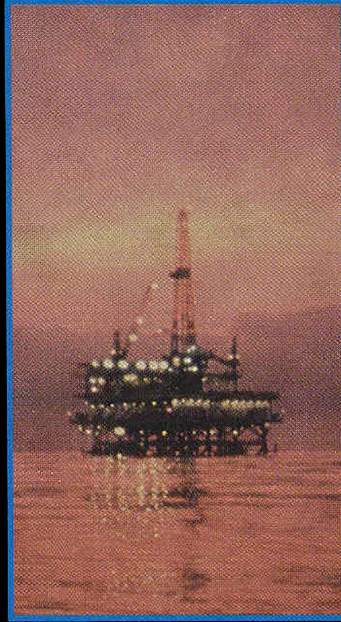
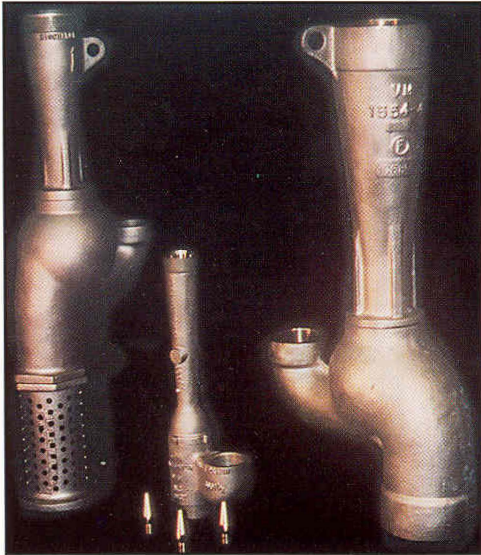


# VITAFLOW



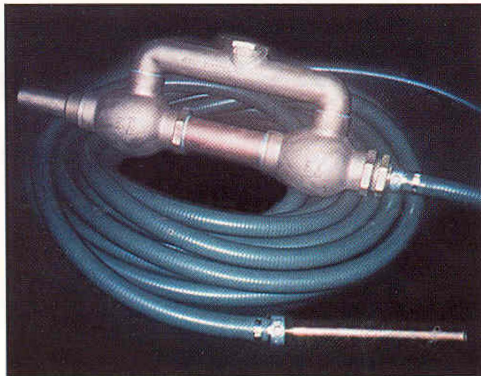
**PUMP IT DRY WITH  
VITAFLOW EDUCTORS**

# Portable Eductors



## VITAFLOW #300-1½", V.M. #1544-2½", V.M. #1554-4"

Handy auxiliary pump for regular and emergency pumping of liquids. Removes liquids from ballast, bilge, cargo spaces, tanks and pits. Just attach hose from fire main or other source of liquid pressure and lower eductor into space to be pumped. Or, attach suction hose to reach the suction fluid. Uses include pumping water out of holds during tank and hold washing, or during firefighting. Fire departments use for drafting water from pools, etc. Allows access to alternate water source without hard suction hose. Also used for dewatering flooded buildings, basements and draining large excavations. Available with optional strainers, spare nozzles and adapters.



## VITAFLOW Deck Eductor

Portable Deck Eductor is widely used on board tankers and rigs. Only the suction hose goes into the tank while the main unit remains on the deck. The Deck Eductor lifts liquids from 70' (21 M), for removal of gasoline, fuel oils, lube oil and water after cleaning tanks. Suction flow rate of 10-15 GPM achieved when allowing clearance at suction nozzle for air intake. Available in Bronze (standard), also stainless steel and aluminum. Standard PVC, rubber or chemical suction hoses also available.



## VITAFLOW 1802-4" MHC, Muck-handling Conveyor

The 1802-4" MHC is designed for handling slurry, scale, sand and liquid mixtures. Used for removal of sand blast shot, sludge and mud from ships and barges. Material is manually loaded into the hopper which has a heavy grate screen. Washdown spray jets supply water to convey all material to the main jetting flow. The hopper is removable to allow attachment of suction hoses. The heart of the MHC is a 4" bronze eductor, useable in other applications when not used with the hopper. Accessories include suction hoses, discharge hoses, high and low pressure nozzles.

## Permanent Eductors

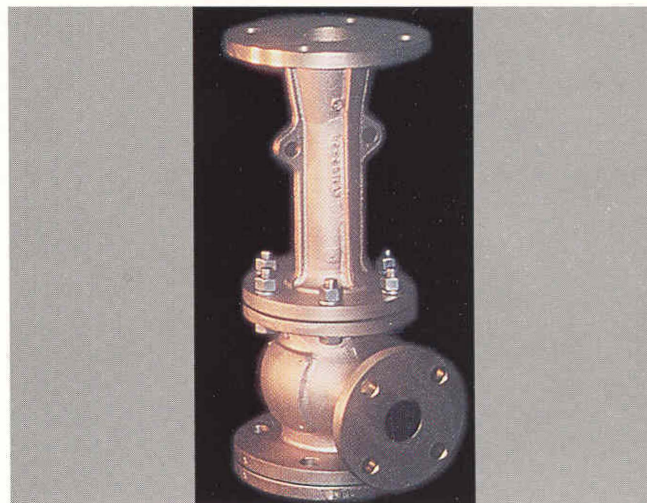
### VITAFLOW 1802 Series

Permanently Installed, 1802 models are used to strip bilges, ballast or other spaces that regularly have to be pumped out. Supplied in sizes from 4" through 14", the 1802 series eductors are high volume, high suction, efficient jet pumps. Applications include stripping and gas-freeing Cargo tanks, pumping bilges, pumping liquids and semi-solid cargo. General industry uses include mixing and agitating liquids and exhausting gases. These units can be lined with ceramic or other materials for abrasive applications. Available in Bronze (standard), also 316 stainless steel, carbon steel and cast iron.



### VITAFLOW BILGEMATE Series

Permanently installed, Bilgemates are peripheral-jet type eductors. The unrestricted straight-through design permits no clog flow of liquid and solid mixtures. Available in sizes 2" through 8" and capable of passing solids up to 3 1/2" (89mm). Ideal for pumping slurries, liquids and semi-solid cargo. Used for Bilge, ballast, handling water, sand, gravel and coal; Used for draining excavations, sumps and pits. Available In Bronze (standard), stainless steel, carbon steel and cast iron.



### VITAFLOW 1568 Series

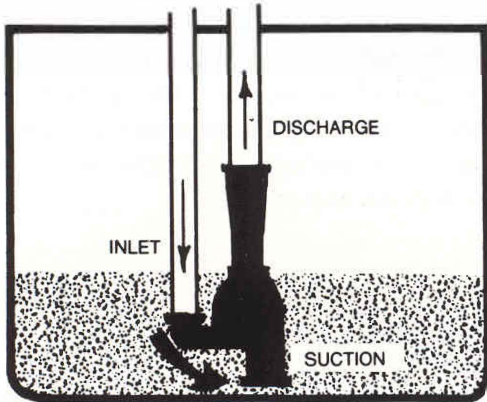
Permanently installed, the 1568 Flanged eductor is used for pumping liquids from cargo spaces, bilges, chain lockers or any area that has to be pumped dry. Also used for mixing or agitating liquids. Normally supplied with flanged ends, they are also available with threaded connections. Available in 1", 1 1/2", 2" & 3" in Bronze (standard) 316 stainless steel, carbon steel and cast iron. All V.M. Eductors are supplied to meet the requirements of each application.



Eductors are Liquid Jet Pumps that use water or other liquids under pressure to create a pumping action. In standard eductors the inlet pressure liquid discharges through a single nozzle to start pumping action. They are self-priming and can handle liquid and solid mixtures. There are no moving parts to break down or wear out. Eductors are available with flanged or threaded connections, for portable use or for permanent installation. They are used to pump liquids from chain lockers, bilges, cargo holds, tanks or any space that has to be pumped dry.

