

## RING VAC™

Convey solid materials, waste, trim, small parts with virtually no moving parts

### WHAT ARE THEY - REASONS TO USE

The Ring Vac™ - Pneumatic Conveying System has virtually no moving parts, conveys material at high rates and over long distances. They utilize only compressed air for a powerful, efficient venturi action along its length in a compact design for high capacity conveying over large distances. Ring Vacs are available in both coated aluminum or stainless steel. Simply clamp a standard hose size to each end of the Ring Vac™ to create this high energy conveying system. Threaded versions may be connected into standard pipe thread. No moving parts for maintenance free operation with capacity and flow controlled with a pressure regulator. Sizes are 3/8" (10mm), 1/2" (13mm), 3/4" (19mm), 1" (25.4mm), 1-1/4" (32mm), 1-1/2" (38mm) and 2" (51mm) and 3" (76.2mm). Any size beyond that can be prohibitive for most applications due to high compressed air requirements.

Beyond 3", the vacuum ability begins to drop significantly except for highly intermittent applications. However 3" units are available for such applications. Larger sizes are available on special order.

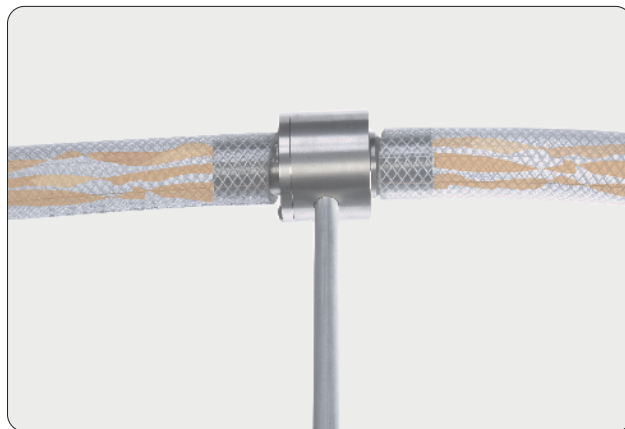
Anodized aluminum and high temperature stainless steel Ring Vac™ air conveyor can convey all types of solids in large volumes over great distances with no moving parts.

### APPLICATIONS:

- ▶ Hopper Loading
- ▶ Material Conveying
- ▶ Trim Removal
- ▶ Transfer Parts
- ▶ Filling Operations
- ▶ Thread/fiber Tensioning

### RING VAC™ BENEFITS:

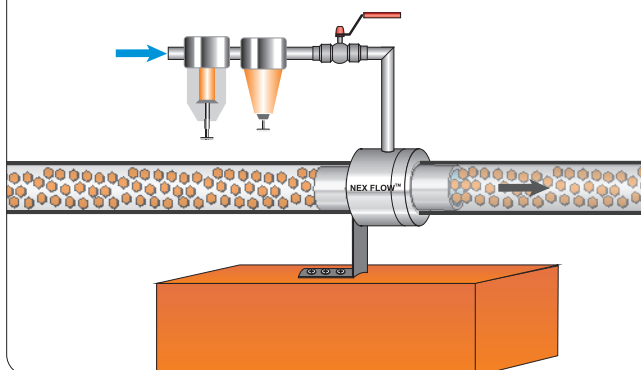
- ▶ Longer life in difficult environments than competitive models.
- ▶ Ease of use.
- ▶ Simple and easy control of material flow.
- ▶ Maintenance free operation.



### RING VAC™ FEATURES:

- ▶ Made of anodized aluminum with no moving parts. Regular and high temperature stainless steel models are available for higher temperature and corrosive environments.
- ▶ Standard sizes to fit standard hose diameter for easy clamping. Threaded versions connect easily to regular pipe thread : 1" (25mm), 1-1/4" (32mm), 1-1/2" (38mm), 2" (51mm). Special sizes can be manufactured if required.
- ▶ Utilizing a pressure regulator will control the flow material.
- ▶ Instant on/off with no moving parts, no electricity or explosion hazard.

A Model 30004S Stainless Steel 2" Ring Vac™ Air operated conveyor moves dried peas at a pet food manufacturing facility.



## TYPES OF RING VACS

The Ring Vac™ Pneumatic Conveying System is available in anodized aluminum, 303/304 stainless steel and in 316L stainless steel. Our special high temperature stainless version is rated to 1200°F (649°C)

Regular models connect to a standard hose or tube to provide a powerful and simply in-line conveying system. Threaded versions thread directly into threaded pipe.

Special materials can be utilized for unique applications. If greater conveying force is required the conveying “generator” can be machined for higher capacities although they will use more compressed air.

An optional bracket allows for easy mounting.



**Standard Ring Vac™**  
Air operated conveyor

**Threaded Ring Vac™**  
Air operated conveyor

## SELECTION

The Ring Vac™ is available in a wide variety of sizes depending on your application. There are certain criteria to determine the size you need:

- ▶ Diameter of the parts that need to be conveyed
- ▶ Rate required for conveying (by weight or volume)
- ▶ Diameter of the tube, pipe or hose used
- ▶ Material- Aluminum, stainless or high temperature (To 1200°F (650°C)) stainless
- ▶ Hose connection with clamp or threaded unit



**Ring Vac™ Air Operated Conveyors are easily mounted utilizing Stainless Steel mounting Brackets as shown.**

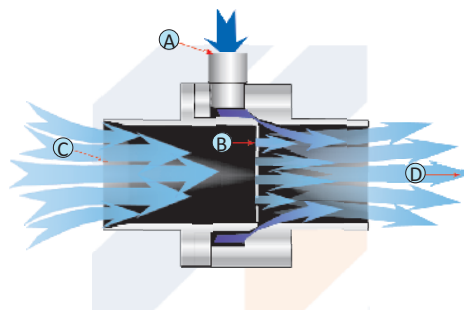
**Stainless Steel Mounting Bracket**

## SPECIAL DESIGNS

The high temperature models are suited to temperatures up to 1200°F (650°C). One ideal use is for sampling flue gases. Special versions can be supplied with medical flanges, and specific materials, higher flow rates and vacuum depending on your application.

### RING VAC™ - HOW IT WORKS:

Ring-Vac™ compressed air conveying system - Compressed air enters at point (A) into a annular plenum chamber and injected into the throat of the unit through directed nozzles. These jets of compressed air create a vacuum at the inlet (C) which draws in material and accelerates it through the unit and out at (D) conveying the material over a great vertical or horizontal distance.

