

CRASH PROTECTION SERIES CRR

▶ PRODUCT ADVANTAGES



▶ Adjustable triggering sensitivity

By controlling the air pressure, you can optimally match the sensitivity to your application.

▶ Integrated sensors

If there is a collision, the integrated sensor gives a signal to the control system to trigger an emergency stop.

▶ Automated reset

After an emergency stop, you can reset the collision protection from a safe distance. This is an advantage primarily when entering the system is undesirable, dangerous or is possible only with difficulty.

▶ THE BEST PRODUCT FOR YOUR APPLICATION



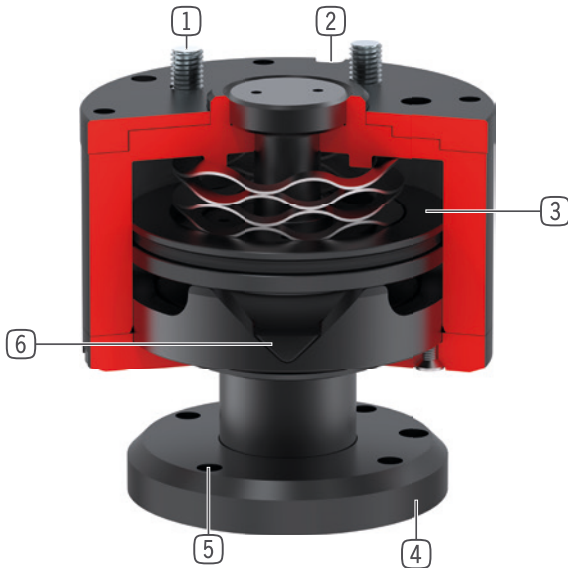
▶ Our products welcome the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

www.zimmer-group.com

► BENEFITS IN DETAIL



- ① **Robot connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ② **Piston position sensing**
 - The sensor generates a signal that can be evaluated to recognize an overload.
 - Magnetic field sensor included in delivery
- ③ **Drive**
 - single-acting pneumatic cylinder
 - response sensitivity adjustable via operating pressure
 - with integrated spring
- ④ **Overload recognition and compensation**
 - In Z direction
 - Tilting in horizontal direction
 - Rotation around the Z-axis
- ⑤ **Connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ⑥ **Reset**
 - Pistons are used to move the connecting flange to its initial position.

► TECHNICAL DATA

| Installation size | Connecting flange according EN ISO 9409-1 | Z-axis deviation | Repetition accuracy axial +/- |
|-------------------|---|------------------|-------------------------------|
| | | [mm] | [mm] |
| CRR40 | TK 40 | 8 | 0.01 |
| CRR50 | TK 50 | 12 | 0.01 |
| CRR63 | TK 63 | 15 | 0.01 |

► 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.

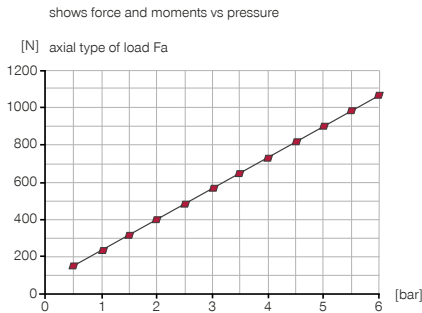
CRASH PROTECTION

INSTALLATION SIZE CRR40

▶ PRODUCT SPECIFICATIONS

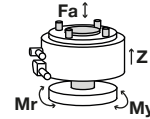


▶ Air pressurization

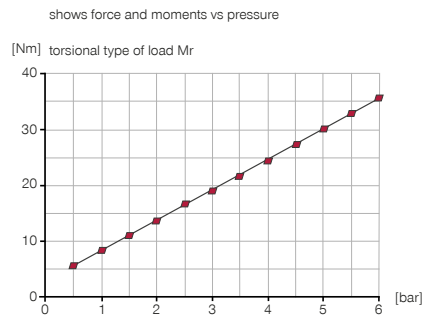


▶ Forces and moments

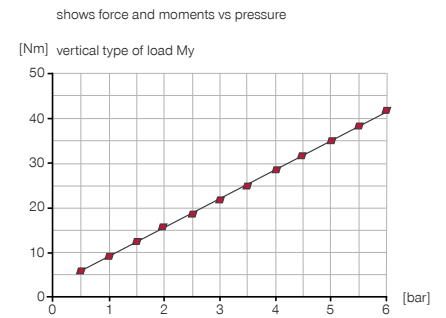
See diagram for max. forces and torques



▶ Air pressurization



▶ Air pressurization



▶ INCLUDED IN DELIVERY



1 [piece]
Magnetic field sensor straight, cable 0.3 m - M8 connector
MFS02-S-KHC-P1-PNP

▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GVM5
Straight Fittings - Quick Connect Style



WVM5
Angled Fittings - Quick Connect Style



CONNECTIONS / OTHER



KAG500
Plug-in connector Straight Cable 5m - Socket M8 (female)



KAW500
Plug-in connector Angled Cable 5m - Socket M8 (female)



| Order no. | Technical data |
|--|----------------|
| Connecting flange according EN ISO 9409-1 | TK 40 |
| Z-axis deviation [mm] | 8 |
| Repetition accuracy axial +/- [mm] | 0.01 |
| Axial response sensitivity [mm] | 0.5 |
| Horizontal deviation +/- [°] | 14.0 |
| Repetition accuracy Radial +/- [min] | 4 |
| Radial response sensitivity [°] | 1.5 |
| Z-axis rotation [°] | 21 |
| Repetition accuracy rotatory +/- [min] | 4 |
| Response sensitivity rotatory [°] | 1 |
| Operating pressure [bar] | 0.5 ... 6 |
| Nominal operating pressure [bar] | 6 |
| Operating temperature [°C] | 5 ... +80 |
| Air volume per cycle [cm ³] | 14.60 |
| Moment of inertia around the Z-axis [kgcm ²] | 2.64 |
| Weight [kg] | 0.61 |

