

Guided drives DGRC

FESTO



Key features

At a glance

[Link](#) [dgrc](#)

Drive and guide unit in a single housing:

- Minimal space requirement
- Minimal mounting time
- Wide range of mounting options

Easy mounting:

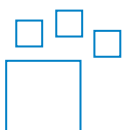
- Drives can be coupled without an additional adapter plate

Sturdy and precise:

- High resistance to torsion
- Excellent rigidity
- Plain-bearing guide for high torque and transverse force absorption
- Maintenance-free

Ordering data – Modular system

[Link](#) [dgrc](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Graphs

[Link](#) [dgrc](#)



The graphs shown in this document are also available online. There, precise values can be displayed.

Guide

[GF] Plain-bearing guide

High rigidity thanks to guide rods with large diameter and four plain-bearing bushes

Cushioning

[P] Elastic cushioning rings/plates at both ends

The drive is fitted with elastic polymer end-position cushioning.

Advantages:

- Saves time

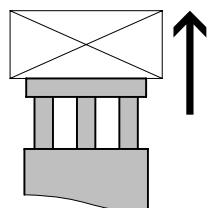
Position sensing

[A] Via proximity switch

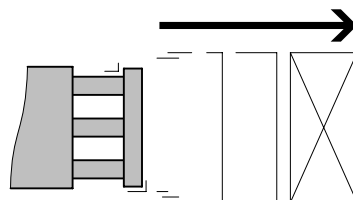
By using proximity switches, any position can be detected.

Use in conveyor technology

Lifting



Pushing



Other possible applications

- Clamping
- Moving

Type codes

001	Series	
DGRC	Guided drive	
002	Guide	
GF	Plain bearing	
003	Piston diameter [mm]	
12	12	
16	16	
20	20	
25	25	
32	32	
40	40	
50	50	

004	Stroke [mm]	
10	10	
20	20	
25	25	
30	30	
40	40	
50	50	
80	80	
100	100	
...	5 ... 100	
005	Cushioning	
P	Elastic cushioning rings/plates on both sides	
006	Position sensing	
A	For proximity sensor	

Datasheet

General technical data

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Stroke	5 ... 100 mm						
Pneumatic connection	M5			G1/8		G1/4	
Design	Guide						
Guide	Plain-bearing guide						
Protection against rotation/guide	Guide rod with yoke						
Mode of operation	Double-acting						
Cushioning	Elastic cushioning rings/plates at both ends						
Position sensing	Via proximity switch						
Mounting position	Any						

Operating and environmental conditions

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Operating pressure	0.2 ... 1 MPa			0.15 ... 1 MPa			
Operating pressure	2 ... 10 bar			1.5 ... 10 bar			
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)						
Drive unit operating mode	Yoke						
Ambient temperature ¹⁾	-10 ... +60 °C						
Corrosion resistance class CRC2)	0 - no corrosion stress						

1) Note operating range of proximity switches

2) More information www.festo.com/x/topic/crc

Speeds

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Max. speed	0.8 m/s						0.6 m/s

Forces

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing	68 N	121 N	188 N	295 N	482 N	754 N	1,178 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N	90 N	141 N	247 N	415 N	686 N	1,057 N

Impact energy

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Impact energy in the end positions	0.07 J	0.15 J	0.2 J	0.3 J	0.4 J	0.7 J	1 J

Permissible impact velocity:

$$v = \sqrt{\frac{2 \cdot E}{m_1 + m_2}}$$

Maximum permissible mass:

$$m_2 = \frac{2 \cdot E}{v^2} - m_1$$

v Permissible impact speed

E Max. impact energy

m1 Moving mass (drive)

m2 Moving payload



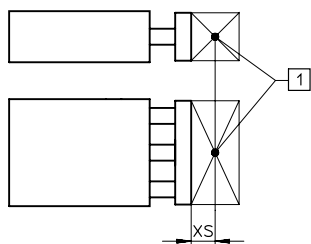
Note

These specifications represent the maximum values that can be achieved. The maximum permissible impact energy must be observed.

Datasheet

Stroke	Piston Ø	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
12 mm							
Product weight							
10 mm	173.8 g	199.7 g	–	–	–	–	–
20 mm	208.3 g	238.4 g	364.6 g	476.8 g	717.8 g	–	–
25 mm	226.6 g	259 g	390.6 g	514.6 g	768 g	1,083.8 g	1,621.7 g
30 mm	244.9 g	279.5 g	420.1 g	552.4 g	811.5 g	–	–
40 mm	281.3 g	320.6 g	478.8 g	622 g	912 g	–	–
50 mm	317.8 g	361.6 g	537.6 g	697.6 g	1,012.6 g	1,406.5 g	2,059 g
80 mm	439.1 g	504.2 g	753.6 g	980.2 g	1,363.9 g	1,888.3 g	2,680.7 g
100 mm	512.1 g	586.4 g	871.3 g	1,131.4 g	1,565 g	2,156.3 g	3,042 g
Moving mass							
10 mm	85.2 g	95.5 g	–	–	–	–	–
20 mm	99.5 g	111.5 g	183.8 g	247.5 g	395.7 g	–	–
25 mm	106.7 g	119.6 g	195.5 g	262.4 g	415.5 g	595.2 g	839.3 g
30 mm	113.9 g	127.6 g	207.3 g	277.3 g	435.4 g	–	–
40 mm	128.2 g	143.7 g	230.7 g	307 g	475 g	–	–
50 mm	142.5 g	159.7 g	254.2 g	336.8 g	514.7 g	738 g	999 g
80 mm	200 g	232.1 g	371.6 g	490.1 g	689.5 g	996.3 g	1,277.6 g
100 mm	228.7 g	264.3 g	418.6 g	549.6 g	768.8 g	1,110.5 g	1,405.4 g
Centre of gravity of the moving mass as a function of the stroke							
10 mm	18.5 mm	17.8 mm	–	–	–	–	–
20 mm	23.1 mm	22.5 mm	24.3 mm	23.4 mm	28 mm	–	–
25 mm	25.5 mm	24.8 mm	26.6 mm	25.7 mm	30.2 mm	32.5 mm	34.1 mm
30 mm	27.9 mm	27.2 mm	28.9 mm	28 mm	32.5 mm	–	–
40 mm	32.7 mm	32 mm	33.6 mm	32.6 mm	37 mm	–	–
50 mm	37.5 mm	36.8 mm	38.4 mm	37.3 mm	41.7 mm	44.3 mm	45.3 mm
80 mm	57.4 mm	59.4 mm	63.7 mm	62.9 mm	63.3 mm	66.6 mm	66.3 mm
100 mm	67.3 mm	69.2 mm	73.4 mm	72.6 mm	72.9 mm	76.3 mm	75.8 mm
Materials							
Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Housing material	Anodised wrought aluminium alloy						
Cover material	Wrought aluminium alloy						
Piston rod material	High-alloy steel						
Guide rod material	High-alloy steel						
End plate material	Anodised wrought aluminium alloy						
Sealing material	NBR						
Dynamic seals material	TPE-U(PU)						
Note on materials	RoHS-compliant						
LABS (PWIS) conformity	VDMA24364-B1/B2-L						
Suitable for the production of Li-ion batteries	Product complies with the Festo internal product definition for use in battery production: metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils						

