

**Characteristics**

Characteristics	Symbol	Unit	Description				
<b>General Features</b>							
Installation			In any position				
Temperature range	$T_{min}$	°C	-20				
	$T_{max}$	°C	+80				
<b>Material</b>							
Guide body	Aluminium, anodized						
Guide rods	Steel, corrosion-resistant for FEHG version Steel, hardened for FEHK version						
Guide bushes	Sintered bronze for FEHG version Linear ball bearings for FEHK version						
Mounting plate	Aluminium, anodized						
Piston rod mounting	Steel, corrosion-resistant						
<b>Weight (mass)</b>							
	for Cyl.	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
With 100 mm stroke	kg	1.42	2.25	3.80	5.05	9.18	11.80
Per further 100 mm stroke	kg	0.18	0.28	0.55	0.55	0.77	0.77

**Linear Guide, H-Form  
Ø 32-100 mm**

for cylinders to  
ISO 15552  
(ISO6431)  
32-100 mm

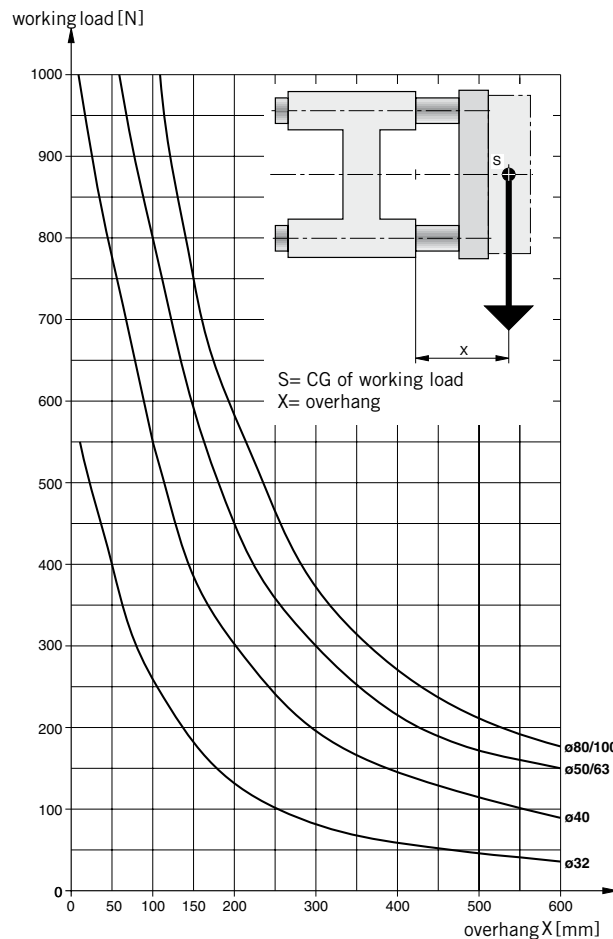
Series FEH...

**Version:**  
- with plain bearings  
FEHG...  
- with ball bearings  
FEHK...

**Supplied as follows:**  
Ø32 to 100mm:  
für Zylinder nach ISO 15552  
(ISO 6431)

1 guide  
4 mounting nuts

**Maximum working load in relation to overhang - FEHG version with plain bearings**



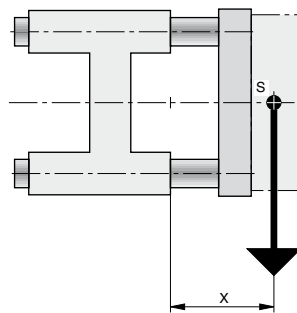
**ARA**  
PNEUMATIK  
53-012 Wrocław tel. 71 364 72 80  
ul. Wysięgowa 38 fax 71 364 72 83  
www.arapneumatik.pl



For short strokes, the working load figures obtained from the diagrams must be multiplied by a correction factor (k) (see Diagram). In the working load curves for overhangs up to 60 mm these short stroke corrections are already included. In the case of impact loads, the maximum permissible working load must be halved..

