

### Conversion from BC420 to MXP50N

#### Bore Size:

The bore size of the BC420 is 2" [50 mm].  
The bore size of the MXP50N is 2" [50 mm].

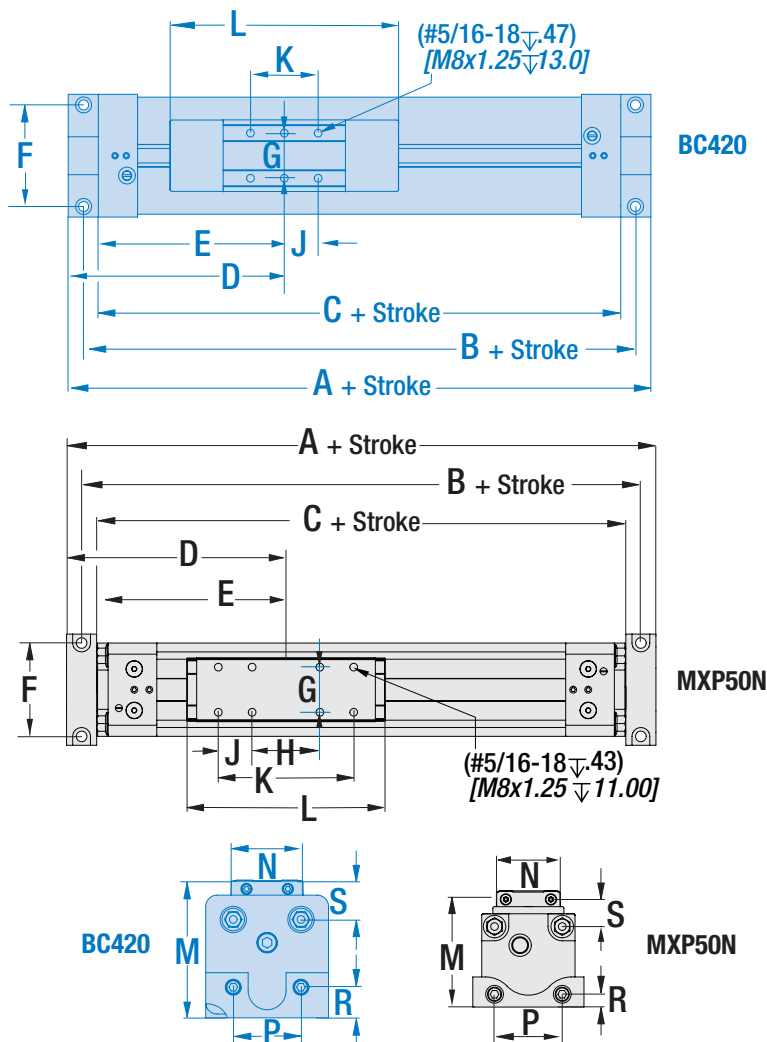
#### Envelope Size:

With foot mounts, the overall length, height and width of the BC420 is slightly larger than the MXP50N of equal stroke length.

#### Dead Length:

Dead length is the part of the band cylinder required for mounting and mechanisms. The overall length of a band cylinder is the stroke length plus the dead length ("C" dimension in the table).

The BC420 dead length is 12.362" [313.99 mm] compared to the MXP50N at 12.585" [319.66mm].



Dimensions in inches

Dimensions in millimeters

	BC420	MXP50N	BC420	MXP50N
A	14.362	14.585	364.79	370.46
B	13.338	13.585	338.79	345.06
C	12.362	12.585	313.99	319.66
D	7.181	7.292	182.40	185.23
E	6.181	6.292	157.00	159.83
F	3.375	3.104	85.73	78.85
G	1.500	1.500	38.10	38.10
H	-	2.250	-	57.15
J	2.668	1.035	67.76	26.27
K	2.250	4.500	57.15	114.30
L	7.585	6.569	192.66	166.84
M	4.578	3.862	116.28	98.09
N	2.371	2.126	60.23	54.00
P	2.250	2.250	57.15	57.15
R	0.891	0.425	22.63	10.80
S	1.310	1.187	33.27	30.15

## MOUNTING

### MOUNTING VIA HEAD BOLTS:

Bolt pattern "P" on the BC420 is 2.250" [57.15mm] square.  
Bolt pattern "P" on the MXP50N is 2.250" [57.15mm] square.

