Wescon Industries Inc.
601 Century Plaza Dr, Houston, TX 77073
www.wesconusa.com

# DATASHEET

PART NUMBER

# WES599-6-WVES

## Wescon 599 Stainless Steel Microstop - M6x1 - 19 mm Cutter Capacity - Vacuum Skirt External Steel Foot

10 DEGREE PIVOTING SHAFT (SWIVEL SHAFT) / HIGH SPEED HEAVY DUTY STAINLESS STEEL

WEBSITE

https://www.wesconusa.com/products/WES599-6-WVES




The Wescon 599 Series Microstop is the stainless steel version of the 598, a high speed, heavy duty microstop countersink cage with a 10 degree pivoting shaft that angles into hard-to-reach holes a straight shaft cannot reach. Stainless steel construction makes it more durable and corrosion resistant than the standard alloy unit. It has dual ball bearings rated to 10,000 rpm, heavy duty thrust bearing, integrated dust seal and solid stop, 0.300 in (7.60 mm) of shaft travel and 0.0005 in (0.013 mm) incremental adjustment on a 1/4 in shaft. Swivel shafts are offered in round, tri-flat (TF) and quick change (QC) styles with 1/4-28, M6x1 or M8x1 cutter threads, twelve skirt styles, and nylon, steel or phenolic feet.

## SPECIFICATIONS

| | |
|---|---|
| **Measurement Type** | Metric |
| **Bearing Rating** | 10,000 rpm |
| **Bearing Type** | Dual Ball Bearings |
| **Heavy Duty Thrust Bearing** | Yes |
| **Incremental Adjustment** | 0.013 mm |
| **Shaft Travel** | 7.60 mm |
| **Dust Seal** | Integrated Dust Seal |
| **Cutter Thread** | M6x1 |
| **Shaft** | Round - Pivoting / Swivel Shaft |
| **Shaft Diameter** | 6.35 mm |
| **Cutter Capacity** | 19 mm |
| **Skirt** | Vacuum External Thread |
| **Skirt Description** | 31.75 mm OD 21.996 mm ID 19 mm Cutter Capacity |


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| | |
|---|---|
| **Foot** | Steel |
| **Solid Stop** | Yes |
| **Material** | Stainless Steel |
| **Vacuum Adapter** | Yes |
| **Country of Origin** | USA |

## ADDITIONAL IMAGES AND DRAWINGS




Image 1


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Image 2


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## WES599 Series Microstop




**Part Number**
WES599-X-XX-XX

- Shaft Option
- Foot Style
- Skirt Option*
- Cutter Thread

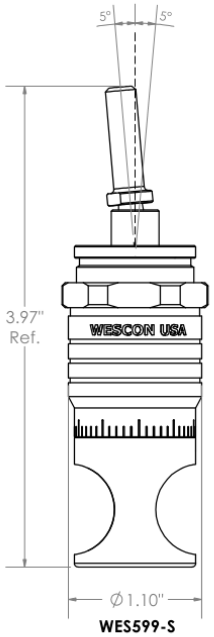
Incremental Adjustment: 0.0005 in
Shaft Travel: 0.300 in
Material: Carbon Steel Body with Hardened Tool Steel Shaft

Bearing Rating: 10,000 rpm
Bearing Type: Dual Ball-Bearings
Dust Seal: Integrated Dust Seal
Heavy Duty Thrust Bearing: Yes
Solid Stop: Yes

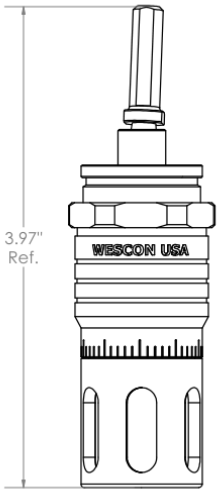
| Code | Cutter Thread |
|---|---|
| (Blank) | 1/4-28 |
| 6 | M6x1 |
| 8 | M8x1 |

| Code | Foot Style |
|---|---|
| N | Nylon |
| S | Steel |
| P | Phenolic |

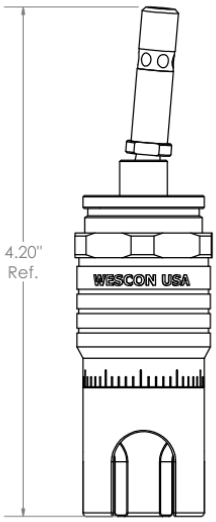
| Code | Shaft Option |
|---|---|
| (Blank) | Round Swivel Shaft |
| QC | Quick Change Swivel Shaft |
| TF | Tri Flat Swivel Shaft |




