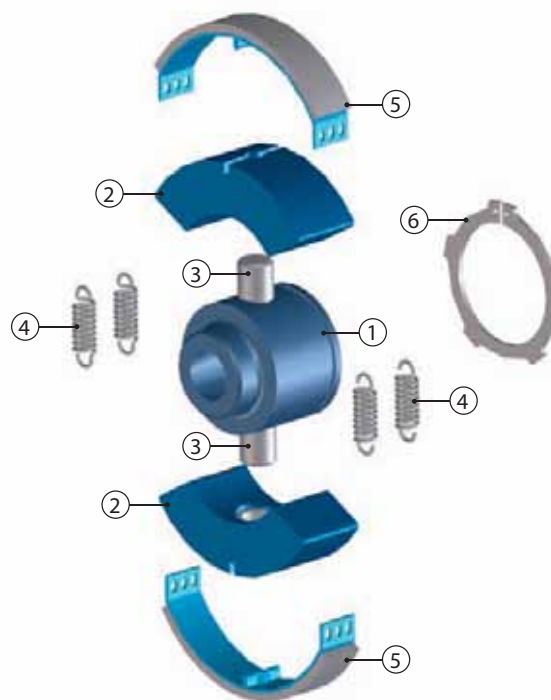
- 1) The transmitted power increases as the width B is increased.
- 2) Tapered bores and special dimensions can be manufactured on request.
- 3) Motor power is calculated using a safety factor of 2.
Final selection of the clutch should be carried out by SUCO!

d max. = max. bore dia.
Md = torque
nE = engagement speed
nB = operating speed



d = bore dia.
D = inside dia. of drum
B = flyweight width

Exploded view of W-Type



- ① Hub
- ② Flyweight
- ③ Cylindrical pin
- ④ Tension spring
- ⑤ Lining
- ⑥ Circlip