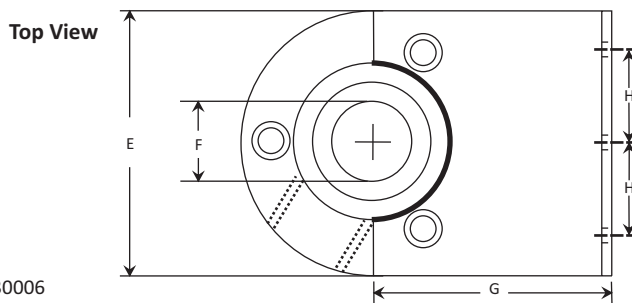


## DIMENSIONS - NOTES ON PART NUMBERS:

**S** - stainless      **TS** - threaded stainless      **THTS** - high temperature threaded stainless  
**T** - threaded      **HTS** - high temperature stainless

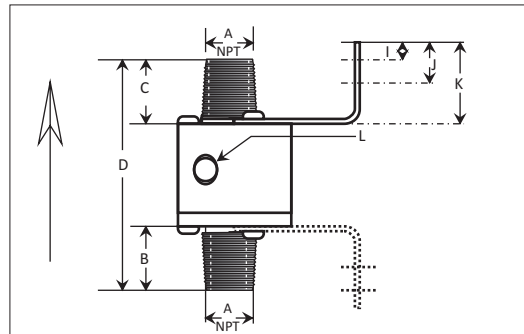
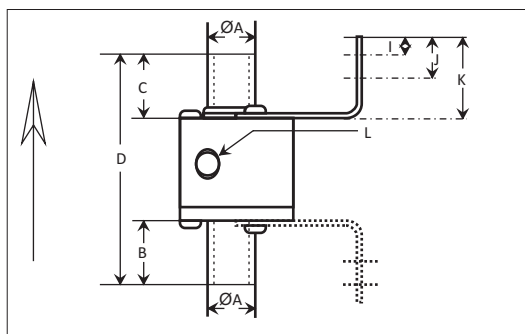
Dimensions in inches and (mm)

| PART NUMBER<br>(aluminum & stainless)                                                 | A<br>IN<br>(MM)  | B<br>IN<br>(MM) | C<br>IN<br>(MM) | D<br>IN<br>(MM)  | E<br>IN<br>(MM)  | F<br>IN<br>(MM)  | G<br>IN<br>(MM)  | H<br>IN<br>(MM) | I<br>IN<br>(MM) | J<br>IN<br>(MM) | K<br>IN<br>(MM) | L           |
|---------------------------------------------------------------------------------------|------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-------------|
| 39998, 39998S<br>39998HTS                                                             | 0.375"<br>(10.0) | 0.63"<br>(16.0) | 0.63"<br>(16.0) | 2.18"<br>(65.0)  | 1.00"<br>(25.0)  | 0.19"<br>(5.0)   | -                | -               | -               | -               | -               | 1/8"<br>NPT |
| 39999, 39999S<br>39999HTS                                                             | 0.50"<br>(13.0)  | 0.75"<br>(19.0) | 0.75"<br>(25.4) | 2.62"<br>(19.0)  | 1.25"<br>(32.0)  | 0.31"<br>(8.0)   | -                | -               | -               | -               | -               | 1/8"<br>NPT |
| 30000, 30000S,<br>30000HTS, 30000S-316L,<br>30000HTS-316L                             | 0.75"<br>(19.0)  | 1.00"<br>(25.4) | 1.00"<br>(25.4) | 3.94"<br>(100.0) | 1.95"<br>(49.5)  | 0.55"<br>(14.0)  | 1.92"<br>(48.73) | 0.95"<br>(15.0) | 0.39"<br>(10.0) | 1.18"<br>(30.0) | 1.97"<br>(50.0) | 1/4"<br>NPT |
| 30001, 30001S, 30001T<br>30001TS, 30001HTS<br>30001THTS, 30001S-316L<br>30001HTS-316L | 1.00"<br>(25.4)  | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.24"<br>(56.8)  | 0.75"<br>(19.0)  | 2.17"<br>(55.0)  | 0.73"<br>(18.5) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 1/4"<br>NPT |
| 30002, 30002S, 30002T<br>30002TS, 30002HTS<br>30002THTS, 30002S-316L<br>30002HTS-316L | 1.25"<br>(31.8)  | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.49"<br>(63.2)  | 1.00"<br>(25.4)  | 2.21"<br>(56.3)  | 0.73"<br>(18.5) | 0.39"<br>(10.0) | 1.77"<br>(45.0) | 2.17"<br>(55.0) | 1/4"<br>NPT |
| 30003, 30003S, 30003T<br>30003TS, 30003HTS<br>30003THTS, 30003S-316L<br>30003HTS-316L | 1.50"<br>(38.1)  | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.75"<br>(69.9)  | 1.125"<br>(28.6) | 2.15"<br>(54.5)  | 0.89"<br>(22.5) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 3/8"<br>NPT |
| 30004, 30004S, 30004T<br>30004TS, 30004HTS<br>30004THTS, 30004S-316L<br>30004HTS-316L | 2.00"<br>(50.8)  | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 3.21"<br>(81.6)  | 1.75"<br>(44.5)  | 2.39"<br>(60.7)  | 1.18"<br>(30.0) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 3/8"<br>NPT |
| 30005, 30005S<br>30005HTS                                                             | 2.50"<br>(63.5)  | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 5.29"<br>(134.5) | 3.94"<br>(100.0) | 2.19"<br>(55.6)  | -                | -               | -               | -               | -               | 3/8"<br>NPT |
| 30006, 30006S<br>30006TS, 30006HTS<br>30006THTS                                       | 3.0"<br>(76.2)   | 1.58"<br>(40.0) | 1.58"<br>(40.0) | 5.59"<br>(142.0) | 4.33"<br>(110.0) | 2.68"<br>(68.0)  | -                | -               | -               | -               | -               | 1/2"<br>NPT |



Series 30000 - 30006  
Series 30001S - 30004S

Series 30001T - 30004T Threaded  
Series 30001TS - 30004TS Threaded



## RING VAC™ PNEUMATIC CONVEYING SYSTEM PERFORMANCE:

| MODEL                               | SIZE OUTSIDE DIAMETER<br>INCHES (MM) | AIR CONSUMPTION SCFM AT 80<br>PSIG (SLPM AT 5.5 BAR) | VACUUM<br>INCHES H <sub>2</sub> O (KPA) |
|-------------------------------------|--------------------------------------|------------------------------------------------------|-----------------------------------------|
| 39998/39998S/39998HTS               | 3/8" (10mm)                          | 5.6 (158)                                            | -120 (-29.9)                            |
| 39999/39999S/39999HTS               | 1/2" (13mm)                          | 7 (198)                                              | -100 (-24.9)                            |
| 30000/30000S/30000HTS               | 3/4" (19mm)                          | 11 (303)                                             | -72 (-18.0)                             |
| 30000S-316L/30000HTS-316L           |                                      |                                                      |                                         |
| 30001/30001S/30001T/30001TS         | 1" (25mm)                            | 15 (415)                                             | -42 (-11)                               |
| 30001HTS/30001THTS                  |                                      |                                                      |                                         |
| 30001S-316L/30001HTS-316L           |                                      |                                                      |                                         |
| 30002/30002S/30002T/30002TS         | 1 1/4" (32mm)                        | 26 (730)                                             | -42 (-11)                               |
| 30002SHTS/30002HTS                  |                                      |                                                      |                                         |
| 30002S-316L/30002HTS-316L           |                                      |                                                      |                                         |
| 30003TS/30003THTS/30003HTS          | 1-1/2" (38mm)                        | 33 (932)                                             | -39 (-9)                                |
| 30003THTS/30003S-316L/30003HTS-316L |                                      |                                                      |                                         |
| 30004/30004S/30004T/30004TS         | 2" (51mm)                            | 45 (1270)                                            | -28 (-7)                                |
| 30004HTS/30004THTS                  |                                      |                                                      |                                         |
| 30004S-316L/30004HTS-316L           |                                      |                                                      |                                         |
| 30005/30005S/30005HTS               | 2-1/2" (63.5mm)                      | 58.5 (1655)                                          | -23.5 (-6)                              |
| 30006/30006S/30006TS                | 3" (76mm)                            | 69 (1940)                                            | -14.7 (-4)                              |
| 30006HTS/30006THTS                  |                                      |                                                      |                                         |

