

## Actuator AG 2591

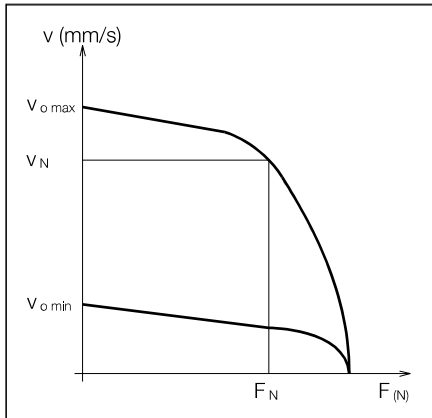
for reel stand guiders

The actuator positions the reel stand axially in relation to the set position. It consists of a shunt-wound D.C. planetary geared motor with ball screw, characterized by high efficiency and precise positioning movements.

The follow-up speed is very accurately defined through the feedback provided by the integrated encoder to the controller. When the drive reaches its limit position (max. motor current) it is cut out by the digital web guider.

Actuator AG 2591 incorporates mechanical stops. A gaiter protects the screw totally against the ingress of dirt. In addition to its application on reel stands, actuator AG 2591 is also used to position roller assemblies, for example on pivoting frames.



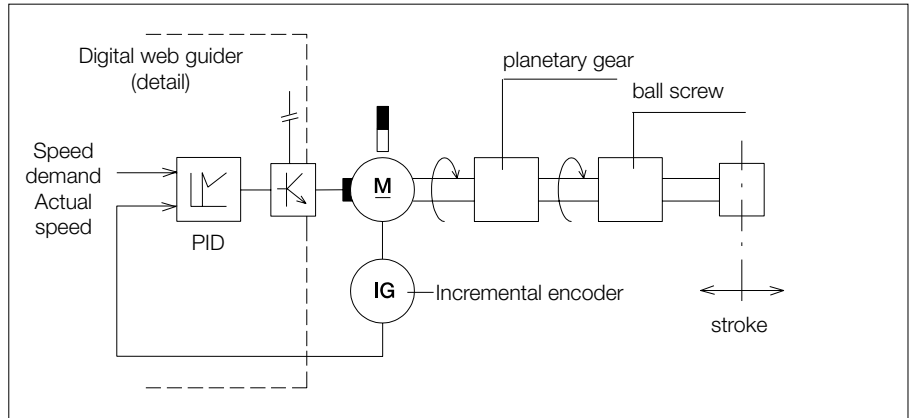


The nominal positioning force  $F_N$  of the actuator should exceed the break-away force  $F_L$  of the reel.

Calculation of the break-away force  $F_L$  (N):

$$F_L = G \cdot \mu_0$$

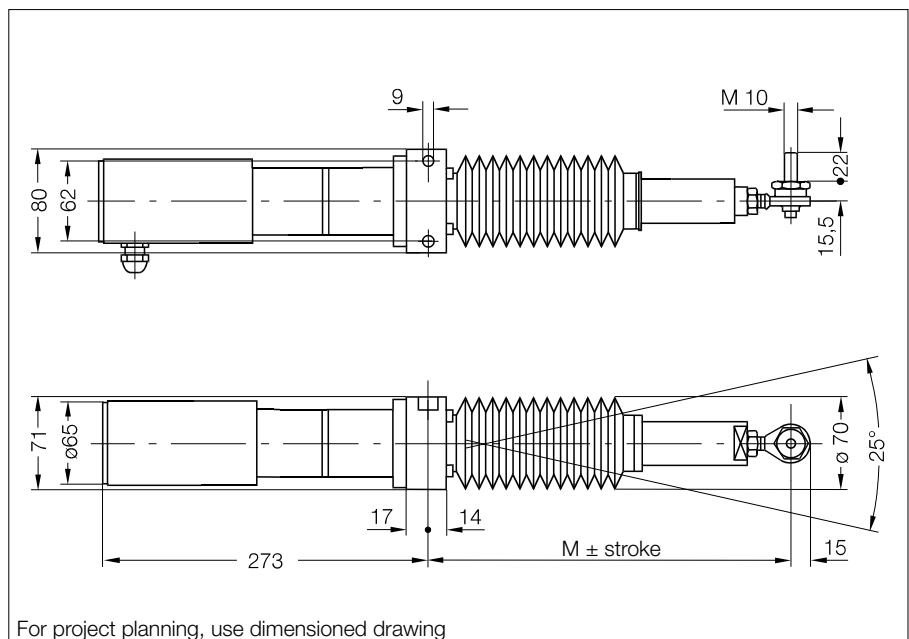
$G$  total reel weight (N)  
 $\mu_0$  friction coefficient  
 (e.g. 0.1 if roller bearing is used)



### Technical Data

Stroke	$\pm 25$ mm	$\pm 25$ mm	-
	$\pm 50$ mm	$\pm 50$ mm	-
	$\pm 75$ mm	$\pm 75$ mm	-
	$\pm 100$ mm	$\pm 100$ mm	-
	-	-	$\pm 175$ mm
Weight	4.2 kg		
Nominal positioning force $F_N$	1000 N	2500 N	500 N
Nominal follow-up speed $V_N$	24 mm/s	10 mm/s	24 mm/s
Nominal rated current $I_N$	2.9 A		
Nominal voltage	24 V DC		
Protection class	IP 54		
Ambient temperature	0 °C to + 50 °C		
Incremental encoder resolution	32 impulses per resolution		

Subject to technical modifications without notice



M (mm)	Stroke (mm)
280	$\pm 25$
355	$\pm 50$
430	$\pm 75$
505	$\pm 100$
730	$\pm 175$

For project planning, use dimensioned drawing