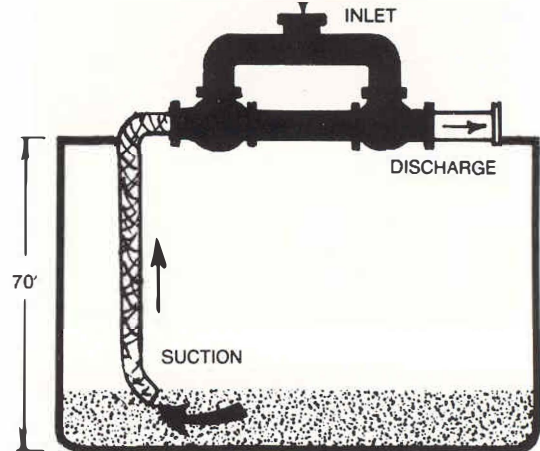
Bilgемate Eductors are peripheral jet type eductors with a straight through unrestricted flow for the suction liquid, allowing larger pieces of suspended solids to be handled. The inlet pressure liquid is discharged through a multi-jet nozzle which makes it possible to handle larger volumes of air. All these characteristics make this type suitable for pumping bilges, stripping ballast or priming large pumps. They cannot lose suction. Every gallon of inlet liquid (sea water) can pump up to 1½ gallons of suction liquid such as bilge water.

**PORTABLE  
EDUCTOR**



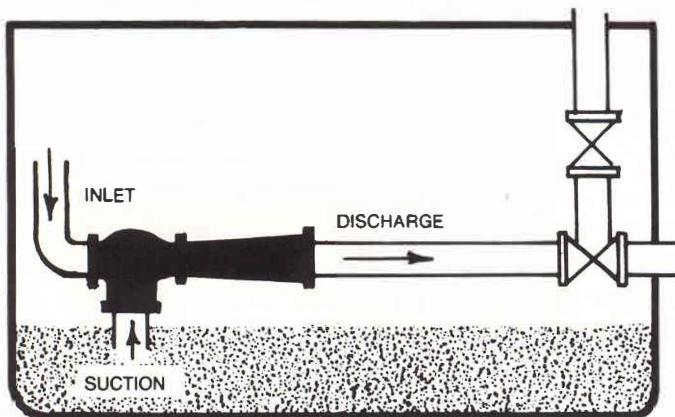
Portable Eductors 300-1½", 1544-2½" and 1554-4" use inlet pressure from fire main or other source of liquid pressure. They are lowered into space to be pumped out.

**DECK EDUCTOR  
(Portable)**



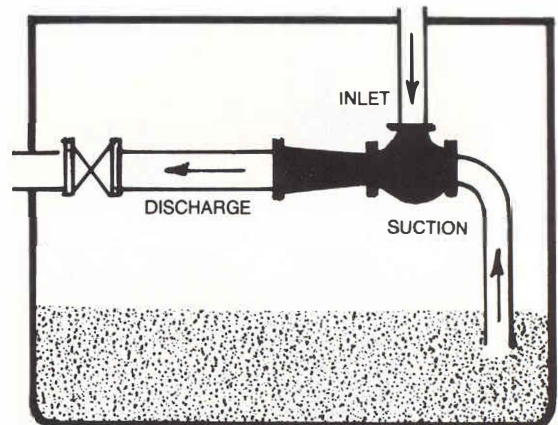
Deck Eductor powered from fire main, remains on deck. Only the non-collapsible suction hose goes into the tank to dry out remaining puddles of liquid.

**PERMANENTLY  
INSTALLED EDUCTOR**

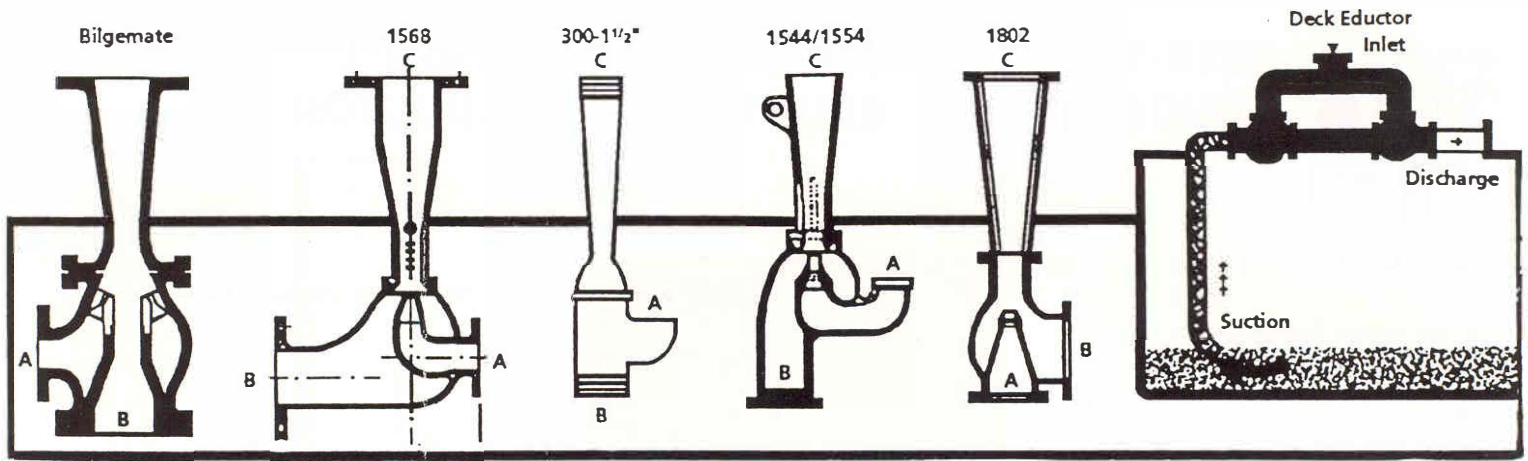


Permanently installed, 1802 models are used to strip bilges, ballast or other spaces that regularly have to be pumped out.

**PERMANENTLY INSTALLED  
BILGEMATE EDUCTOR**



The Bilgемate peripheral jet eductors, similar to models 925, 964 and 976 are used to pump bilges or cargo spaces that may have a mixture of solids and liquids.



### EDUCTOR CONSTRUCTION

	STANDARD	OPTIONAL
BODY	BRONZE (ASTM B62)	Navy "M", Ni-Al Bronze, 70-30 Cu-Ni, Carbon Steel, Stainless Steel, Hastelloy, Aluminum
NOZZLE	Monel or Bronze	Stainless Steel, other machineable materials
GASKETS	Neoprene	Teflon, Rubber, Viton, Other Materials
BOLTS	Stainless Steel	Silicon Bronze
FLANGES	ANSI B16.24 Flat Face	Navy, Metric, JIS, DIN, ASA 300# Navy 250#
LINING	None	Ceramic, Hardchrome, Monel

