



NHB-P / HNHB-P Series Parallel Type Pneumatic Grippers

Ideal for OEM applications looking for high production rates with a maximum operating frequency of 180 cycles per minute. In addition, engineers reduce the overall weight for any gripping or clamping processes with units weighing as little as 47 grams.

- Parallel Type with Slide Bearing or Cross Roller Bearings
- Work Ports Located on Multiple Surfaces for Easy Plumbing
- Utilizes Standard Integrated 4 mm Sensor Groove
- Double and Single Acting Options
- Dust Cover Available
- 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 Cross Roller Bearing
Single Acting Normally Open Parallel Mechanical

Double Acting Parallel Plain Bearing
Single Acting Normally Open Parallel Plain Bearing

Single Acting Normally Closed Parallel Mechanical

Single Acting Normally Open Cross Roller Bearing

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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]			
NHBDPA	Double Acting Parallel Cross Roller Bearing	6	4 [0.16]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	50 [1.969]	4.2 [0.9]	5.6 [1.3]	100	0.22 - 0.7 [31.9 - 101.5]	0 - 60 [32 - 140]
NHBDPA	Double Acting Parallel Cross Roller Bearing	10	4 [0.16]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	50 [1.969]	9.4 [2.1]	14.6 [3.3]	200	0.18 - 0.7 [26.1 - 101.5]	0 - 60 [32 - 140]
NHBDPA	Double Acting Parallel Cross Roller Bearing	16	8 [0.31]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	60 [2.362]	25.5 [5.7]	34 [7.6]	200	0.12 - 0.7 [17.4 - 101.5]	0 - 60 [32 - 140]
NHBDPA	Double Acting Parallel Cross Roller Bearing	20	12 [0.47]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	80 [3.15]	45.7 [10.3]	60.6 [13.6]	200	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDPA	Double Acting Parallel Cross Roller Bearing	25	14 [0.55]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	100 [3.937]	67 [15.1]	87 [19.6]	200	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDP / HNHBDP	Double Acting Parallel Plain Bearing	10	4 [0.16]	Consult Factory	Consult Factory	M3 x 0.5 [upon request]	30 [1.181]	7.8 [1.8]	4.9 [1.1]	180	0.15 - 0.7 [21.8 - 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]			
NHBDP / HNHBDP	Double Acting Parallel Plain Bearing	16	8 [0.31]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	40 [1.575]	23.5 [5.3]	17.7 [4]	180	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDP / HNHBDP	Double Acting Parallel Plain Bearing	20	12 [0.47]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	60 [2.362]	46.1 [10.4]	34.3 [7.7]	180	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBDP / HNHBDP	Double Acting Parallel Plain Bearing	25	14 [0.55]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	70 [2.756]	76.5 [17.2]	58.8 [13.2]	180	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
NHBMP	Single Acting Normally Closed Parallel Mechanical	10	4 [0.16]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	4.5 [1]	N/A	100	N/A	0 - 60 [32 - 140]
NHBMP	Single Acting Normally Closed Parallel Mechanical	16	9 [0.35]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	6.4 [1.4]	N/A	100	N/A	0 - 60 [32 - 140]
NHBMP	Single Acting Normally Closed Parallel Mechanical	20	13 [0.51]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	8.3 [1.9]	N/A	100	N/A	0 - 60 [32 - 140]
NHBRPA	Single Acting Normally Open Cross Roller Bearing	6	4 [0.16]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	50 [1.969]	1.3 [0.3]	2.7 [0.6]	100	0.4 - 0.7 [58.0 - 101.5]	0 - 60 [32 - 140]
NHBRPA	Single Acting Normally Open Cross Roller Bearing	10	4 [0.16]	0.01 [0.0004]	Consult Factory	M3 x 0.5 [upon request]	50 [1.969]	4.9 [1.1]	2 [0.4]	200	0.35 - 0.7 [50.8 - 101.5]	0 - 60 [32 - 140]
NHBRPA	Single Acting Normally Open Cross Roller Bearing	16	8 [0.31]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	60 [2.362]	21 [4.7]	3.9 [0.9]	200	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPA	Single Acting Normally Open Cross Roller Bearing	20	12 [0.47]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	80 [3.15]	36.4 [8.2]	6.9 [1.6]	200	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRPA	Single Acting Normally Open Cross Roller Bearing	25	14 [0.55]	0.01 [0.0004]	Consult Factory	M5 x 0.8 [upon request]	100 [3.937]	54 [12.1]	13.7 [3.1]	200	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBMRP	Single Acting Normally Open Parallel Mechanical	10	4 [0.16]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	N/A	4.5 [1]	100	N/A	0 - 60 [32 - 140]
NHBMRP	Single Acting Normally Open Parallel Mechanical	16	9 [0.35]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	N/A	6.4 [1.4]	100	N/A	0 - 60 [32 - 140]
NHBMRP	Single Acting Normally Open Parallel Mechanical	20	13 [0.51]	0.01 [0.0004]	Consult Factory	N/A	Consult Factory	N/A	8.3 [1.9]	100	N/A	0 - 60 [32 - 140]
NHBRP / HNHBPR	Single Acting Normally Open Parallel Plain Bearing	10	4 [0.16]	Consult Factory	Consult Factory	M3 x 0.5 [upon request]	30 [1.181]	2.9 [0.7]	2 [0.4]	180	0.35 - 0.7 [50.8 - 101.5]	0 - 60 [32 - 140]

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								Close N [lbf]	Open N [lbf]			
NHBRP / HNHBPRP	Single Acting Normally Open Parallel Plain Bearing	16	8 [0.31]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	40 [1.575]	12.7 [2.9]	3.9 [0.9]	180	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRP / HNHBPRP	Single Acting Normally Open Parallel Plain Bearing	20	12 [0.47]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	60 [2.362]	22.6 [5.1]	6.9 [1.6]	180	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHBRP / HNHBPRP	Single Acting Normally Open Parallel Plain Bearing	25	14 [0.55]	Consult Factory	Consult Factory	M5 x 0.8 [10-32 UNF]	70 [2.756]	37.3 [8.4]	13.7 [3.1]	180	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]

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