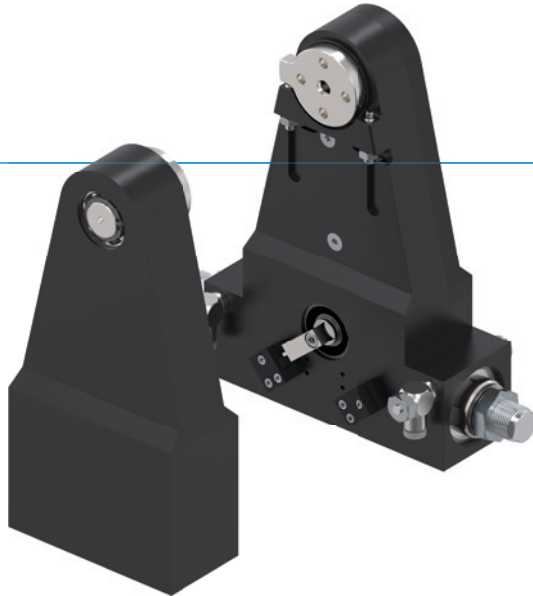


SWIVEL JAWS

SERIES SBZ

► PRODUCT ADVANTAGES



“The superior”

► Shock absorber with spiral groove technology

Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine's component output

► Force transmission via gear wheel set

The robust gear wheels stand for precision, reliability and long service life and guarantee smooth operation

► Failure-free continuous operation

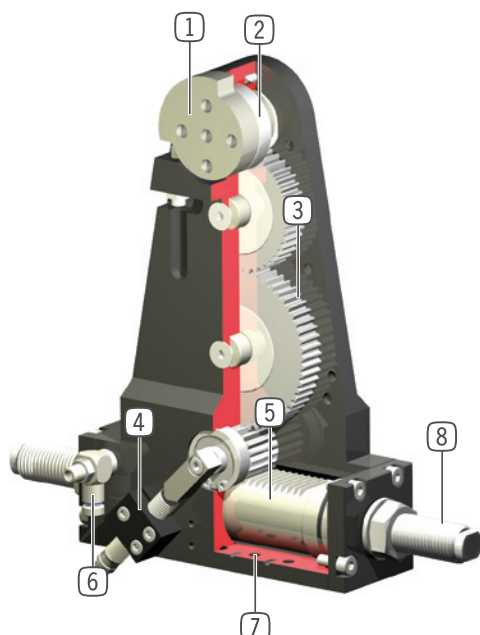
Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

► SERIES CHARACTERISTICS

Installation size		Version		
SBZXXX		-90	-180	G
 10 million maintenance-free cycles (max.)		•	•	
 IP54		•	•	
 Inductive sensor		•	•	
 Flange		•	•	•
 Powerstop end position damping		•	•	
 End positions adjustable +/- 3°		•	•	
 Positionability - 2 positions		•	•	
 Rotation angle 90°		•		•
 Rotation angle 180°			•	•
 Counter bearing without drive				•



► BENEFITS IN DETAIL



- ① **Two way bearing drive shaft**
 - high forces and moments capacity
- ② **Drive flange**
 - large size drive flange with end stop and large central hole (from SB150)
- ③ **Force transfer**
 - stable gear wheel set
 - precise, reliable, durable
- ④ **Position sensing**
 - inquiry of end positions 0° and 90° (or 180°) via inductive proximity switch
 - adjustable on rotatable switch cam
- ⑤ **Drive**
 - double-acting pneumatic cylinder
- ⑥ **Air flow control valve**
 - for speed regulation (included in the delivery)
- ⑦ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑧ **Integrated and patented hydraulic shock absorbers**
 - adjustable end position damping

► TECHNICAL DATA

Installation size	Swivel angle [°]	Torque [Nm]	Weight [kg]	IP class
SB50	90 - 180	1,2	0,47 - 0,78	IP54
SB74	90 - 180	3,5	1,1 - 1,9	IP54
SB100	90 - 180	10	2,7 - 4,3	IP54
SB150	90 - 180	23	6,6 - 11	IP54
SB190	90 - 180	57	20 - 26	IP54

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

SWIVEL JAWS

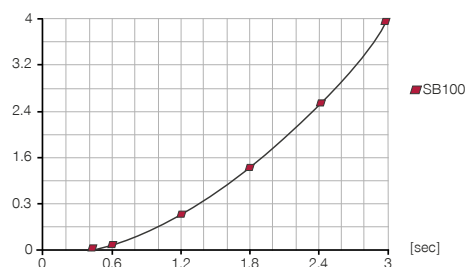
INSTALLATION SIZE SB100

► PRODUCT SPECIFICATIONS



► Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



► Forces and moments

Indicates the static load on the bearing.