### VITAFLOW EDUCTORS GENERAL INFORMATION

MODEL	SUCTION CAPACITY		INLET SIZE "A"		SUCTION SIZE "B"		DISCH. SIZE "C"		LENGTH		WEIGHT	
	GPM	(M3/H)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1316-1"	10	(3)	3/4"	(19)	1"	(25)	1"	(25)	5"	(127)	3	(1.4)
250-2"	78	(18)	1 1/2"	(38)	2"	(51)	2"	(51)	9"	(229)	13	(6)
250-2"L	98	(22)	1 1/2"	(38)	2"	(51)	2"	(51)	9"	(229)	18	(8)
300-1 1/2"	35	(8)	1 1/2"	(38)	1 1/2"	(38)	1 1/2"	(38)	14 1/2"	(368)	8	(3.6)
Deck Eductor	20	(4.5)	2"	(51)	1 1/4"	(32)	2"	(51)	25"	(635)	70	(32)
<b>1568 - Series</b>												
1568-1"	10	(3)	3/4"	(19)	1"	(25)	1"	(25)	5 1/2"	(140)	6	(2.7)
1568-1 1/2"	35	(8)	1"	(25)	1 1/2"	(38)	1 1/2"	(38)	7 3/4"	(197)	15	(6.8)
1568-2"	60	(14)	1 1/4"	(32)	2"	(51)	2"	(51)	10"	(254)	24	(9.5)
1568-3"	214	(48)	2"	(51)	3"	(76)	3"	(76)	14 3/4"	(375)	50	(17.7)
<b>Portables</b>												
1544-2 1/2"	120	(27)	1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	19 1/4"	(489)	25	(11)
1544-4"	350	(80)	2 1/2"	(63)	4"	(100)	4"	(100)	26"	(660)	58	(27)
<b>Bilgemates</b>												
925-2"	90	(20)	1 1/4"	(32)	2"	(51)	2"	(51)	15 7/8"	(403)	50	(24)
925-2 1/2"	120	(27)	1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	15 7/8"	(403)	55	(26)
925-2 1/2" L	150	(34)	1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	21"	(533)	75	(34)
925-3" L	150	(34)	1 1/2"	(38)	2 1/2"	(63)	3"	(76)	21"	(533)	80	(35)
964-4"	250	(57)	2 1/2"	(63)	4"	(100)	4"	(100)	23 1/2"	(597)	90	(41)
964-4" L	400	(91)	2 1/2"	(63)	4"	(100)	4"	(100)	31 5/8"	(802)	110	(50)
974-4"	350	(80)	3"	(76)	4"	(100)	4"	(100)	27"	(686)	105	(48)
974-4" L	580	(132)	3"	(76)	4"	(100)	4"	(100)	35"	(889)	130	(59)
975-5"	450	(102)	3"	(76)	4"	(100)	5"	(127)	32	(813)	110	(50)
976-6"	600	(136)	4"	(100)	6"	(150)	6"	(150)	36 5/8"	(930)	175	(80)
978-8"	800	(180)	5"	(127)	6"	(150)	8"	(200)	47"	(1194)	350	(160)
<b>1802 - Series</b>												
1802-4"	250	(57)	2 1/2"	(63)	4"	(100)	4"	(100)	23"	(584)	70	(32)
1802-4" SP	440	(100)	2 1/2"	(63)	4"	(100)	4"	(100)	28"	(705)	95	(43)
1802-8"	1100	(250)	6"	(150)	8"	(200)	8"	(200)	42"	(1067)	285	(130)
1802-8" X	1500	(340)	6"	(150)	8"	(200)	8"	(200)	54 1/2"	(1384)	325	(147)
1802-10"	2800	(636)	8"	(200)	8"	(200)	10"	(250)	70 1/2"	(1791)	520	(236)
1802-12"	3800	(863)	10"	(250)	10"	(250)	12"	(300)	82"	(2083)	625	(284)
1802-14"	4200	(954)	10"	(250)	10"	(250)	14"	(350)	90.8"	(2306)	700	(318)
1802-14" L	4800	(1090)	10"	(250)	10"	(250)	14"	(350)	102.8"	(2611)	900	(408)
<b>1903 - Series</b>												
1903-6"	600	(136)	6"	(150)	4"	(100)	6"	(150)	42"	(1067)	140	(63)
1903-18"	6000	(1362)	12"	(300)	14"	(350)	18"	(450)	104"	(2641)	1300	(590)

# 300-1 1/2" VITAFLOW EDUCTOR

Greatest suction capacity is achieved by lowering eductor into space to be pumped out.

When suction lift does not exceed 20' a length of suction hose can be attached to suction end and only the hose can be put into the space to be pumped dry.

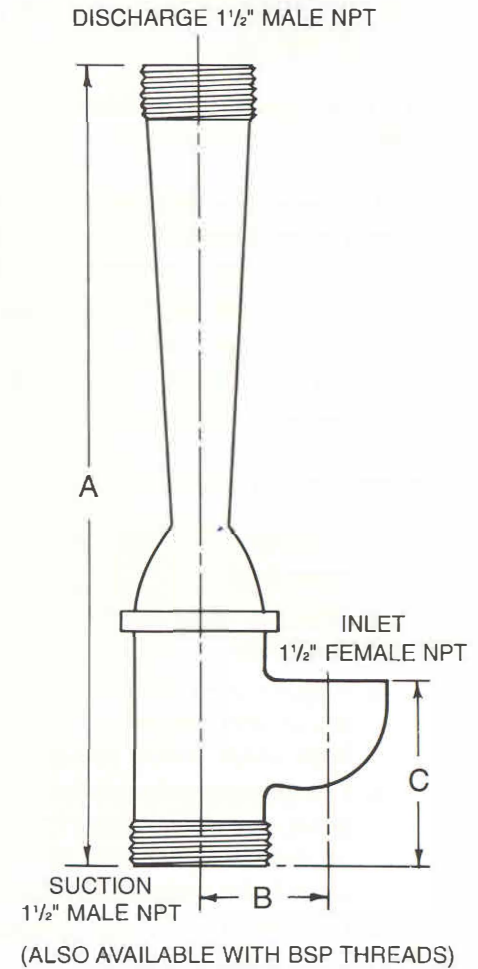
Generally used for removal of liquids from Bilges, Barges, Tanks, Cargo spaces, pits, etc. An emergency pump always ready for action as long as driving liquid under pressure is available.

## SUGGESTED USES:

The VM 300-1 1/2" eductor constructed of high grade Bronze, is a small, handy jet pump, useful for portable or permanent pumping jobs.

## NOTES:

1. If steam is used as motivating pressure, inlet can be reduced to 1".
2. Available with NPT or BSP threads.
3. Available in kits complete with inlet, suction and discharge hoses.



## GENERAL CHARACTERISTICS

SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE FLOW		SUCTION LIFT		DISCHARGE HEAD	
U.S. GPM	(M3/H)	PSI	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
12 - 35	(3 - 8)	35 - 125	(3 - 9)	23 - 51	(2 - 3)	0 - 20	(0 - 6)	20 - 70	(6 - 21)

## DIMENSIONS Inches / Millimeters

INLET		SUCTION		DISCH.		"A"		"B"		"C"		WEIGHT	
Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1 1/2"	(38)	1 1/2"	(38)	1 1/2"	(38)	14 1/2"	(368)	2 1/2"	(63)	3"	(92)	8	3.6