## RING VAC™ IN-LINE CONVEYERS: ALUMINUM RING VACS

| PART NO. | DESCRIPTION                                                                      |
|----------|----------------------------------------------------------------------------------|
| 39998    | 3/8" Aluminum Ring Vac Only                                                      |
| 39999    | 1/2" Aluminum Ring Vac™ Only                                                     |
| 30000    | 3/4" Aluminum Ring Vac Only                                                      |
| 30001    | 1" Aluminum Ring Vac™ Only                                                       |
| 30002    | 1-1/4" Aluminum Ring Vac™ Only                                                   |
| 30003    | 1-1/2" Aluminum Ring Vac™ Only                                                   |
| 30004    | 2" Aluminum Ring Vac™ Only                                                       |
| 30005    | 2-1/2" Aluminum Ring Vac™ Only                                                   |
| 30006    | 3" Aluminum Ring Vac™ Only                                                       |
| 31998    | 3/8" Aluminum Ring Vac™ Plus Filter with Auto Drain                              |
| 31999    | 1/2" Aluminum Ring Vac™ Plus Filter with Auto Drain                              |
| 31000    | 3/4" Aluminum Ring Vac™ Plus Filter with Auto Drain                              |
| 31001    | 1" Aluminum Ring Vac™ plus Filter with Auto Drain                                |
| 31002    | 1-1/4" Aluminum Ring Vac™ plus Filter with Auto Drain                            |
| 31003    | 1-1/2" Aluminum Ring Vac™ plus Filter with Auto Drain                            |
| 31004    | 2" Aluminum Ring Vac™ plus Filter with Auto Drain                                |
| 31005    | 2-1/2" Aluminum Ring Vac™ Plus Filter with Auto Drain                            |
| 31006    | 3" Aluminum Ring Vac™ Plus Filter with Auto Drain                                |
| 32998    | 3/8" Aluminum Ring Vac Plus Filter with Auto Drain and Regulator with Gauge      |
| 32999    | 1/2" Aluminum Ring Vac Plus Filter with Auto Drain and Regulator with Gauge      |
| 32000    | 3/4" Aluminum Ring Vac Plus Filter with Auto Drain and Regulator with Gauge      |
| 32001    | 1" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge         |
| 32002    | 1-1/4" Aluminum Ring Vac™ Vac plus Filter with Auto Drain & Regulator with Gauge |
| 32003    | 1-1/2" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |
| 32004    | 2" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge         |
| 32005    | 2-1/2" Aluminum Ring Vac™ Plus Filter with Auto Drain and Regulator with Gauge   |
| 32006    | 3" Aluminum Ring Vac™ Plus Filter with Auto Drain and Regulator with Gauge       |
| 30001T   | 1" Threaded Aluminum Ring Vac™ Only                                              |
| 30002T   | 1-1/4" Threaded Aluminum Ring Vac™ Only                                          |

## RING VAC™ IN-LINE CONVEYERS : ALUMINUM RING VACS (CON'T)

| PART NO. | DESCRIPTION                                                                  |
|----------|------------------------------------------------------------------------------|
| 30003T   | 1-1/2" Threaded Aluminum Ring Vac™ Only                                      |
| 30004T   | 2" Threaded Aluminum Ring Vac™ Only                                          |
| 31001T   | 1" Threaded Aluminum Ring Vac™ plus Filter with Auto Drain                   |
| 31002T   | 1-1/4" Threaded Aluminum Ring Vac™ plus Filter with Auto Drain               |
| 31003T   | 1-1/2" Threaded Aluminum Ring Vac™ plus Filter with Auto Drain               |
| 31004T   | 2" Threaded Aluminum Ring Vac™ plus Filter with Auto Drain                   |
| 32001T   | 1" Threaded Aluminum Ring Vac™ & Filter + Auto Drain & Regulator with Gauge  |
| 32002T   | 1-1/4" Threaded Alum. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32003T   | 1-1/2" Threaded Alum. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32004T   | 2" Threaded Aluminum Ring Vac™ & Filter + Auto Drain & Regulator with Gauge  |

## RING VAC™ IN-LINE CONVEYERS : STAINLESS STEEL RING-VACS

| PART NO. | DESCRIPTION                                                                   |
|----------|-------------------------------------------------------------------------------|
| 39998S   | 3/8" Stainless Ring Vac™ Only                                                 |
| 39999S   | 1/2" Stainless Ring Vac™ Only                                                 |
| 30000S   | 3/4" Stainless Ring Vac™ Only                                                 |
| 30001S   | 1" Stainless Ring Vac™ Only                                                   |
| 30002S   | 1-1/4" Stainless Ring Vac™ Only                                               |
| 30003S   | 1-1/2" Stainless Ring Vac™ Only                                               |
| 30004S   | 2" Stainless Ring Vac™ Only                                                   |
| 30005S   | 2-1/2" Stainless Ring Vac™ Only                                               |
| 30006S   | 3" Stainless Ring Vac™ Only                                                   |
| 31998S   | 3/8" Stainless Ring Vac™ plus Filter with Auto Drain                          |
| 31999S   | 1/2" Stainless Ring Vac™ plus Filter with Auto Drain                          |
| 31000S   | 3/4" Stainless Ring Vac™ plus Filter with Auto Drain                          |
| 31001S   | 1" Stainless Ring Vac™ plus Filter with Auto Drain                            |
| 31002S   | 1-1/4" Stainless Ring Vac™ plus Filter with Auto Drain                        |
| 31003S   | 1-1/2" Stainless Ring Vac™ plus Filter with Auto Drain                        |
| 31004S   | 2" Stainless Ring Vac™ plus Filter with Auto Drain                            |
| 31005S   | 2-1/2" Stainless Ring Vac™ plus Filter with Auto Drain                        |
| 31006S   | 3" Stainless Ring Vac™ plus Filter with Auto Drain                            |
| 32998S   | 3/8" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge   |
| 32999S   | 1/2" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge   |
| 32000S   | 3/4" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge   |
| 32001S   | 1" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |
| 32002S   | 1-1/4" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge |
| 32003S   | 1-1/2" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge |
| 32004S   | 2" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |
| 32005S   | 2-1/2" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge |
| 32006S   | 3" Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |
| 30001TS  | 1" Threaded Stainless Ring Vac™ Only                                          |
| 30002TS  | 1-1/4" Threaded Stainless Ring Vac™ Only                                      |
| 30003TS  | 1-1/2" Threaded Stainless Ring Vac™ Only                                      |