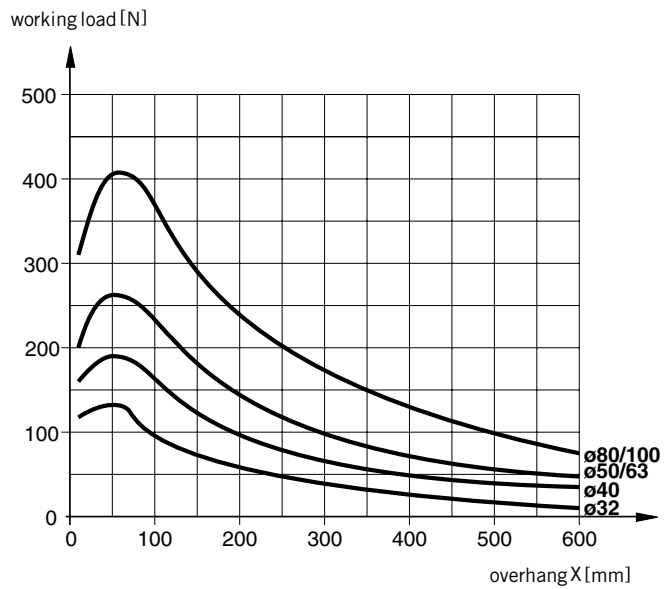
**Factor 1**  
for normal applications

**Factor 2**  
for impact loads

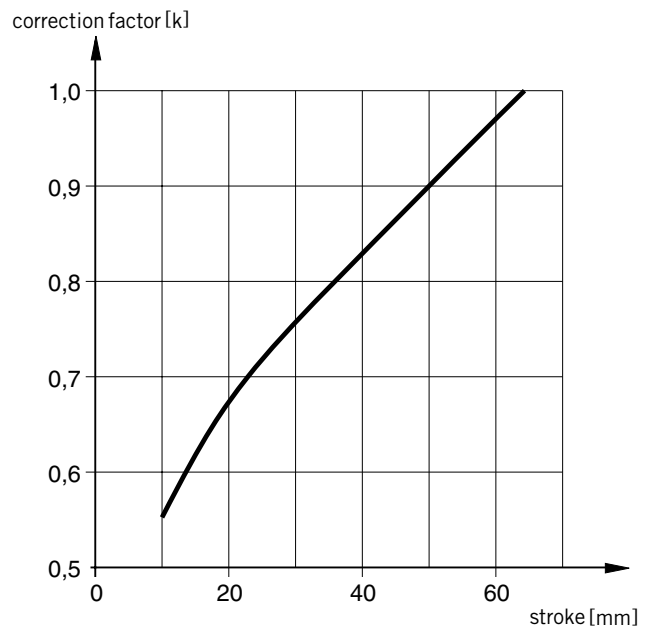


S= CG of working load  
X= overhang

### Maximum working load in relation to overhang - FEHK version with ball bearings

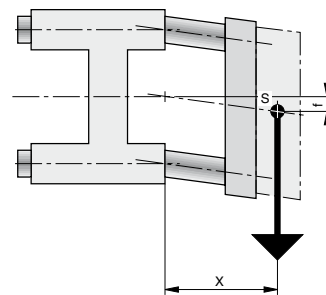
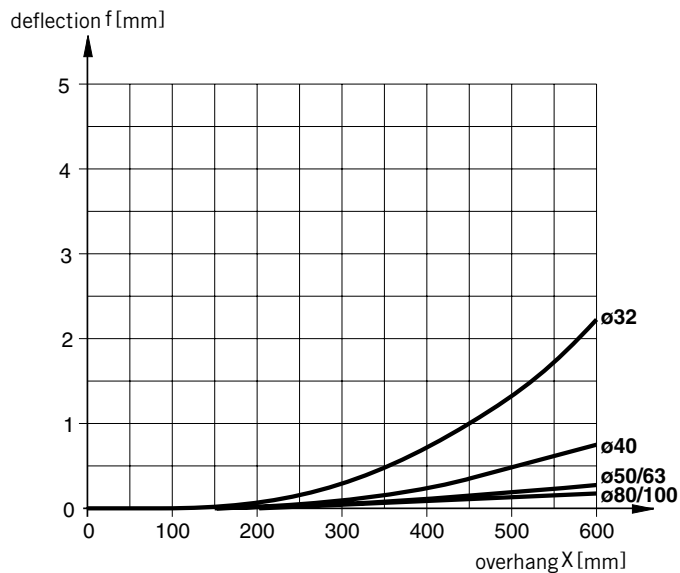


