

Manufacturer / Distributor of Products for Industry

GAGNE, INC.

GAGNE, INC. ___

Boots, Bellows, Way covers, Air Bladders, Liquid Reservoirs, Flexible Connectors

For over 65 years, **GRGNE INC** has engineered, manufactured and marketed a line of high quality, dependable protective cover products for the engineering and industrial field by incorporating our unique manufacturing process.

Amongst the list are bellows, boots, way covers, air bladders and liquid reservoirs. The high quality **GAGNE** products are tough and experience a high cycle life.

GAGNE employs two different manufacturing methods for our bellows.

The original Heat Sealed method completely seals out moisture and dust. The bellows are constructed of specially formulated high quality polyurethane known for its flexibility, abrasion and tear resistance and long cycle life.

Our second line of bellows is our sewn covers. This manufacturing process allows for the use of various materials who characteristics may be better suited for a particular application. Some examples are high heat resistance, high acid content, or where agents may be present requiring special resistance characteristics. The sewing process also allows for the use of thicker materials for heavier duty applications.

You can be sure of the very highest quality from **CAGNE** whichever material and manufacturing process is chosen. All of these products are made in the USA and sourced from American vendors.

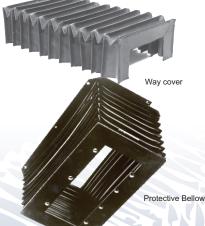
Bellows are used in varied applications when there is a need to exclude dust, dirt, moisture, chips and other environmental contaminants. Bellows are used to protect machine operators from pinch points and moving parts. Bellows are also used for aesthetic purposes, covering moving and stationary components.

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

Please our Sales Engineers to discuss the details of your application. We will recommend the appropriate material and manufacturing process that will offer the best solution - highest quality, longest life cycle, at the most economical price.

applications and FDA Food Standards.

Protective Bellow



Thousands of ID and OD

combinations in round, square and rectangular shapes can be made using standard **GRGRE** tooling. Non-standard sizes and shapes can be supplies for nominal costs. We custom manufacture to your specifications.

Polyurethane is an excellent material for clean room

Vinvl Bellow

Heat Sealed Bellows

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

Tab Corner Sealed Bellows

GRGNE developed and perfected its unique Tab Corner Sealed Bellow. This is especially useful on long vertical applications. The design allows for the even distribution of convolution expansion where standard round bellows become hyper-extended and contorted.



RF Sealed Bellow with Flange

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 'O' Rings / 'Quad' Rings (sealed inside)
- Velcro/Seal Tabs for Joining Splits Bellows
- Metal Flange Plates
- Hose Clamps Nylon or Metal
- Steel, Stainless, Aluminum, PVC Flange Plates
- Zippers



Materials

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

Very resistant to oils, water, ozone, ultraviolet. Very high abrasion resistance and high tensile strength.

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

VC:

Come in material thicness from .008 to .020 Temperature range from +32 to +250F Better resistance to acid.

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Air Bladders, Liquid Reservoirs & Specialty Items

GAGNE manufactures a wide variety of Air Bladders and Liquid Reservoirs. These include scientific, industrial, and commercial applications. Because of the requirements 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 sales engineers to begin application discussions. We will work closely with you from the design phase through to manufacture and delivery.

Flange Plates

GAGNE will manufacture Flange Plates to your specification in a variety of material thicknesses in aluminum, steel, PVC, and stainless steel. Contact our sales engineers for details.

Hose Clamps and Tie Straps

GAGNE stocks a wide variety of stainless steel hose clamps and nylon tie straps. Our sale engineers will assist you in selecting what method of attachment will best serve your



Sewn Bellows

The **GAGNE** sewn line of bellows is ideal in the harshest environments where hot chips, dust, or other damaging materials may be present. By the nature of this sewn construction, these bellows are not air/liquid tight. They have an excellent open to close ratio. The GAGNE sewn bellows are ideal for bedway or way covers 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.

Options

- Eyelet 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 Nvlon 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
- ■Highest quality materials used
- ■Increases life of rods and ways
- Increases performance and life of lead screws
- ■Helps prevent expensive down time
- Many options and accessories
- ■Very high quality customer service
- ■Made in USA

■Economical

Materials

- Neoprene Coated Nylon: Temp range -60F to +250F Resistance to oil and water
- Hypalon Coated Nylon: Temp range -60F to +300F Resistance to wide range of chemicals

Aluminum Coated Fiberglass: Temp range -10F to +550F

Sewn White Urethane Bellow

Sewn Neoprene Bellow

Resistance to very high temp. applications (weld splatter/ hot chips, etc)

Teflon Coated Fiberglass: Temp range -100F to +500F ■ Used in applications where specific chemical attacked makes other materials unsuitable

Silicon Impregnated Fiberglass: Temp range -65F to +500F Comes in material thickness of .010 in white. High abrasion`

and tensile strength

GAGNE, INC.