## RING VAC™ IN-LINE CONVEYERS : STAINLESS STEEL RING-VACS (Con't)

| PART NO. | DESCRIPTION                                                                  |
|----------|------------------------------------------------------------------------------|
| 30004TS  | 2" Threaded Stainless Ring Vac™ Only                                         |
| 30006TS  | 3" Threaded Stainless Ring Vac™ Only                                         |
| 31001TS  | 1" Threaded Stainless Ring Vac™ plus Filter with Auto Drain                  |
| 31002TS  | 1-1/4" Threaded Stainless Ring Vac™ plus Filter with Auto Drain              |
| 31003TS  | 1-1/2" Threaded Stainless Ring Vac™ plus Filter with Auto Drain              |
| 31004TS  | 2" Threaded Stainless Ring Vac™ plus Filter with Auto Drain                  |
| 31006TS  | 3" Threaded Stainless Ring Vac™ plus Filter with Auto Drain                  |
| 32001TS  | 1" Threaded Stainless Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32002TS  | 1-1/4" Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge   |
| 32003TS  | 1-1/2" Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge   |
| 32004TS  | 2" Threaded Stainless Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32006TS  | 3" Threaded Stainless Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |

## RING VAC™ IN-LINE CONVEYERS : HIGH TEMPERATURE STAINLESS STEEL RING VACS

| PART NO. | DESCRIPTION                                                                     |
|----------|---------------------------------------------------------------------------------|
| 39998HTS | 3/8" High Temperature Stainless Ring Vac™ Only                                  |
| 39999HTS | 1/2" High Temperature Stainless Ring Vac™ Only                                  |
| 30000HTS | 3/4" High Temperature Stainless Ring Vac™ Only                                  |
| 30001HTS | 1" High Temperature Stainless Ring Vac™ Only                                    |
| 30002HTS | 1-1/4" High Temperature Stainless Ring Vac™ Only                                |
| 30003HTS | 1-1/2" High Temperature Stainless Ring Vac™ Only                                |
| 30004HTS | 2" High Temperature Stainless Ring Vac™ Only                                    |
| 30005HTS | 2-1/2" High Temperature Stainless Ring Vac™ Only                                |
| 30006HTS | 3" High Temperature Stainless Ring Vac™ Only                                    |
| 31998HTS | 3/8" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain           |
| 31999HTS | 1/2" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain           |
| 31000HTS | 3/4" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain           |
| 31001HTS | 1" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain             |
| 31002HTS | 1-1/4" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain         |
| 31003HTS | 1-1/2" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain         |
| 31004HTS | 2" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain             |
| 31005HTS | 2-1/2" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain         |
| 31006HTS | 3" High Temperature Stainless Ring Vac™ plus Filter with Auto Drain             |
| 32998HTS | 3/8" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge   |
| 32999HTS | 1/2" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge   |
| 32000HTS | 3/4" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge   |
| 32001HTS | 1" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge     |
| 32002HTS | 1-1/4" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge |
| 32003HTS | 1-1/2" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge |

**RING VAC™ IN-LINE CONVEYERS: HIGH TEMPERATURE STAINLESS STEEL RING VACS (Con't)**

| PART NO.    | DESCRIPTION                                                                           |
|-------------|---------------------------------------------------------------------------------------|
| 32004HTS    | 2" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge           |
| 32005HTS    | 2-1/2" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge       |
| 32006HTS    | 3" High Temp. SS. Ring Vac™ plus Filter + Auto Drain & Regulator with Gauge           |
| 30001THTS   | 1" High Temperature Threaded Stainless Ring Vac™ Only                                 |
| 30002THTS   | 1-1/4" High Temperature Threaded Stainless Ring Vac™ Only                             |
| 30003THTS   | 1-1/2" High Temperature Threaded Stainless Ring Vac™ Only                             |
| 30004THTS   | 2" High Temperature Threaded Stainless Ring Vac™ Only                                 |
| 30006THTS   | 3" High Temperature Threaded Stainless Ring Vac™ Only                                 |
| 31001THTS   | 1" High Temp. Threaded SS. Ring Vac™ plus Filter with Auto Drain                      |
| 31002THTS   | 1-1/4" High Temp. Threaded SS. Ring Vac™ plus Filter with Auto Drain                  |
| 31003THTS   | 1-1/2" High Temp. Threaded SS. Ring Vac™ plus Filter with Auto Drain                  |
| 31004THTS   | 2" High Temp. Threaded SS. Ring Vac™ plus Filter with Auto Drain                      |
| 31006THTS   | 3" High Temp. Threaded SS. Ring Vac™ plus Filter with Auto Drain                      |
| 32001THTS   | 1" High Temp. Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge     |
| 32002THTS   | 1-1/4" High Temp. Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32003THTS   | 1-1/2" High Temp. Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge |
| 32004THTS   | 2" High Temp. Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge     |
| 32006THTS   | 3" High Temp. Threaded SS. Ring Vac™ & Filter + Auto Drain & Regulator with Gauge     |
| 30000S-316L | 3/4" 316L Stainless Ring Vac™ Only                                                    |
| 30000S-316L | 1" 316L Stainless Ring Vac™ Only                                                      |
| 30001S-316L | 1-1/4" 316L Stainless Ring Vac™ Only                                                  |
| 30002S-316L | 1-1/2" 316L Stainless Ring Vac™ Only                                                  |
| 30003S-316L | 2" 316L Stainless Ring Vac™ Only                                                      |
| 31000S-316L | 3/4" 316L Stainless Ring Vac™ plus Filter with Auto Drain                             |
| 31001S-316L | 1" 316L Stainless Ring Vac™ plus Filter with Auto Drain                               |
| 31002S-316L | 1-1/4" 316L Stainless Ring Vac™ plus Filter with Auto Drain                           |
| 31003S-316L | 1-1/2" 316L Stainless Ring Vac™ plus Filter with Auto Drain                           |
| 31004S-316L | 2" 316L Stainless Ring Vac™ plus Filter with Auto Drain                               |
| 32000S-316L | 3/4" 316L Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge      |
| 32001S-316L | 1" 316L Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge        |
| 32002S-316L | 1-1/4" 316L Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge    |