### Reduction of working load with short strokes - FEHK version with ball bearings



**Deflection - FEHG version with plain bearings and FEHK version with ball bearings**

Diagram 1 - Deflection with a working load of 10N

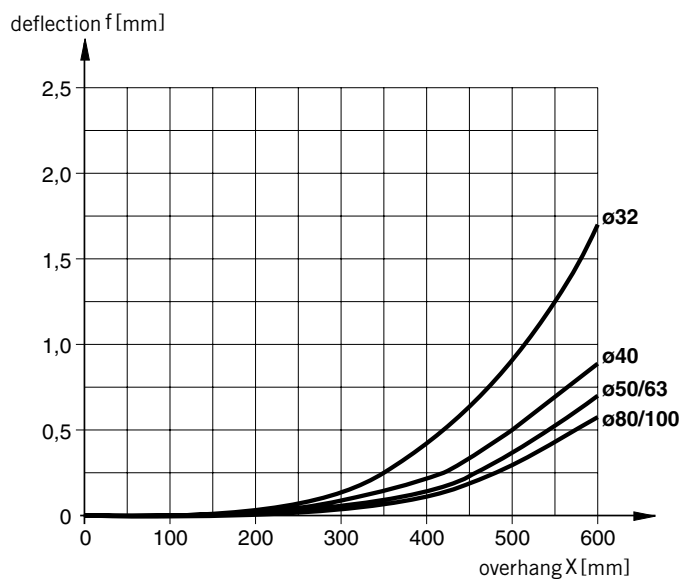


S = CG of working load  
 X = overhang  
 f = deflection

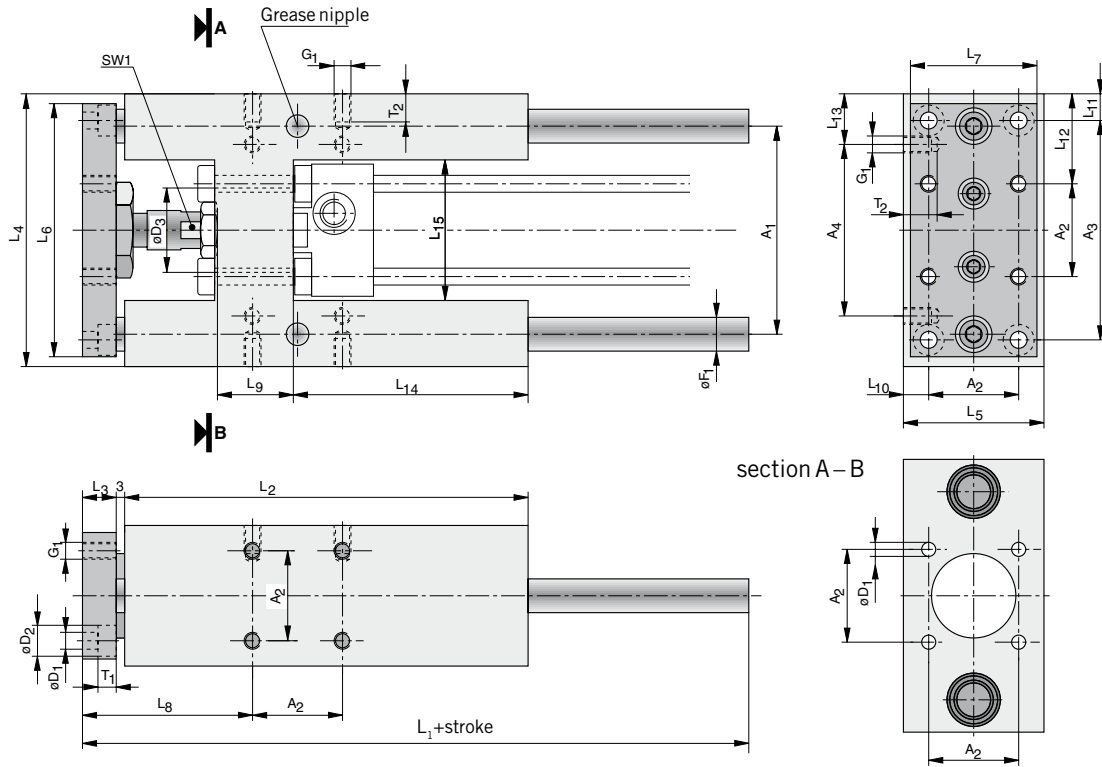
**Deflection**

The total deflection is the sum of the deflection under own weight (Diagram 2) and the deflection under load (Diagram 1). The deflection for every 10 N load is shown in Diagram 1.

