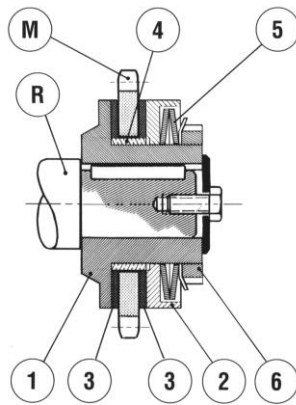




- M : Component
- R : Shaft
- 1 : Hub
- 2 : Box
- 3 : Friction packing
- 4 : self-lubricating ring
- 5 : Flexible parts
- 6 : Adjustment nut (with braking washer)



Function : Torque transmission between a component (M) and a shaft (R) by friction with declutching by slipping when the torque exceeds the setting off value

General characteristics

- torque adjustment range : 1,5 to 2400 Nm
- all steel (sturdy), smooth exterior profile (easy cleaning)
- protection from oxydation by phosphatation (other protection on demand)
- standard friction packing made of synthetic material with no metallic components and no asbestos
- maximum use temperature : 250°C

Apparatus selection

- set the clutch in the drive chain just next to the mechanism to be protected
- setting off torque established from the nominal torque C (Nm):

$$C = 9550 \times \frac{P}{N}$$
 P : engine power (kW)
N : clutch rotation speed (rpm)
- this value must be put up by 50% to 100% to take the starting overtorque due to the inertia of the dragged mechanism into account

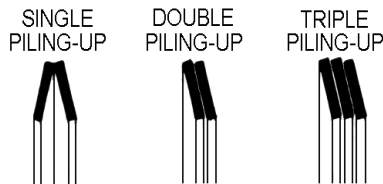
Assembly and adaptation

- pre-bored or bored with a standard keyway.
- three types of locking on :
 - on the end of the shaft
 - radial screw on a flat part (except size 0)
 - radial screw under the self-lubricating ring
 (radial screws : disposition on the keyway recommended)

- component centred on a self-lubricating ring (to avoid sticking)
- parallel sides of the mobile with good rubbing qualities
- component thickness included between a maximum and a minimum given in the tables (dimension G)
(if the thickness is under the maximum, reduce the centring ring by machining the difference : maximum - thickness)

Torque adjustment

- selection of working conditions and torque range according to different assemblies of flexible parts (single, double or triple piling-up)



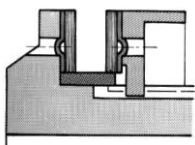
Torque	Speed	Slipping	recommended piling up
reduced	high	frequent, prolonged	single
medium	medium	moderate	double
high	reduced	short, occasional	triple

- precise adjustment thanks to graduations by tightening the castellated nut (see technical data sheet 77003)

Maintenance

- regularly check the adjustment of the apparatus, Tighten the nut if necessary to compensate for the wear of the friction disc.
- the maximum wear of the friction disc is reached when its thickness is half reduced

Options

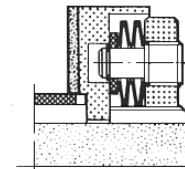
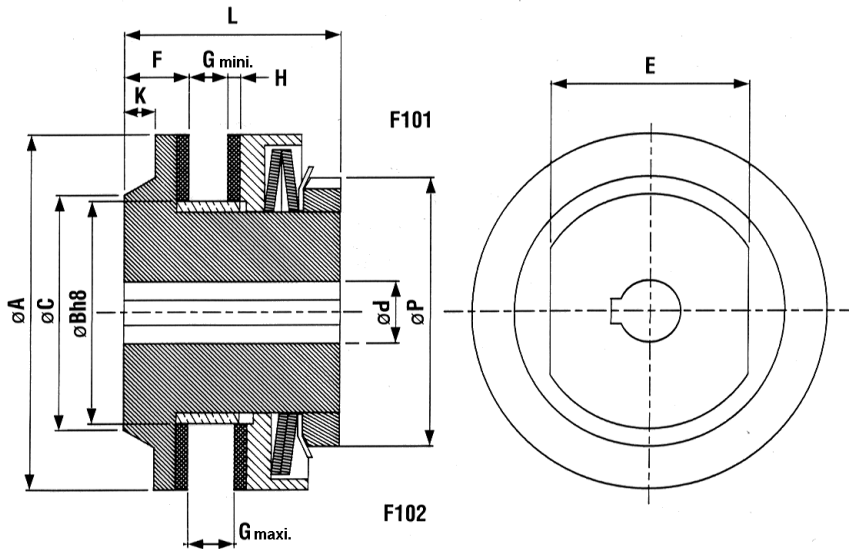


warning : the triple piling-up of the washers is impossible the maximum thickness of the mobile is then decreased

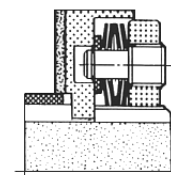
- bronze packings : allows work in oil (torque and adjustment values : ask us)

- torque limiter fitted with a platewheel (see data sheet 77002)
- torque limiter associated to a COFLEX flexible interlocking coupling pre-bored or VECOBLOC hub option (see data sheet 77002)
- torque limiter with reduced flange and long hub allows use of mobiles of very small diameter and important thickness (see data sheet 77002)
- possibility of completing the action of the clutch by an under speed detector which permits to signal the slip of the torque limiter in case of overload and to stop the engines (see technical data sheet 78001)





Type 101
Size 6



Type 102
taille 6





Size	Slipping moment Nm (1)			Maximum speed (1) rpm	Pre-bored mass kg	A	B ^{h8}	C	d	
	Type 101 single piling-up	Type 102 double piling-up	Type 103 triple piling-up						pre-bored	maximum
00	1,5 - 7,5	3,8 - 15	-	10000	0,2	38	24	20	5	12
0	3 - 15	7,5 - 30	-	7500	0,4	50	38	33	8	20
1	14 - 70	35-140	60 - 200	5600	1	70	45	44	10	25
2	25 - 125	63 - 250	120 - 400	4300	1,8	90	60	60	14	35
3	50 - 250	125 - 550	240 - 800	3300	3,4	115	72	76	20	45
4	110 - 550	275 - 1100	480 - 1600	2700	6	140	85	92	25	55
5	140 - 700	350 - 1400	630 - 2100	2200	9,8	170	100	106	28	65
6	240 - 1200	600 - 2400	-	1900	14	202	120	120	28	80

Size	Available standard boring (2)	E	F	G Standard packing		G anti-rust maxi.	H	K	L	P	Key
				mini.	maxi.						
00		22	8,5	3	4	-	2,5	3	28	32	HN 4
0		28	12	4	5	-	3	4	35	46	HN 7
1	20 - 25	40	18	5	9	7	4	8	55	56	HN 8
2	25 - 28 - 30	50	19	6	11	9	4	9	60	74	HN 11
3		64	21	6	15	13	4	10	70	87	HN 13
4		80	24	6	17	14	5	10	87	105	HN 16
5		90	29	8	20	17	5	14	99	116	HN 18
6		105	31	8	24	-	5	14	105	190	-

(1) Values indicate are admissible for torque limiters fitted with dry standard packings.

For other packings and explosion-proof conditions, ask us.

(2) With keyway according to standard NFE22.175.

(3) The assembly with triple piling-up is not possible with anti-rust packings.