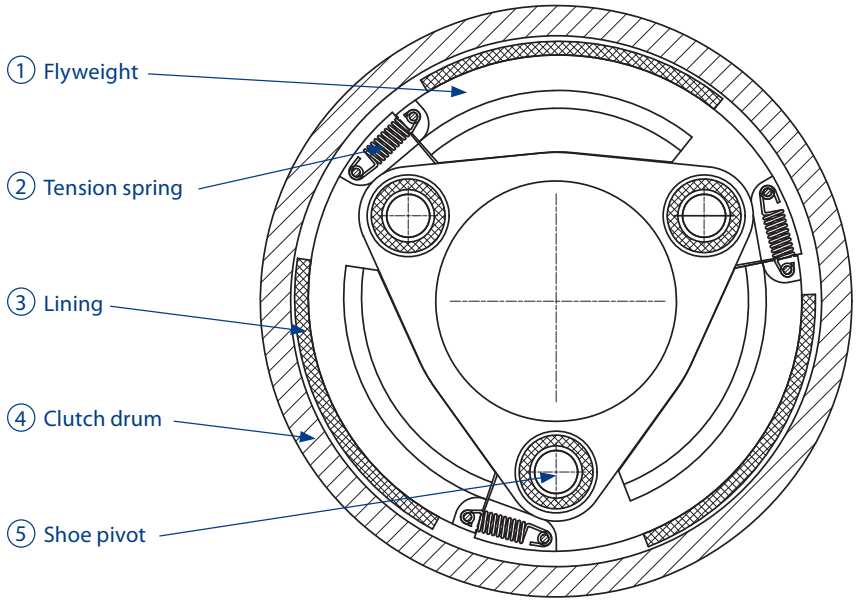
P-Type Asymmetric pivot clutch

Construction and mode of operation

Flyweights ① are normally mounted so that they can pivot on pins ⑤, which are fitted to a flange.

There are tension springs ② which restrain neighbouring flyweights until centrifugal force overcomes the spring force. Then the flyweights lift from their seats and the bonded linings ③ contact the inside diameter of the clutch drum ④.

Due to the asymmetric arrangement of the flyweights, the torque that can be transmitted by this type of clutch depends on the direction of rotation.



Advantages:

P-Type clutches are extremely narrow.

In addition, the asymmetric pivot clutch is the quietest-running clutch in the SUCO product range. For this type of clutch, the performance factor for torque transmission is ca. 1.75 or ca. 1.25 depending on the direction of rotation.

Performance data and dimensions:

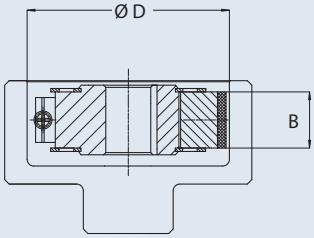
P-Type clutches are flange mounted; for this reason standard bore diameters are not given. Possible bore sizes will be given on request.

Size	D [mm]	B [mm] 1)	Md bei nE 400 and nB 1400 [Nm]	Recommended motor power 2) [kW]	Md at nE 1250 and nB 2500 [Nm]	Recommended motor power 2) [kW]
11	187.5	30	175	13	460	60
12	193	30	180	14	500	70

Other sizes are available on request.

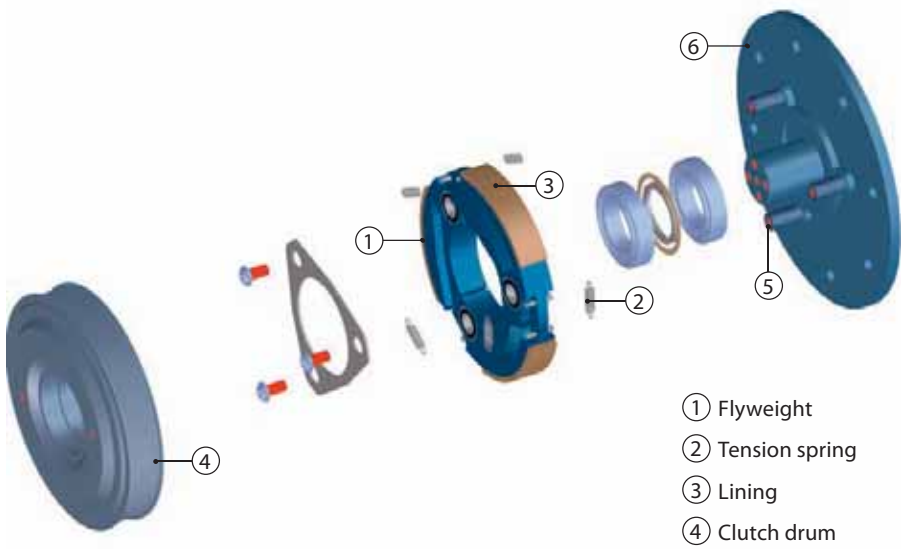
1) The transmitted power increases as the width B is increased.
2) Motor power is calculated using a safety factor of 2.
Final selection of the clutch should be carried out by SUCO!

Md = torque
nE = engagement speed
nB = operating speed



D = inside dia. of drum
B = flyweight width

Exploded view of P-Type



1 Flyweight
2 Tension spring
3 Lining
4 Clutch drum
5 Shoe pivot
6 Flange