Fa [N]	4000
Mr [Nm]	70
FD [N]*	2000
FZ [N]*	1200

► INCLUDED IN DELIVERY



2 [piece]
Mounting block
KB8K-02



2 [piece]
Flow Control Valves - with Swivel joint
DRV1-8X6

► RECOMMENDED ACCESSORIES



ENERGY SUPPLY



DSV1-8
Pressure safety valve



DSV1-8E
Pressure safety valve with quick exhaust



SENSORS



NJ8-E2
Inductive proximity switch - Cable 5 m



NJ8-E2S
Inductive proximity switch - M8



CONNECTIONS / OTHER



KAG500
Plug-in connector Straight Cable 5m - female connector M8



KAW500
Plug-in connector Angled Cable 5m - female connector M8



S8-G-3
Plug-in connector customizable Straight - male connector M8



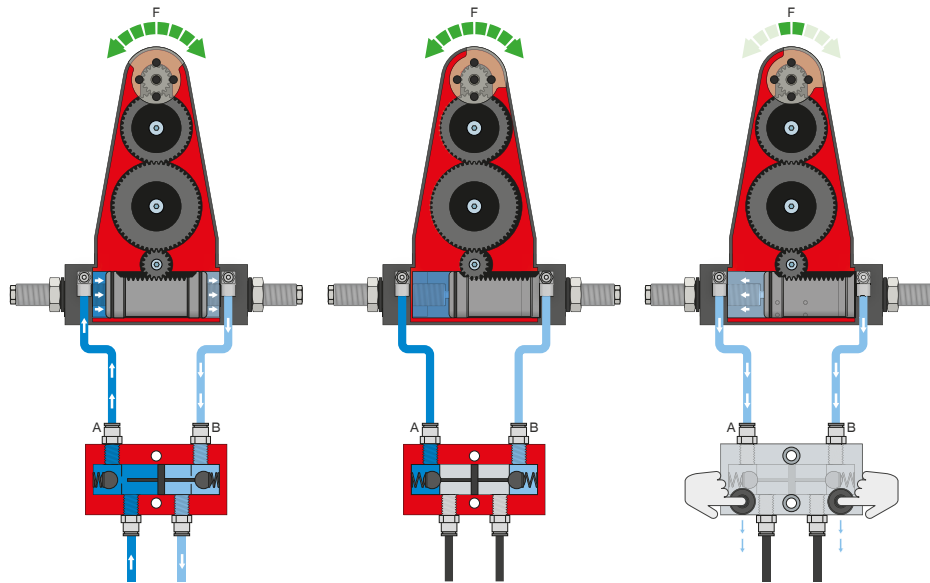
S12-G-3
Plug-in connector customizable Straight - male connector M12

SWIVEL JAWS

SERIES SBZ FUNCTIONAL DESCRIPTION



ENERGY SUPPLY



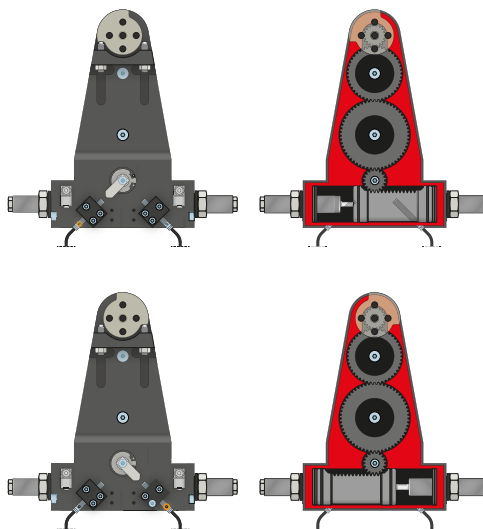
Pressure safety valve – DSV

Ensures safe retention of force and position if the system pressure drops

The integrated double check valve, which can be unlocked, retains the system pressure of the swivel jaw in case of EMERGENCY STOP. To ensure the function, the valve must be installed as close to the swivel jaw's air connection as possible. In variant E, two pushbuttons are installed that allow for controlled bleeding of the swivel jaw.



SENSORS

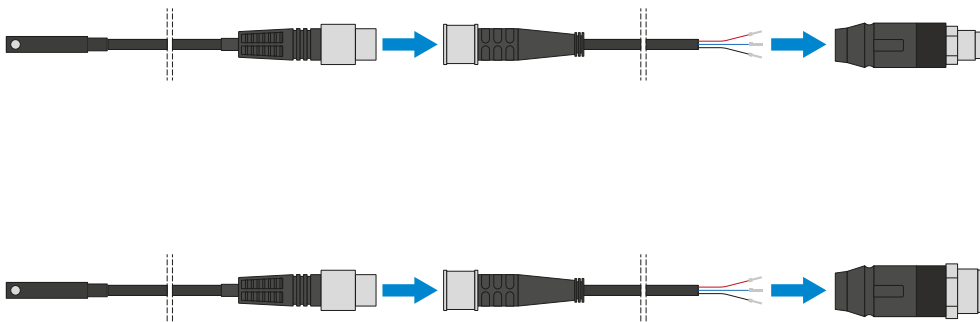


Inductive sensors – NJ

The sensor is inserted into the mounting block as far as it will go and secured. Tuning to the desired position then takes place by adjusting the cam switch. The sensors are available in versions with 5 m cables with exposed leads and 0,3 m cable with male connector, as well as with direct male connector orientation.



CONNECTIONS / OTHER



Plug-in connectors

For extending and fabricating the connection lines for the sensors

Cables with a length of 5 m with exposed leads are available. Depending on the specific needs, the cables can be shortened or fabricated with connectors in sizes M8 and M12.