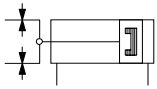


Precision gripper HGPP-...-RR-SA

Ø 10, 12, 16, 20, 25 mm, opening stroke 2.0 to 10.0 mm

Cleanroom class ISO 4 (FS209E class 10)

Double acting precision gripper
HGPP-...-RR-SA



- Wide ranging variants for flexible use:
- Double-acting piston drive HGPP-...-A.
- High precision gripper jaw guide.

- Variable gripping action:
- External gripping
- Internal gripping
- Multiple compressed air connections
- Integrated Hall sensor
- Highly flexible thanks to versatile attachment

Selection criteria:
Refer to DK1 (Electronic catalogue) or Volume 1 of Pneumatic Drives catalogue.



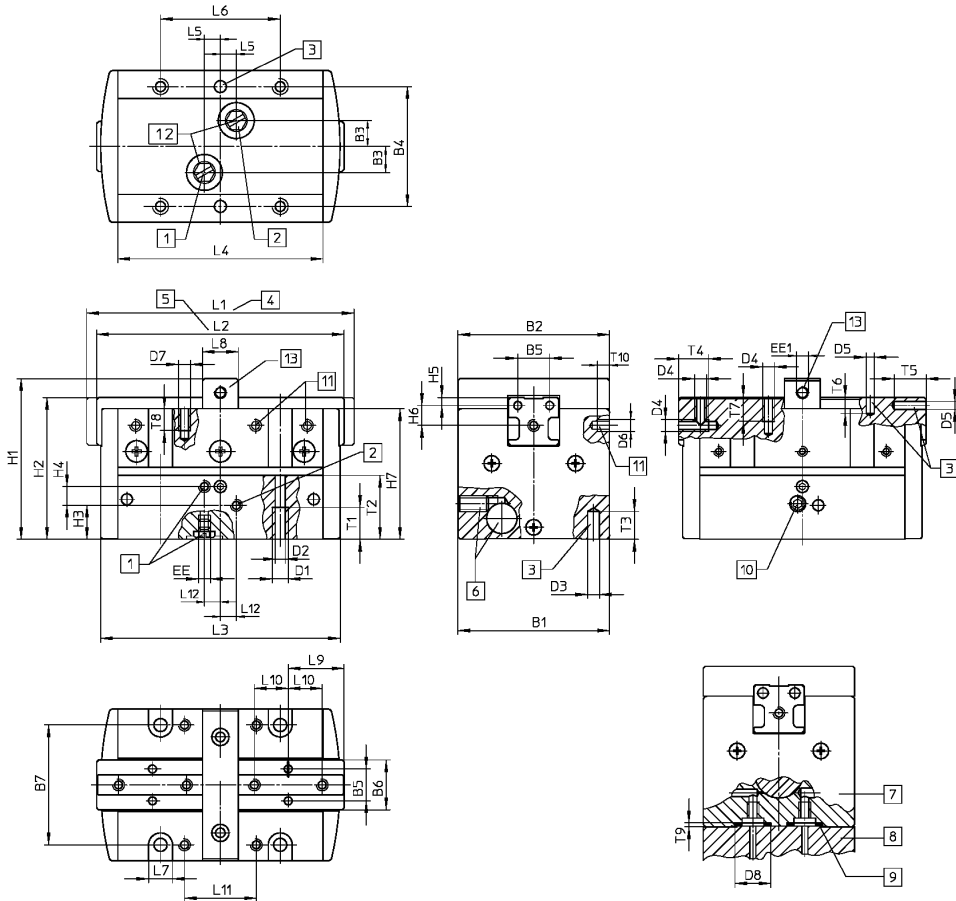
Type	Part No.	Ø [mm]	Opening stroke per jaw [mm]	Con- nection	Gripping force per gripper at 6 bar [N]	Max. applied load for additional gripper fingers [N]	Repetition accuracy [mm]	Operating pressure [bar]	Max. jaw backlash		Max. frequency [Hz]
									[mm]	[°]	
HGPP-10-A-RR-SA	15083874	10	2.0	M3	47.1	< 0.5	< 0.02	2...8	0	0	4
HGPP-12-A-RR-SA	15043419	12	2.5	M3	67.6	< 1	< 0.015				
HGPP-16-A-RR-SA	15044334	16	5.0	M5	120.6	< 1.5	< 0.015				
HGPP-20-A-RR-SA	15024276	20	7.5	M5	188.4	< 2	< 0.01				
HGPP-25-A-RR-SA	15083875	25	10.0	M5	294.5	< 3	< 0.02				