**WES599-S**
Microstop with
Round Swivel Shaft




**WES599-SL-TF**
Microstop with
Tri-Flat Swivel Shaft




**WES599-S3L-QC**
Microstop with
Quick Change Swivel Shaft

*For Skirt options see next page and website.

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Part Number **WES599**

Wescon 599 Microstop

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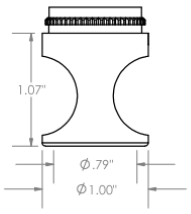
Revision 10 | All dimensions are in Inches | Information in this drawing is provided for reference only

Image 3

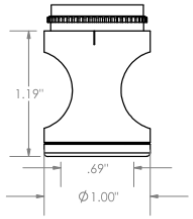


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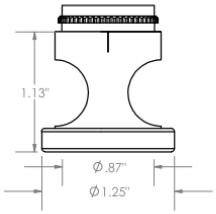
## Skirt Option



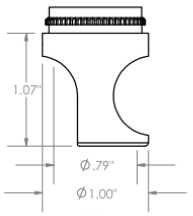

**S**
Straight
Cutter Ø3/4"(Ø19mm)



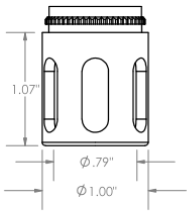

**I**
Internal Thread*
Cutter Ø5/8"(Ø15mm)



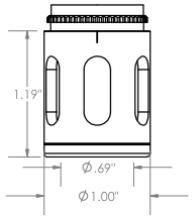

**E**
External Thread*
Cutter Ø3/4"(Ø19mm)



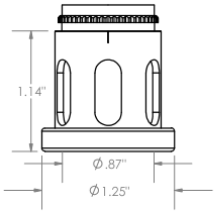

**SCA**
Straight Cutaway
Cutter Ø3/4"(Ø19mm)



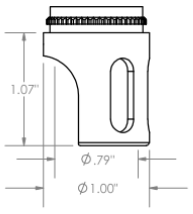

**SL**
Slotted
Cutter Ø3/4"(Ø19mm)



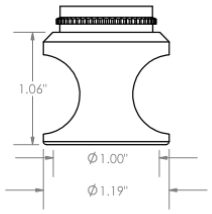

**SI**
Slotted Internal Thread*
Cutter Ø5/8"(Ø15mm)



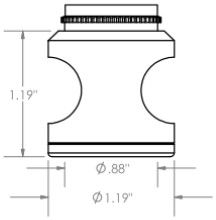

**SE**
Slotted External Thread*
Cutter Ø3/4"(Ø19mm)



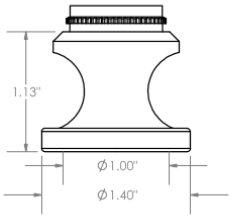

**SSCA**
Slotted Straight Cutaway
Cutter Ø3/4"(Ø19mm)



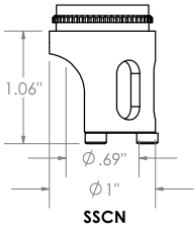

**B**
Bell
Cutter Ø7/8" (Ø22mm)



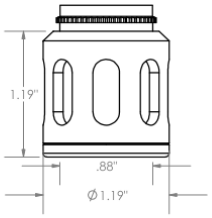

**BI**
Bell Internal Thread*
Cutter Ø3/4"(Ø19mm)



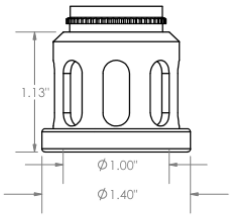

**BE**
Bell External Thread*
Cutter Ø7/8"(Ø22mm)



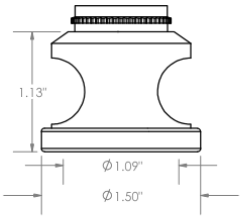

**SSCN**
Slotted Internal Thread Cutaway
with Nylon Foot
Cutter Ø5/8"(Ø15mm)



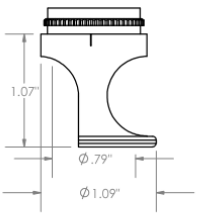

**SBI**
Slotted Bell Internal Thread*
Cutter Ø3/4"(Ø19mm)




**SBE**
Slotted Bell External Thread*
Cutter Ø7/8"(Ø22mm)




**BWE**
Bell Wide External Thread*
Cutter Ø1"(Ø25mm)




**FCA**
Flanged Cutaway
Cutter Ø3/4"(Ø19mm)

*Select foot style from table
Continued In Next Page.

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Part Number **WES599**

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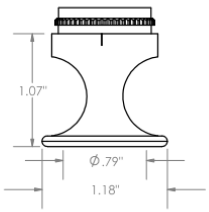
Wescon 599 Microstop

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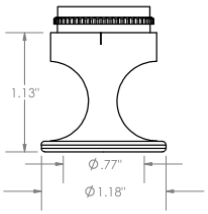
Image 4


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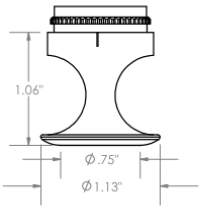
## Skirt Option (Continuation)



