



EQUIPMENT

Small quantities. Big flexibility.

PERMANENT VACUUM BAGGING
SYSTEMS AND HARDWARE
DESIGNED FOR THE MANUFACTURING
OF ALL TYPES OF COMPOSITE PARTS
AND LAMINATES

corimatec

SOLUTIONS BEYOND BOUNDARIES

1 | VACUUM BAGGING HARDWARE

for autoclave, oven, and room temp processes

A – VACUUM HOSE

VH22 AUTOCLAVE/OVEN

- Max. Temps: 400°F/204°C
- 150 psi External to 100 psi Internal
- Aramid Fiber-reinforced
- Stainless Steel
- Available in two sizes: .38" ID x .75"OD & .50" ID x .85" OD
- Standard pricing includes straight 1/4" male NPT end fittings.
- 90° male NPT, female NPT, female 45° SAE and 37° JIC, 1/4" male BSPT, and 1/4" male BSPP optional.
- Customized end fittings available.



VH23 AUTOCLAVE/OVEN

VH23 and VH24 are stainless steel high-temp autoclave and oven hoses. There is no outer braiding that can fray.

The smooth, annular corrugations provide good flexibility while also preventing damage to the molds and vacuum bags.

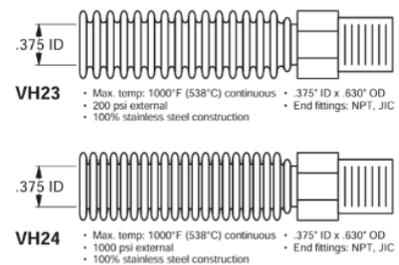
The VH24 has more corrugations per inch than the VH23 and is significantly more flexible.



VH24 AUTOCLAVE/OVEN

Available Ends Standard end, at no extra charge, is 1/4 male NPT. See chart below if you need assistance in determining what thread size you require.

The next most common end is a female 37° JIC swivel. It's available in 1/4", 3/8", and 1/2".



B – VACUUM PROBES

304114 STANDARD 1/4-TURN VACUUM PROBE (ROUND BASE)

Vacuum probe installs with a simple 1/4-turn. The machined aluminum top and base are made for nylon and other thin film bags. Consists of Male NPT Top with wrench flats, .125" thick Silicone Gasket and a Round Base with non-pinch design.

- 304114 - 1/4" MNPT, Dimensions: 2.38" dia x 1.65" tall
- 306228 - 3/8" MNPT, Dimensions: 2.38" dia x 1.67" tall
- 308228 - 1/2" MNPT, Dimensions: 2.38" dia x 1.82" tall



304124 STANDARD 1/4-TURN VACUUM PROBE WITH RECTANGLE BASE

Our standard 1/4-turn probe is available with Rectangular Base to allow installation after the vacuum bag is sealed. Cut a slot just wide enough for the narrow end of the base to slip into. Insert the base and rotate it so the slit aligns with the length of the base. Install the top as normal.

Consists of Male NPT Top with wrench flats, .125" thick Silicone Gasket and a Rectangular Base with non-pinch design.

304124 - 1/4" MNPT, Dimensions: 1.24" x 3.50" x 1.61" tall



304334 STANDARD 1/4-TURN VACUUM PROBE WITH FILTERED BASE

Our standard 1/4-turn probe is available with Filtered Base. The Filter will block a limited amount of resin and still maintain flow. We recommend applying a release coating to the probe base if resin contamination is anticipated.

Consists of Male NPT Top with wrench flats, .125" thick Silicone Gasket and a machined aluminum base with silicone o-ring, and resin filter.

304334 - 1/4" MNPT, Dimensions: 2.74" dia x 1.85" tall



324114 ALUMINUM "CINCH" PROBE

Installs like a typical 1/4-turn port but has a rotating cam. Due to the compound action of the cam this probe adapts to various material thicknesses and applies greater sealing pressure.

Consists of Male NPT Top with wrench flats, .125" thick Silicone Gasket and a Round Base with non-pinch design.

