

# Semi-rotary vane drive DRVS

FESTO

Perfect  
swivelling!



## Double the advantage!

### Highlights

- Simple and compact design
- Great performance at an attractive price
- Optional: infinitely adjustable swivel angle
- Innovative sensing, without the need for mechanical adjustment

**Concentrating on the essentials: the attractively priced semi-rotary vane drive DRVS has everything you would expect from a swivel drive – with powerful rotation and a highly innovative design. The new sensor solution SRBS can be fitted in a second and is infinitely adjustable. That saves time and money.**

#### Made for rotation

Compact and sealed, low weight, optional sensing and high torque ratings of up to 20 Nm are what make the DRVS powerful, even in harsh environments. It is easy to install and rotates continuously – by your choice up to 90°/180° or 270°.

#### Position detection made easy

Fitting semi-rotary drives with sensors has never been so easy, reliable, uncomplicated and error-free thanks to the installation and teach-in of switching points with the position sensor SRBS-Q1/Q12. These closed, encapsulated units can be quickly screwed into place and switching points can be taught in electronically by pressing a button. And you're ready to go!



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# Semi-rotary vane drive DRVS

General technical data							
Size	6	8	12	16	25	32	40
Pneumatic connection	M3		M5			G1/8	
Cushioning	Elastic cushioning at both ends						
Installation position	Any						
Swivel angle [°]	90, 180		90, 180, 270				
Cushioning angle [°]	0.5						
Repetition accuracy [°]	1						
Swivel frequency at 6 bar [Hz]	3		2				
ATEX variants available							

Forces and torques							
Size	6	8	12	16	25	32	40
Theoretical torque at 6 bar [Nm]	0.15	0.35	1	2	5	10	20
Max. perm. dyn. axial force $F_x$ [N]	10	10	20	25	40	75	120
Max. perm. dyn. radial force $F_z^*$ [N]	15	20	25	30	60	200	350
Max. perm. mass moment of inertia [ $\text{kgm}^2 \times 10^{-4}$ ]	6.5	13	50	100	120	200	350

\* On the driveshaft

## Truly powerful together: DRVS and SRBS

### The advantages of the position sensor SRBS-Q1/Q12

- Contactless position sensing without mechanical adjustment
- Quick and easy installation without the need to search for switching points
- Encapsulated design, long service life and reliable operation



SRBS-Q1/Q12	Position sensor
Sensing range [°]	0 ... 270
Mounting	Can be screwed directly onto DRVS, DSM without accessories
Operating voltage [V DC]	24
Cable quality	Energy chain + robot
Cable length [cm]	30
Connection technology	M8 4-pin, rotatable thread
Switching output	2 switching outputs, switching function of cylinder sensor  Programming options: Switching position PNP/NPN N/O / N/C
Repetition accuracy [°]	≤1
Operation	Via pushbutton on device
Protection classes	IP65, 68
Miscellaneous	Short circuit protection, reverse polarity protection, overload protection

## Additional accessories

- DADP-ES: stop kit with angle adjustment
- DAMH: foot mounting