Datasheet



[1] Centre of gravity of payload

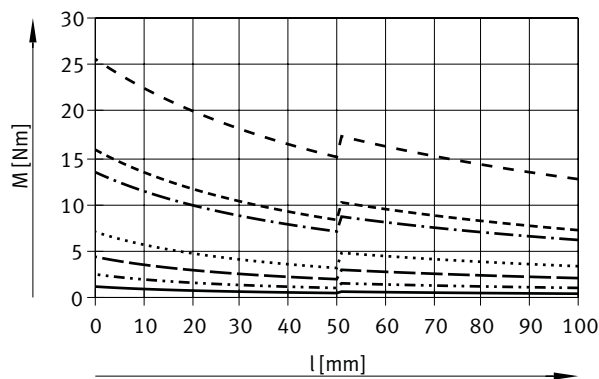
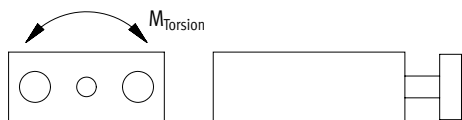
Centre of gravity distance xs

Piston Ø	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
	50 mm						

Max. payload F as a function of the stroke for a defined centre of gravity distance xs

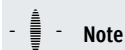
Stroke	Piston Ø						
	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
10 mm	22.8 N	42.9 N	–	–	–	–	–
20 mm	20.5 N	38.7 N	60.3 N	82 N	158.3 N	–	–
25 mm	19.6 N	36.9 N	57.6 N	78.4 N	152.1 N	162 N	231.8 N
30 mm	18.7 N	35.3 N	55.2 N	75.1 N	146.4 N	–	–
40 mm	17.1 N	32.3 N	50.8 N	69.2 N	136.1 N	–	–
50 mm	15.7 N	29.8 N	47.1 N	64.1 N	127.1 N	135.1 N	197.2 N
80 mm	17.9 N	40.2 N	65.8 N	89.5 N	139.4 N	147.9 N	202.8 N
100 mm	15.9 N	36 N	59.4 N	80.9 N	126.3 N	133.8 N	184.9 N

Permissible torque load M as a function of the stroke



— DGRC-12
 - · - · - DGRC-16
 - - - DGRC-20
 · · · · · DGRC-25
 - · - · - DGRC-32
 - - - DGRC-40
 - - - DGRC-50

Stroke [mm]	Piston Ø						
	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
10 mm	0.91 Nm	1.93 Nm	–	–	–	–	–
20 mm	0.74 Nm	1.58 Nm	2.94 Nm	4.74 Nm	9.92 Nm	–	–
25 mm	0.68 Nm	1.45 Nm	2.72 Nm	4.38 Nm	9.3 Nm	10.95 Nm	19.02 Nm
30 mm	0.63 Nm	1.34 Nm	2.52 Nm	4.07 Nm	8.76 Nm	–	–
40 mm	0.54 Nm	1.16 Nm	2.21 Nm	3.56 Nm	7.84 Nm	–	–
50 mm	0.47 Nm	1.02 Nm	1.96 Nm	3.17 Nm	7.09 Nm	8.33 Nm	15.08 Nm
80 mm	0.47 Nm	1.18 Nm	2.37 Nm	3.83 Nm	7.01 Nm	8.22 Nm	14.27 Nm
100 mm	0.4 Nm	1.02 Nm	2.08 Nm	3.35 Nm	6.17 Nm	7.23 Nm	12.7 Nm



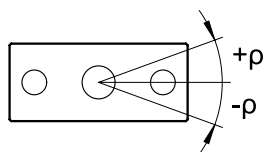
Note

Engineering tool

→ www.festo.com/engineeringtools

Datasheet

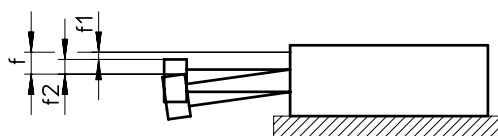
Torsional backlash ρ



Piston $\varnothing$	12 mm	16 mm	20 mm	25 mm	32 mm	40 mm	50 mm
Average torsional backlash ¹⁾	$\pm 0.065^\circ$		$\pm 0.055^\circ$	$\pm 0.045^\circ$		$\pm 0.035^\circ$	

1) In retracted condition, unloaded

Deflection of the end plate



$f = f_1 + f_2$

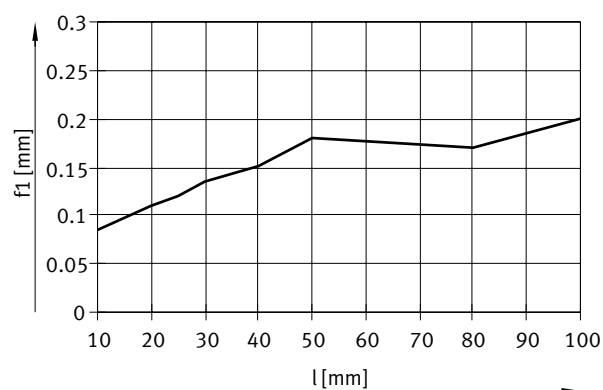
f = total deflection of the end plate

f_1 = deflection due to average bearing clearance

bearing clearance GF with production tolerance ± 0.01 mm

f_2 = deflection due to transverse force

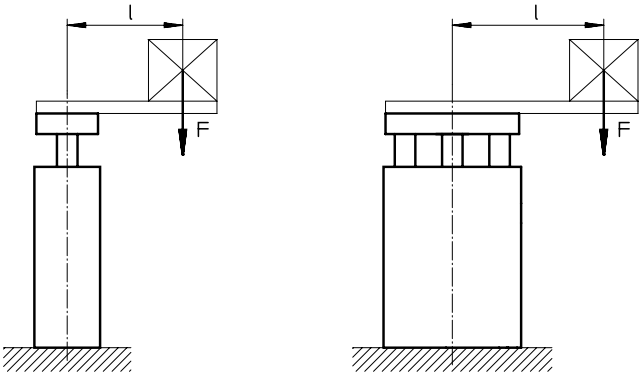
Deflection f_1 due to bearing clearance as a function of stroke l (with no load)



— DGRC-12 ... 50

Datasheet

Use as a lifting cylinder



Permissible eccentric load at 0.6 MPa (6 bar, 87 psi):

