



## NHB-PG Series Parallel Type Pneumatic Grippers

Designed for chucking applications. The lever portion uses a linear guide for long operating life, high precision, long lever travel gripping, and overhang gripping. Gripping position repeatability  $\pm 0.01$  mm [ $\pm 0.0004$  in.]. Centering accuracy is also  $\pm 0.07$  mm [ $\pm 0.0028$  in.]. Magnet for sensor switch is standard.

- Parallel Type with High Precision, Preloaded Linear Guides
- Finger Attachment Options
- Utilizes Standard Integrated 4 mm Sensor Groove
- Double Acting, Single Acting or Mechanically Operated Available
- Long Stroke Options
- RoHS Compliance

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

### Operations

Double Acting Parallel Linear Guide

Single Acting NC Parallel Linear Guide Long Mechanical

Single Acting NO Parallel Linear Guide

Double Acting Parallel Linear Guide Long Stroke

Single Acting NC Parallel Linear Guide Mechanical

Single Acting NO Parallel Linear Guide w/ Fingers

Double Acting Parallel Linear Guide with Fingers

Single Acting NC Parallel Linear Guide w Fingers Mechanical

Single Acting NC Parallel Linear Guide

Single Acting NC Parallel Linear Guide w/ Cover Mechanical

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Model	Operation	Bore mm	Stroke Open/Close mm [in]	Repeatability mm [in]	Centering Accuracy mm [in]	Port Size metric [imperial]	Max Grip Point Length mm [in]	Effective Gripping Force*		Max Frequency cycle / min	Pressure Range MPa [psi]	Temperature Range °C [°F]
								Close N [lbf]	Open N [lbf]			
NHBDPG	Double Acting Parallel Linear Guide	6	3 [0.12]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	Consult Factory	3.3 [0.7]	6.3 [1.4]	180	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	8	4 [0.16]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	6.5 [1.5]	10 [2.2]	180	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	10	6.5 [0.26]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	10 [2.2]	16 [3.6]	180	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	16	10 [0.39]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	29 [6.5]	38 [8.5]	180	0.11 - 0.7 [16.0 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	20	14 [0.55]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	49 [11]	66 [14.8]	150	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

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Model	Operation	Bore mm	Stroke Open/Close mm [in]	Repeatability mm [in]	Centering Accuracy mm [in]	Port Size metric [imperial]	Max Grip Point Length mm [in]	Effective Gripping Force*		Max Frequency cycle / min	Pressure Range MPa [psi]	Temperature Range °C [°F]
								Close N [lbf]	Open N [lbf]			
NHBDPG	Double Acting Parallel Linear Guide	25	18 [0.71]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	82 [18.4]	103 [23.2]	150	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	32	22 [0.87]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	158 [35.5]	175 [39.3]	150	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	40	30 [1.18]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	258 [58]	300 [67.4]	120	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPG	Double Acting Parallel Linear Guide	50	36 [1.42]	0.01 [0.0004]	0.07 [0.003]	Rc 1/8 [upon request]	Consult Factory	418 [94]	480 [107.9]	120	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPGL	Double Acting Parallel Linear Guide Long Stroke	8	8 [0.31]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	5.8 [1.3]	9.9 [2.2]	120	0.22 - 0.7 [31.9 - 101.5]	0 - 60 [32 - 140]
NHBDPGL	Double Acting Parallel Linear Guide Long Stroke	10	12 [0.47]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	9.4 [2.1]	14.7 [3.3]	120	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHBDPGL	Double Acting Parallel Linear Guide Long Stroke	16	16 [0.63]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	26.4 [5.9]	39.2 [8.8]	120	0.12 - 0.7 [17.4 - 101.5]	0 - 60 [32 - 140]
NHBDPGL	Double Acting Parallel Linear Guide Long Stroke	20	22 [0.87]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	45 [10.1]	59.8 [13.4]	120	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPGY	Double Acting Parallel Linear Guide with Fingers	8	4 [0.16]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	6.5 [1.5]	10 [2.2]	180	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHBDPGY	Double Acting Parallel Linear Guide with Fingers	10	6.5 [0.26]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	10 [2.2]	16 [3.6]	180	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHBDPGY	Double Acting Parallel Linear Guide with Fingers	16	10 [0.39]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	29 [6.5]	38 [8.5]	180	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPGY	Double Acting Parallel Linear Guide with Fingers	20	14 [0.55]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	49 [11]	66 [14.8]	150	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBSPG	Single Acting NC Parallel Linear Guide	6	3 [0.12]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	Consult Factory	4.1 [0.9]	2.7 [0.6]	120	0.3 - 0.7 [43.5 - 101.5]	0 - 60 [32 - 140]
NHBMPGL	Single Acting NC Parallel Linear Guide Long Mechanical	8	8 [0.31]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	4.3 [1]	N/A	120	N/A	0 - 120 [32 - 248]
NHBMPGL	Single Acting NC Parallel Linear Guide Long Mechanical	10	12 [0.47]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	7.2 [1.6]	N/A	120	N/A	0 - 120 [32 - 248]

