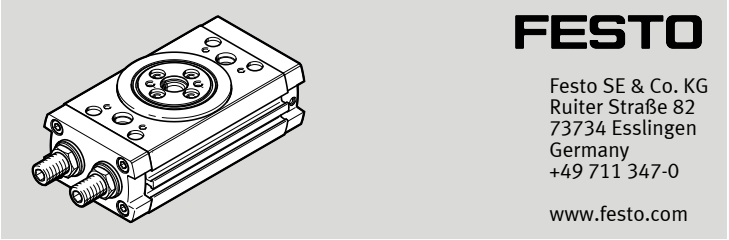


DRRD-...-EX4-...
Quarter turn actuator



Operating conditions | EX

8102091
 2018-11b
 [8102093]



Translation of the original instructions

1 Identification EX

Identification mark		
	II 2G	Ex h IIC T4 Gb
	II 2D	Ex h IIIC T120°C Db
		−10°C ≤ T _a ≤ +60°C

Tab. 1

2 Further applicable documents

NOTICE!

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the technical data in this document always have priority.

All available documents for the product → www.festo.com/pk.

3 Function

The semi-rotary drive DRRD-... is a double-acting twin-piston drive. By alternating pressurisation of the compressed-air connections the parallel pistons operating in opposite directions drive the pinion shaft, which converts the linear motion to a rotary motion of the drive shaft. The rotation angle can be adjusted by rotation of the cushioning elements.

4 Safety

4.1 Safety instructions

- The device can be used under the stated operating conditions in zone 1, explosive gas atmospheres, and in zone 21, explosive dust atmospheres.
- All work must be carried out outside of potentially explosive areas.
- Extraction of the operating medium outside the potentially explosive area.
- The device is not intended for use with other fluids.

4.2 Intended use

The semi-rotary drive DRRD-... is intended for swivelling payloads which have to execute a defined angular movement.

5 Commissioning

WARNING!

The discharge of electrostatically charged parts can lead to ignitable sparks.

- Prevent electrostatic discharge by taking appropriate installation and cleaning measures.
- Include the device in the system’s potential equalisation.

NOTICE!

Strong charge-generating processes can charge non-conductive layers and coatings on metal surfaces.

NOTICE!

Escaping exhaust air can swirl up dust and create an explosive dust atmosphere.

NOTICE!

Related type of ignition protection: c (constructional safety)

NOTICE!

Particulate matter in the compressed air can cause electrostatic charges.

- Observe the product labelling.
- Seal unused openings with blanking plugs or slot covers.
- Connect the device with hoses as short as possible to prevent additional heating.

When using stops or shock absorbers:

- Adjust the cushioning so that the stop lever safely reaches the end positions and that it does not strike hard against them or rebound.

6 Maintenance and care

- Check the operational reliability of the device regularly. Interval: 1 million movement cycles or after 6 months at the latest.

The replacement of wearing and spare parts is possible in individual cases. Repairs of this type must only be carried out by trained and authorised specialists.

- Please contact your Festo technical consultant.

7 Technical data

Operating conditions		
Max. operating pressure	[bar]	10
Ambient temperature	[°C]	−10 ... +60
Temperature of medium	[°C]	−10 ... +60
Operating medium	Compressed air to ISO 8573-1:2010[7:4:4]	
Mounting position	Any	
All aluminium alloys used contain less than 7.5 % magnesium (Mg).		

Tab. 2