Piston Ø	12 mm	16 mm	20 mm	25 mm
Load	27 N	48 N	85 N	133 N

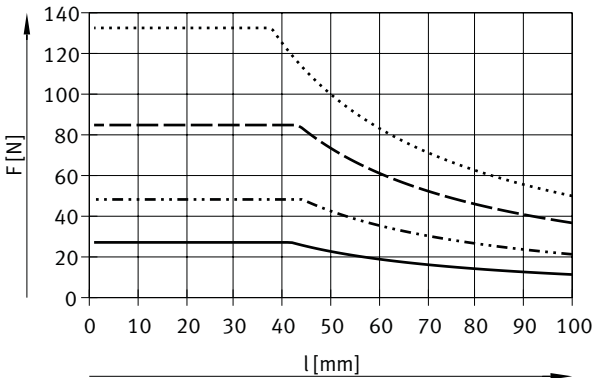
Permissible eccentric load at a different pressure:

Piston Ø	12 mm	16 mm	20 mm	25 mm
Load	≤ 40% ¹⁾		≤ 45% ¹⁾	

1) The theoretical longitudinal force at the corresponding pressure

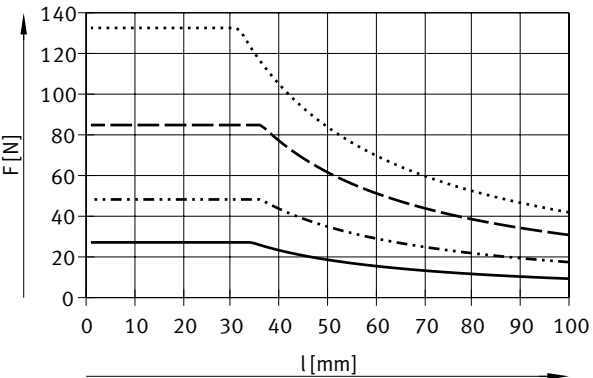
F = longitudinal force
l = lever arm

DGRC-12 ... 25, stroke 5 ... 10 mm



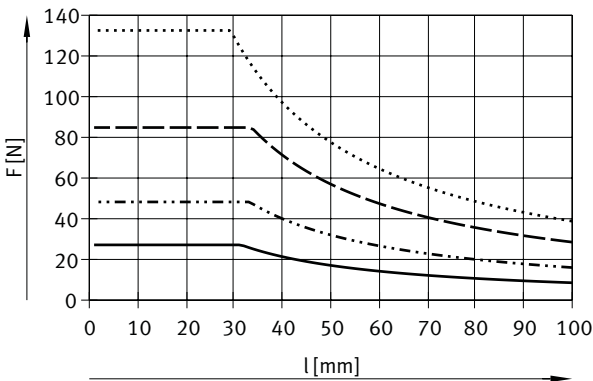
— DGRC-12
..... DGRC-16
--- DGRC-20
-.-.- DGRC-25

DGRC-12 ... 25, stroke 15 ... 20 mm



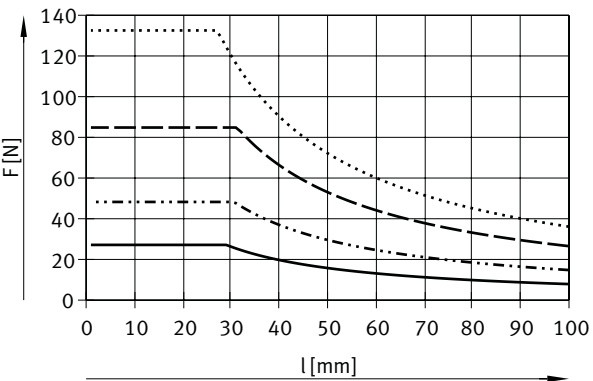
— DGRC-12
..... DGRC-16
--- DGRC-20
-.-.- DGRC-25

DGRC-12 ... 25, stroke 25 mm



— DGRC-12
..... DGRC-16
--- DGRC-20
-.-.- DGRC-25

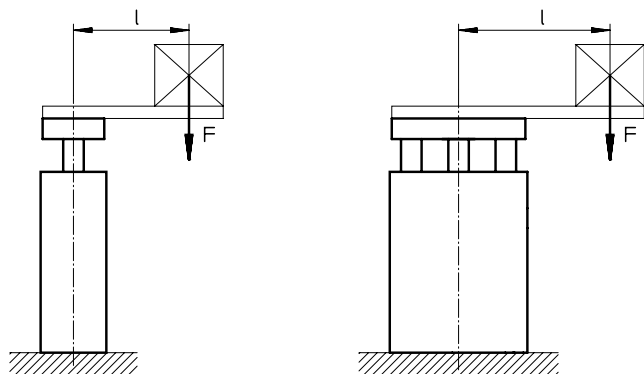
DGRC-12 ... 25, stroke 30 mm



— DGRC-12
..... DGRC-16
--- DGRC-20
-.-.- DGRC-25

Datasheet

Use as a lifting cylinder



Permissible eccentric load at 0.6 MPa (6 bar, 87 psi):

Piston Ø	12 mm	16 mm	20 mm	25 mm
Load	27 N	48 N	85 N	133 N

Permissible eccentric load at a different pressure:

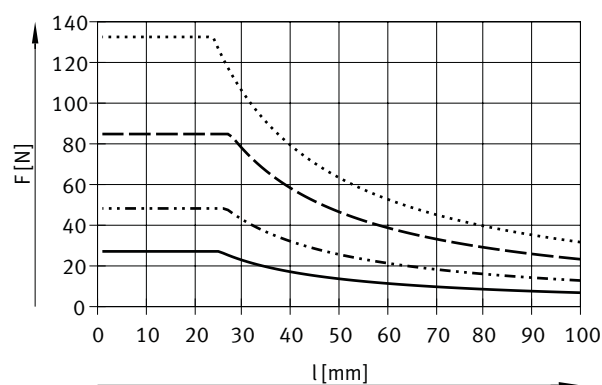
Piston Ø	12 mm	16 mm	20 mm	25 mm
Load	$\leq 40\%^{1)}$		$\leq 45\%^{1)}$	

1) The theoretical longitudinal force at the corresponding pressure

F = longitudinal force

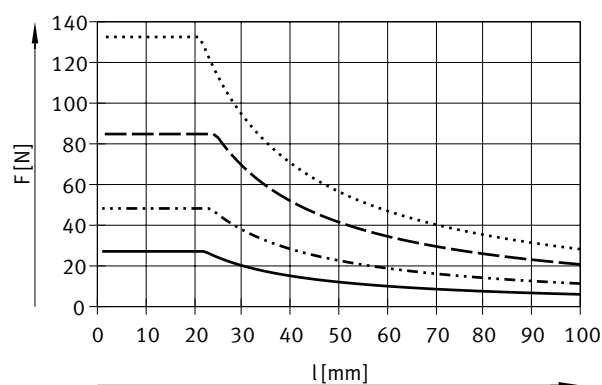
l = lever arm

DGRC-12 ... 25, stroke 40 mm



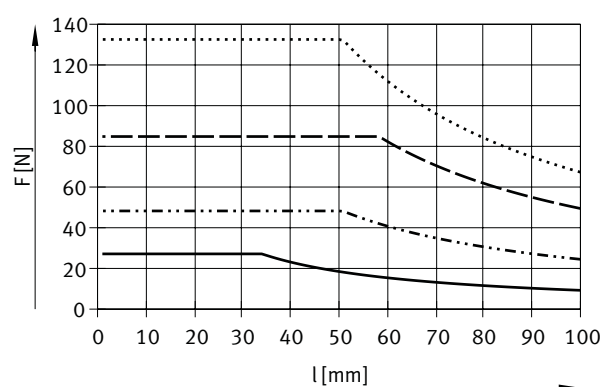
— DGRC-12
 DGRC-16
 - - - DGRC-20
 - · - · - DGRC-25