Diagram 2 - Deflection under own weight



Dimensions – Linear Guide Type FEHG ..., FEHK...,  $\varnothing 32 - 100$  mm



**Dimension Table (mm) – Linear Guide Type FEHG., FEHK., Ø 32 – 100 mm**

Type	Cylinder diameter					
	32	40	50	63	80	100
A <sub>1</sub>	74	87	104	119	148	172
A <sub>2</sub>	32.5	38	46.5	56.5	72	89
A <sub>3</sub>	78	84	100	105	130	150
A <sub>4</sub>	61	69	85	100	130	150
ØD <sub>1</sub>	6.6	6.6	9	9	11	11
ØD <sub>2</sub>	11	11	15	15	18	18
ØD <sub>3</sub>	30	35	40	45	45	55
ØF <sub>1</sub>	14 (12*)	18 (16*)	22 (20*)	22 (20*)	25	25
G <sub>1</sub>	M6	M6	M8	M8	M10	M10
L <sub>1</sub> +Hub	177	192	237	237	280	280
L <sub>2</sub>	125	140	150	182	215	220
L <sub>3</sub>	12	12	15	15	20	20
L <sub>4</sub>	97	115	137	152	189	213
L <sub>5</sub>	50	58	70	85	105	130
L <sub>6</sub>	90	110	130	145	180	200
L <sub>7</sub>	45	54	63	80	100	120
L <sub>8</sub>	59.70 <sup>+5</sup> <sub>0</sub>	63 <sup>+5</sup> <sub>0</sub>	70.2 <sup>+10</sup> <sub>0</sub>	73.5 <sup>+10</sup> <sub>0</sub>	89 <sup>+10</sup> <sub>0</sub>	90.5 <sup>+10</sup> <sub>0</sub>
L <sub>9</sub>	28	33	40	40	50	50
L <sub>10</sub>	8.75	10.0	11.75	14.25	16.5	20.5
L <sub>11</sub>	9.5	15.5	18.5	23.5	29.5	31.5
L <sub>12</sub>	32.25	38.5	45.25	47.75	58.5	62
L <sub>13</sub>	18	23	26	26	29.5	31.5
L <sub>14</sub>	65	69	65	97	112	112
L <sub>15</sub>	50.5	58.5	70.5	85.5	105.4	130.4
SW1	13	15	22	22	27	27
SW2	–	–	–	–	30	30
T <sub>1</sub>	6.5	6.5	9	9	11	11
T <sub>2</sub>	10	10	13	13	16	16

\* (FEHK version with ball bearings)

**Order Instructions – Linear Guide Type FEHG, FEHK**

for Cyl.Ø (mm)	Stroke (mm)	Order Instructions for plain bearing version		Order Instructions for ball bearing version	
		Type	Order-No.	Type	Order-No.
32	50	FEHG32/50	PD38001-0050	FEHK32/50	PD38007-0050
	100	FEHG32/100	PD38001-0100	FEHK32/100	PD38007-0100
	160	FEHG32/160	PD38001-0160	FEHK32/160	PD38007-0160
	200	FEHG32/200	PD38001-0200	FEHK32/200	PD38007-0200
	250	FEHG32/250	PD38001-0250	FEHK32/250	PD38007-0250
	320	FEHG32/320	PD38001-0320	FEHK32/320	PD38007-0320
40	50	FEHG40/50	PD38002-0050	FEHK40/50	PD38008-0050
	100	FEHG40/100	PD38002-0100	FEHK40/100	PD38008-0100
	160	FEHG40/160	PD38002-0160	FEHK40/160	PD38008-0160
	200	FEHG40/200	PD38002-0200	FEHK40/200	PD38008-0200
	250	FEHG40/250	PD38002-0250	FEHK40/250	PD38008-0250
	320	FEHG40/320	PD38002-0320	FEHK40/320	PD38008-0320
50	50	FEHG50/50	PD38003-0050	FEHK50/50	PD38009-0050
	100	FEHG50/100	PD38003-0100	FEHK50/100	PD38009-0100
	160	FEHG50/160	PD38003-0160	FEHK50/160	PD38009-0160
	200	FEHG50/200	PD38003-0200	FEHK50/200	PD38009-0200
	250	FEHG50/250	PD38003-0250	FEHK50/250	PD38009-0250
	320	FEHG50/320	PD38003-0320	FEHK50/320	PD38009-0320
63	50	FEHG63/50	PD38004-0050	FEHK63/50	PD38010-0050
	100	FEHG63/100	PD38004-0100	FEHK63/100	PD38010-0100
	160	FEHG63/160	PD38004-0160	FEHK63/160	PD38010-0160
	200	FEHG63/200	PD38004-0200	FEHK63/200	PD38010-0200
	250	FEHG63/250	PD38004-0250	FEHK63/250	PD38010-0250
	320	FEHG63/320	PD38004-0320	FEHK63/320	PD38010-0320
80	50	FEHG80/50	PD38005-0050	FEHK80/50	PD38011-0050
	100	FEHG80/100	PD38005-0100	FEHK80/100	PD38011-0100
	160	FEHG80/160	PD38005-0160	FEHK80/160	PD38011-0160
	200	FEHG80/200	PD38005-0200	FEHK80/200	PD38011-0200
	250	FEHG80/250	PD38005-0250	FEHK80/250	PD38011-0250
	320	FEHG80/320	PD38005-0320	FEHK80/320	PD38011-0320
100	50	FEHG100/50	PD38006-0050	FEHK100/50	PD38012-0050
	100	FEHG100/100	PD38006-0100	FEHK100/100	PD38012-0100
	160	FEHG100/160	PD38006-0160	FEHK100/160	PD38012-0160
	200	FEHG100/200	PD38006-0200	FEHK100/200	PD38012-0200
	250	FEHG100/250	PD38006-0250	FEHK100/250	PD38012-0250
	320	FEHG100/320	PD38006-0320	FEHK100/320	PD38012-0320