324114 - 1/4" MNPT, Dimensions: : 2.38" dia x 1.90" tall

326114 - 3/8" MNPT, Dimensions: : 2.38" dia x 1.92" tall

328228 - 1/2" MNPT, Dimensions: : 2.38" dia x 2.14" tall



B – VACUUM PROBES

334664 STAINLESS STEEL "CINCH" PROBE

Stainless steel version of our 324114 probe. Installs like a typical 1/4-turn port but has a rotating cam that adapts to various material thicknesses and applies greater sealing pressure due to the compound action of the cam.

Consists of Stainless Steel Male NPT Top with wrench flats, .125" thick Silicone Gasket and a Round Stainless Steel Base with non-pinch design.

334664 - 1/4" MNPT, *Dimensions: 2.38" dia x 1.90" tall*

336688 - 3/8" MNPT, *Dimensions: 2.38" dia x 1.98" tall*



33466Q-10 STAINLESS CINCH PROBE W/INSTALLED 1/4" SNAP-TITE ADAPTER

Separate the top portion of a 1/4" Snap-Tite quick-disconnect from the pipe thread adapter and, using the existing O-ring, screw it directly to the probe top adapter threads. The results are a low profile port with integral quick-disconnect and no pipe thread vacuum connection. Probe has our cam-action, high-pressure Cinch system.

Consists of Stainless Steel Male NPT Top with wrench flats, installed Snap-Tite adapter, .125" thick Silicone Gasket and a Round Stainless Steel Base with non-pinch design.

33466Q-10 - 1/4" MNPT, *Dimensions: 2.38" dia x 2.7" tall*



353444 4-PIECE HARD-ANODIZED ALUMINUM 1PROBE

This probe is sometimes referred to as a "3-piece" although there are actually 4 pieces. Our version accommodates quick-disconnects with a maximum hex size of 7/8" (such as Snap-Tite E series). Machined aluminum components are hard-anodized for long life. Washer has high-pressure bump for concentrated sealing force.

Consists of Male NPT Top with wrench flats, Washer (pressure plate), Knurled Nut, and .125" thick Silicone Gasket

353444 - 1/4" MNPT, *Dimensions: 2.74" dia x 1.85" tall*



364000 SMALL FOOTPRINT THREADED PROBE

Small footprint machined aluminum port for installing in elastomeric and plastic film vacuum bags.

Consists of 1.25" Hex Top with 1/4" Male NPT, Silicone Gasket* and a Round Threaded Base.

364000 - 1/4" MNPT, *.063" Gasket Dims: 1.50" dia x 1.14" tall*
 *.063" thick gasket for bagging materials .06" or thicker. (std)

364004 - 1/4" MNPT, *.093" Gasket Dims: 1.50" dia x 1.16" tall*
 *.093" thick gasket for bagging materials thinner than .06"



B – VACUUM PROBES

374000 THRU-TOOL PROBE

Stainless steel 1/4" male npt port for installing through molds and plates from .25" to 1.13" thick. Includes body, o-ring, washer, spring washer, & nut.

Dimensions: .55" diameter, 90° countersunk head, 2.50" long overall



377000 PORT COVER

Stainless steel cover that provides unrestricted flow yet covers exposed ports in plates, molds, and other fixtures, preventing debris from entering vacuum lines. Installs directly over holes as large as .58" diam. Attaches with 2 stainless steel drive screws (included). Unique design does not hinder flow.

Dimensions: 1.50" diameter x .184" high (not including domed drive screw heads)



UT-7486-2 THRU-TOOL PROBE

Unique domed aluminum port that meets the Boeing UT-7286-2 requirements. Wrench flats on head and 1/4" male npt stem. Includes stainless steel belleville washer and 5/8-11 jam nut.

Dimensions: 1.25" diameter x 1.88" long x .25" dome height



C— VACUUM GAUGES & MANIFOLDS

8990471

The 8990471 is an economical, dry vacuum gauge with a lightweight ABS plastic case. The dial reads in both inches of mercury and kilopascals. Accuracy is $\pm 2\%$ of span over middle half of scale and $\pm 3\%$ of span over first and last quarter of scale (3%/2%/3%, grade B).

- Size: 2.5"
- Range: 0-30"Hg / 0--100 kPa
- Accuracy: 3% / 2% / 3%, grade B
- Case: ABS plastic
- Connection: 1/4" male NPT



9767002

The 9767002 is a rugged glycerin-filled vacuum gauge with a stainless steel case. The glycerin helps dampen the effects of vibration and pulsation. It also lubricates the movement, extending the life of the gauge. A flipover valve on top allows you to equalize internal and external pressure for accurate pressure readings.

