

# Swivel/linear unit DSL-B

FESTO



The Festo swivel/linear unit DSL-B available in sizes 12 - 40 represents the next generation of semi-rotary drives. In principle a ready-to-install combination of the tried and tested standard cylinder DNC and the semi-rotary actuator DSM-B.

### Areas of application

The perfect solution for all areas of application requiring space saving, combined swivel/linear movement. The swivel/linear unit DSL-B - provides greater performance at an established price level.

### Comparison: DSL-B to DSL-A

The DSL-B differs from the established DSL-A in the following areas:

- It absorbs high torques thanks to a sturdy ball bearing guide fitted as standard
- Freely definable swivel angle up to 270°
- Even greater repetition accuracy thanks to new cushioning

components with fixed stop, either in the form of flexible cushioning pads or via shock absorbers

- Swivel angle with closely graduated adjustment
- Mechanically coupled cushioning mount and drive housing. Even when overloaded the cushioning mounts are not displaced
- Attractively priced and compact sensing with SMx-10F proximity sensors
- A cover cap is available for all DSL variants. And of course also available are shock absorbers and proximity sensors



Flexible



Efficient



Protected

166.1.PSI →

Product Short Information

# Swivel/linear unit DSL-B

Technical data					
Size	16	20	25	32	40
Stroke [mm]	1 ... 160				
Swivel angle flexible cushioning [°]	270				
Swivel angle hydraulic cushioning [°]	246				240

## Mode of operation

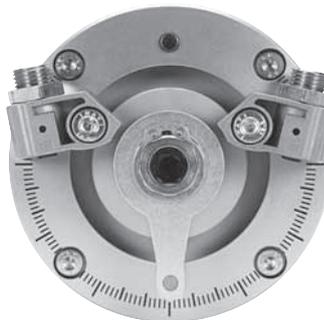


Forces and torques					
Size	16	20	25	32	40
Torque at 6 bar [Nm]	1.25	2.5	5	10	20
Theoretical force at 6 bar, advancing via plain-bearing guide [N]	102.5	159	246	422.5	660
Theoretical force at 6 bar, advancing via recirculating ball bearing guide [N]	103.5	158	248	403.5	603
Theoretical force at 6 bar, retracting [N]	73.5	120.5	173.5	294	495
Max. permissible effective load [g]	1000	3000	6000	9000	14000
Max. permissible lateral force on piston rod at max. stroke [N]	3.3	5.5	12	35	70

## Hydraulic cushioning and sensing option



## Flexible cushioning



## Festo AG & Co. KG

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