Technical data			Size	10	12	16	20	25
Max. permissible static characteristic load values	Forces	Fz Gripper jaw	[N]	40	70	130	220	380
		Fz Housing	[N]	200	400	600	800	1000
	Torques	Mx	[Nm]	1.5	3	7	14	21
		My	[Nm]	1.5	3	7	14	21
Mz		[Nm]	1.5	3	7	14	21	
Mass moments of inertia	Jz	[kgm ² x 10 ⁻⁴]	0.43	0.73	2.39	6.22	16.68	
Opening and closing times (without gripper fingers at 6 bar)	open	[ms]	22	27	40	44	64	
	close	[ms]	34	40	53	59	92	
Opening and closing times (with additional gripper fingers as a function of the applied load)	2 N	[ms]	200	100	50	–	–	
	3 N	[ms]	300	200	100	50	100	
	4 N	[ms]	–	300	200	100	150	
	5 N	[ms]	–	–	300	200	200	
Weights		[g]	126	172	315	604	884	
Materials	Housing		Anodised aluminium					
	Gripper jaws		Nickel plated aluminium					
	Cover cap		Anodised aluminium					
Ambient conditions	Temperature range	[°C]	+5 ... + 60					

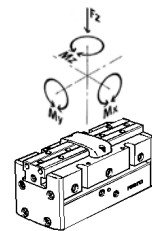
Precision gripper HGPP-...-RR-SA

Ø 10, 12, 16, 20, 25 mm, opening stroke 2.0 to 10.0 mm

Cleanroom class ISO 4 (FS209E class 10)



- 1 Supply port, opening
- 2 Supply port, closing
- 3 Hole for locating pin
(Locating pins are not included in scope of delivery.)
- 4 Gripper jaws open
- 5 Gripper jaws closed
- 6 Hole for sensor kit
- 7 Gripper
- 8 Adapter customer specific
- 9 O-ring for precision grippers:
HGPP-10: 5x1.5
HGPP-12: 5x1.5
HGPP-16: 13x1.78
HGPP-20: 13x1.78
HGPP-25: 13x1.78
- 10 Set screw for securing the Hall sensor
- 11 Thread for mounting bracket
HGPP-HWS-Q5
- 12 Supply port on base seal
Vacuum suction port



Ø [mm]	B1 +0.3	B2 +0.3	B3 ±0.1	B4 ±0.1	B5 ±0.02	B6 ±0.1	B7 ±0.1	D1	D2 Ø	D3 Ø H8	D4	D5 Ø H8	D6 Ø H8	D7	D8 Ø +0.2
HGPP-10	33	33	6.5	27	8	12.5	27	M4	3.3	3	M3	2	M2	M3	9
HGPP-12	38	38	6.5	30	8	12.5	30	M4	3.3	3	M3	2	M2	M3	9
HGPP-16	42	42	8.5	32	10	16	32	M4	3.3	3	M3	2.5	M2	M3	12.1
HGPP-20	48	48	10	40	12	20	40	M5	4.2	3	M4	3	M2	M3	12.1
HGPP-25	55	55	12	45	15	25	45	M6	5.1	5	M5	4	M2	M3	12.1

Ø [mm]	EE	EE1	H1	H2 ±0.1	H3	H4 ±0.1	H5 ±0.02	H6 ±0.12	H7 -0.3	L1 ±0.5	L2 ±0.5	L3 ±0.25	L4 ±0.05	L5 ±0.1	L6 ±0.1
HGPP-10	M3	M3	35.2	31.4	8.9 ±0.25	3.7	2	2.6	28.7	62	58	56	47.4	5	27
HGPP-12	M3	M3	40.2	35.5	8.5 ±0.3	4.7	2	5	32.7	67	62	60	51.4	4	30
HGPP-16	M5	M5	51.5	40.9	8.3 ±0.2	6.8	3	5	37.1	98	88	86	76	6.5	40
HGPP-20	M5	M5	57.5	53.48	15.5 ±0.2	8	3	7	48.5	120	105	103	92	7.5	40
HGPP-25	M5	M5	61	56	12.5 ±0.25	7.5	4	8	51	163	143	139.4	127.4	12	45

Ø [mm]	L7	L8 ±0.1	L9 ±0.02	L10 ±0.05	L11 ±0.1	L12 ±0.05	T1	T2	T3	T4 ±0.1	T5	T6	T7	T8	T9 +0.1	T10
HGPP-10	6	8	13.5	7.5	15	4	8	14.85	6	8	5	4	6	3.8	1	3
HGPP-12	6	9	14	8.5	18	4	8	16	6	7.5	5	4	6	5.5	1	3
HGPP-16	6	14	17.5	11.5	24	6.5	10	19.5	7	8	6	4.5	6	5	1.3	4
HGPP-20	8	20	21	13.5	26	7.5	12	28.5	7	10	8	7	8	6	1.3	7
HGPP-25	9	22	29.8	17	28	12	12	27	10	10	8	8	10	6	1.3	8