41 Commercial Drive Johnson City, NY 13790 800.800.5954 toll free * 607.729.7644 fax www.gagneinc.com sales@gagneinc.com

Quotation

To get a quotation, please email the appropriate specification sheet and send drawing with all dimensional values directly to our sales engineering department. We also have specification on our website for online quote requests at

Also, please feel free to contact us by phone if you are in need of assistance.

Whichever style bellows you choose, you can be sure it will be of the highest American made quality. We look forward to discussing your

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Round Bellows

Specification Sheet

Bellows Material

- Neoprene Coated Nylon (Black): ____.018 ____.022 ____.040
- Hypalon Coated Nylon (Black):
- Alumnum Coated Fiberglass:
- Teflon Coated Fiberglass: ____.020
- Silicone Impregnated Fiberglass:
- .010
- PVC (Translucent) .016 ___.008 ____.012
- Polyurethane (Translucent)
- ___.005 ____.010 ____ .020 (High Temp)
- Polyurethane (Black)
- ____ .010 ____ .010 (High Temp) ____.015 ____.020 ____.040
- .022 (Poly Coated Nylon)

RF Sealed





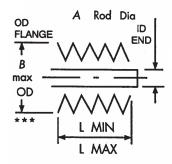


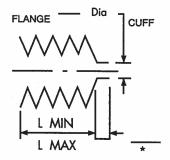


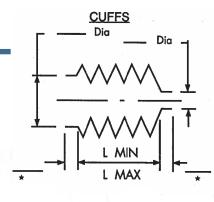












Operating Conditions: check available

- ___ Dust
- ___Dirt
- Oil what kind
- ___ Water
- ___Ceramic Dust or Powder
- Chemicals what kind
- Bellows must be completely air or moisture tight
- ___Venting is possible
- ___# Strokes per minute
- —Possible mechanical abuse
- **Operating Temp. Limits:**
- ____Max. ___ Min.
- Please list any special conditions:

Qty. (s) of Bellows:

- **Dimensional Data:**
- A. Rod Dia.
- 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

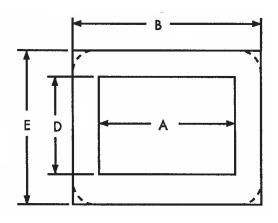
Bellows Material

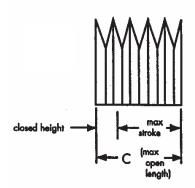
■ Neoprene (018	022	` ,	
Hypalon Co	oated Nylo	on (Black):	
Alumnum (020	Coated Fib	erglass:	
Teflon Coa	ted Fiberg	lass:	
Silicone Im	pregnated	l Fiberglass:	
■ PVC (Trans	.012	.01602	С
Polyuretha	•	ucent) 020 (High Tem	p
Polyuretha010015	010 (Hi	gh Temp)	











Operating Conditions: check available

___ Dust ___ Dirt

___Oil - what kind_

___ Water

___Ceramic Dust or Powder

_Chemicals - what kind_____

Bellows must be completely air or moisture tight

___Venting is possible

___# Strokes per minute

___Possible mechanical abuse

Operating Temp. Limits:

___Max. ___Min.

Please list any special conditions:

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_____

Other _____

Online Spec Sheet

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

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Waycovers
Specification Sheet

Review shape in models to the right and include dimensions (W, H, A, a, B, C, D, E, F, as applicable)

Operating Conditions: check available

___ Dust ___ Dirt

Oil - what kind

___ Water

___Ceramic Dust or Powder

Chemicals - what kind

___# Strokes per minute

___Possible mechanical abuse

Operating Temp. Limits:

____Max. ____Min.

Please list any special conditions:

Qty.(s) of Bellows:

Application

Horizontal.

Vertical

Smooth Rod _

Threaded Rod ___

Specify Popular Options:

Zipper _

Breather Vents _

Ball Screw Guide ____

Hose Clamps ____

Stiffeners.

