

Manufacturer / Distributor of Products for Industry

GAGNE, INC.
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GAGNE, INC. __

Boots, Bellows, Waycovers, Air Bladders, Liquid Reservoirs, Flexible Connectors

For over 45 years, GAGNE, Inc. has developed, manufactured, and marketed a line of high quality, low cost, dependable products for the engineering and industrial field by incorporating their unique manufacturing processes.

Among the list are Bellows, Boots, Waycovers, Air Bladders and Liquid Reservoirs. These high quality GAGNE products are tough, durable, and will experience a very high cycle life.

GAGNE, Inc. uses two different manufacturing methods for their bellows. The original Heat Sealed method completely seals out moisture and dust. These bellows are constructed of a specially formulated high quality polyurethane known for its flexibility, abrasion and tear resistance, and very long cycle life. (See material specification data comparison chart). Generally speaking, these are

Recently added to the GAGNE line are sewn Bellows. This manufacturing process allows for the use of several different materials whose characteristics may be better suited for your particular application. Some examples of this are high heat resistance, applications where acid content is high, or where other agents may be present requiring special resistance characteristics. This process will also allow for the use of thicker materials for heavier duty applications.

You can be sure of the very highest quality from GAGNE whichever material and manufacturing process is chosen. All of these products are completely made in the U.S.A.

Bellows are used in a wide range of varied applications wherever the need to exclude dust, dirt, moisture, chips and other environmental contaminants exist. Bellows are used to protect machine operators from pinch points and other dangers from moving parts. They are also used extensively for aesthetic purposes, covering moving and stationary components.

Typical applications for GAGNE bellows would include: Cylinder Rods, Linear Ways, Expansion Joints, Traverse Screws, Guide Rods, Air Bladders and Liquid Reservoirs.

Please call our Application Department to discuss the particulars of your application. We will recommend the material and manufacturing process that will offer the greatest resistance, the longest cycle life, and the most economical cost for your needs.

Polyurethane is arrexcellent material to applications and FW Food Standards.



. supplied for nominal costs. We custom manufacture to your specifications.

Heat Sealed Bellows

These are completely sealed using RF welding. They can be made in round, square, rectangular, or special shapes to accommodate the requirements of your applications. The materials available in this method are PVC and Polyurethane in a variety of material thickness ranging from .005 to .040 thick. These materials are especially noted for their resistance to ozone, UV light, and are extremely flexible and light in weight.

Tab Corner Sealed Bellows

GAGNE has developed and perfected its unique Tab Corner Sealed Bellow. This is especially useful on long, vertical applications. The design allows for the more even distribution of convolution expansion where standard round bellows become hyperextended (contorted).

Options

- Foam Breather Vents
- Screen Breather Vents
- Eyelet Grommets
- Ball Screw Guides Nylon, Metal or Plastic
- Stiffeners Nylon, Metal or Plastic
- Vinyl Valves, Air Connectors
- Split Bellows
- Notched Bellows
- Flanges (other than OD Diameter)
- Tab Corner Sealed Bellows (see description)
- Special Inspection (Bagging, Tagging, etc.)
- Rubber '0' Rings/'Quad' Rings (sealed inside)
- Velcro/Seal Tabs for Joining Split Bellows
- Metal Flange Plates
- Hose Clamps Nylon or Metal
- Steel, Stainless, Aluminum, PVC Flange Plates





RF Sealed Bellow with Flange

Materials

Polyurethane: Comes in material thickness from .005 to .040. Temp. Range -60F to +225F.

Very resistant to oils, water, ozone, ultraviolet. Very high abrasion

Polyurethane Coated Nylon: Comes in material thickness of .022 in black. Has all the resistance characteristics of Polyurethane with added reinforcement of nylon for additional strength.

PVC: Comes in material thickness from .008 to .020. Temp. Range from +32 to +250F.

GAGNE, INC.

Air Bladders, Liquid Reservoirs & Specialty Items

GAGNE custom manufactures a wide variety of Air Bladders and Liquid Reservoirs. These would include scientific, industrial, and commercial applications. Because of the requirement that these be completely sealed, they are manufactured using the die cut and heat sealed process.

We also make special products using the Heat Sealed method. Send your drawings to our application department to begin application discussions. We will work closely with you from the design phase right through to manufacture and delivery.

Flange Plates

GAGNE will custom manufacture Flange Plates to your specification in a variety of material thickness in Aluminum, Steel, PVC and Stainless Steel. Contact our applications department for details.