DGRC-12 ... 25, stroke 45 ... 50 mm



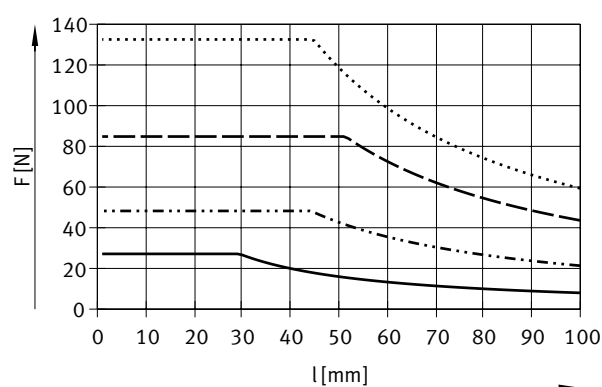
— DGRC-12
 DGRC-16
 - - - DGRC-20
 - · - · - DGRC-25

DGRC-12 ... 25, stroke 55 ... 80 mm



— DGRC-12
 DGRC-16
 - - - DGRC-20
 - · - · - DGRC-25

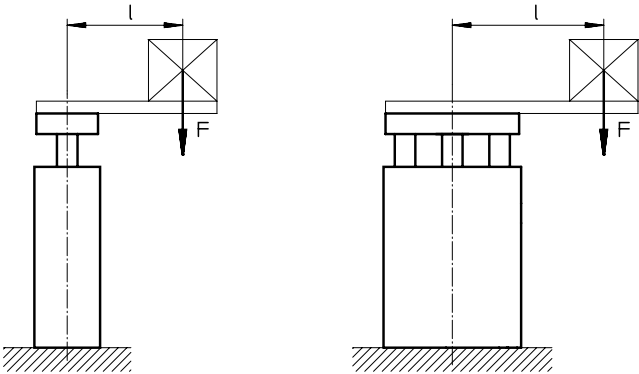
DGRC-12 ... 25, stroke 85 ... 100 mm



— DGRC-12
 DGRC-16
 - - - DGRC-20
 - · - · - DGRC-25

Datasheet

Use as a lifting cylinder



Permissible eccentric load at 0.6 MPa (6 bar, 87 psi):

Piston Ø	32 mm	40 mm	50 mm
Load	241 N	415 N	648 N

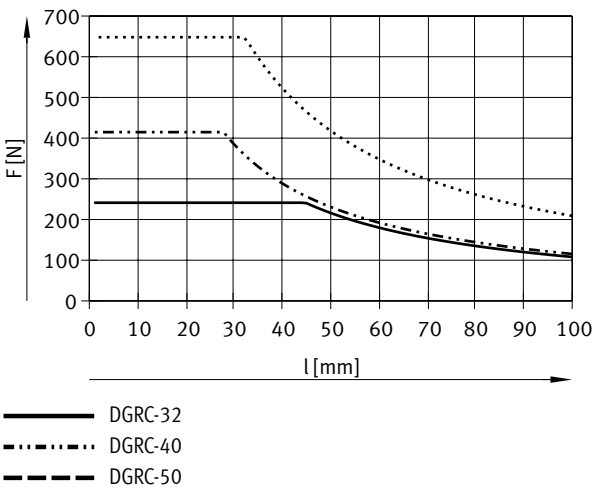
Permissible eccentric load at a different pressure:

Piston Ø	32 mm	40 mm	50 mm
Load	≤ 50% ¹⁾	≤ 55% ¹⁾	

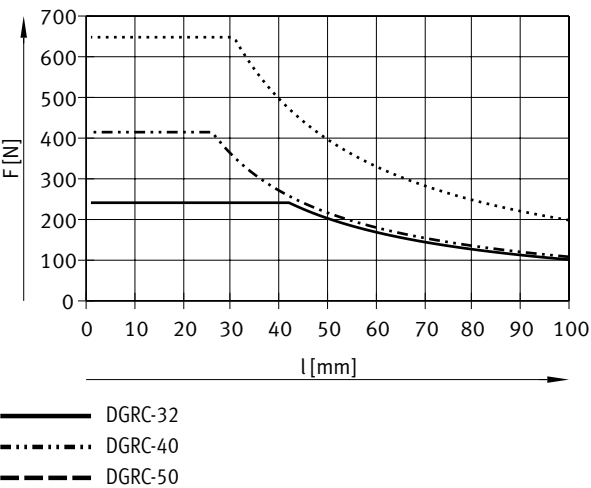
1) The theoretical longitudinal force at the corresponding pressure