Flange Plates___

Other



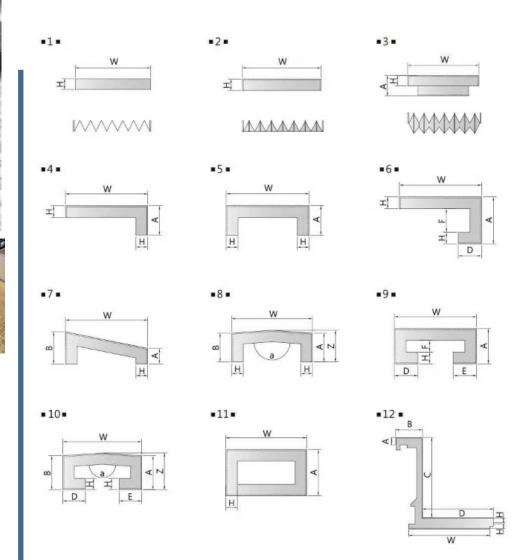








Further customization available. Built to Specification. Engineering fees may apply if Gagne has to re-engineer, design and draw



GAGNE, INC.

GAGNE, INC. Lift Skirts

Specification Sheet

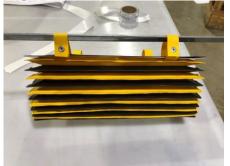
○ Yellow○ Black

Custom Colors

***Increased Cost

Quantity of Units: Skirting Type: Lift Skirting	561	
Tilt Skirting		50
Number of Sides: ***If requesting custom number of	of sides please call (800) 800-5954	
<u> </u>		
O 2		·
○ 3		1
O 4		
Table Mounting		
Top Collar A B	Bottom Collar A B	If your lift is pit mounted does it have a beveled toe guard ○ Yes ○ No
Options		
Fold Width	Stiffening Wires	Vents
○ 3.0" (most econominal	○ Yes	○ Yes
○ 2.5" ○ 2.0" ○ 1.5"	○ No	○ No
Upper Mounting Hardware	Lower Mounting Hardware	Extras:
Steel FlatbarAluminum FlatbarNone	Steel FlatbarAluminum FlatbarWeighted RodNone	Choose all that apply Velcro Top Velcro Bottom Maintenance Ties
		Velcro Corner Separation (for skirting needing wraparound installation
Standard Colors O Yellow & Black		Flame Retardant Skirting

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

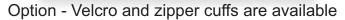






Option - Buckle connectors, Hose Clamps or Duct Connector Ring









Option - 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.

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

for Air Cylinders, Hydraulic Cylinders and Similar Applications



Reduces Maintenance Costs & Downtime

Minimizes Rod Binding, Jerking and Wear



Helps Compensate for Deflections

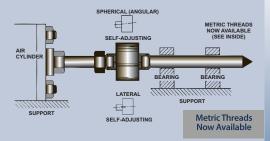
Automatically Adjusts to Four-In-Line Supports

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



Standard Sizes to 39,000 lbs. Capacity

Zinc Plate Surface Treatment Minimizes Rust



Function

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

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:

- 1. Binding of rod, with jerky action or stalling under load
- 2. Excessive wear of glad, causing leaks
- Excessive downtime

The Gagne Rod-End Coupling is designed to correct this problem at the source by transmitting the push-pull cylinder forces but relieving all side forces (under usual conditions). Lateral displacement: the coupling is designed to up accept 1/32 inch 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 "home-made" product will include some or all of these factors.

Costs eliminated by purchased couplings:

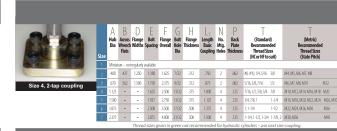
- Design and detailed time
 High shop costs for a custom machined device
- Excessive debugging and maintenance if the designed has bee less than perfect
- 4 Reduce downtime

Thrust Capacity

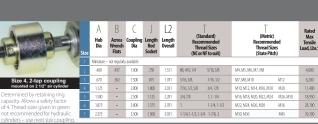
All parts in Gagne Rod-End Couplings are steel, and the couplings will accept in "push" the full shear strength of the cylinder rod thread. The "pull" strength of the Type "A" Flange Coupling is determined by other components, such as the mounting bolts or the cylinder rod thread (normally this is many 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 the 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 metric and stainless steel couplings.

STYLE "A"



STYLE "B"



STYLE "C"



GAGNE, INC.

GRGNE, INC. Also Available from Gagne

Wire & Chain Track



Custom Machine Covers



GAGNE, INC.