### CARRIER RELATION TO HEAD BOLT MOUNTING:

- Distance from the top of the carrier to the center of the top mounting bolts "S" is decreased by 0.123" [3.12mm].

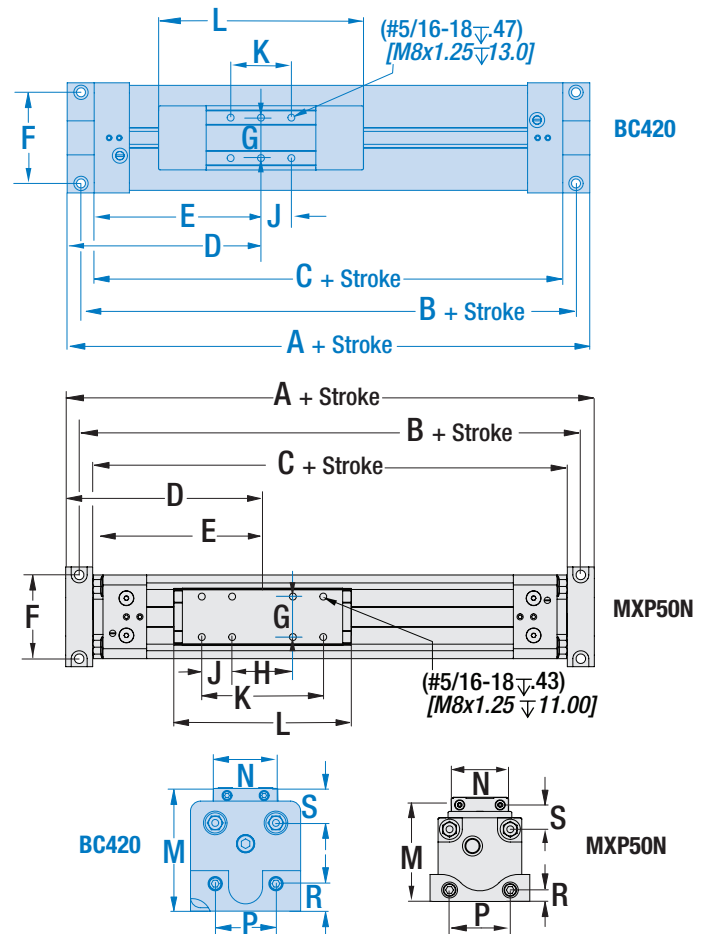
### MOUNTING VIA FOOT MOUNTS:

- When mounting the BC420 with foot mounts the distance between the mounting brackets "B" is increased by 0.247" [6.27mm] when using the MXP50N.
- Height of the carrier relative to the bottom of the foot mounts "M" is reduced by 0.716" [18.19mm].

### CARRIER:

- Carrier bolt pattern "G" & "K" of the BC420 is replicated on the MXP50N.
- Carrier length "L" decreases by 1.02" [52.58mm].
- Distance from the center of the carrier to the back edge of the head "E" increased by 0.111" [2.82mm].
- Additional mounting holes "K" are available on the MXP50N.

Drawing repeated for reference



## ORDERING

### SAMPLE CROSSOVER CONFIGURATION:

**DISCONTINUED**

**BC420 NP SK5.000 FM2**

Config. String: BC420 NP SK5.000 FM2

Bore Size: 2" [50 mm]

Unit of measure: SK (inches)

Stroke length 5.000 in

FM: Foot mount for actuator mounting,  
Quantity: 2

**NEW**

**MXP50N NP SK5.000 FM2**

Config. String: MXP50N NP SK5.000 FM2

Bore Size: 2" [50 mm]

Unit of measure: SK (inches)

Stroke length 5.000 in

FM: Foot mount for actuator mounting,  
Quantity: 2

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