F = longitudinal force
l = lever arm

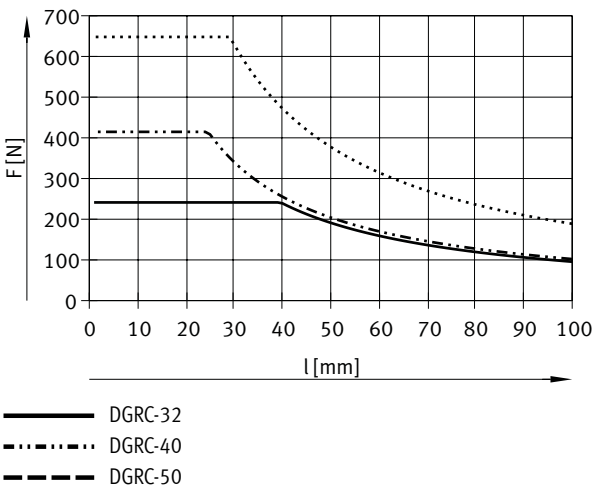
DGRC-32 ... 50, stroke 20 mm



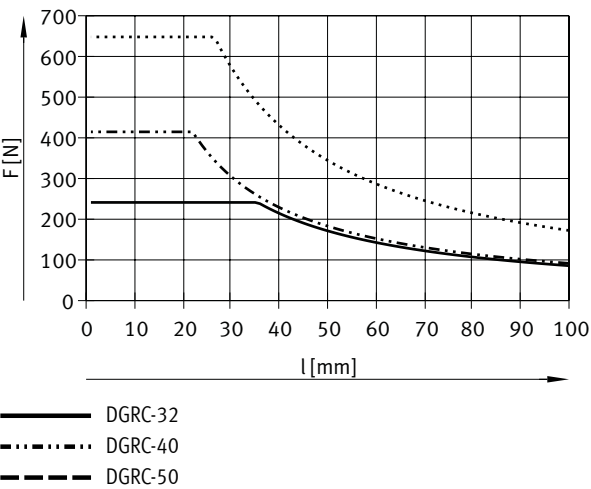
DGRC-32 ... 50, stroke 25 mm



DGRC-32 ... 50, stroke 30 mm

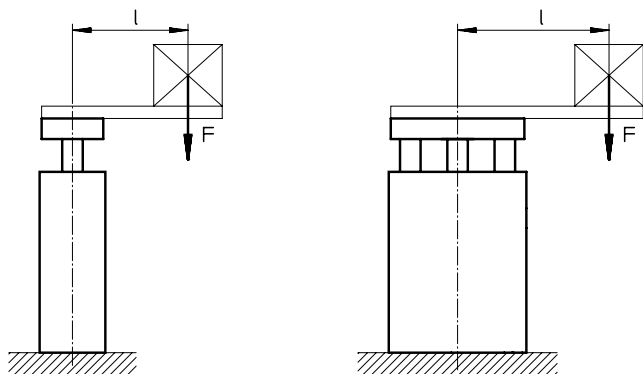


DGRC-32 ... 50, stroke 40 mm



Datasheet

Use as a lifting cylinder



Permissible eccentric load at 0.6 MPa (6 bar, 87 psi):

Piston Ø	32 mm	40 mm	50 mm
Load	241 N	415 N	648 N

Permissible eccentric load at a different pressure:

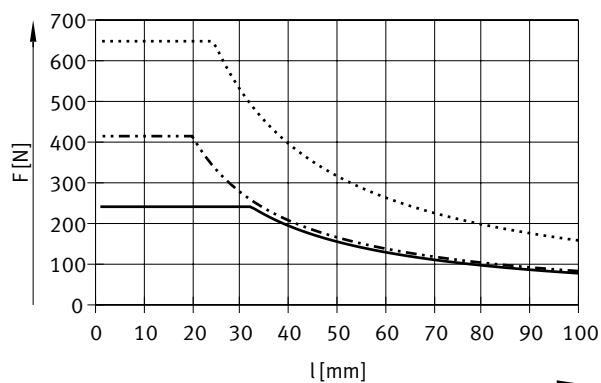
Piston Ø	32 mm	40 mm	50 mm
Load	$\leq 50\%^{1)}$	$\leq 55\%^{1)}$	

