



## Bimba Flat-1 Series

- Body — 4301 Stainless Steel
- Heads — Anodized Aluminum Alloy
- Piston Rod — Ground and Polished 4305 Stainless Steel
- Seals — Buna N (-25°C to +65°C). High temperature seals optional.
- Rod Bushing — Oil Impregnated Bronze
- Pressure Rating — 14 Bar Maximum (Air only)
- Temperature Rating — From -25°C to +65°C



### How to Order

The model number for all Flat-1 cylinders consists of three alphanumeric clusters. These designate type, bore size and stroke length, and mounting and special options. Please refer to the charts below for an example of Model Number FM-1715-3V. This is a double acting, 38mm bore, 15mm stroke cylinder with threaded mounting holes both ends and high temperature option.

Type	Bore Size	Stroke Length
FM - Double Acting, Single End Rod	02 - 14mm	5 - 5mm
FMD - Double Acting, Double End Rod	04 - 19mm	40 - 40mm
FMR - Reverse Acting	09 - 27mm	100 - 100mm
FMS - Single Acting	17 - 38mm	Etc.

# FM-1715-3V

Mounting Options	
(Enter in numeric order)	
No Number	- Basic model
1	- Pivot mount
1N	- Pivot mount 90° from standard
2F*	- Front trunnion mount
2R*	- Rear trunnion mount
3	- Threaded mounting holes, both ends
3F	- Threaded mounting holes, front
3R	- Threaded mounting holes, rear
4	- Screw clearance holes, both ends
4F	- Screw clearance holes, front
4R	- Screw clearance holes, rear
5	- Nose Mount**

\* Not available in 14mm bore.  
 \*\* Available in FM, FMS and FMR models. Includes heavy duty rear head.

Options	
(Enter in alphabetical order, except EE which is last)	
FTF	- Fine female thread
H	- Hollow rod (double end models only)
HD	- Heavy duty rear head
G	- Magnalube® G
MT	- Male rod end (coarse thread)
MTF	- Male rod end (fine thread)
NT	- Non-threaded rod
P2*, P3, P4*	- Front port position #2, etc.
L	- Low friction seals
M, M1, M3, M4	- Magnetic position sensing
T1, T3, T4	- Additional switch mounting post located in position #1, 3 or 4
V	- High temperature option (-18°C to +205°C)
W	- Rod wiper (Buna N only)
Y	- Moly-coat (MoS <sub>2</sub> I.D. coating)
EE10	- 10mm extra rod extension, etc.
EE50	- 50mm extra rod extension, etc.

\*Not available in 14mm bore.

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Bimba Flat-1® Series Cylinders METRIC

The convenient alternative for horizontal and side mounting, with provisions for both a bottom flush or face mounting. The Square Flat-1 also minimizes the centerline distance when cylinders are mounted side-by-side.

- Body — 4301 Stainless Steel
- Heads — Anodized Aluminum Alloy
- Piston Rod — Ground and Polished 4305 Stainless Steel
- Seals — Buna N (-25°C to +65°C). High temperature seals optional.
- Rod Bushing — Oil Impregnated Bronze
- Tie Rods — 4305 Stainless Steel
- Pressure Rating — Bore Sizes 19mm-50mm 14 Bar Maximum (Air only)  
Bore Sizes 63mm-101mm 10.34 Bar Maximum (Air only)
- Temperature Rating — From -25°C to +65°C



## How to Order

The model number for all Square Flat-1 cylinders consists of three alphanumeric clusters. These designate type, bore size and stroke length, and options. Please refer to the charts below for an example of Model Number FSMS-7040-V. This is a single acting, 76mm bore, 40mm stroke cylinder with high temperature option.

Type		Bore Size		Stroke Length
FSM	- Double Acting, Single End Rod	04	- 19mm	5
FSMD	- Double Acting, Double End Rod	09	- 27mm	40
FSMR	- Reverse Acting	17	- 38mm	100
FSMS	- Single Acting	31	- 50mm	Etc.
		50	- 63mm	
		70	- 76mm	
		125	- 101mm	

# FSMS-7040-V

Options	
<b>(Enter in alphabetical order, except EE which is last)</b>	
FTF	- Fine female thread
G	- Magnalube® G
H	- Hollow rod (double end models only)
L	- Low friction seals
M, M1, M4	- Magnetic position sensing
MT	- Male rod end (coarse thread)
MTF	- Male rod end (fine thread)
NT	- Non-threaded rod
T1, T4	- Additional switch track located in position #1 or 4
V	- High temperature option (-18°C to +205°C)
W	- Rod wiper (Buna N only)
Y	- Moly-coat (MoS <sub>2</sub> I.D. coating)
EE10	- 10mm extra rod extension, etc.
EE50	- 50mm extra rod extension, etc.