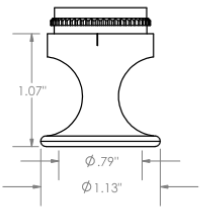

**F**
Flanged
Cutter Ø3/4"(Ø19mm)



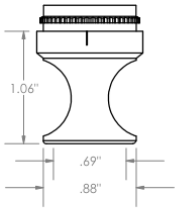

**FH**
Flanged High
Cutter Ø3/4" (Ø19mm)



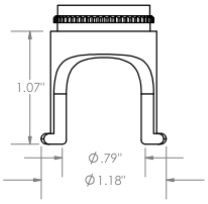

**SF**
Spherical Flanged
Cutter Ø3/4" (Ø19mm)



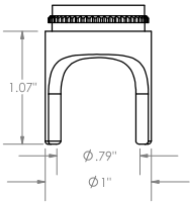

**F-1125**
Flanged 1.125 in OD
Cutter Ø3/4"(Ø19mm)



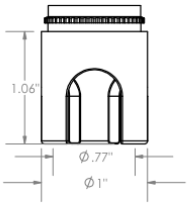

**S-875**
Straight 0.875 in OD
Cutter Ø5/8"(Ø15mm)



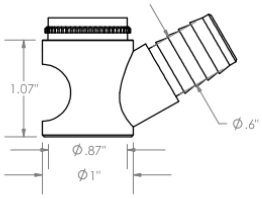

**F2L**
Flanged 2-Leg
Cutter Ø3/4"(Ø19mm)



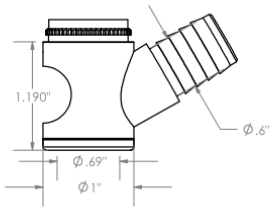

**S2L**
2-Leg
Cutter Ø3/4"(Ø19mm)



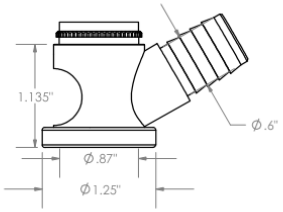

**S3L**
3-Leg
Cutter Ø3/4"(Ø19mm)



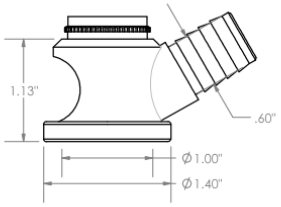

**WVS**
Vaccuum Straight
Cutter Ø3/4"(Ø19mm)



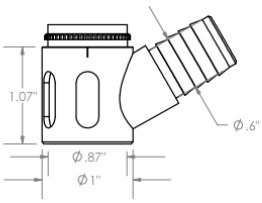

**WVI**
Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)



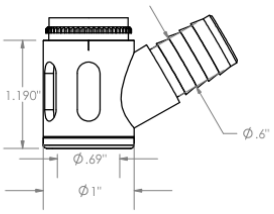

**WVE**
Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)



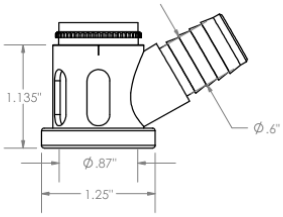

**WBVE**
Bell Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)



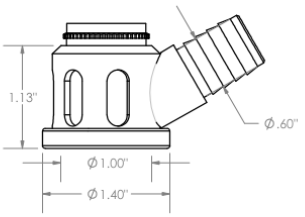

**SVS**
Slotted Vaccuum Straight
Cutter Ø3/4"(Ø19mm)




**SVI**
Slotted Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)




**SVE**
Slotted Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)




**SBVE**
Slotted Bell Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)

*Select foot style from table

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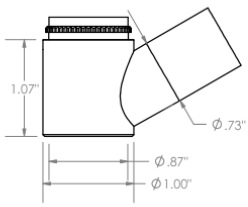
Wescon 599 Microstop

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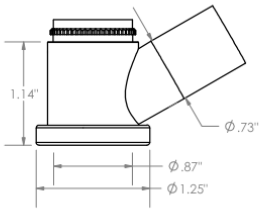