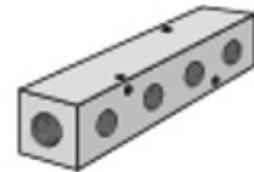
- Size: 2.5"
- Range: 0-30"Hg / 0--100 kPa
- Accuracy: 3% / 2% / 3%, grade B
- Case: Stainless
- Connection: 1/4" male NPT



MANIFOLDS

- Anodized aluminum
- 3/8" npt end ports, 1/4" npt side ports
- 1.5" between ports

- 4-PORT MM-210
- 6-PORT MM-320
- 8-PORT MM-420



D – QUICK DISCONNECTS

110514

- ISO 7241-B style, industrial interchange.
- Both plug and coupler internally valved for instant flow on connect, positive shut-off on disconnect.
- Heat-treated zinc dichromate-plated steel or stainless steel.
- Comes standard with Viton seals, 400°F continuous.
- Silicone seals available (-S), 400°F continuous.
- Available in 1/4", 3/8", and 1/2" female NPT

110514 Plug, 1/4" male NPT

110516 Plug, 3/8" male NPT

110518 Plug, 1/2" male NPT

118514 Plug, 1/4" male NPT, stainless

118516 Plug, 3/8" male NPT, stainless

118518 Plug, 1/2" male NPT, stainless



111514

- ISO 7241-B style, industrial interchange.
- Both plug and coupler internally valved for instant flow on connect, positive shut-off on disconnect.
- Heat-treated zinc dichromate-plated steel or stainless steel.
- Comes standard with Viton seals, 400°F continuous.
- Silicone seals available (-S), 400°F continuous.
- Available in 1/4", 3/8", and 1/2" female NPT

111514 Coupler, 1/4" male NPT

111516 Coupler, 3/8" male NPT

111518 Coupler, 1/2" male NPT

119514 Coupler, 1/4" male NPT, stainless

119516 Coupler, 3/8" male NPT, stainless

119518 Coupler, 1/2" male NPT, stainless



E — PIPE NIPPLES, NPT

PIPE NIPPLES

23325x2	1/8" x 1/8"
23325x4x2	1/4" x 1/8"
E23325x4	1/4" x 1/4"(short)
23325x4	1/4" x 1/4"
23325x6x4	3/8" x 1/4"
E23325x6	3/8" x 3/8"(short)
23325x6	3/8" x 3/8"
23325x8x4	1/2" x 1/4"
23325x8x6	1/2" x 3/8"
23325X8	1/2" x 1/2"

