



- Medium duty to extremely heavy duty linear motion
- Powered by the 4MA NFPA cylinder, with ISO options available
- Bore sizes 3/4", 1", 1-1/4", 1-1/2", 2", and 2-1/2"
- Thrust, reach, and compact versions available
- Shock absorber, bumpers/stop collars, and proximity sensor options available

Operating Information

Maximum Operating pressure:	100 PSIG (7 bar), air – 4MAJ cylinder 145 PSIG (10 bar), air – P1F cylinder 250 PSIG (17 bar), air – 4MA, SR and 2ACylinders 400 PSIG (28 bar), oil – 4ML cylinder only 750 PSIG (52 bar), oil – 3L cylinder only
Cylinder Temperature range:	Standard seals 0°F to 165°F (-18°C to 74°C) Fluorocarbon seals* 0°F to 250°F (-18°C to 121°C) *See fluorocarbon seal option for high temperature applications.
Filtration requirements:	40 micron, dry filtered air

Ordering Information

HBT	25	08	A	P1	T	K	4A	B
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Series

HBC	Compact Slide
HBT	Thrust Slide
HBR	Reach Slide

Model

07	3/4" (20 mm) Bore, 10mm Shaft ^{6, 9}
10	1" (25 mm) Bore, 12mm Shaft ^{6, 9}
12	1-1/4" (32 mm) Bore, 16mm Shaft ^{7, 9}
15	1-1/2" (40 mm) Bore, 20mm Shaft ⁸
20	2" (50 mm) Bore, 25mm Shaft ⁸
25	2-1/2" (63 mm) Bore, 30mm Shaft ⁸

Slide Configuration Options

Blank	None
A*	Shock Absorber, Both Ends
A1*	Shock Absorber, Extend Only
B^	Bumper & Adjustable Stop Collar, Extend, Bumper Retract
B1^	Bumper & Adjustable Stop Collar, Extend Only
B4^	Bumper & Adjustable Stop Collar, Both Ends
X	Special Slide Configuration (please specify)

* Shock Absorber options N/A with Bumpers
^ Bumper options N/A with Shock Absorbers

Stroke length

Can Order in 10th of an Inch Increments ⁴

For 3-Position Units, Specify Intermediate and Total Stroke Separated by a "/", i.e. 2.5/6.5 ¹⁰

Consult Factory for Strokes Over 36"

Bushings

T	Composite (standard)
D	Linear Ball Bearing
T1	Composite with Oversized Support Shafts
TC	Composite with Contaminant-Tolerant Seals

Proximity Sensor Options
(S1 cylinder type N/A with proximity sensor options)

Blank	None
P	PNP, Flying Lead Type
P1	PNP, Plug-In Connector
J	8mm Sensor Mounting Bracket, No Sensor Supplied
J1	12mm Sensor Mounting Bracket, No Sensor Supplied

8mm inductive proximity sensors are included with options P, P1. Magnetic piston is standard for 4MA, 4MAJ, 4ML, P1F, SR cylinders. Order reed and solid state sensors separately.

Other Options

Blank	None
K	Stainless Steel Support Shafting

Design Series

B	Current Design Level
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Special Options

Blank	Standard
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(Two digit code assigned by factory and applies when any "X" appears in the model number or when special options or features are required.)

Cylinder Options
(More than one selection is possible)

Blank	None
V	Fluorocarbon Cylinder Seals ³

Cylinder Type

4A	4MA NFPA Air Cylinder, NPTF Ports
4P	4MAP NFPA Air Cylinder with Manual Override Rodlock, NPTF Ports, 100 PSIG Max.
4L	4ML NFPA Hydraulic Cylinder, NPTF Ports, 400 PSIG Max. 2, 5
F	P1F ISO Cylinder, BSPP Ports 7
F1	P1F ISO Cylinder, Standard Rodlock, BSPP Ports 7
SR	SRM Series Cylinder, NPTF Ports 6, 7, 8, 9
S	2A NFPA Steel Air Cylinder, 250 PSIG Max.
S1	3L NFPA Steel Hydraulic Cylinder, 750 PSIG Max. (Stop Collars, Bumpers, and Flow Controls Not Available with This Option. S1 cylinder type N/A with proximity sensor options) 5
Q	No Cylinder, NFPA Cylinder Mounting
Q1	No Cylinder, ISO Cylinder Mounting
X	Special Cylinder Type (please specify)

All cylinders to have cushions both ends, except for 4L and 3L options.

Sensors

See section L for sensors.



Notes:

- Cushions are N/A with 4ML cylinder type.
- Fluorocarbon seals N/A with rodlock cylinder type.
- P1F cylinders have strokes only in whole mm. The HB inch stroke will be changed (rounded up) to reflect this.
- No bumpers or stop collars with 4ML/3L cylinder types.
- Model 07, 10 only available with SR cylinder type.
- Model 12 only available with SR/P1F cylinder types.
- SRM cylinder type N/A on models 15, 20, 25.
- Model 07, 10, 12 only available with HBT thrust slide.
- 3 Position not available on 07 & 10 models.