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Model	Operation	Bore mm	Stroke Open/Close mm [in]	Repeatability mm [in]	Centering Accuracy mm [in]	Port Size metric [imperial]	Max Grip Point Length mm [in]	Effective Gripping Force*		Max Frequency cycle / min	Pressure Range MPa [psi]	Temperature Range °C [°F]
								Close N [lbf]	Open N [lbf]			
NHBMPGL	Single Acting NC Parallel Linear Guide Long Mechanical	16	16 [0.63]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	11 [2.5]	N/A	120	N/A	0 - 120 [32 - 248]
NHBMPGL	Single Acting NC Parallel Linear Guide Long Mechanical	20	22 [0.87]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	12 [2.7]	N/A	120	N/A	0 - 120 [32 - 248]
NHBMPG	Single Acting NC Parallel Linear Guide Mechanical	6	2.4 [0.09]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	3.5 [0.8]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPG	Single Acting NC Parallel Linear Guide Mechanical	8	4.8 [0.19]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	4.3 [1]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPG	Single Acting NC Parallel Linear Guide Mechanical	10	6.8 [0.27]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	7.2 [1.6]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPG	Single Acting NC Parallel Linear Guide Mechanical	16	11.2 [0.44]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	11 [2.5]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPG	Single Acting NC Parallel Linear Guide Mechanical	20	14.9 [0.59]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	12 [2.7]	N/A	150	N/A	0 - 120 [32 - 248]
NHBMPGY	Single Acting NC Parallel Linear Guide w/ Fingers Mechanical	8	4.8 [0.19]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	4.3 [1]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGY	Single Acting NC Parallel Linear Guide w/ Fingers Mechanical	10	6.8 [0.27]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	7.2 [1.6]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGY	Single Acting NC Parallel Linear Guide w/ Fingers Mechanical	16	11.2 [0.44]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	11 [2.5]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGY	Single Acting NC Parallel Linear Guide w/ Fingers Mechanical	20	14.9 [0.59]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	12 [2.7]	N/A	150	N/A	0 - 120 [32 - 248]
NHBMPGJ	Single Acting NC Parallel Linear Guide w/ Cover Mechanical	8	4.8 [0.19]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	4.3 [1]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGJ	Single Acting NC Parallel Linear Guide w/ Cover Mechanical	10	6.8 [0.27]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	7.2 [1.6]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGJ	Single Acting NC Parallel Linear Guide w/ Cover Mechanical	16	11.2 [0.44]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	11 [2.5]	N/A	180	N/A	0 - 120 [32 - 248]
NHBMPGJ	Single Acting NC Parallel Linear Guide w/ Cover Mechanical	20	14.9 [0.59]	0.01 [0.0004]	0.07 [0.003]	N/A	Consult Factory	12 [2.7]	N/A	150	N/A	0 - 120 [32 - 248]

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								Close N [lbf]	Open N [lbf]			
NHBRPG	Single Acting NO Parallel Linear Guide	6	3 [0.12]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	Consult Factory	4.1 [0.9]	2.7 [0.6]	120	0.4 - 0.7 [58.0 - 101.5]	0 - 60 [32 - 140]
NHBRPG	Single Acting NO Parallel Linear Guide	8	4 [0.16]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	4.1 [0.9]	2.7 [0.6]	120	0.4 - 0.7 [58.0 - 101.5]	0 - 60 [32 - 140]
NHBRPG	Single Acting NO Parallel Linear Guide	10	6.5 [0.26]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	4.1 [0.9]	2.7 [0.6]	120	0.35 - 0.7 [50.8 - 101.5]	0 - 60 [32 - 140]
NHBRPG	Single Acting NO Parallel Linear Guide	16	10 [0.39]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	6.8 [1.5]	2.4 [0.5]	80	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPG	Single Acting NO Parallel Linear Guide	20	14 [0.55]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	19.6 [4.4]	5.4 [1.2]	80	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPG	Single Acting NO Parallel Linear Guide	25	18 [0.71]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	34.3 [7.7]	7.3 [1.6]	80	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPGY	Single Acting NO Parallel Linear Guide w/ Fingers	8	4 [0.16]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	4.3 [1]	1.4 [0.3]	180	0.4 - 0.7 [58.0 - 101.5]	0 - 60 [32 - 140]
NHBRPGY	Single Acting NO Parallel Linear Guide w/ Fingers	10	6.5 [0.26]	0.01 [0.0004]	0.07 [0.003]	M3 x 0.5 [upon request]	Consult Factory	6.7 [1.5]	2.5 [0.6]	180	0.35 - 0.7 [50.8 - 101.5]	0 - 60 [32 - 140]
NHBRPGY	Single Acting NO Parallel Linear Guide w/ Fingers	16	10 [0.39]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	22 [4.9]	4.8 [1.1]	180	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPGY	Single Acting NO Parallel Linear Guide w/ Fingers	20	14 [0.55]	0.01 [0.0004]	0.07 [0.003]	M5 x 0.8 [upon request]	Consult Factory	37 [8.3]	6 [1.3]	150	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]

\* @ 0.5 MPa / 72.5 psi and 30 mm gripping point length