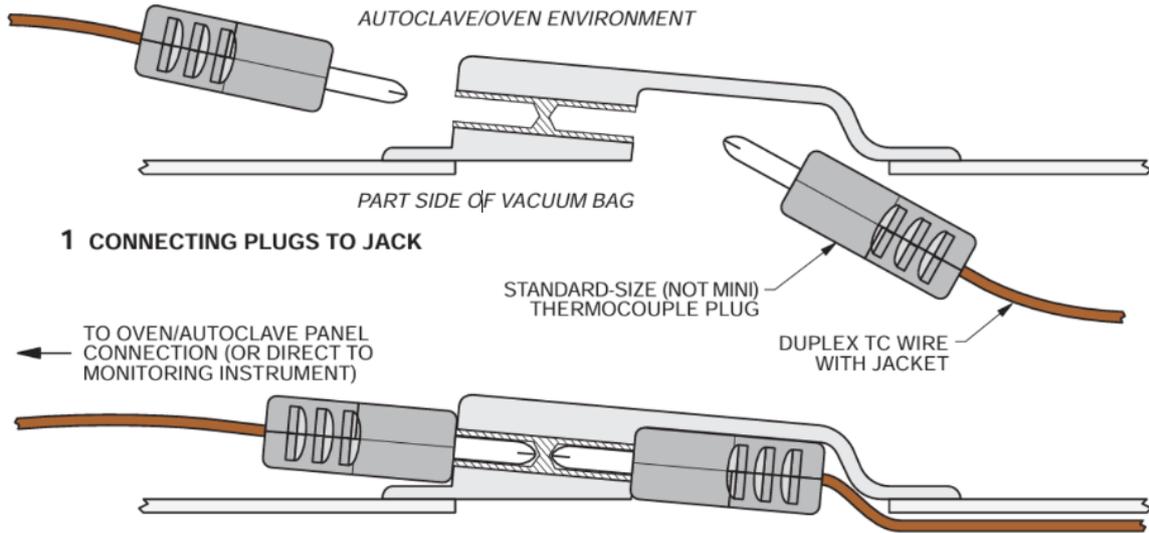


NPT

226x075	1/8", brass
246x088	1/4", brass
266x100	3/8", brass
286x112	1/2", brass
426x075	1/8" stainless steel
446x088	1/4" stainless steel
466x100	3/8" stainless steel
486x112	1/2" stainless steel



F – THERMOCOUPLE HARDWARE



88058J

Type J thermocouple jack, molded EL80 high-strength silicone rubber.



88058K

Type K thermocouple jack, molded EL80 high-strength silicone rubber.



88086J

Type J standard male plug, hollow pin.



88080J

Thru-tool type J plug assembly.



F – THERMOCOUPLE HARDWARE

88087J

Type J standard female jack.



88083J

Panel type J jack. Installs in .875 dia. hole.



88180J

Silicone-insulated type J tc wire, 24 gauge, vacuum-tight, .105" dia., bondable.



G – GAS SPRINGS, GAS-SPRING HARDWARE

AC86XXX / AC10XXX

AC98 - AC301 - AC99 - AC302

Gas-spring, 380°F, 11" compressed, 17" extended. Last 3 digits indicate force (pounds).

Gas-spring, 380°F, 17.8" compressed, 27.8" extended. Last 3 digits indicate force (pounds)

- Ball stud for AC86, 5/16-18 thread
- Ball stud for AC10, 5/16-18 thread
- Retaining clip for AC86
- Retaining clip for AC10



860086

Gas-spring lock for AC86, 380°F rated



885604

Weld-on ball stud doubler (call for size req'd)



885605

Bolt-on ball stud plate



885601

Base bracket, aluminum, 2" ball height



G – GAS SPRINGS, GAS-SPRING HARDWARE

885602

Base bracket, steel, 1.5" ball height



885522

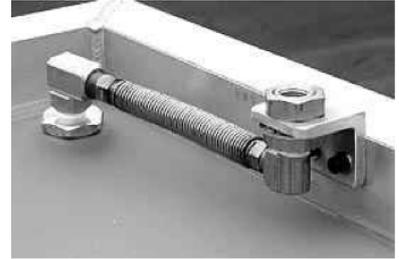
Base bracket, steel, .75" ball height



H – VACCU M PORT HARDWARE

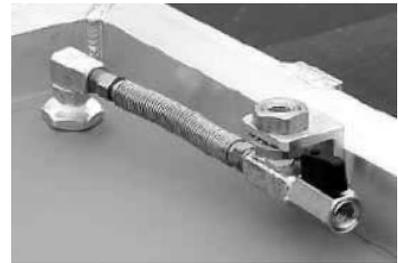
884100

1/4 NPT Frame Mount Assembly- Includes SS flex hose, 364000 probe, brass connectors, 884040 bulkhead assembly, and fasteners



884200

1/4 NPT Frame Mount Assembly w/ Valve- Includes items above with high-temp vent valve



884040

SS bracket w/ 1/4" FNPT brass bulkhead fitting



884060

1/4" NPT vacuum release ball valve, rated to 380°F



884106

1/4" NPT x 6" long stainless steel jumper hose



2 | SILICONE RUBBER SHEETING AND SELF-DRAINING



RUBBER SHEETING

High-strength compounds

Available with a light fabric finish, unsurpassed in vacuum and pressure bagging performance.

Commercial-grade compounds

Available in a wide selection of hardnesses and thicknesses, used in pressure-intensifier and gasket applications not requiring high-strength properties.