# 1316-1" EDUCTOR

# 250-2" EDUCTOR

# 250-2"L EDUCTOR

## VITAFLOW

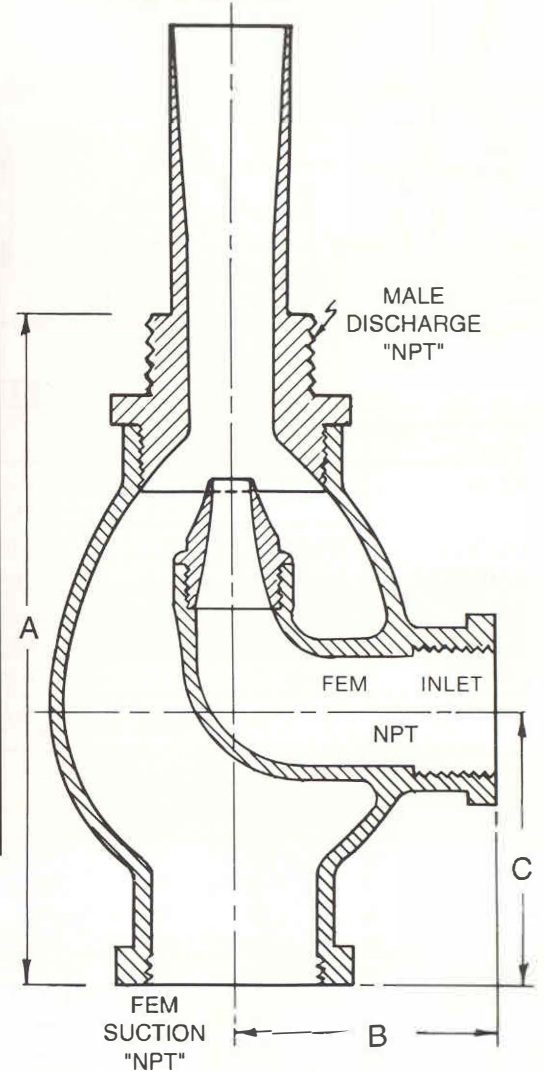
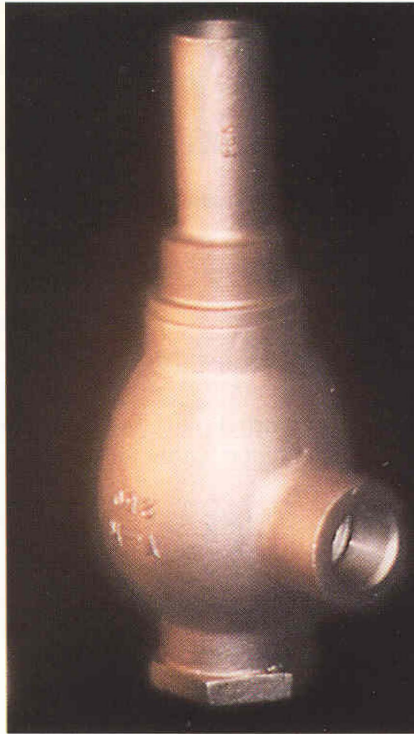
The 1316-1" Eductor can be used with Hoses as a portable eductor. 1" inlet and discharge hoses are suggested. 2" inlet and discharge hoses are suggested for the 250-2". This model eductor can also be permanently installed.

**MATERIAL:** Body - Bronze  
Nozzle - Monel or Stainless Steel

### SUGGESTED USES:

1. Pumping small quantities of liquids from Bilge, Cargo Spaces, Chain lockers, etc.
2. Removing puddles after tank or hold washdown.
3. Pump Priming.

**NOTE:** Available with NPT or BSP threads.



### GENERAL CHARACTERISTICS

V.M. MODEL	SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE FLOW		SUCTION LIFT		DISCHARGE HEAD	
	U.S. GPM	(M3/H)	(PSI)	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
1316-1"	5 - 10	(2 - 3)	35 - 125	(3 - 9)	3 - 9	(2 - 3)	0 - 20	0 - 6	20 - 70	(6 - 21)
250-2"	45 - 78	(10 - 18)	50 - 125	(3 - 9)	58 - 91	(13 - 21)	0 - 20	0 - 6	20 - 80	(6 - 24)
250-2"L	45 - 98	(10 - 22)	50 - 125	(3 - 9)	65 - 95	(15 - 22)	0 - 20	0 - 6	20 - 100	(6 - 30)

### DIMENSIONS Inches / Millimeters

MODEL	INLET		SUCTION		DISCH.		"A"		"B"		"C"		WEIGHT	
	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1316-1"	3/4"	(19)	1"	(25)	1"	(25)	5"	(127)	2.18"	(55)	2.18"	(55)	3	1.4
250-2"	1 1/2"	(38)	2"	(51)	2"	(51)	9"	(229)	3 5/8"	(92)	3 5/8"	(92)	13	6
250-2"L	1 1/2"	(38)	2"	(51)	2"	(51)	9"	(229)	3 5/8"	(92)	3 5/8"	(92)	18	8

# 1544-2 1/2" VITAFLOW EDUCTOR

This portable model is used when larger quantities of liquids have to be handled.

Fire Hose can be attached to both discharge and inlet connections. Greatest suction capacity is achieved by lowering eductor into space to be pumped out.

**MATERIAL: Standard    Optional**

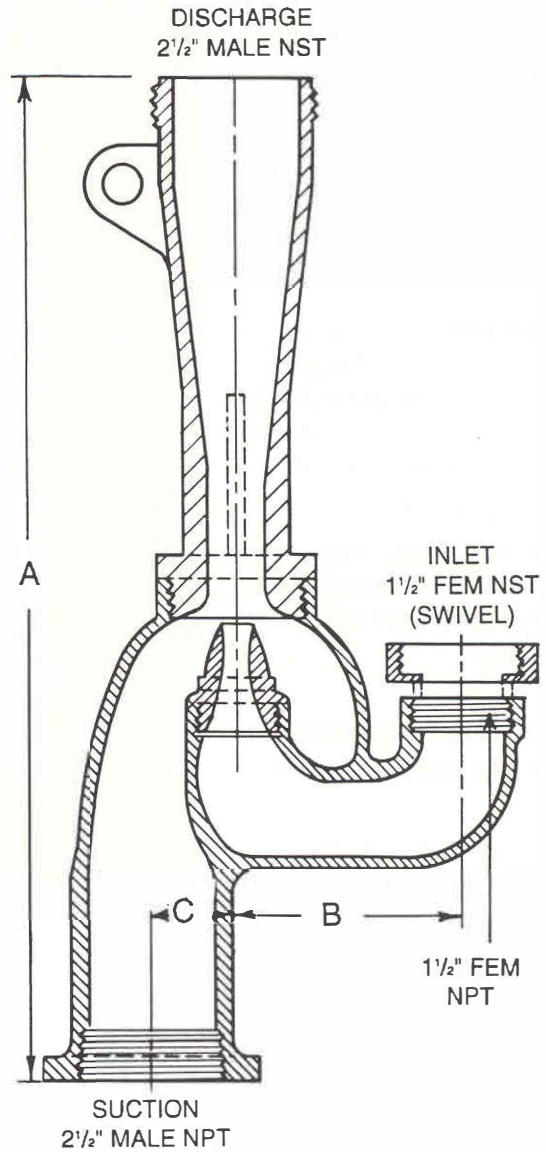
- Body - Bronze    Aluminum/Stainless Steel
- Nozzle - Monel    Stainless Steel
- Strainer - Bronze    Aluminum/Stainless Steel

**SUGGESTED USES:**

1. Keeping bottoms dry during tank or hold washing operations.
2. Pumping water out of holds during firefighting operations.
3. Regular or emergency pumping of liquids or liquids with suspended particles from ballast, bilge, cargo space, pits, etc.
4. Fire Departments use for drafting water from pools, streams or lakes for wildland fires and to access alternate water sources. Eductor allows water to be supplied without hard suction hose.
5. Fire Departments use for dewatering flooded buildings, basements, boats and tanks.

**NOTES:**

1. Optional strainer available.
2. Eductor can be supplied with inlet, suction and discharge hoses.
3. Eductor can be supplied with BSP or other threads.



**GENERAL CHARACTERISTICS**

SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE FLOW		SUCTION LIFT		DISCHARGE HEAD	
U.S. GPM	(M3/H)	(PSI)	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
80 - 120	(18 - 27)	50 - 150	(3 - 10)	70 - 120	(16 - 27)	0 - 20'	(0 - 6)	0 - 80'	(6 - 24)

**DIMENSIONS Inches / Millimeters**

INLET		SUCTION		DISCH.		"A"		"B"		"C"		WEIGHT	
Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	19 1/2"	(489)	4 1/2"	(114)	1 3/4"	(44)	25	(11)



# 1554-4" VITAFLOW EDUCTOR

This model is generally used as a portable eductor and has the ability to fit through small openings but still handles large volumes of liquid or mixtures of liquids and particles. This type also lends itself to permanent installations in tight spaces.

