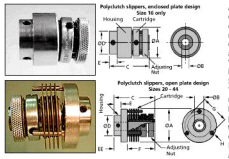
MBA

Clutches - Friction - Polyclutch



A polyclutch slipper controls torque for intermittent, continuous or overload slip. It will drive in both directions, slip when torque setting is reached, and resume driving as the load is reduced. Slippers are excellent as continuous drag brakes, protection against accidental or intentional overloads, for "soft starts", slip at end of stroke etc. Torque control in one direction only can be provided by combining a Slipper with a POLYCLUTCH Hub Pak.
The Slipper is a small precision device containing a number of brass plates interfaced with an improved long life friction material. Soft springs maintain pressure on the friction members, assuring constant torque. An adjacent member of your mechanism can often be used as the Slipper housing.
Backlash of 6° is standard; 2° backlash available on request.
Adjustable Torque: For shaft to shaft coupling. Set screw housings in both housing and cartridge.

Example: The SAS20-6 can dissipate 6 Watts continuously.
This translates to:

in.lbs	@ rpm	@ % slip
10	50	100
1	500	100
1	1000	50
1	2000	25

% slip means within 5 mins. max. time period,
e.g. 25%=25s of slip, 75s of rest, not 25/75 mins.
As a rule, slip speed in rpm x torque in in-lbs x duty cycle in % x 0.011 = Watts

Other Info.
A clutch slipper controls torque for intermittent, continuous or overload slip. It will drive in both directions, slip when torque setting is reached, and resume driving as the load is reduced. Slippers are excellent as continuous drag brakes, protection against accidental or intentional overloads, for "soft starts", slip at end of stroke etc. Torque control in one direction only can be provided by combining a Slipper with a CLUTCH Hub Pak.
The Slipper is a small precision device containing a number of brass plates interfaced with an improved long life friction material. Soft springs maintain pressure on the friction members, assuring constant torque. An adjacent member of your mechanism can often be used as the Slipper housing.
Size 16 & 20 use #8-32 UNC setscrews, 5/64" (0.078") hex key.
Size 24, 32 & 44 use 1/4-28 UNF setscrews, 1/8" (0.125") hex key.

Backlash of 6° is standard; 2° backlash available on request.

Adjustable Torque.

This catalogue to be read in conjunction with information at http://www.minibearings.com.au/ogue/tech/clutches/cfm.pdf

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Part Number	Overall Diameter (A) mm	Bore Size (B) mm	Max Bore Size (B Max) mm	Overall Length (C) mm	Hub Diameter (D) mm	Hub Length (E) mm	Capacity at 50 rpm Nm	Capacity at 50 rpm Watts	Friction Surfaces	F / G / H mm
	inches	*inches*	*inches*	*inches*	*inches*	*inches*				*inches*
# SAS16-6	25.40 *1.000*	6 (+0.05 -0.00)	9.53 *0.375*	33.27 *1.310*	19.30 *0.760*	6.35 *0.250*	1 - 128	5.80	8	- / - / -
# SAS20-6	31.75 *1.250*	6 (+0.05 -0.00)	9.50 *0.374*	38.10 *1.500*	19.30 *0.760*	6.35 *0.250*	1 - 135	6.00	8	25.40 / 26.98 / 2.39
# SAS24-10	38.10 *1.500*	10 (+0.05 - 0.00)	12.70 *0.500*	63.50 *2.500*	25.65 *1.010*	9.40 *0.370*	5.5 - 322	14.50	12	44.45 / 33.33 / 3.18

 # Indicates item not stocked at time of printing - Please enquire for lead time

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MBA Size Listings are a guide to sizes only and must not be solely relied on for critical design information.

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Part Number	Overall Diameter (A) mm	Bore Size (B) mm	Max Bore Size (B Max) mm	Overall Length (C) mm	Hub Diameter (D) mm	Hub Length (E) mm	Capacity at 50 rpm Nm	Capacity at 50 rpm Watts	Friction Surfaces	F / G / H mm
	inches	*inches*	*inches*	*inches*	*inches*	*inches*				*inches*
# SAS32-12	50.80	12 (+0.05 - 0.00)	15.88	72.90	35.05	12.70	9 - 564	29.00	12	47.75 / 42.47 / 4.78
	2.000		*0.625*	*2.870*	*1.380*	*0.500*				
# SAS44-14	69.85	14 (+0.05 - 0.00)	15.88	72.90	41.40	12.70	11 - 846	43.00	12	47.75 / 60.33 / 4.78
	2.750		*0.625*	*2.870*	*1.630*	*0.500*				

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