1) The theoretical longitudinal force at the corresponding pressure

F = longitudinal force

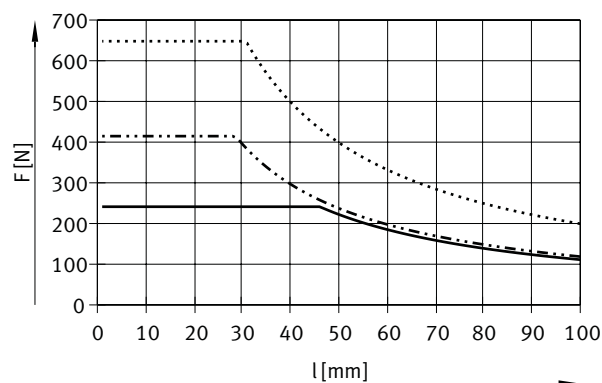
l = lever arm

DGRC-32 ... 50, stroke 45 ... 50 mm



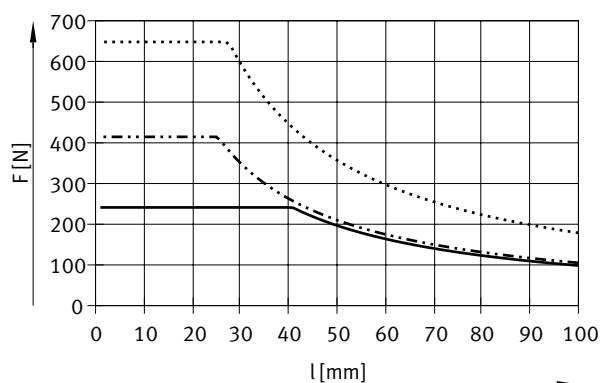
— DGRC-32
 DGRC-40
 --- DGRC-50

DGRC-32 ... 50, stroke 55 ... 80 mm



— DGRC-32
 DGRC-40
 --- DGRC-50

DGRC-32 ... 50, stroke 85 ... 100 mm

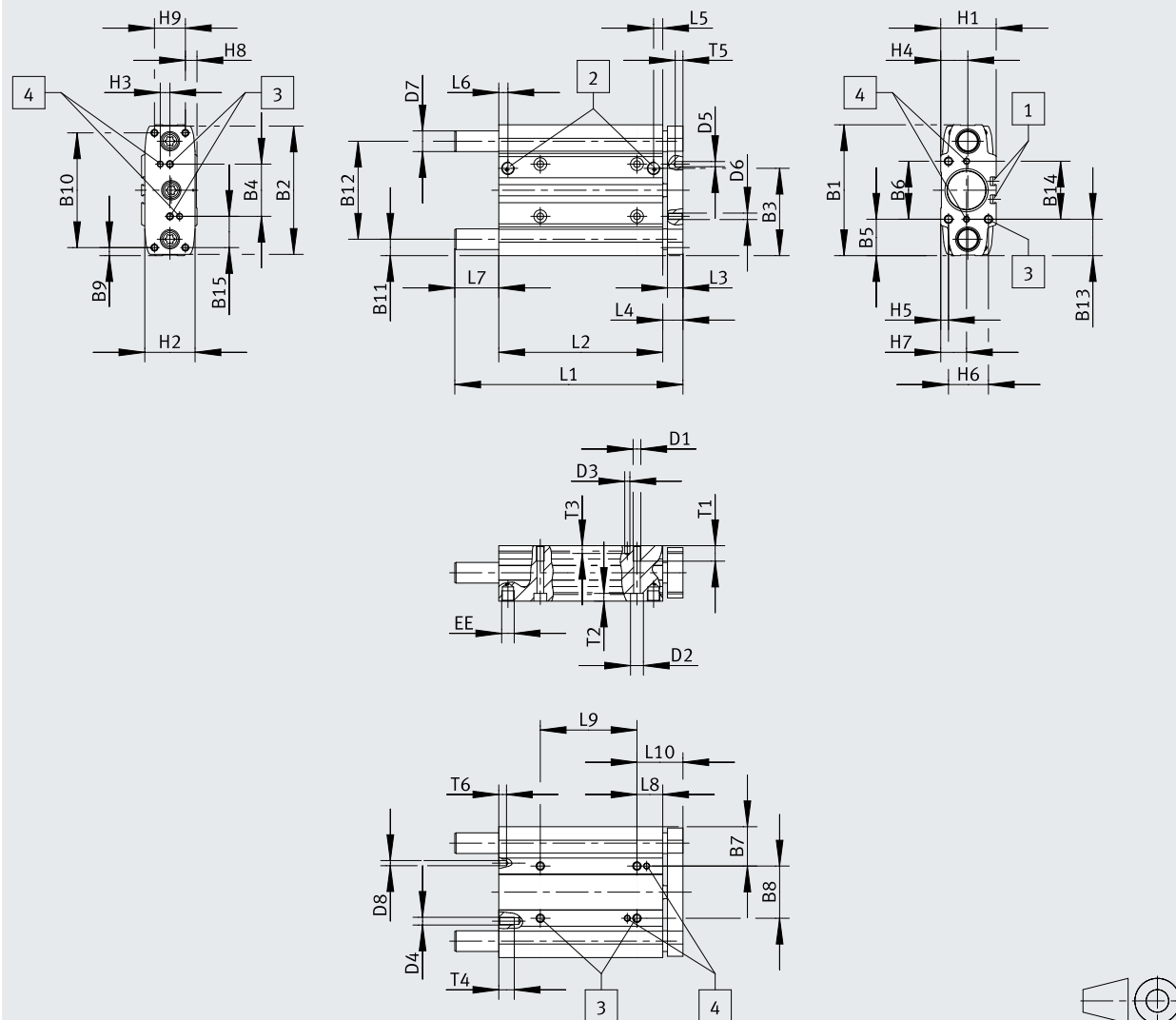


— DGRC-32
 DGRC-40
 --- DGRC-50

Dimensions

Guided drives DGRC

Download CAD data www.festo.com



[1] Mounting slot for proximity switch

[2] Compressed air supply port

[3] Mounting thread

[4] Tolerance between the centring holes ± 0.02 mm

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
DGRC-GF-12-...-PA	56.9	54.9	39.25	17.5	17.45	22	19.7	17.5	4.45	48	9.45	38	18.95	19	15.25
DGRC-GF-16-...-PA	61.9	59.9	41.95	22.5	16.95	28	19.7	22.5	4.95	52	9.45	43	18.45	25	14.75
DGRC-GF-20-...-PA	76	74	49	28	21	34	24	28	5.5	65	11	54	22	32	18.5
DGRC-GF-25-...-PA	88	86	58.9	34	24	40	27	34	5	78	12	64	25	38	22
DGRC-GF-32-...-PA	101.5	99.5	67.75	40.5	28.25	45	30.5	40.5	6.25	89	12.75	76	28.25	45	24.25
DGRC-GF-40-...-PA	114	112	75	50.5	30.5	53	31.75	50.5	8	98	15	84	30.5	53	23.75
DGRC-GF-50-...-PA	139.6	137.6	92.3	61	35.8	68	39.3	61	9.3	121	15.3	109	35.8	68	30

	D1	D2 ø	D3 ø H9	D4	D5 ø H9	D6	D7 ø h8	D8 ø H9	EE	H1	H2	H3	H4	H5	H6
DGRC-GF-12-...-PA	M4	6.5	3	M4	3	M3	10	3	M5	24.5	23	7.5	11.5	3.5	17.5
DGRC-GF-16-...-PA	M4	6.5	3	M4	3	M3	10	3	M5	26.5	24.5	7.5	12.5	4	18.5
DGRC-GF-20-...-PA	M5	8	4	M5	4	M4	12	4	M5	31	29	7.5	14.4	4.5	22
DGRC-GF-25-...-PA	M6	10	4	M6	4	M5	14	4	G1/8	35.5	34	7.5	16.5	5	25.5
DGRC-GF-32-...-PA	M6	10	4	M6	4	M5	16	4	G1/8	43	39	7.5	21	6	31
DGRC-GF-40-...-PA	M8	11	5	M8	5	M6	20	5	G1/8	51	43	10	23.75	7.25	36.5
DGRC-GF-50-...-PA	M8	11	5	M8	5	M6	20	5	G1/4	61.5	51	10	28.5	8	45.5

Dimensions

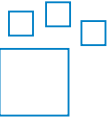
	H7	H8	H9	L3	L4	L5	L6	L8	L10	T1	T2	T3	T4	T5	T6
DGRC-GF-12-...-PA	11.5	5.5	14	8	12	4.7	4.7	12	24	8	8	6	8	6	6
DGRC-GF-16-...-PA	11.5	6	14.5	8	12	5.9	5.9	14	26	8	8	6	8	6	6
DGRC-GF-20-...-PA	14.4	6.75	17.5	10	14	6	6	15	29	10	5	6	10	6	6
DGRC-GF-25-...-PA	16.5	7.75	20	10	14	7.1	7.1	19.5	33.5	12	6	6	12	6	6
DGRC-GF-32-...-PA	20	9	24	12	16	7.1	7.1	20	36	12	6	6	12	6	6
DGRC-GF-40-...-PA	23.75	9.75	28	12	16	8.1	8.1	22	38	16	6.8	8	16	8	8
DGRC-GF-50-...-PA	28.5	12	33	14	18	9.1	9.1	26	44	16	6.8	8	16	8	8

	L1	L2	L7	L9
DGRC-GF-12-10-PA	47.5	32.6	2.8	–
DGRC-GF-12-20-PA	57.5	42.6	2.8	15
DGRC-GF-12-25-PA	62.5	47.6	2.9	15
DGRC-GF-12-30-PA	67.5	52.6	2.9	15
DGRC-GF-12-40-PA	77.5	62.6	2.9	30
DGRC-GF-12-50-PA	87.5	72.6	2.9	30
DGRC-GF-12-80-PA	129.5	102.6	14.9	60
DGRC-GF-12-100-PA	149.5	122.6	14.9	75
DGRC-GF-16-10-PA	47.5	34.2	1.3	–
DGRC-GF-16-20-PA	57.5	44.2	1.3	15
DGRC-GF-16-25-PA	62.5	49.2	1.3	15
DGRC-GF-16-30-PA	67.5	54.2	1.3	15
DGRC-GF-16-40-PA	77.5	64.2	1.3	30
DGRC-GF-16-50-PA	87.5	74.2	1.3	30
DGRC-GF-16-80-PA	137.5	104.2	21.3	60
DGRC-GF-16-100-PA	157.5	124.2	21.3	75
DGRC-GF-20-20-PA	64	44.4	5.6	–
DGRC-GF-20-25-PA	69	49.4	5.6	15
DGRC-GF-20-30-PA	74	54.4	5.6	15
DGRC-GF-20-40-PA	84	64.4	5.6	30
DGRC-GF-20-50-PA	94	74.4	5.6	30
DGRC-GF-20-80-PA	151	104.4	32.6	60
DGRC-GF-20-100-PA	171	124.4	32.6	75
DGRC-GF-25-20-PA	64	44.6	5.4	–
DGRC-GF-25-25-PA	69	49.6	5.4	–
DGRC-GF-25-30-PA	74	54.6	5.4	–
DGRC-GF-25-40-PA	84	64.6	5.4	15
DGRC-GF-25-50-PA	94	74.6	5.4	30
DGRC-GF-25-80-PA	151	104.6	32.4	60
DGRC-GF-25-100-PA	171	124.6	32.4	75
DGRC-GF-32-20-PA	79	47.2	15.8	–
DGRC-GF-32-25-PA	84	52.2	15.8	–
DGRC-GF-32-30-PA	89	57.2	15.8	15
DGRC-GF-32-40-PA	99	67.2	15.8	15
DGRC-GF-32-50-PA	109	77.2	15.8	30
DGRC-GF-32-80-PA	157	107.2	33.8	60
DGRC-GF-32-100-PA	177	127.2	33.8	75
DGRC-GF-40-25-PA	84	57.2	10.8	–
DGRC-GF-40-50-PA	109	82.2	10.8	30
DGRC-GF-40-80-PA	157	112.2	28.8	60
DGRC-GF-40-100-PA	177	132.2	28.8	75
DGRC-GF-50-25-PA	101	60.2	22.8	–
DGRC-GF-50-50-PA	126	85.2	22.8	30
DGRC-GF-50-80-PA	174	115.2	40.8	60
DGRC-GF-50-100-PA	194	135.2	40.8	75