## MATERIAL: Standard Optional

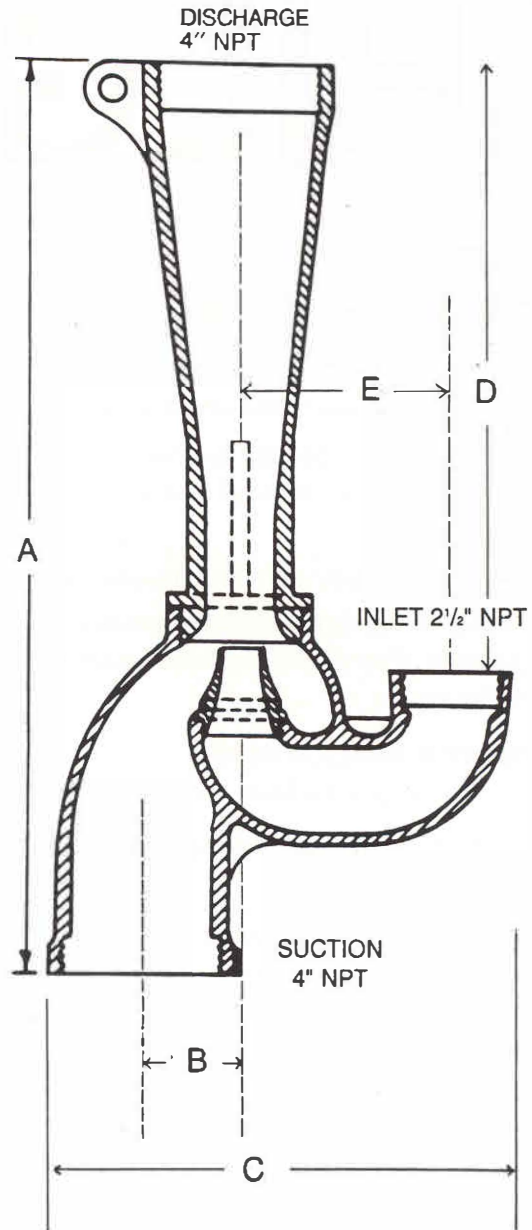
Body	- Bronze	Aluminum/Stainless Steel
Nozzle	- Monel	Stainless Steel, Bronze
Strainer	-	Bronze, Aluminum, Stainless Steel

## SUGGESTED USES:

1. Keeping bottoms of large tanks dry during washing operations on ship or shore.
2. Pumping out pits or excavations at construction sites.
3. Wherever a relatively small lightweight eductor can be used to handle large quantities of liquid.

## NOTES:

1. Optional Threaded Strainer Available.
2. Eductor can be supplied with inlet, suction and discharge hoses.
3. Standard model supplied with NPT threads (BSP threads available).



## GENERAL CHARACTERISTICS

SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE FLOW		SUCTION LIFT		DISCHARGE HEAD	
U.S. GPM	(M3/H)	PSI	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
175 - 350	(40 - 80)	50 - 150	(3 - 10)	140 - 220	(32 - 50)	0 - 20	(0 - 6)	20' - 60'	(6 - 18)

## DIMENSIONS Inches / Millimeters

INLET		SUCTION & DISCH.		"A"		"B"		"C"		"D"		"E"	
Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)
2 1/2"	(63)	4"	(100)	26"	(660)	2 3/4"	(70)	13.12"	(333)	16.87"	(429)	6.12"	(155)

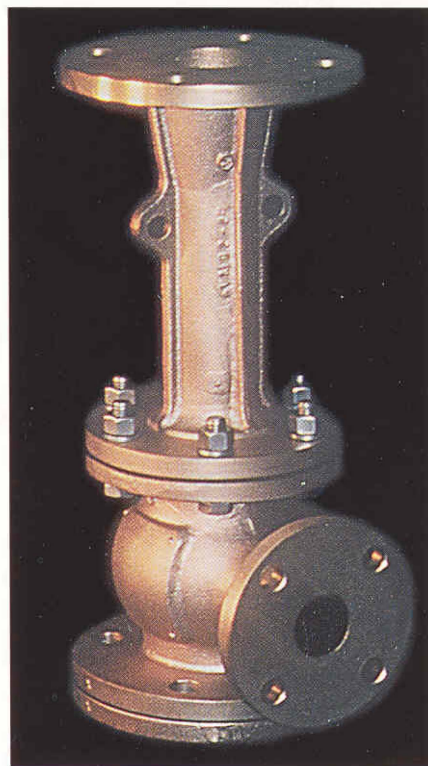
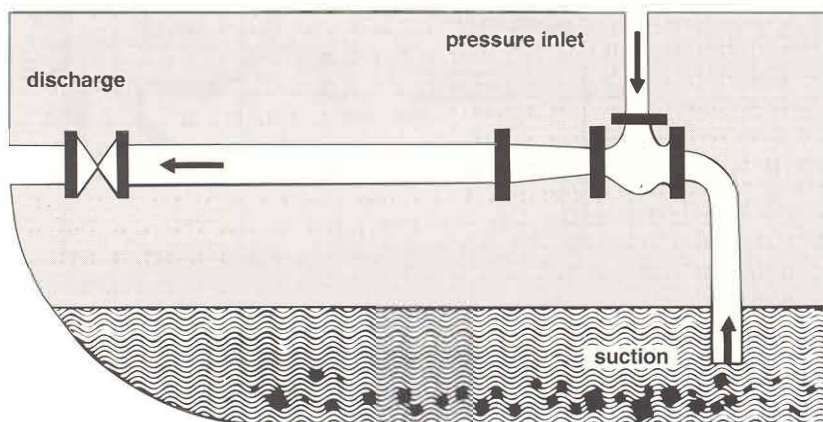
# VITAFLOW BILGEMATE EDUCTORS

## Materials of Construction:

Body & Diffuser - Bronze  
Nozzle - Monel or Stainless Steel

## Flanges:

All Flanges 150 LB ANSI B16.24  
Flat Face  
(also available 250#/300# DIN, JIS, METRIC)



**V.M. BILGEMATE EDUCTORS**  
dimensions . . . . . Inches / Millimeters

MODEL	"A"		"B"		"C"		"T"		WEIGHT	
	Inches	(Mm)	Inches	(Mm)	Inches	(Mm)	Inches	(Mm)	Lbs	(Kg)
925-2"	15 <sup>7</sup> / <sub>8</sub> "	(403)	5 <sup>1</sup> / <sub>8</sub> "	(130)	3 <sup>3</sup> / <sub>8</sub> "	(86)	1 <sup>1</sup> / <sub>8</sub> "	(28)	50	(24)
925-2 <sup>1</sup> / <sub>2</sub> "	15 <sup>7</sup> / <sub>8</sub> "	(403)	5 <sup>1</sup> / <sub>8</sub> "	(130)	3 <sup>3</sup> / <sub>8</sub> "	(86)	1 <sup>1</sup> / <sub>8</sub> "	(28)	55	(26)
925-2 <sup>1</sup> / <sub>2</sub> " L	21"	(533)	5	(130)	3 <sup>1</sup> / <sub>4</sub> "	(83)	1 <sup>1</sup> / <sub>2</sub> "	(38)	75	(34)
925-3" L	21"	(533)	5	(130)	3 <sup>1</sup> / <sub>4</sub> "	(83)	1 <sup>1</sup> / <sub>2</sub> "	(38)	80	(35)
964-4"	23 <sup>1</sup> / <sub>2</sub> "	(597)	5 <sup>7</sup> / <sub>8</sub> "	(149)	4 <sup>3</sup> / <sub>8</sub> "	(111)	2 <sup>1</sup> / <sub>2</sub> "	(63)	90	(41)
964-4" L	31 <sup>5</sup> / <sub>8</sub> "	(802)	7 <sup>7</sup> / <sub>8</sub> "	(199)	4 <sup>3</sup> / <sub>8</sub> "	(111)	2 <sup>1</sup> / <sub>2</sub> "	(63)	110	(50)
974-4"	27"	(686)	5 <sup>1</sup> / <sub>4</sub> "	(133)	7"	(178)	2 <sup>1</sup> / <sub>2</sub> "	(63)	105	(48)
974-4" L	35"	(889)	5 <sup>1</sup> / <sub>4</sub> "	(133)	7"	(178)	2 <sup>1</sup> / <sub>2</sub> "	(63)	130	(59)
975-5"	32"	(813)	5 <sup>1</sup> / <sub>4</sub> "	(133)	7"	(178)	2 <sup>1</sup> / <sub>2</sub> "	(63)	110	(50)
976-6"	36 <sup>5</sup> / <sub>8</sub> "	(930)	7 <sup>1</sup> / <sub>2</sub> "	(191)	7 <sup>1</sup> / <sub>2</sub> "	(191)	3"	(76)	175	(80)
978-8"	47"	(1194)	7 <sup>3</sup> / <sub>4</sub> "	(197)	5"	(127)	3 <sup>1</sup> / <sub>2</sub> "	(89)	350	(160)

NO SWEAT, NO STRAINER WITH . . .