## RING VAC™ IN-LINE CONVEYERS: HIGH TEMPERATURE STAINLESS STEEL RING VACS (Con't)

| PART NO.      | DESCRIPTION                                                                                |
|---------------|--------------------------------------------------------------------------------------------|
| 32003S-316L   | 1-1/2" 316L Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge         |
| 32004S-316L   | 2" 316L Stainless Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge             |
| 30000HTS-316L | 3/4" 316L High Temperature Stainless Ring Vac™ Only                                        |
| 30001HTS-316L | 1" 316L High Temperature Stainless Ring Vac™ Only                                          |
| 30002HTS-316L | 1-1/4" 316L High Temperature Stainless Ring Vac™ Only                                      |
| 30003HTS-316L | 1-1/2" 316L High Temperature Stainless Ring Vac™ Only                                      |
| 30004HTS-316L | 2" 316L High Temperature Stainless Ring Vac™ Only                                          |
| 31000HTS-316L | 3/4" 316L High Temperature Stainless Ring Vac™ + Filter with Auto Drain                    |
| 31001HTS-316L | 1" 316L High Temperature Stainless Ring Vac™ + Filter with Auto Drain                      |
| 31002HTS-316L | 1-1/4" 316L High Temperature Stainless Ring Vac™ + Filter with Auto Drain                  |
| 31003HTS-316L | 1-1/2" 316L High Temperature Stainless Ring Vac™ + Filter with Auto Drain                  |
| 31004HTS-316L | 2" 316L High Temperature Stainless Ring Vac™ + Filter with Auto Drain                      |
| 32000HTS-316L | 3/4" 316L High Temp. Stainless Ring Vac™ + Filter with Auto Drain & Regulator with Drain   |
| 32001HTS-316L | 1" 316L High Temp. Stainless Ring Vac™ + Filter with Auto Drain & Regulator with Drain     |
| 32002HTS-316L | 1-1/4" 316L High Temp. Stainless Ring Vac™ + Filter with Auto Drain & Regulator with Drain |
| 32003HTS-316L | 1-1/2" 316L High Temp. Stainless Ring Vac™ + Filter with Auto Drain & Regulator with Drain |
| 32004HTS-316L | 2" 316L High Temp. Stainless Ring Vac™ + Filter with Auto Drain & Regulator with Drain     |

| PART NO. | DESCRIPTION                                                                     |
|----------|---------------------------------------------------------------------------------|
| 39000S   | Stainless Steel Bracket for 30000, 30000S and 30000HTS                          |
| 39001S   | Stainless Steel Bracket for 30001, 30001T, 30001S, 30001TS, 30001HTS, 30001THTS |
| 39002S   | Stainless Steel Bracket for 30002, 30002T, 30002S, 30002TS, 30002HTS, 30002THTS |
| 39003S   | Stainless Steel Bracket for 30003, 30003T, 30003S, 30003TS, 30003HTS, 30003THTS |
| 39004S-A | Stainless Steel Bracket for 30004 and 30004T                                    |
| 39004S-S | Stainless Steel Bracket for 30004S, 30004TS, 30004HTS, 30004THTS                |



## X-STREAM™ RING VAC™

Convey solid materials, waste, trim, small parts with virtually no moving parts further with wear resistance

### WHAT ARE THEY - REASONS TO USE

**Conveyors X-Stream™ Ring Vac™** – pneumatic conveying system is similar to the regular Ring Vac™ but with much more power to convey materials much further both vertically and horizontally. In addition they are hard anodized for abrasion resistance to make them last long in moving abrasive, rough materials. As with the regular Ring Vac™ they utilize only compressed air for a powerful, efficient venture i action along its length in a compact design for high capacity conveying over large distances. Simply clamp a standard hose size to each end of the Ring Vac™ to create this high energy conveying system. Threaded versions may be connected into standard pipe thread. No moving parts for maintenance free operation with capacity and flow controlled with a pressure regulator. Sizes are 1" (25mm), 1-1/4" (32 mm), 1-1/2" (38 mm) and 2" (51 mm). Any size beyond that can be prohibitive for most applications due to high compressed air requirements.

Beyond 2", the vacuum ability begins to drop significantly except for highly intermittent applications. For applications beyond 2", a blower system often becomes far more economical except in a rare number of possible applications. However, larger size versions are available on special order. Anodized aluminum and high temperature stainless steel Ring Vac™ air conveyor can convey all types of solids in large volumes over great distances with no moving parts.

### APPLICATIONS:

- ▶ Hopper Loading
- ▶ Material Conveying
- ▶ Trim Removal
- ▶ Transfer Parts
- ▶ Filling Operations
- ▶ Thread/fiber Tensioning

### HEAVY DUTY X-STREAM™ RING VAC™ BENEFITES:

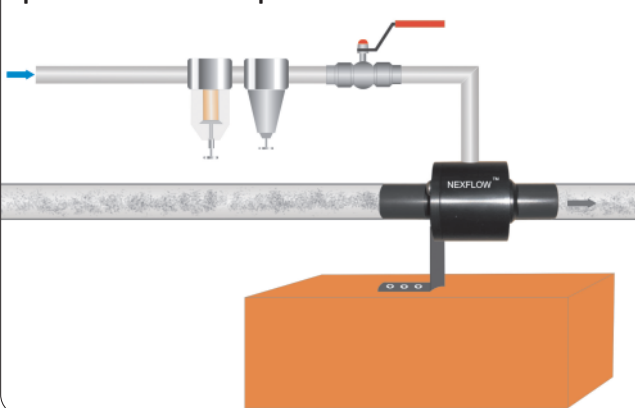
- ▶ Longer life in difficult environments than competitive models.
- ▶ Ease of use.
- ▶ Simple and easy control of material flow.
- ▶ Maintenance free operation.



### HEAVY DUTY X-STREAM™ RING VAC™ FEATURES:

- ▶ Made of Hard Anodized aluminum with no moving parts. Ideal for moving abrasive materials
- ▶ Extra strength to convey longer distances both vertically and horizontally than standard models.
- ▶ Utilizing a pressure regulator will control the flow of material
- ▶ Instant on/off with no moving parts, no electricity or explosion hazard

**Heavy Duty X-Stream™ Ring Vac™ Model 30002X transports an abrasive material over 100 feet across a plant floor from one operation to the next**



## TYPES OF RING VACS

The Heavy Duty X-Stream™ Ring Vac™ Pneumatic Conveying System comes in hard anodized aluminum for abrasion resistance and with more power than the standard versions to convey greater vertical and horizontal distances. Regular models connect to a standard hose or tube to provide a powerful and simply in-line conveying system. Threaded versions thread directly into threaded pipe.

The generator can be machined further for even larger capacities and distances although they can will use more compressed air.

An optional bracket allows form easy mounting.



## SELECTION

The Heavy Duty X-Stream™ Ring Vac™ is available in a wide variety of sizes depending on your application. There are certain criteria to determine the size you need:

- ▶ Diameter of the parts that need to be conveyed
- ▶ Rate required for conveying (by weight or volume)
- ▶ Diameter of the tube, pipe or hose used
- ▶ Material- Hard Anodized Aluminum

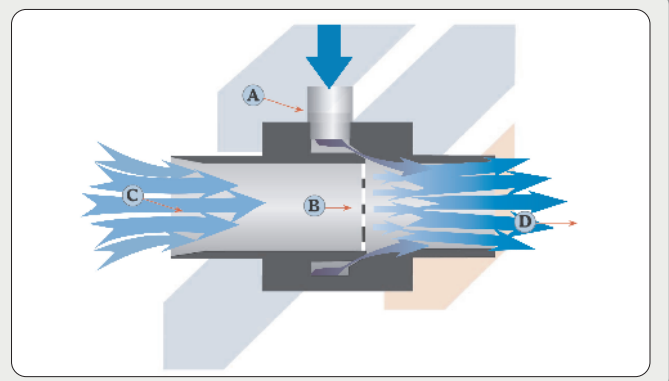


## SPECIAL DESIGNS

The high temperature models are suited to temperatures up to 1200°F (650°C). One ideal use is for sampling flue gases. Special versions can be supplied with medical flanges, and specific materials, higher flow rates and vacuum depending on your application.