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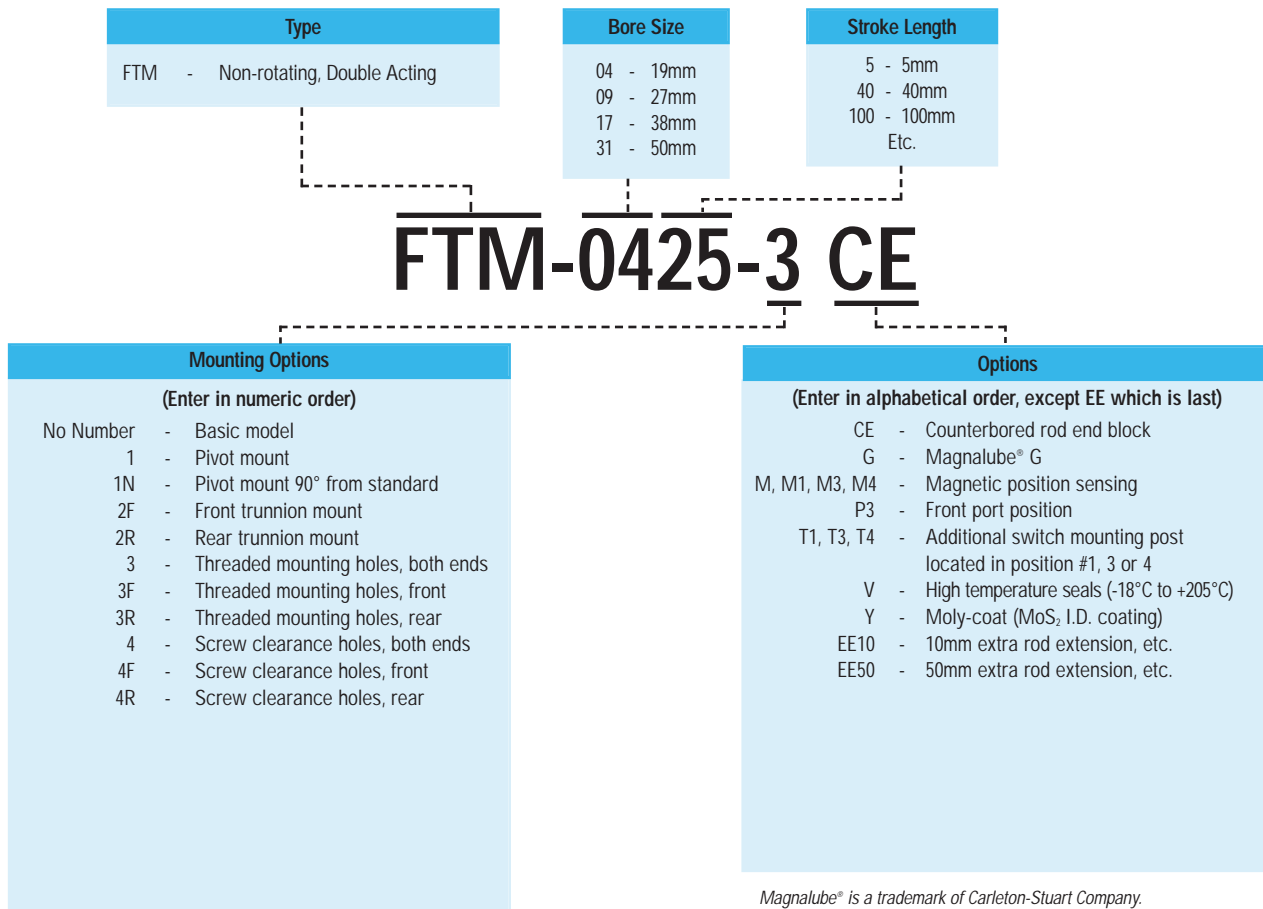
Flat-II non-rotating, double acting cylinder provides the answer to applications where rotation cannot be tolerated and space is at a minimum. Nonrotation is achieved with dual piston rods and a rod end block that insures the rods work in tandem. Flat-II eliminates the need for external alignment devices, such as guides, rods and alignment posts or pins.

- Body — 4301 Stainless Steel
- Heads — Anodized Aluminum Alloy
- Piston Rod — Ground and Polished 4305 Stainless Steel
- Piston Seals — Buna N Block V (High temperature seals optional)
- Rod Bushing — Oil Impregnated Bronze
- Rod Seals — Buna N O-ring (-25°C to +65°C). High temperature seals optional.
- Tie Rods — 4305 Stainless Steel
- Rod End Block — Anodized Aluminum Alloy
- Pressure Rating — 14 Bar Maximum (Air only)
- Temperature Rating — From -25°C to +65°C



## How to Order

The model number for Flat-II consists of three alphanumeric clusters. These designate type, bore size and stroke length, and mounting and special options. Please refer to the charts below for an example of Model Number FTM-0425-3CE. This is a non-rotating, double acting, 19mm bore, 25mm stroke cylinder with threaded mounting holes both ends and counterbored mounting holes in the rod end block.



