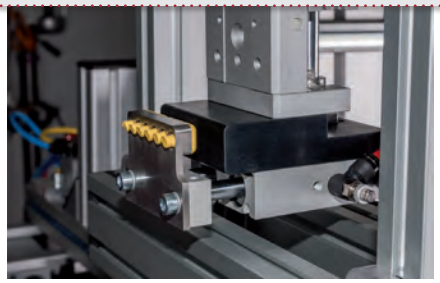
Guide blocks piston diameter 16 & 20 mm – double-acting

HIGH PRECISION COMBINATION OF CYLINDER AND LINEAR GUIDING



Combination of guide block and dual-piston cylinder

Product notes

> Unit to precisely guide gripper components such as sprue grippers or nippers to the workpiece
> Double-acting, separate compressed air connections for extraction and rectraction
> Sensors for optional detection of piston position (extracted/retracted)
> Stroke adjusters available on request
> Linear guide blocks can also be used to move gripped workpieces more closely together, to prepare the items for example for pick & place by vacuum grippers
> PNP and NPN sensors:
- C-slot (90° angle): GR04.202P, GR04.202N
- C-slot (straight, short design): GR04.280P, GR04.280N

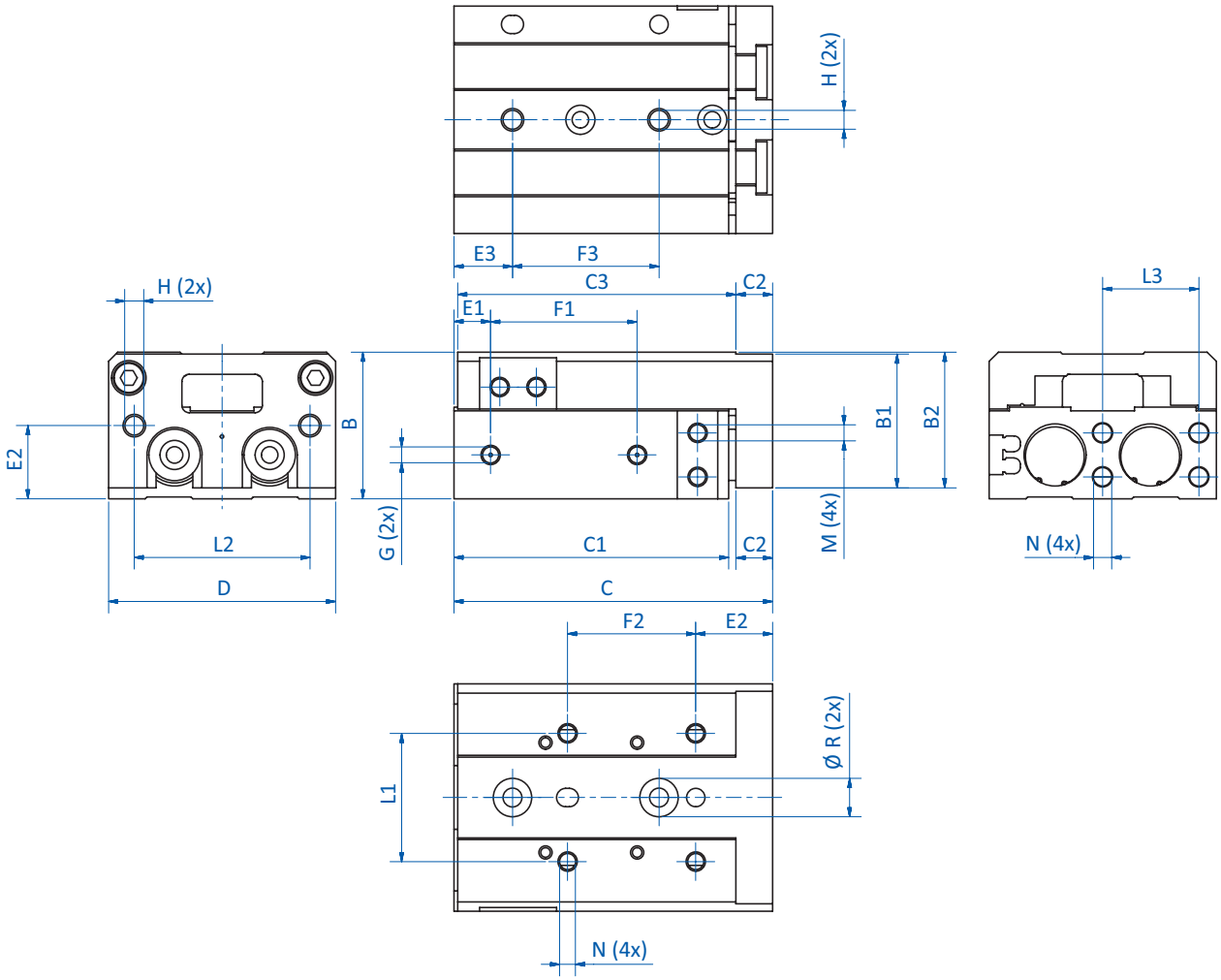
Technical data

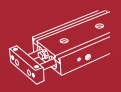
Item no.	GR07.216-30	GR07.216-50	GR07.216-75	GR07.216-100
Compressed air connection	2xM5	2xM5	2xM5	2xM5
Operating pressure [bar (psi)]	1.5 - 7 (21.8 - 101.5)	1.5 - 7 (21.8 - 101.5)	1.5 - 7 (21.8 - 101.5)	1.5 - 7 (21.8 - 101.5)
Piston diameter [mm]	16	16	16	16
Stroke [mm]	30	50	75	100
Medium	Filtered and oiled/ unoiled air	Filtered and oiled/ unoiled air	Filtered and oiled/ unoiled air	Filtered and oiled/ unoiled air
Operating temperature [°C (°F)]	-5 - 60 (23 - 140)	-5 - 60 (23 - 140)	-5 - 60 (23 - 140)	-5 - 60 (23 - 140)
Weight [g]	602	762	1,095	1,410
Suitable sensors	GR04.202N, GR04.202P, GR04.280N, GR04.280P			

Theoretical cylinder force depending on the working pressure

Working pressure [bar]	Cylinder force [N]	
	GR07.216-xx	
	Move out	Move in
2	80	60
3	121	91
4	161	121
5	201	151
6	241	181
7	281	211
Effective piston surface [mm²]	402	302

Dimensions





Item no.	GR07.216-30	GR07.216-50	GR07.216-75	GR07.216-100
B [mm]	40	40	40	40
B1 [mm]	36.5	36.5	36.5	36.5
B2 [mm]	37	37	37	37
C [mm]	87 - 117	112 - 162	162 - 237	210 - 310
C1 [mm]	75	100	150	198
C2 [mm]	10	10	10	10
C3 [mm]	76	101	151	199
D [mm]	62	62	62	62
E1 [mm]	10	15	40	55
E2 [mm]	20 - 21	20 - 21	20 - 21	20 - 21
E3 [mm]	16	21	26	39
F1 [mm]	40	60	85	118
F2 [mm]	35	30	55	65
F3 [mm]	40	30	35	35
G	M5	M5	M5	M5
H	M6x12	M6x12	M6x12	M6x12
L1 [mm]	35	35	35	35
L2 [mm]	48	48	48	48
L3 [mm]	26	26	26	26
M	M5x5,5	M5x5,5	M5x5,5	M5x5,5
N	M5x7	M5x7	M5x7	M5x7
Ø R [mm]	10.5	10.5	10.5	10.5