### Heavy Duty X-Stream™ Ring Vac™ - HOW IT WORKS:

Ring-Vac™ compressed air conveying system - Compressed air enters at point (A) into a annular plenum chamber and injected into the throat of the unit though directed nozzles. These jets of compressed air create a vacuum at the inlet (C) which draws in material and accelerates it through the unit and out at (D) conveying the material over a great vertical or horizontal distance.



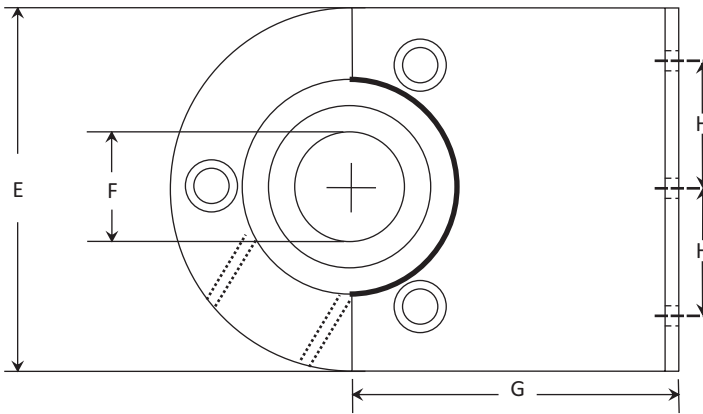
## DIMENSIONS - NOTES ON PART NUMBERS:

T- threaded

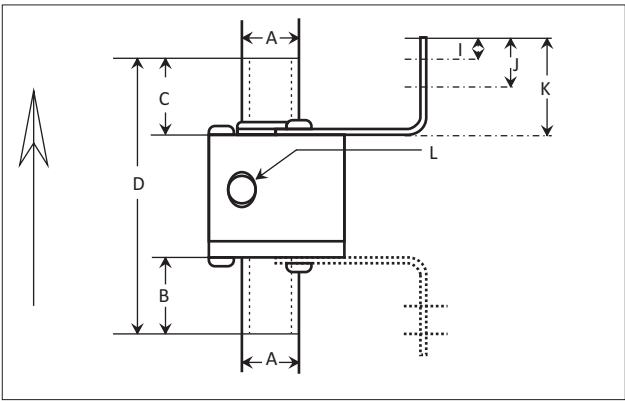
Dimensions in inches and (mm)

| PART NUMBER<br>(aluminum & stainless) | A<br>IN<br>(MM) | B<br>IN<br>(MM) | C<br>IN<br>(MM) | D<br>IN<br>(MM)  | E<br>IN<br>(MM) | F<br>IN<br>(MM)  | G<br>IN<br>(MM) | H<br>IN<br>(MM) | I<br>IN<br>(MM) | J<br>IN<br>(MM) | K<br>IN<br>(MM) | L          |
|---------------------------------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|
| 30001X, 30001XT                       | 1.00"<br>(25.4) | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.24"<br>(56.8) | 0.75"<br>(19.0)  | 2.17"<br>(55.0) | 0.73"<br>(18.5) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 1/4<br>NPT |
| 30002X, 30002XT                       | 1.25"<br>(31.8) | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.49"<br>(63.2) | 1.00"<br>(25.4)  | 2.21"<br>(56.3) | 0.73"<br>(18.5) | 0.39"<br>(10.0) | 1.77"<br>(45.0) | 2.17"<br>(55.0) | 1/4<br>NPT |
| 30003X, 30003XT                       | 1.50"<br>(38.1) | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 2.75"<br>(69.9) | 1.125"<br>(28.6) | 2.15"<br>(54.5) | 0.89"<br>(22.5) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 3/8<br>NPT |
| 30004X, 30004XT                       | 2.00"<br>(50.8) | 1.38"<br>(35.1) | 1.50"<br>(38.1) | 4.88"<br>(124.0) | 3.21"<br>(81.6) | 1.75"<br>(44.5)  | 2.39"<br>(60.7) | 1.18"<br>(30.0) | 0.39"<br>(10.0) | 1.58"<br>(40.0) | 1.97"<br>(50.0) | 3/8<br>NPT |