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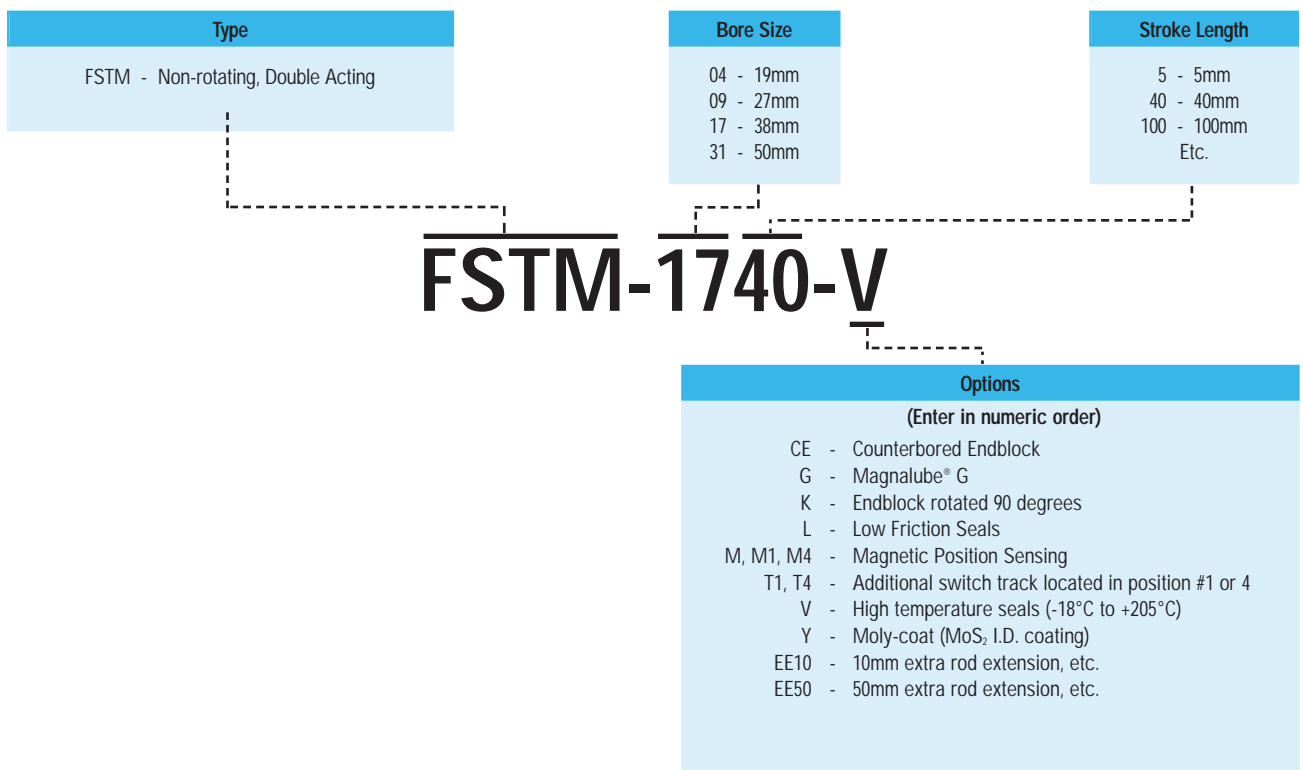
Square Flat-II non-rotating, double acting cylinder provides the answer to applications where rotation cannot be tolerated. Nonrotation is achieved with dual piston rods and a rod end block that insures the rods work in tandem. Square Flat-II eliminates the need for external alignment devices. It also provides a convenient alternative for horizontal and side mounting, with provisions for both bottom flush or face mounting. Centerline distances are minimized, facilitating side-by-side cylinder mounting.



- Body — 4301 Stainless Steel
- Heads — Anodized Aluminum Alloy
- Piston Rod — Ground and Polished 4305 Stainless Steel
- Piston Seals — Enhanced Lubricity Buna N (High temperature seals optional)
- Rod Bushing — Bronze
- Rod Seals — Buna N Block V (-25°C to +65°C). High temperature seals optional.
- Tie Rods — 4305 Stainless Steel
- Rod End Block — Anodized Aluminum Alloy
- Pressure Rating — 14 Bar Maximum (Air only)
- Temperature Rating — From -25°C to +65°C

## How to Order

The model number for all Square Flat-II cylinders consists of three alphanumeric clusters. These designate type, bore size and stroke length, and special options. Please refer to the charts below for an example of Model Number FSTM-1740-V. This is a non-rotating, double acting, 38mm bore, 40mm stroke cylinder, with high temperature option.



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