# VITAFLOW

## PUMP BILGE DRY . . . WATER DOES THE WORK!

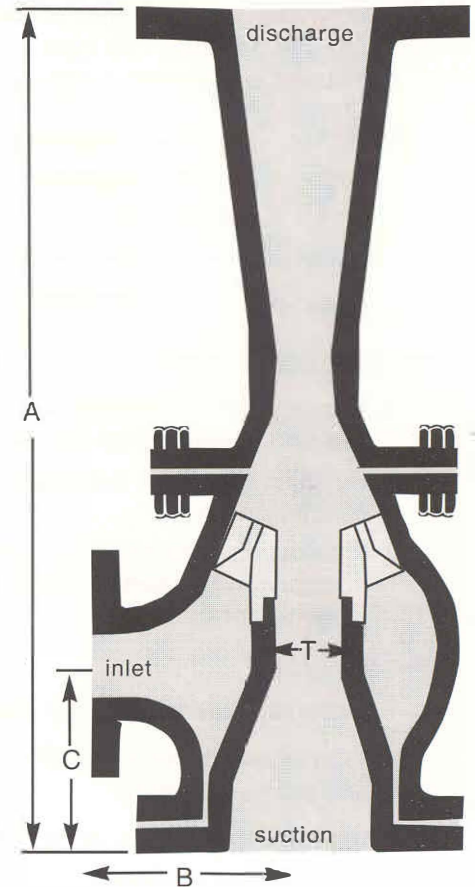
The VITAFLOW BILGEMATE, solidly constructed of high grade bronze, is a peripheral jet-type eductor that utilizes sea water under pressure to pump bilges dry.

Made with no moving parts, Bilgemate guarantees long life without maintenance. The unrestricted straight through design permits superior no-clog flow of liquid and solid mixtures.

BILGEMATE eliminates "rosebox" strainers usually required on bilge suction lines. The VITAFLOW BILGEMATE will operate with inlet pressures of 50-150 psi and may be installed in any position. Every gallon of inlet liquid will pump up to 3 gallons of suction liquid.

### BILGEMATE EDUCTOR APPLICATIONS

- SHIPS** Pumping Bilges, Ballast, pumping liquid and semi-solid cargo
- OIL RIGS** Pumping cement and drilling mud, draining machinery spaces and spud cans
- INDUSTRY** Mixing and blending liquids and powders.  
Pumping slurries and semi-solids from pits and sumps.  
Draining excavations & construction sites
- DREDGING** Ideal for pumping sand and mud mixed with stones and shells with no moving parts.



V.M. BILGEMATE EDUCTORS – FLANGE CONNECTIONS & SUCTION CAPACITY

MODEL	INLET		SUCTION		DISCHARGE		SUCTION CAPACITY	
	Inches	(Mm)	Inches	(Mm)	Inches	(Mm)	GPM	(M3/H)
925-2"	1 1/4"	(32)	2"	(51)	2"	(51)	90	(20)
925-2 1/2"	1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	120	(27)
925-2 1/2" L	1 1/2"	(38)	2 1/2"	(63)	2 1/2"	(63)	150	(34)
925-3" L	1 1/2"	(38)	2 1/2"	(63)	3"	(76)	150	(34)
964-4"	2 1/2"	(63)	4"	(100)	4"	(100)	250	(57)
964-4" L	2 1/2"	(63)	4"	(100)	4"	(100)	400	(91)
974-4"	3"	(76)	4"	(100)	4"	(100)	350	(80)
974-4" L	3"	(76)	4"	(100)	4"	(100)	580	(132)
975-5"	3"	(76)	4"	(100)	5"	(127)	450	(102)
976-6"	4"	(100)	6"	(150)	6"	(150)	600	(136)
978-8"	5"	(127)	6"	(150)	8"	(200)	800	(180)

# 1568 VITAFLOW EDUCTOR

## SUGGESTED USES:

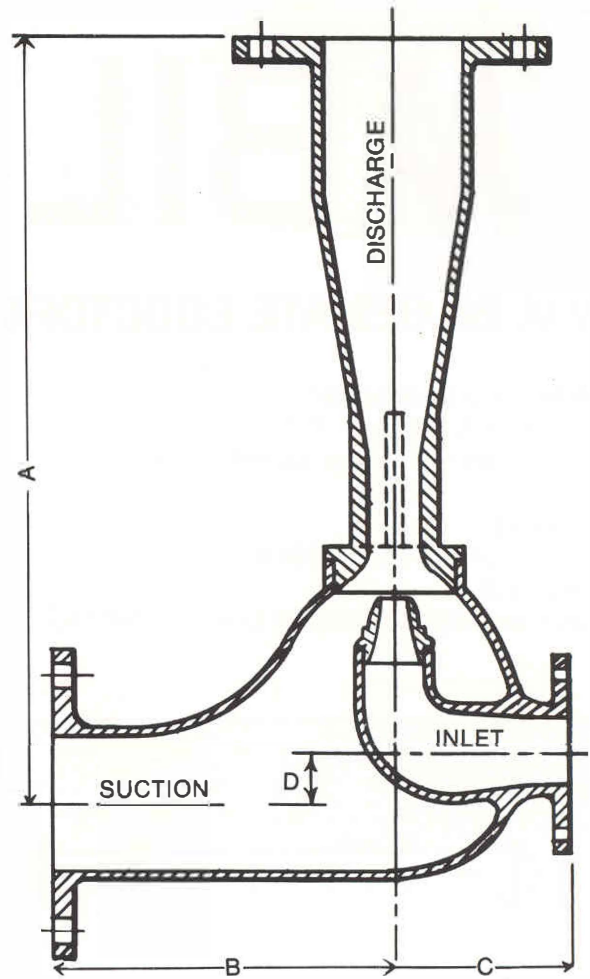
The 1568 flanged eductor can be permanently installed for pumping liquids from chain lockers, bilges, cargo spaces or any area that has to be pumped dry.

All flanges 150 lb. ANSI B16.24.

Can be supplied undrilled.

Can also be supplied with threaded connections.