Hose Clamps and Tie Straps

GAGNE stocks a wide range of Stainless Hose Clamps and Nylon Tie Straps. Our application engineers will assist you in selecting what method of attachment will best serve your application.





Quotation

drawing with all dimensional values directly drawing with all dimensional values directly to our applications department. We also have specification sheets on our website for online quote requests at www.gagneinc.com. Also, please feel free to contact us by phone if you are in need of any assistance.

Whichever style bellows you choose, you can be sure it will be of the highest American Made Quality. We look forward to serving your requirements.

Sewn Bellows

This line of bellows is ideal in the harshest environments where hot chips or a heavy accumulation of chips is present. By the nature of this sewn construction, these bellows are not air/liquid tight. They do have an excellent open to closed ratio. The GAGNE Sewn Bellows are ideal for bedway or waycovers as well as circular rod or

These are die cut and sewn using Neoprene coated Nylon, Hypalon coated Nylon, Aluminum coated Nomex, Aluminum coated Fiberglass, Teflon coated Fiberglass and Silicone impregnated Fiberglass, (see materials chart)

Options

- Evelet Grommets, Screen Vents
- Ball Screw Guides Nylon, Metal or Plastic
- Stiffeners Nylon, Metal or Plastic
- Vinyl Valves, Air Connectors
- Split Bellows
- Notched Bellows
- Flanges (other than OD Diameter)
- Special Inspection (Bagging, Tagging, etc.)
- Velcro/Seal Tabs for Joining Split Bellows
- Steel, Stainless, Aluminum, PVC Flange Plates
- Hose Clamps Nylon or Metal
- Zippers

Benefits of Gagne Bellows

- Prompt Quote Turnaround
- Knowledgeable Application Assistance
- No Minimum Order Quantities
- · Made to Your Specification
- Extensive In-House Tooling
- · Only the Highest Quality Materials Used
- Increases Life of Rods and Ways
- Increases Performance and Life of Lead Screws
- •Their Use Helps Prevent Expensive Down Time
- · Many Options and Accessories (see chart)
- Very High Quality Customer Service • Economical
- Made in the U.S.A.



Materials

Neoprene Coated Nylon: Temp. Range -60F to +250F.

Hypalon Coated Nylon: Temp. Range -60F to +300F.

Aluminum Coated Fiberglass: Temp. Range -10 0F to +550F

Teflon Coated Fiberglass: Temp. Range -100F to +500F.

Sewn Neoprene Bellow

xtended Sewn Bellow

Silicone Coated Fiberglass: Temp. Range -65F to +500F. Comes in material thickness of .010 in white. High abrasion resistance and tensile strenath.

GAGNE, INC.

Round Bellows

Specification Sheet

Bellows Material

■ Neoprene Coated Nylon Black ____.018 ____.022 ____.040 ■ Hypalon Coated Nylon Black ■ Aluminum Coated Fiberglass ■ Teflon Coated Fiberglass ■ Silicone Impregnated Fiberglass ___.010 ____.018 ■ **PVC** Translucent ■ Polyurethane Translucent ___.005 ____.010 ■ Polyurethane Black ____.010 ____.010 (High Temp) ____.015 ____.020 ____.040 ____ .022 (Poly Coated Nylon) ■ Polyurethane Red

RF Sealed





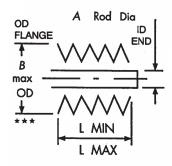


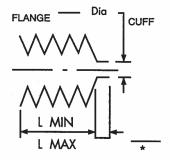


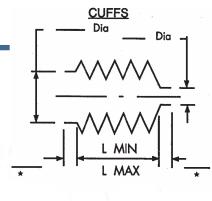
Sewn











Operating Conditions:

Check applicable

___ Dust

___ Dirt

Oil What kind

.022 (High Temp)

Wate

___ Ceramic Dust or Powder

_ Chemicals What kind ____

__ Bellows must be completely air or moisture tight

___ Venting is possible

___ # of strokes/minute

___ Possible mechanical abuse

Operating temp. limits:

___ Max. ___ Min.

Please list any special conditions:

Qty.(s) of Bellows:

Dimensional Data:

A. Rod Dia.

LD

B. Max.* OD _____

Length Open _

Length Closed_

*For lowest cost, specify largest possible O.D.