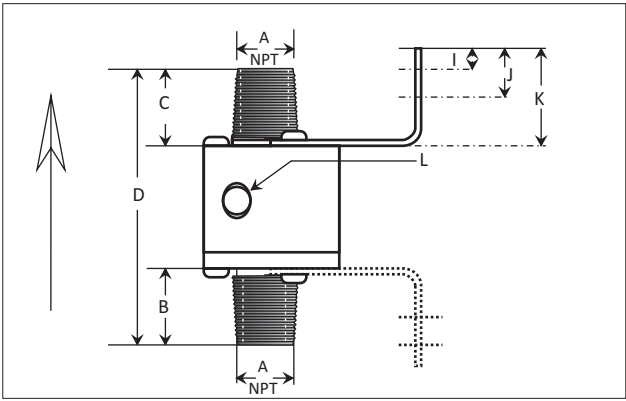
Top View



Series 30001X - 30004X



Series 30001XT - 30004XT Threaded

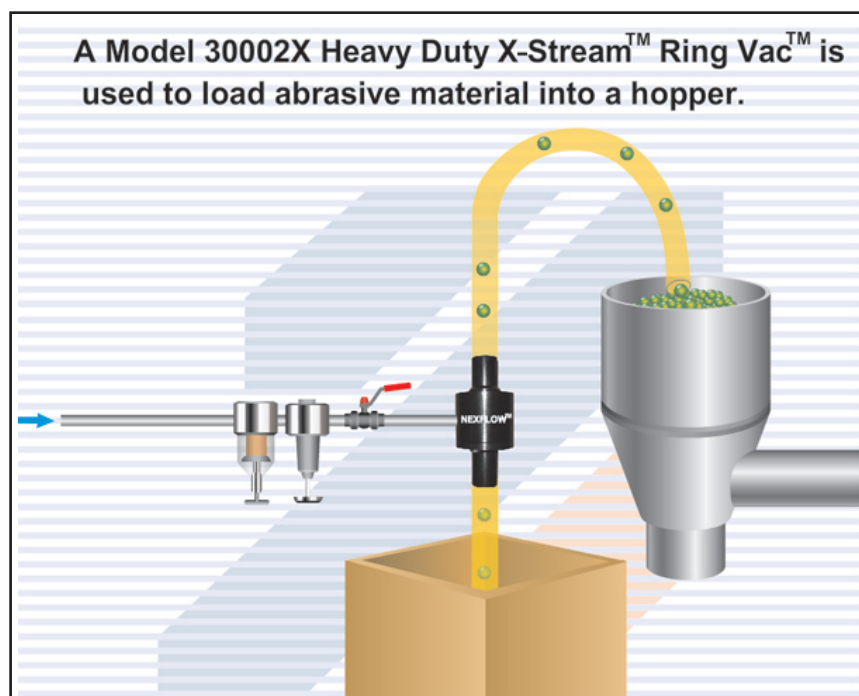


## HEAVY DUTY X-STREAM™ RING VAC™ PNEUMATIC CONVEYING SYSTEM PERFORMANCE:

| MODEL           | SIZE OUTSIDE DIAMETER<br>INCHES (MM) | AIR CONSUMPTION SCFM AT 80<br>PSIG (SLPM AT 5.5 BAR) | VACUUM<br>INCHES H2O (KPA) |
|-----------------|--------------------------------------|------------------------------------------------------|----------------------------|
| 30001X, 30001XT | 1" (25mm)                            | 21 (595)                                             | -60 (-15)                  |
| 30002X, 30002XT | 1 1/4" (32mm)                        | 33 (934)                                             | -55 (-14)                  |
| 30003X, 30003XT | 1-1/2" (38mm)                        | 44 (1245)                                            | -50 (-13)                  |
| 30004X, 30004XT | 2" (51mm)                            | 58 (1642)                                            | -36 (-9)                   |

## HEAVY DUTY X-STREAM™ RING VAC™ IN-LINE CONVEYERS

| PART NO. | DESCRIPTION                                                                  |
|----------|------------------------------------------------------------------------------|
| 30001X   | 1" X-Stream™ Ring Vac™ Only                                                  |
| 30002X   | 1-1/4" Aluminum Ring Vac™ Only                                               |
| 30003X   | 1-1/2" Aluminum Ring Vac™ Only                                               |
| 30004X   | 2" Aluminum Ring Vac™ Only                                                   |
| 31001X   | 1" Aluminum Ring Vac™ plus Filter with Auto Drain                            |
| 31002X   | 1-1/4" Aluminum Ring Vac™ plus Filter with Auto Drain                        |
| 31003X   | 1-1/2" Aluminum Ring Vac™ plus Filter with Auto Drain                        |
| 31004X   | 2" Aluminum Ring Vac™ plus Filter with Auto Drain                            |
| 32001X   | 1" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |
| 32002X   | 1-1/4" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge |
| 32003X   | 1-1/2" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge |
| 32004X   | 2" Aluminum Ring Vac™ plus Filter with Auto Drain & Regulator with Gauge     |



## X-STREAM™ SUPREME PNEUMATIC AIR OPERATED CONVEYOR – (XSPC)

NON-CLOGGING Powerful Air Operated Conveyor to convey solid materials, waste, trip small parts with no moving parts – straight through design prevents clogging

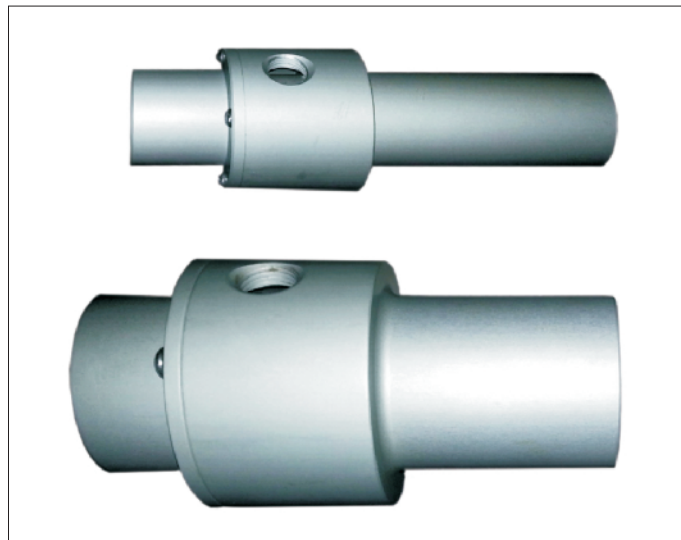
### WHAT ARE THEY - REASONS TO USE

The X-STREAM™ SUPREME PNEUMATIC AIR OPERATED CONVEYOR, or XSPC is a pneumatic conveying system based on Ring Vac™ technology but design is such that the flow of material is “straight through” preventing the clogging of materials which may be subject to this in traditional venture systems. Designed for optimum air consumption efficiency but powerful conveying action. Material is hard anodized aluminum. Stainless steel can be provided n special order. Simply clamp a standard hose size to the end of the XSPC to operate this high energy conveying system. No moving parts for maintenance free operation with capacity and flow controlled with a pressure regulator. Sizes are based on internal dimensions: 1” (25mm), 1.25” (31.5 mm), 1.5” (38 mm) and 2” (50 mm) Inside diameters. Special versions can be produced for your applications.

Cleaning of the units is easy as they can be dismantled like the Ring Vac's, cleaned and re-assembled.

### APPLICATIONS:

- electrical and electronic components
- springs
- packaged goods
- paper and plastic strips
- textiles
- chip removal
- wood chips

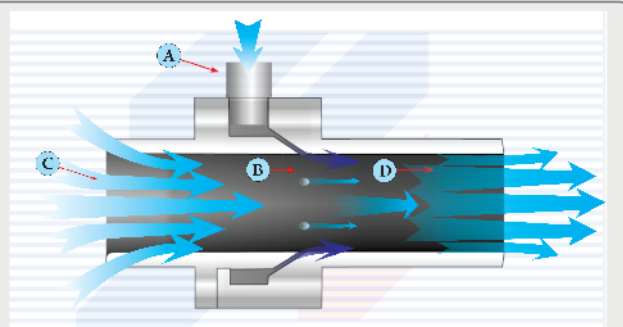


### XSPC FEATURES

- Made of hard anodized aluminum with no moving parts.
- Standard Sizes to fit standard hose diameter for easy clamping. Special sizes can be manufactured if required.
- Using a pressure regulator will control the flow of material.
- Instant on/off with no moving parts, no electricity or explosion hazard.
- Can be taken apart and cleaned easily.
- Special versions and materials can be made.

### XSPC – HOW IT WORKS:

The X-stream™ Supreme Pneumatic Conveyor (XSPC) – Compressed air enters at point (A) into an annular chamber and injected into the throat of the unit from the inside wall of the unit through directed nozzles (B). The inside is “straight through” design to prevent any clogging of conveyed material. These jets of compressed air create a vacuum at the inlet (C) which draws in material and accelerates it through the unit and out at (D) conveying the material over a great vertical or horizontal distance.