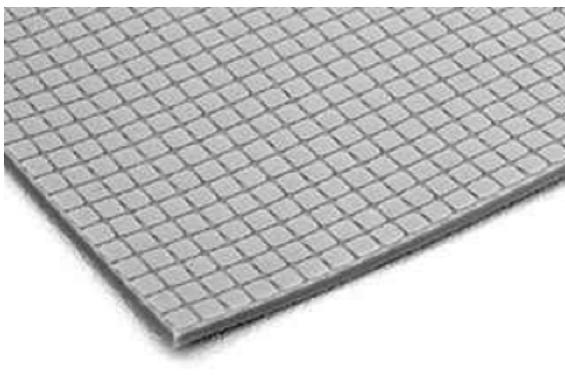
	Hardness (Shore A)	Tensile Strength (psi)	Tear Strength (ppi)	Mod@300% (psi)	Elongation (%)	Specific Gravity	Compression Set (%)
EL78	30	1500	207	324	900	1.10	17
EL80	50	1400	250	464	894	1.15	21
EL1037T	35	1548	256	331	1149	1.13	8
EL1039T	35	1860	250	304	1300	1.11	16
EL1040T	40	1860	250	304	1300	1.11	16

To order, please specify thickness, width, length

Stock thicknesses:
.030" .063" .085" .125"

Stock widths:
36" 48" 54"

Color **Gray**



SELF-DRAINING

this sheeting utilizes high-strength compounds, excellent for processes where breather material is not an option.

Self-Draining high-strength silicone rubber sheeting has a gridwork of breather channels molded into the surface to provide breathing in room temp, oven and autoclave processes.

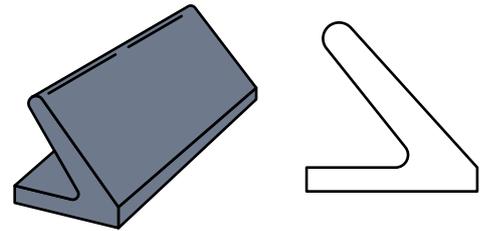
T-7 SEAL - FOR SEALING -

- **Material**
50 durometer (Shore A) solid silicone rubber, post-cured 4 hours at 400°F (204°C) to accommodate most specification requirements.
- **Maximum continuous temperature rating**
400°F (204°C) For bonding, we recommend Torr P/N 883203 or 883210 adhesive (Momentive RTV108)
- **When bonding to composite or metal components**
abrade and apply Torr P/N 883501 primer (Dow 1200). Primer is only applied to non-silicone surfaces.

876000 T-7 LARGE

Dims

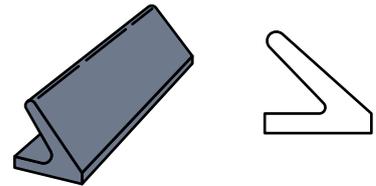
1.00in wide x 1.00in tall (25mm wide x 25mm tall)
Min. recommended compressed height: .39in (10mm)



875000 T-7 STANDARD

Dims

0.63in wide x 0.63in tall (16mm wide x 16mm tall)
Min. recommended compressed height: .26in (6.6mm)



874000 T-7 MICRO

Dims

0.41 in wide x 0.41 in tall (10.4mm wide x 10.4mm tall)
Min. recommended compressed height: .16in (4mm)



873000 T-7 NANO

Dims

0.20in wide x 0.20in tall (5mm wide x 5mm tall)
Min. recommended compressed height: .09in (2.3mm)