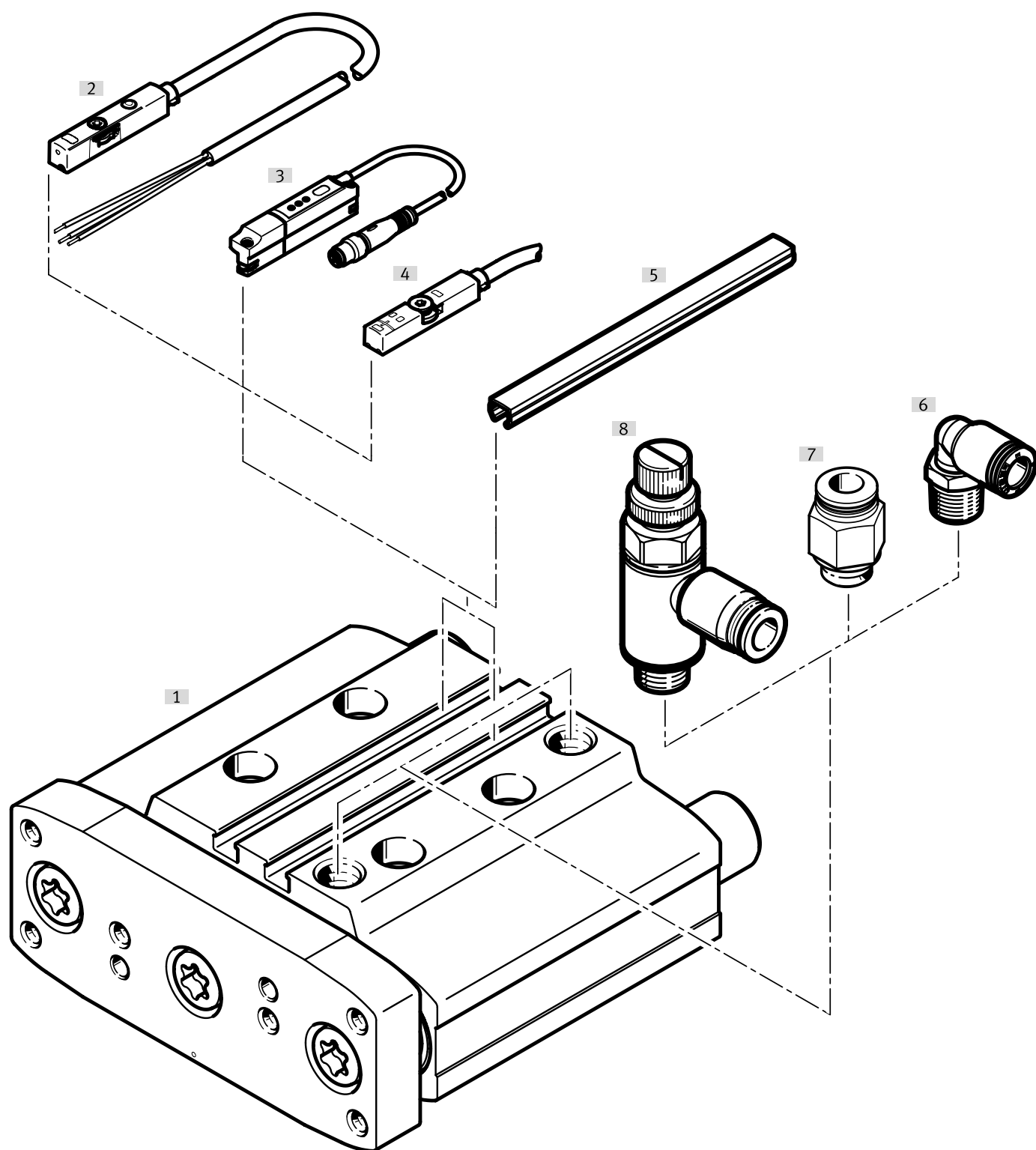
Ordering data

Guided drives DGRC				
	Piston Ø	Stroke	Part no.	Type
	12 mm	10 mm	8218182	DGRC-GF-12-10-PA
		20 mm	8218183	DGRC-GF-12-20-PA
		25 mm	8218184	DGRC-GF-12-25-PA
		30 mm	8218185	DGRC-GF-12-30-PA
		40 mm	8218186	DGRC-GF-12-40-PA
		50 mm	8218187	DGRC-GF-12-50-PA
		80 mm	8218188	DGRC-GF-12-80-PA
		100 mm	8218189	DGRC-GF-12-100-PA
	16 mm	10 mm	8218190	DGRC-GF-16-10-PA
		20 mm	8218191	DGRC-GF-16-20-PA
		25 mm	8218192	DGRC-GF-16-25-PA
		30 mm	8218193	DGRC-GF-16-30-PA
		40 mm	8218194	DGRC-GF-16-40-PA
		50 mm	8218195	DGRC-GF-16-50-PA
		80 mm	8218196	DGRC-GF-16-80-PA
		100 mm	8218197	DGRC-GF-16-100-PA
	20 mm	20 mm	8218198	DGRC-GF-20-20-PA
		25 mm	8218199	DGRC-GF-20-25-PA
		30 mm	8218200	DGRC-GF-20-30-PA
		40 mm	8218201	DGRC-GF-20-40-PA
		50 mm	8218202	DGRC-GF-20-50-PA
		80 mm	8218203	DGRC-GF-20-80-PA
		100 mm	8218204	DGRC-GF-20-100-PA
	25 mm	20 mm	8218205	DGRC-GF-25-20-PA
		25 mm	8218206	DGRC-GF-25-25-PA
		30 mm	8218207	DGRC-GF-25-30-PA
		40 mm	8218208	DGRC-GF-25-40-PA
		50 mm	8218209	DGRC-GF-25-50-PA
		80 mm	8218210	DGRC-GF-25-80-PA
		100 mm	8218211	DGRC-GF-25-100-PA
	32 mm	20 mm	8218212	DGRC-GF-32-20-PA
		25 mm	8218213	DGRC-GF-32-25-PA
		30 mm	8218214	DGRC-GF-32-30-PA
		40 mm	8218215	DGRC-GF-32-40-PA
		50 mm	8218216	DGRC-GF-32-50-PA
		80 mm	8218217	DGRC-GF-32-80-PA
		100 mm	8218218	DGRC-GF-32-100-PA
	40 mm	25 mm	8218219	DGRC-GF-40-25-PA
		50 mm	8218220	DGRC-GF-40-50-PA
		80 mm	8218221	DGRC-GF-40-80-PA
		100 mm	8218222	DGRC-GF-40-100-PA
	50 mm	25 mm	8218223	DGRC-GF-50-25-PA
		50 mm	8218224	DGRC-GF-50-50-PA
		80 mm	8218225	DGRC-GF-50-80-PA
		100 mm	8218226	DGRC-GF-50-100-PA