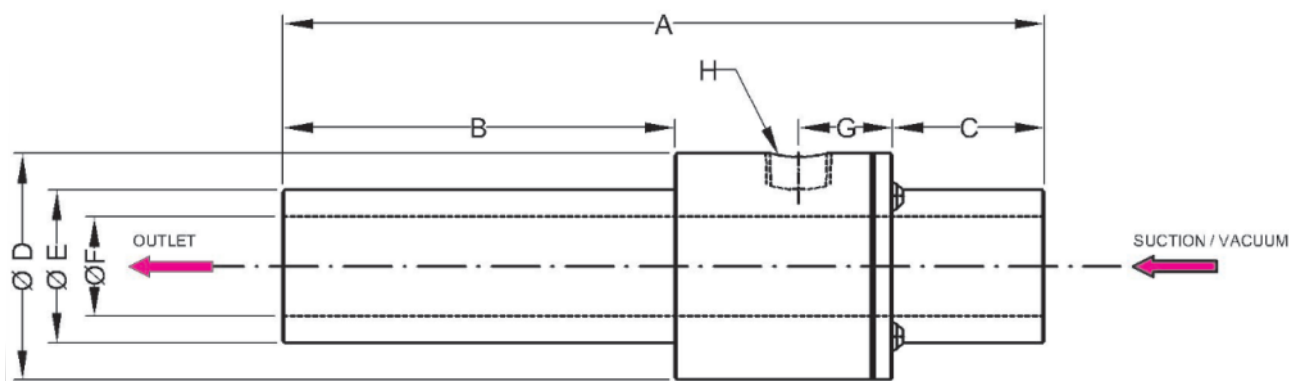


### X-STREAM™ SUPREME PNEUMATIC AIR OPERATED CONVEYOR( XSPC) PERFORMANCE

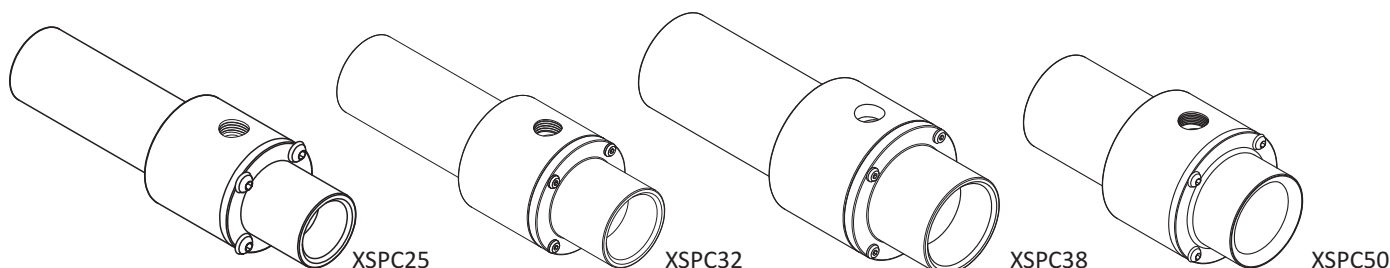
| Model  | Inside Diameter | Outside Diameter | Ai Consumption at 80 PSIG | VACUUM                              |
|--------|-----------------|------------------|---------------------------|-------------------------------------|
| XSPC25 | 1” (25 mm)      | 1.5” (38.1 mm)   | 46 SCFM (1302 SLPM)       | 84 inchesH <sub>2</sub> O (21 KPA)  |
| XSPC32 | 1.25” (32 mm)   | 1.75” (44 mm)    | 47 SCFM (1331 SLPM)       | 61 inchesH <sub>2</sub> O (16 KPA)  |
| XSPC38 | 1.5” (38 mm)    | 2” (50 mm)       | 48 SCFM (1359 SLPM)       | 34 inchesH <sub>2</sub> O (8.5 KPA) |
| XSPC50 | 2.0” (50 mm)    | 2.5” (64 mm)     | 50 SCFM (1416 SLPM)       | 21 inchesH <sub>2</sub> O (5.3 KPA) |

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**XSPC DIMENSION TABLE**


| PART NUMBER | A<br>IN<br>(MM)  | B<br>IN<br>(MM)  | C<br>IN<br>(MM)  | D<br>IN<br>(MM)  | E<br>IN<br>(MM)  | F<br>IN<br>(MM)  | G<br>IN<br>(MM)  | H<br>THREAD |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|
| XSPC25      | 7.5"<br>(196.60) | 3.86"<br>(98.10) | 1.50"<br>(38.10) | 2.22"<br>(56.50) | 1.50"<br>(38.10) | 0.98"<br>(25.0)  | 0.93"<br>(23.50) | 3/8"<br>NPT |
| XSPC32      | 7.5"<br>(196.60) | 3.8 "<br>(96.60) | 1.50"<br>(38.10) | 2.50"<br>(63.30) | 1.70"<br>(44.00) | 1.25"<br>(31.50) | 0.93"<br>(23.50) | 3/8"<br>NPT |
| XSPC38      | 7.5"<br>(196.60) | 3.8 "<br>(96.60) | 1.50"<br>(38.10) | 2.80"<br>(69.50) | 1.90"<br>(50.00) | 1.50"<br>(38.10) | 0.93"<br>(23.50) | 3/8"<br>NPT |
| XSPC50      | 7.2"<br>(182.60) | 3.25"<br>(82.50) | 1.40"<br>(35.60) | 3.54"<br>(90.00) | 2.52"<br>(64.00) | 1.97"<br>(50.00) | 1.14"<br>(29.00) | 3/8"<br>NPT |


**X-STREAM™ SUPREME PNEUMATIC AIR OPERATED CONVEYORS( XSPC's)**

| PART NO.  | DESCRIPTION                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------|
| XSPC25    | Powerful, Non-Clogging Pneumatic Conveyor Only                                                |
| XSPC32    | Powerful, Non-Clogging Pneumatic Conveyor Only                                                |
| XSPC25    | Powerful, Non-Clogging Pneumatic Conveyor Only                                                |
| XSPC32    | Powerful, Non-Clogging Pneumatic Conveyor Only                                                |
| XSPC25 -1 | Powerful, Non-Clogging Pneumatic Conveyor Only plus Filter with Auto Drain                    |
| XSPC32 -1 | Powerful, Non-Clogging Pneumatic Conveyor Only plus Filter with Auto Drain                    |
| XSPC25 -1 | Powerful, Non-Clogging Pneumatic Conveyor Only plus Filter with Auto Drain                    |
| XSPC32 -1 | Powerful, Non-Clogging Pneumatic Conveyor Only plus Filter with Auto Drain                    |
| XSPC25 -2 | Powerful, Non-Clogging Pneumatic Conveyor Only + Filter with Auto Drain + Regulator with Gage |
| XSPC32 -2 | Powerful, Non-Clogging Pneumatic Conveyor Only + Filter with Auto Drain + Regulator with Gage |
| XSPC25 -2 | Powerful, Non-Clogging Pneumatic Conveyor Only + Filter with Auto Drain + Regulator with Gage |
| XSPC32 -2 | Powerful, Non-Clogging Pneumatic Conveyor Only + Filter with Auto Drain + Regulator with Gage |