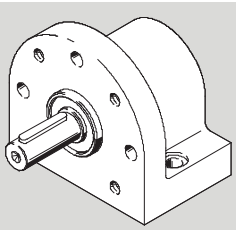
FLSR-10...40-...-EX3-CS
Free wheel unit



FESTO

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Operating conditions I EX

8102694
2018-11c
[8102696]

8102694

Translation of the original instructions

1 Identification EX

Identification		
Ex	II 2G	Ex h IIC T4 Gb X

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 free wheel unit is an attachment which is fitted to the drive shaft of a semi-rotary drive. This converts the oscillating rotary movement of the semi-rotary drive into a synchronous, indexing movement. The movement of the drive shaft of the semi-rotary drive only occurs in the working directions left or right.

4 Safety

4.1 Safety instructions

– The device can be used under the stated operating conditions in zones 1 and 2 of explosive gas atmospheres.
– All work must be carried out outside of potentially explosive areas.
– Only use the free wheel unit in conjunction with a semi-rotary drive DSR-....

4.2 Intended use

The intended use of the device is the infinite adjustment of feed movements.

4.3 Identification X: special conditions

– Danger of electrostatic discharge.
– Ambient temperature: –10°C ≤ T_a ≤ +60°C

5 Commissioning

⚠ WARNING!

The discharge of electrostatically charged parts can lead to ignitable sparks.
- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
- Include the device in the system's potential equalisation.
- Include the shaft separately in the equipotential bonding of the system. The shaft is electrically insulated from the actuator.

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.

NOTICE!

The moving load must be stopped externally.

– Observe the product labelling.

6 Maintenance and care

– Check the operational reliability of the device regularly. Interval: 5 million movement cycles or after 6 months at the latest.
– Repairs are not possible.

7 Fault clearance

Malfunction	Remedy
The mounting is not secure	Tighten the retaining screws
External damage after visual inspection	Replace device
Sluggishness	
Increased noise generation	
Increased bearing clearance	
After 45 mill. movement cycles	

Tab. 2

8 Technical data

Operating conditions		
Ambient temperature	[°C]	0 ... +60
All aluminium alloys used contain less than 7.5 % magnesium (Mg).		

Tab. 3

Size		10	12	16	25	32	40
Max. torque with pmax on DSR	[Nm]	0.7	1.33	2.7	6.6	13.3	26.7
Permitted axial force F_A	[N]	30	50	100	200	75	120
Max. permitted axial force F_A	[N]	10	18	30	50	75	120
Permitted radial force F_R [N] depending on axial distance x							
0 mm		76	140	250	600	460	750
10 mm		59	99	200	480	340	600
20 mm		49	76	170	400	280	500
30 mm		42	62	150	340	230	450
40 mm		–	–	–	310	200	400
50 mm		–	–	–	–	175	350
Permitted impact force F_X [N] depending on axial distance x							
0 mm		153	280	530	650	1100	1400
10 mm		118	200	430	530	850	1150
20 mm		96	150	370	450	680	950
30 mm		81	125	300	380	570	820
40 mm		–	–	–	330	480	730
50 mm		–	–	–	–	420	650

Tab. 4 Special operating conditions