Please specify cuff or flange information directly on diagrams.

Application:

Horizontal _____

Vertical_____

Smooth Rod_____

Threaded Rod _____

Specify Popular Options:

Zipper _____

Breather Vents _____

Ball Screw Guide _____

Hose Clamps ______
Stiffeners ____

Flange Plates _____

Other____

Online Spec Sheet

www.gagneinc.com/bellows/online-spec-sheet/

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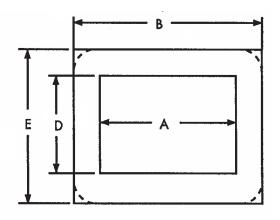
Rectangular Bellows Specification Sheet

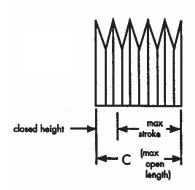
Bellows Material

.018	022	.040	
Hypalon Co	oated Nylo	n Black	
022	•		
■ Aluminum 020	Coated Fib	erglass	
■ Teflon Coat 020	ted Fibergl	ass	
Silicone Im	pregnated	Fiberglass	
010	.018		
PVC Translu	cent		
008	012	016 _	.020
Polyuretha	ne Transluc	ent	
005	010	020 (Hig	gh Temp)
Polyuretha	ne Black		
010	010 (Hi	gh Temp)	
015	020	.040	
022 (Po	ly Coated N	vlon)	









Operating Conditions:

___ Max. ___ Min.

Please list any special conditions:

Check applicable ___ Dust Dirt Oil What kind ___ Water ___ Ceramic Dust or Powder Chemicals What kind __ Bellows must be completely air or moisture tight ___ Venting is possible # of strokes/minute Possible mechanical abuse Operating temp. limits:

Qty.(s) of Bellows:

Dimensional Data:

Stroke **Closed Height**

Application: Horizontal ____

Vertical__ Smooth Rod__ Threaded Rod **Specify Popular Options:** Zipper ____ Breather Vents _____ Ball Screw Guide _____ Hose Clamps _____ Stiffeners _____ Flange Plates _____

Online Spec Sheet

www.gagneinc.com/bellows/online-spec-sheet/

GAGNE, INC.

Waycovers Specification Sheet

Dust	
Dirt	
Water	
Ceramic Dust or Powde	r
Chemicals What kind	
Operating temp. limits: Max Min.	
Max Min.	
Max Min.	
Operating temp. limits: Max Min. Please list any special cond	
Max Min.	
MaxMin. Please list any special cond	

Specify Popular Options:

Vertical

Other

Smooth Rod_ Threaded Rod _

Zipper ___ Breather Vents _____ Ball Screw Guide _____ Hose Clamps ____ Stiffeners Flange Plates _____



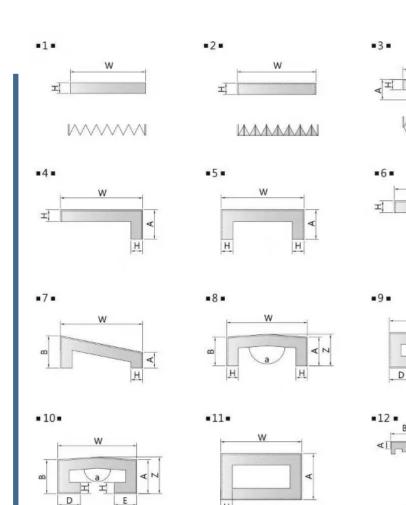








Further customization available. Built to Specification. Engineering fees may apply if Gagne has to re-engineer, design and draw



GAGNE, INC.

GAGNE INC. Push-Pull Rod-End Coupling with free aligning action

for Air Cylinders, Hydraulic Cylinders and Similar Applications



Costs and Downtime

Minimizes Rod Binding,

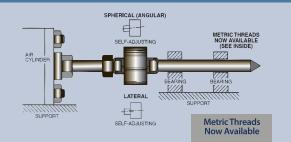
Deflections

Automatically Adjusts to Four-In-Line Supports

Tested, Low-Cost, Off-the-Shelf Hardware

Standard Sizes to 39,000 lbs. Capacity

Minimizes Rust



Function

Where air or hydraulic cylinders are designed to drive a machine slide, this question should always be asked: If the machine deflects under load, or the installation or maintenance mechanic does a less than perfect job of alignment, what will