Ordering data

Guided drives DGRC – Modular product system				
	Piston Ø	Stroke	Part no.	Type
	12 mm	5 ... 100 mm	8225636	DGRC-GF-12- -PA
	16 mm		8225637	DGRC-GF-16- -PA
	20 mm		8225638	DGRC-GF-20- -PA
	25 mm		8225639	DGRC-GF-25- -PA
	32 mm		8225640	DGRC-GF-32- -PA
	40 mm		8225641	DGRC-GF-40- -PA
	50 mm		8225642	DGRC-GF-50- -PA

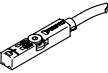
Peripherals overview

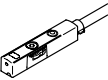


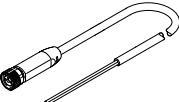
Peripherals overview

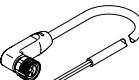
Accessories			
	Type/order code	Description	→ Link
[1]	Guided drive DGRC	Drive with plain-bearing guide	4
[2]	Proximity switch SDBT-MSX	Can be integrated in the profile barrel	18
[3]	Position transmitter SDAT-MHS	Can be integrated in the profile barrel	19
[4]	Proximity switch SMT-8	Can be integrated in the profile barrel	18
[5]	Slot cover ABP-5	For protecting the sensor cables and the sensor slots from contamination	19
[6]	Push-in fitting QS	For connecting tubing with standard O.D	qs
[7]	Push-in fitting NPQE	For connecting tubing with standard O.D	npqe
[8]	One-way flow control valve GRLA	For regulating speed	19

Accessories

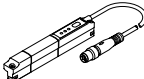
Proximity switch SMT-8M for T-slot, magneto-resistive							Link smt
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type	
	Screw-clamped, can be inserted in the slot from above	3-wire NPN N/O contact	Open end	2.5 m	574338	SMT-8M-A-NS-24V-E-2.5-OE	
			Plug M8, A-coded	0.3 m	574339	SMT-8M-A-NS-24V-E-0.3-M8D	
		3-wire, PNP N/O contact	Open end	2.5 m	574335	SMT-8M-A-PS-24V-E-2.5-OE	
			Plug M8, A-coded	0.3 m	574334	SMT-8M-A-PS-24V-E-0.3-M8D	
		2-wire PNP N/O	Open end	5 m	8165237	SMT-8M-A-ZS-24V-E-5.0-OE	

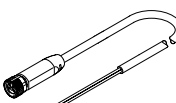
Proximity switch SDBT-MSX for T-slot, magnetic Hall							Link sdbt
	Switching output	Switching element function	Electrical connection	Cable length	Part no.	Type	
	PNP/NPN switchable	N/C or N/O, switchable	Open end	2.5 m	8059121	SDBT-MSX-1L-PU-E-2.5-N-LE	
					8059124	SDBT-MSX-1L-NU-E-2.5-N-LE	
			Plug M8, A-coded	0.3 m	8059123	SDBT-MSX-1L-NU-E-0.3-N-M8	
					8059120	SDBT-MSX-1L-PU-E-0.3-N-M8	

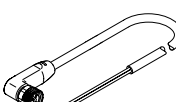
Connecting cables NEBA, straight						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

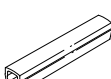
Connecting cables NEBA, angled						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Accessories

Position transmitter SDAT for T-slot, plug M8, A-coded Link sd						
	Sensing range	Analogue output	Electrical connection 1, number of pins/cores	Cable length	Part no.	Type
	0 ... 50 mm	4 - 20 mA	4	0.3 m	1531265	SDAT-MHS-M50-1L-SA-E-0.3-M8
	0 ... 80 mm				1531266	SDAT-MHS-M80-1L-SA-E-0.3-M8
	0 ... 100 mm				1531267	SDAT-MHS-M100-1L-SA-E-0.3-M8
	0 ... 125 mm				1531268	SDAT-MHS-M125-1L-SA-E-0.3-M8
	0 ... 160 mm				1531269	SDAT-MHS-M160-1L-SA-E-0.3-M8

Connecting cables NEBA, straight						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	4	2.5 m	8078227	NEBA-M8G4-U-2.5-N-LE4
				5 m	8078228	NEBA-M8G4-U-5-N-LE4

Connecting cables NEBA, angled						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	4	2.5 m	8078233	NEBA-M8W4-U-2.5-N-LE4
				5 m	8078234	NEBA-M8W4-U-5-N-LE4

Slot cover ABP for T-slot					
	Description	Housing material	Packaging quantity [pieces]	Part no.	Type
	Length 0.5 m, insertable	ABS	2	151680	ABP-5-S

One-way flow control valves GRLA				
	Pneumatic connection 2	Pneumatic connection 1	Part no.	Type
	M5	Push-in connector, 3 mm	193137	GRLA-M5-QS-3-D
		Push-in connector 4 mm	193138	GRLA-M5-QS-4-D
		Push-in connector 6 mm	193139	GRLA-M5-QS-6-D
	G1/8	Push-in connector, 3 mm	193142	GRLA-1/8-QS-3-D
		Push-in connector 4 mm	193143	GRLA-1/8-QS-4-D
		Push-in connector 6 mm	193144	GRLA-1/8-QS-6-D
	G1/4	Push-in connector 8 mm	193145	GRLA-1/8-QS-8-D
		Push-in connector 6 mm	193146	GRLA-1/4-QS-6-D
		Push-in connector 8 mm	193147	GRLA-1/4-QS-8-D
		Push-in connector 10 mm	193148	GRLA-1/4-QS-10-D