**MATERIAL:** Bronze with Monel Nozzle.

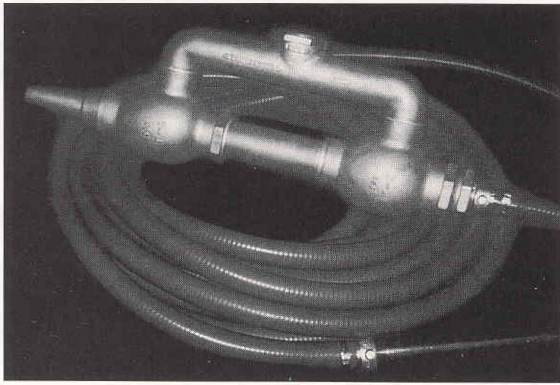


## GENERAL OPERATING RANGE

VITAFLOW MODEL	SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE FLOW		SUCTION LIFT		DISCHARGE HEAD	
	U.S. GPM	(M3/H)	PSI	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
1568-1"	5 - 10	(1 - 3)	35 - 150	(3 - 10)	7 - 14	(1 - 3)	0 - 20'	(0 - 6)	0 - 90'	(0 - 27)
1568-1½"	12 - 35	(3 - 8)	35 - 150	(3 - 10)	24 - 37	(5 - 8)	0 - 20'	(0 - 6)	0 - 90'	(0 - 27)
1568-2"	40 - 60	(9 - 14)	35 - 150	(3 - 10)	49 - 71	(11 - 16)	0 - 20'	(0 - 6)	0 - 70'	(0 - 31)
1568-3"	70 - 214	(16 - 48)	35 - 150	(3 - 10)	110 - 174	(25 - 39)	0 - 20'	(0 - 6)	0 - 80'	(0 - 35)

## DIMENSIONS Inches / Millimeters

MODEL	SUCTION & DISCH.		INLET		"A"		"B"		"C"		"D"		WEIGHT	
	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1568-1"	1"	(25)	¾"	(19)	5½"	(140)	3½"	(89)	2¼"	(57)	½"	(12.7)	6	(2.7)
1568-1½"	1½"	(38)	1"	(25)	7¾"	(197)	4½"	(114)	2½"	(63.5)	¾"	(19)	15	(7)
1568-2"	2"	(51)	1¼"	(32)	10"	(254)	6"	(152)	3"	(76)	1"	(25.4)	21	(9.5)
1568-3"	3"	(76)	2"	(51)	14¾"	(375)	8"	(203)	4"	(100)	1¼"	(32)	50	(23)



# The deck eductor in action ...

## VITAFLOW

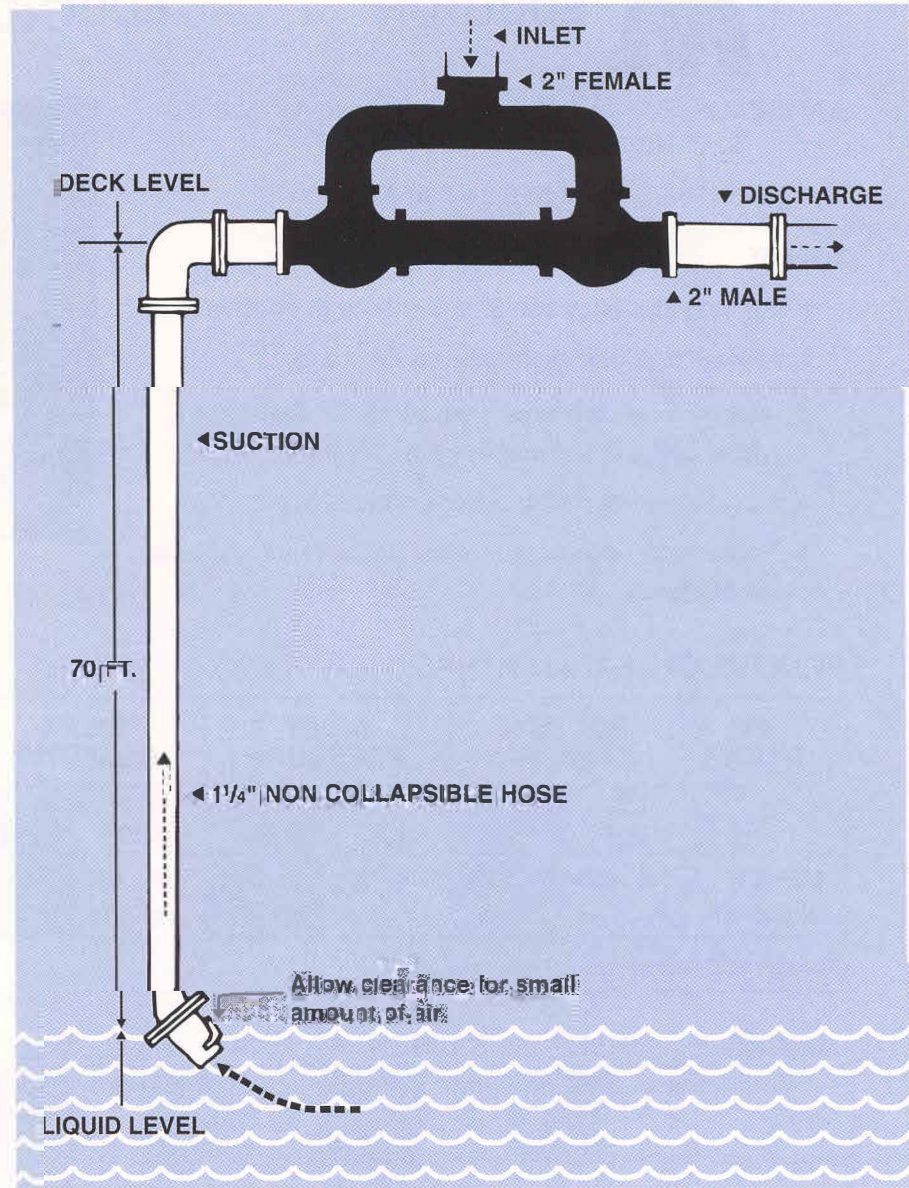
Lightweight, movable unit sets up in minutes, pumps tanks dry through removal of fuel oils, gasoline, lube oil, water and other liquids at the rate of 10 to 15 gpm. **Near perfect vacuum lifts fine scale liquid from 70 feet**, especially efficient for removal of water after cleaning tanks. No maintenance required, powered by 75 to 100 psi sea water. The only part that goes into the tank is the non-collapsible hose attached to the VITAFLOW Deck Eductor. Also used to dry out tanks completely, preventing foaming when asphalt cut-back and other products are to be loaded. This low cost unit quickly pays for itself in time and labor saved.

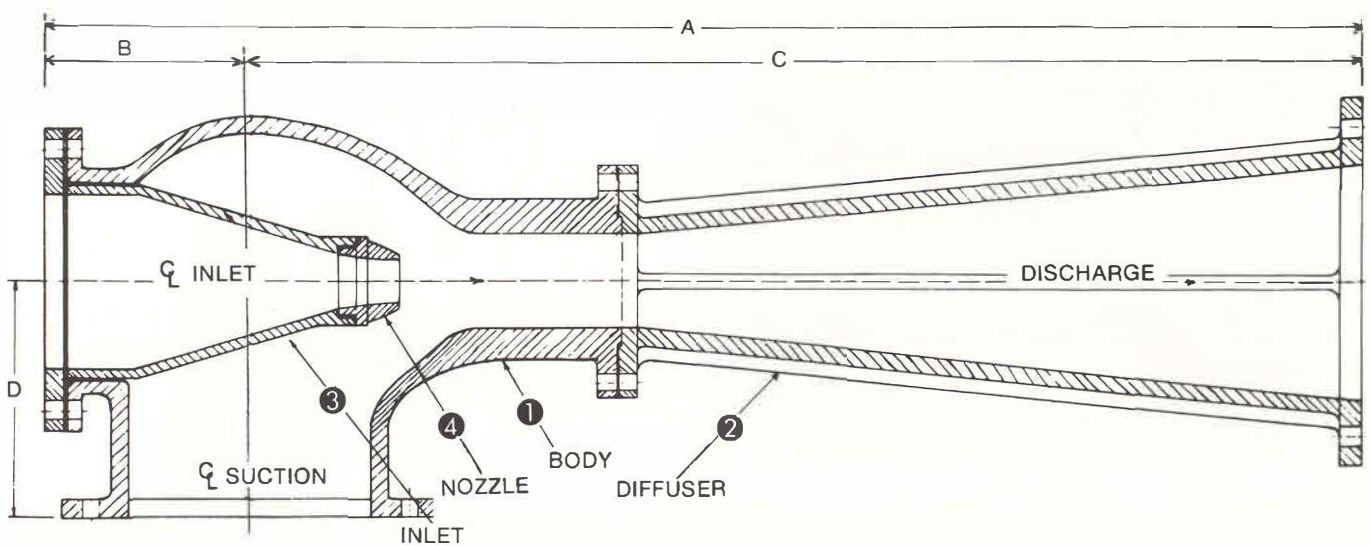
### OPERATING INSTRUCTIONS:

1. Use 2.5' (63.5mm) hose from fire main or other source to Deck Eductor.
2. Operating Pressure 75 - 125 PSI (5-8 Bar).
3. Discharge hose, if used, should be at least 2.5' (63.5mm).
4. Allow clearance for suction nozzle above the liquid level for small amount of air.

