FOR FUEL, CHEMICAL AND ENVIRONMENTAL STORAGE SYSTEMS

FLOATING SUCTIONS

Our experience in Designing and manufacturing improved fluid handling equipment has attracted discriminating business world wide.



20 DREXEL DRIVE, BAY SHORE, NY 11706, USA

Phone: (631) 273 4940 / Fax: (631) 273 5018

Email: gnyequip@gnyequipment.com www.gnyequipment.com

GNY FLOATING SUCTIONS **GENERAL SPECIFICATIONS**

SWING JOINTS: aluminum, steel, or special alloys for chemical and other applications; flanged dual ball bearing type with O-ring seals or central type with bronze or Ni-Resist bushings. (12 inches or over.)

PIPE OR TUBING: aluminum, steel or special alloys for chemical and fuels, treatment plant decant applications; lengths and sizes are dependent on particular installation requirement; available in 2" through 24" pipe or tubing.

BELLMOUTH: low velocity conical configuration with baffle plate and anti-vortex plate. Basic styles: Model 301-B with 90° bell-mouth elbow; Model 301-C with 45° bellmouth elbow and inverted bellmouth for skimming units.

FLOATS: stainless steel

and all are pressure tested.

BAFFLE AND STOP LEG: aluminum, steel, iron or special alloys for chemical and other applications; designed to break suction 9 inches above tank bottom. (or as specified)

INSPECTION CABLE: 4 3/16" uncoated Stainless Steel (Grounded to Arm)

ORDERING INFORMATION

FOR VERTICAL TANK

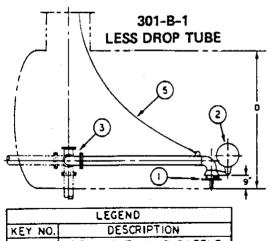
- 1. Type of liquid to be handled.
- 2. Preferred style (give model number).
- 3. Pipe size required.
- 4. Type of tank (cone or floating roof).5. Diameter and height of tank.
- 6. Manhole size.
- 7. Centerline of nozzle from floor of tank.
- 8. Note any support or guide columns inside tank.

GENERAL NOTE

- A. Aluminum materials are standard with units 2" to 8".
- B. Steel material are standard with 10" to 24".

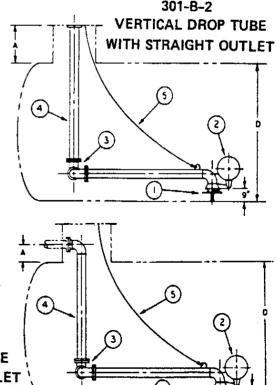
FOR HORIZONTAL TANK

- 1. Type of liquid to be handled.
- 2. Preferred style (give model number).
- 3. Pipe size required.
- 4. Whether above or below ground tank.
- 5. Diameter of tank.
- 6. Location and type of outlet stub (flanged or threaded).
- 7. Manhole size.
- 8. For vertical pipes, "A" dimensions.
- 9. Note any obstructions in tank.



LEGEND	
KEY NO.	DESCRIPTION
ŀ	BELLMOUTH AND BAFFLE
2	FLOAT, STAINLESS STEEL
3	FLANGED SWING JOINT
4	VERTICAL DROP TUBE
5	INSPECTION CABLE

301-B-3 **VERTICAL DROP TUBE** WITH 90° ELBOW OUTLET



GNY EQUIPMENT, LLC

GNY FLOATING SUCTIONS

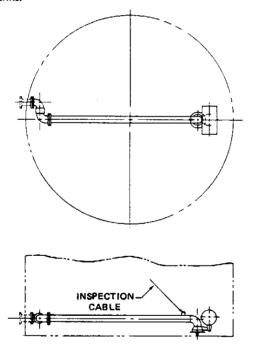
SIZES:

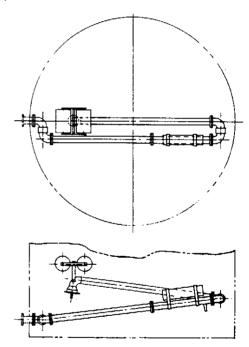
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24"