The answer is usually "Nothing" for clevis or trunion mounted cylinders. But where space, mounting requirements or length of stroke rule out the clevis type mount, then trouble can develop, Installation inaccuracy, subsequent wear of slide bearings, or deflection under gravity and operating loads can throw a heavy side load on the cylinder rod as it passes through the gland. Results are likely to be:

- Binding of rod, with jerky action or stalling under load
 Excessive wear of gland, causing leaks
- Excessive downtime

The Gagne Rod-End Coupling is designed to correct this problem at the source by transmitting the push-pull cylinder force but relieving all side forces (under usual conditions). Lateral Displacement: The Coupling is designed to accept up to 1/32 inch error in the smaller sizes, more in the larger sizes. Angular Displacement: The Coupling will operate freely even though misaligned as much as 1 degree.

Costs

Many designers recognize this 4-bearing problem during design and provide their own special automatic adjusting device. But costs of the "homemade" product will include some or all of these factors.

- Costs eliminated by purchased couplings:
- Design and detailing time
- High shop costs for a custom machined device
 Excessive debugging and maintenance if the new design
- has been less than perfect Reduces downtime

Thrust Capacity

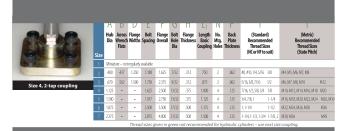
All parts in Gagne couplings are steel, and the couplings will accept in "push" the full shear strength of the cylinder rod thread. The "pull" strength of the Type "A" Flange Coupling is determined by other components, such as the mounting bolts or the cylinder rod thread (normally this is many times the force which the fluid can exert on the piston). The "pull" strength of the Type "B" and "C" Couplings is determined by the shear strength of the heavy-duty snap ring, which is listed in the chart at right.

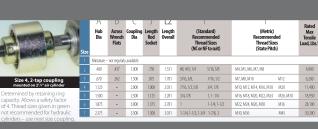
Thread sizes are regularly offered to fit all standard air and hydraulic cylinders within the range of ordinary use. Larger sizes or special borings will be quoted on request, including

STYLE"A"

STYLE"B"

STYLE"C"







GAGNE, INC.

Lift Skirts

Specification Sheet

Quote	for	how	many	units?	(Required)
Skirtir	ng T	ype (Require	ed)	

- Lift Skirting
- Tilt Skirting

Number of sides? (Required)

***If requesting custom number of sides please call (800) 800-5954

- 1
- 3

Yellow

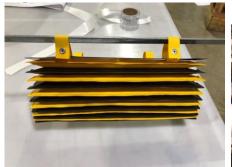
Custom Colors

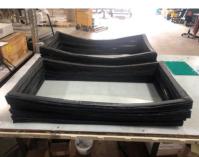
***Increased Cost

Table Mounting

Top Collar Bottom Collar If your lift is pit mounted does it have a beveled toe guard? A A B В Yes No Options Fold Width Stiffening Wires (Required) Vents (Required) 3.0" (most economical) Yes 2.5" No 1.5" Upper Mounting Hardware (Required) Lower Mounting Hardware (Required) Extras Steel Flatbar Steel Flatbar Choose that all apply Aluminum Flatbar Aluminum Flatbar None Weighted Rod Velcro Top None Velcro Bottom Colors Velcro Corner Separation (for skirting needing wraparound installation) Standard Colors Flame Retardant Skirting Yellow & Black

Further customization available. Built to Specification. Engineering fees may apply if Gagne has to re-engineer, design and draw









Online Spec Sheet www.gagneinc.com/lift-skirts/

GAGNE, INC.

GAGNE, INC. Duct Covers

Industries Served:

- HVAC
- Mining
- Shipbuilding
- Aerospace
- · Furniture manufacturing
- Municipal engineering
- Airport boarding bridges
- Laboratory and underground engineering
- Fire and smoke







Option - Flexible ducts with bag - one-piece construction, convenient for storage after use







Option - Buckle connectors, Hose Clamps or Duct Connector Ring



Option - Velcro and zipper cuffs are available





Option - Variable branch design





Option - Various materials - Example, PVC tube w/ reinforced hose

Project Example

- High Temp Silicon Fiberglas
- · Cuffs with buckles for easy tightening
- Interior buckle to cinch down Duct for Storage
- Brand sewn into straps for theft control





GAGNE, INC.

GRGNE, INC. Also Available from Gagne

Wire & Chain Track



Custom Machine Covers



GAGNE, INC.