Image 5


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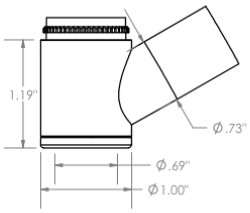
## Skirt Option



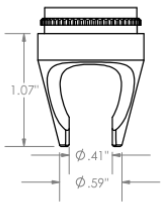

**VS**
Vaccuum Straight
Cutter Ø3/4"(Ø19mm)



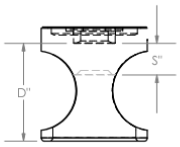

**VE**
Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)




**VI**
Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)

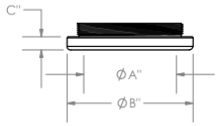



**C**
Close Quarters
Cutter Ø3/8"(Ø10mm)

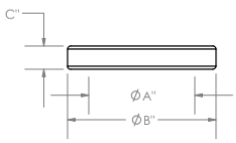



Skirt Inner Dimensions
For all Skirt Styles

| Distance From Shaft Face to Skirt Face | | Stroke Length |
|---|---|---|
| D (Minimum) | D (Maximum) | S |
| 0.750 (19.05mm) | 1.02 (25.90mm) | 0.30 (7.62mm) |




| Foot Style For | ØA (ID) | ØB (OD) | C | Nylon P/N | Steel P/N | Phenolic P/N |
|---|---|---|---|---|---|---|
| Internal Threaded Skirt | 0.69 | 1.00 | 0.13 | 59620-N | 59620-S | 59620-P |
| Bell Internal Threaded Skirt | 0.88 | 1.19 | 0.13 | 59640-N | 59640-S | 59640-P |




| Foot Style For | ØA (ID) | ØB (OD) | C | Nylon P/N | Steel P/N | Phenolic P/N |
|---|---|---|---|---|---|---|
| External Threaded Skirt | 0.87 | 1.25 | 0.22 | 59631-N | 59631-S | 59631-P |
| Bell External Threaded Skirt | 1.00 | 1.40 | 0.22 | 59641-N | 59641-S | 59641-P |
| Bell Wide External Threaded Skirt | 1.09 | 1.50 | 0.22 | 59651-N | 59651-S | 59651-P |

*Select foot style from table

WESCON

Part Number **WES599**

Wescon 599 Microstop

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Revision 10 | All dimensions are in Inches | Information in this drawing is provided for reference only

Image 6



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