....up to 36"

DESIGNED TO:

- Deliver a cleaner product by drawing the fluid closest to the surface. The suction intake includes a stop leg in order to maintain an undisturbed tank bottom, eliminating a high percentage of water and sediments from aircraft fuel, motor fuel, heating oils and petrochemicals.
- Decant water from sewage treatment plant separation tanks.
- In an inverted installation can also skim oils from the top of water run off settling tanks (with standard or inverted type inlets).
- Reduce inlet velocity with special belimouth so "bottom" remains undisturbed.
- Increase efficiency and decrease maintenance of filter separator.





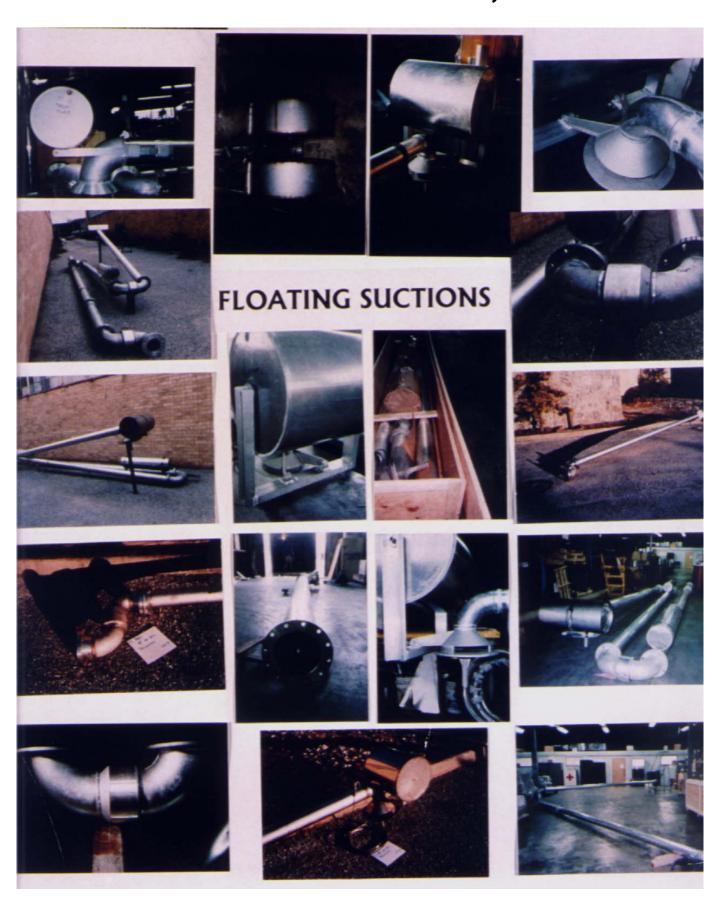
TYPICAL VERTICAL TANK MOUNTING

MODEL 301-B. For use in vertical, above ground fuel tanks for airport and marine bulk storage terminals. Tanks can be used sooner after delivery. Setting time can be greatly reduced. The unit is usually installed in new tanks but can also be added to existing tanks.

IMPORTANT NOTE: It is recommended that tanks equipped with floating suctions have provision and procedures for systematic draining of tank bottoms (water) same as tanks without floating suctions.

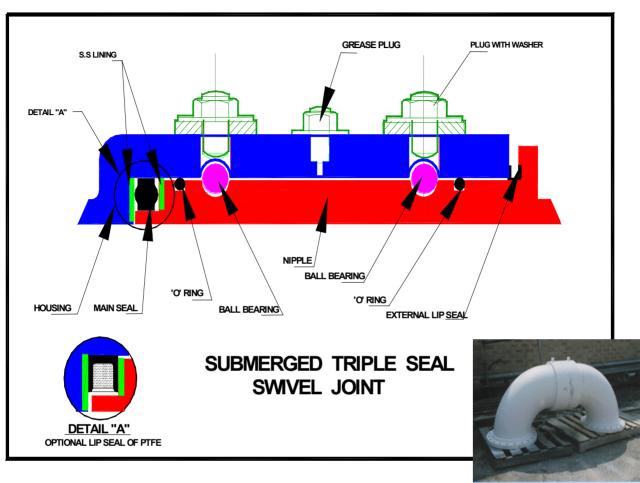
MODEL 301-B-AR. The articulated floating suction is designed for use in a vertical tank in which the tank diameter is too small to allow a single arm unit to reach the top of the product. Articulated multi-arm floating suctions are available on-special design.