3 | VACUUM PUMP



Official BUSCH Distributor



**DOLPHIN VX
0030/0055 A**



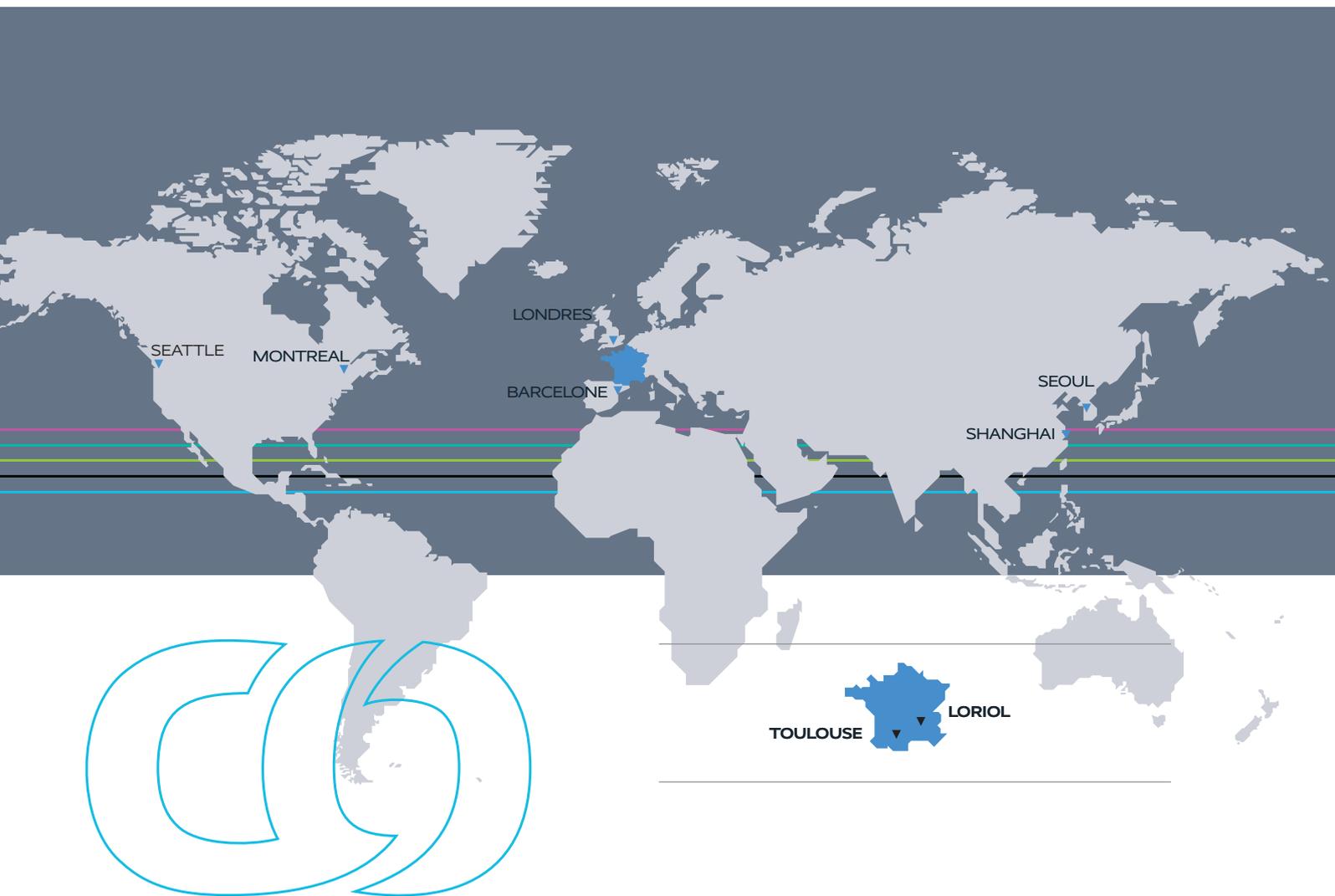
**RS KB
0010/0016 E**



**RS PB
0004/0008 C**

	Total Recirculation Liquid ring vacuum pump units	Oil-lubricated rotary vane vacuum pumps	Oil-lubricated rotary vane vacuum pumps
Nominal pumping speed	min. 18 ACFM max. 33 ACFM	min. 7.1 ACFM max. 11.2 ACFM	min. 2.8 ACFM max. 5.6 ACFM
Ultimate pressure	25 TORR	1.5 TORR	1.5 TORR
Nominal motor rating	min. 2.0 hp max. 3.0 hp	min. 0.5 hp max. 0.7 hp	min. 0.2 hp max. 0.6 hp
Nominal motor speed	- -	3600 RPM	3600 RPM
Sound pressure level (ISO 2151), KpA = 3 dB	- -	min. 67 dB(A) max. 68 dB(A)	min. 61 dB(A) max. 64 dB(A)
Weight approx.	min. 179 Lbs. max. 201 Lbs.	min. 35.2 Lbs. max. 39.6 Lbs..	min. 11.4 Lbs. max. 22.7 Lbs..





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