GNY EQUIPMENT, LLC





GNY SUBMERGED TRIPLE SEAL SWIVEL JOINTS



Heavy-duty load bearing capacity widespread ball-bearing raceway hardened up to 345 BHN

Cross-sectional view of split flange design Swivel joint spool



www.gnyequipment.com

GNY SUBMERGED TRIPLE SEAL SWIVEL JOINTS

Size: 2" (50 mm) to 36" (900 mm).

Swivel Joints are available in style 20, 30 and 40 with threaded, flanged, butt weld ends connection or combinations, in ANSI 150 to 300 class. **Designed** as per API Spec. Standard 6H.

Material of Construction:

Carbon Steel: CS A105/ A515 or A515/A516 Gr. 60/70, Stainless Steel: SS 304/SS 316 (CF8/ CF8M or equivalent)

Aluminum (up to 10" size)

Two different design constructions:

Two Piece Design

Split Flange Design: The main seal can be replaced without dismantling any bearings.

Ball Bearing, fitted with two rows of **widespread** ball bearing (Chrome CS or SS)

Combination of roller bearing with ball bearing units are also available.

Heavy-duty load bearing capacity widespread ball-bearing raceway hardened up to 345 BHN (equals to 37 Rockwell "C") through a special permanent metal hard facing process.

Seal Contact Faces are overlaid with Corrosion Resistant Stainless Steel (SS) Lining:

All CS Swivel Joints are supplied with **Special Stainless Steel lining** at the main seal faces, on both nipple and housing for longer seal life and smooth rotation.

Triple Seal Design

Main seal of two different types: O-Ring or Lip Seal.

O-Ring type: Main Seal of O-ring cross section of Buna-n/Viton ® material and O-rings, **Lip Seal type:** Main Lip Seal of PTFE (Teflon ®) with Buna-n/Viton ® Insert and O-rings or

Lip Seal type: Main Lip Seal of Buna-n/Viton ® is also available. A special Inverted Lip seal design for main-seal is also available.

External Lip Seal (for submerged application)

A third additional lip seal specially designed to provide required sealing for external fluid pressure. External Lip Seal of PTFE (Teflon ®) or Buna-n/Viton ®.

A special Inverted external lip seal design is also available.

Positive and Negative pressures

Nipple (female) portion is **specially dimensioned** for the main seal to remain in the proper functioning position under both positive and negative pressure.

Designed to withstand temperature variations from -40 to 100 Deg. Centigrade

A special low or high temperature application is also available.

Factory Lubricated and Sealed:

Lubricated with Special wear resistant high temp. PTFE based lubricant and Lubricated-for-life (maintenance free) is also available.

Dust Proof

Hydro testing and Special Testing

All Swivel Joints are <u>Internally Hydro-tested</u> at shop before shipping. The Air test, Vacuum test, Bending moment/Radial load test, Pull load test, Torque test, External Pressure test, Electrical conductivity test and Life Cycle Tests (US Patented) have been conducted during the R&D (research and development) and these tests can be conducted upon request at extra cost.

GNY 24" FLOATING SUCTION (JOB: 1134) Supplied to Client in China (Year 2002)



24" x 4 nos. Floating Suction Arm packed on skids.



24" x Style 40 CS Submerged Two-Piece Design Swivel Joint with Triple Seal of PTFE



Duel Stainless Steel Float Assembly for 24" Floating Suction Assembly

GNY 12" FLOATING SUCTION (JOB: 1133) Supplied to Client in China (Year 2002)



12"x 4 nos. Floating Suction Arm packed on skids.

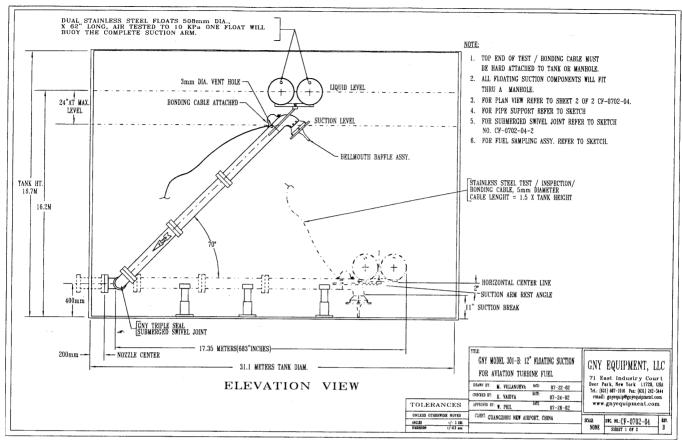


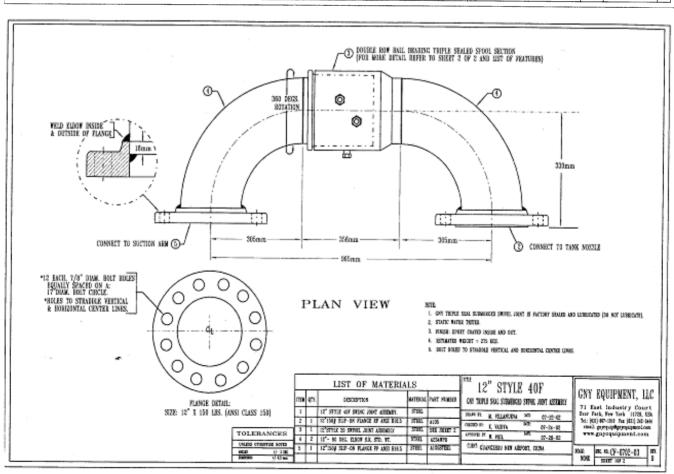
12" x Style 40 CS Submerged Two-Piece Design Swivel Joint with Triple Seal of PTFE Epoxy Painted Inside-outside



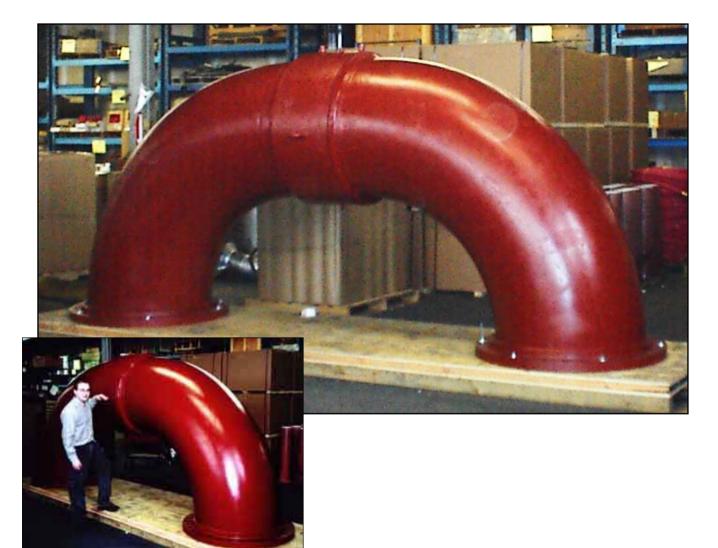
Duel Stainless Steel Float Assembly for 12" Floating Suction Assembly

GNY 12" FLOATING SUCTION (JOB: 1133) TYPICAL SKETCHES





GNY SWIVEL JOINT SIZE: 36"



36" Swing Joint
Style 40 with
36" Elbows and Flanges
For Submerged Hot Bitumen Applications
Supplied to Client in Canada (Year 2000)