### NOTES:

1. Complete Deck Eductor Kit includes Bronze Deck Eductor, non-collapsible Suction hose (75'x1.25"), couplings, and Bronze Suction Nozzle (other lengths available).
2. Deck Eductor is also available in Aluminum or Stainless Steel.
3. Chemical or Rubber suction hoses are also available in 75 feet or other lengths.





# VITAFLOW

## 1802-4" EDUCTOR

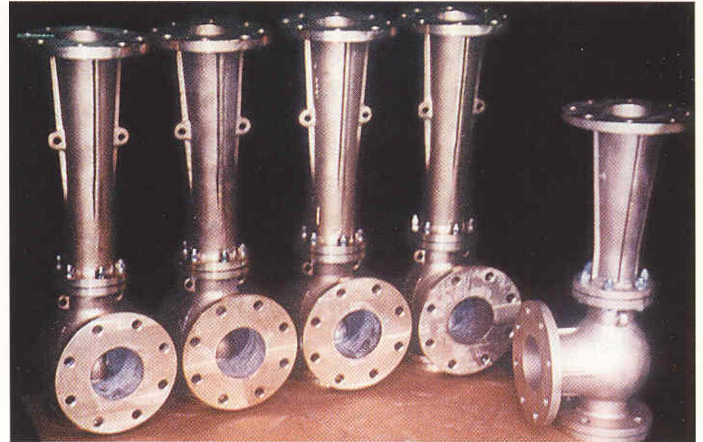
## 1802-4" SP EDUCTOR

**MATERIAL:** Body & Diffuser - Bronze ASTM B 62  
 Nozzle - Monel

**Flanges:** 150 LB ANSI B16.24 Flat Face

**NOTES:**

1. For long inlet lines use 3" and reduce at eductor to 2½".
2. Allow 3' to 4' of straight pipe on Discharge.
3. All bends on Discharge shall be 45° or shall have a radius of 2½ to 3 times diameter of pipe.
4. Eductor supplied to fit requirements of application.
5. Replaceable sleeve inserts are available for abrasive applications.

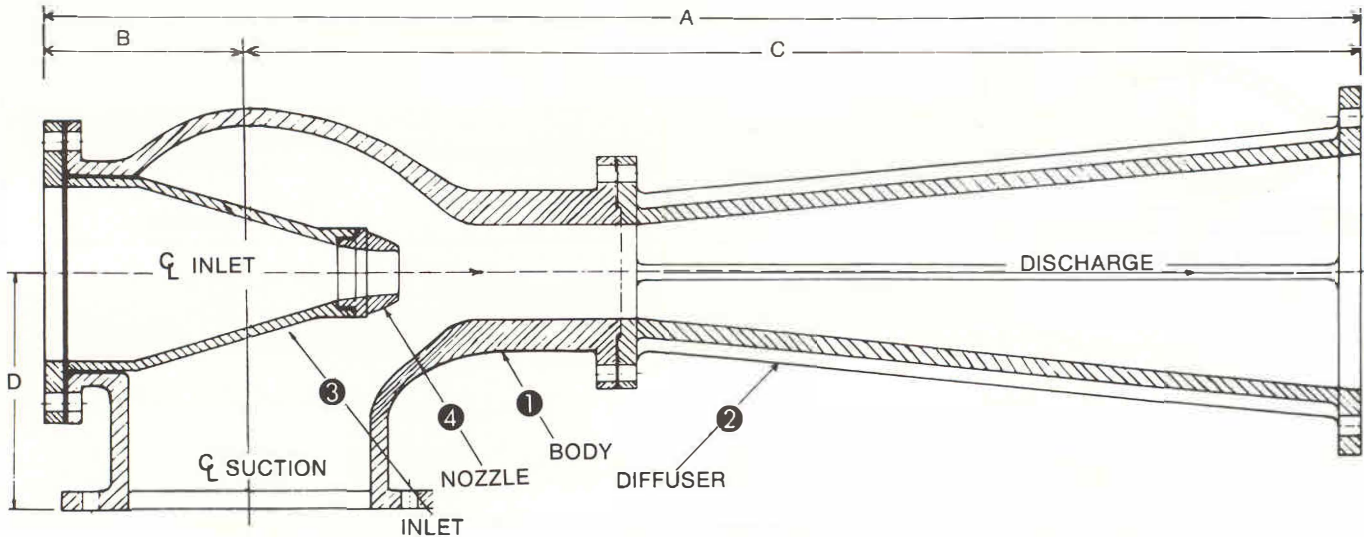


**GENERAL OPERATING RANGE**

VITAFLOW MODEL	SUCTION CAPACITY		INLET PRESSURE		INLET QUANTITY		SUCTION LIFT		DISCHARGE HEAD	
	U.S. GPM	(M3/H)	PSI	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
1802-4"	150 - 250	(34 - 57)	50 - 150	(3 - 10)	100 - 250	(23 - 57)	0 - 20'	(0 - 6)	0 - 100	(0 - 30)
1802-4" SP	200 - 400	(45 - 100)	50 - 150	(3 - 10)	300 - 500	(68 - 113)	0 - 20'	(0 - 6)	0 - 120	(0 - 36)

**DIMENSIONS Inches / Millimeters**

MODEL	INLET		SUCTION & DISCH.		"A"		"B"		"C"		"D"		WEIGHT	
	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1802-4"	2½"	(63)	4"	(100)	23"	(584)	5"	(127)	18"	(457)	5½"	(140)	70	(32)
1802-4" SP	2½"	(63)	4"	(100)	28"	(711)	5"	(127)	23"	(584)	5½"	(140)	95	(43)



# VITAFLOW

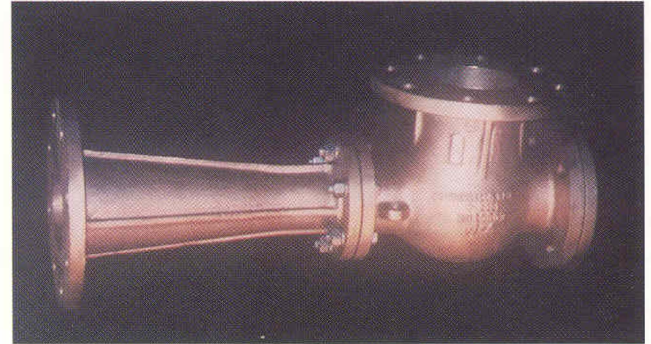
## 1802-8" EDUCTOR

## 1802-8x" EDUCTOR

**MATERIAL:** Body & Diffuser - Bronze ASTM B 62  
Nozzle - Monel

**NOTES:**

1. Eductor supplied to fit requirements of application.
2. Replaceable sleeve inserts are available for abrasive applications.
3. All flange connections 150 # ANSI B 16.24  
Model 1802-8x is built with a center section between the body and diffuser. (Please request a drawing for details).

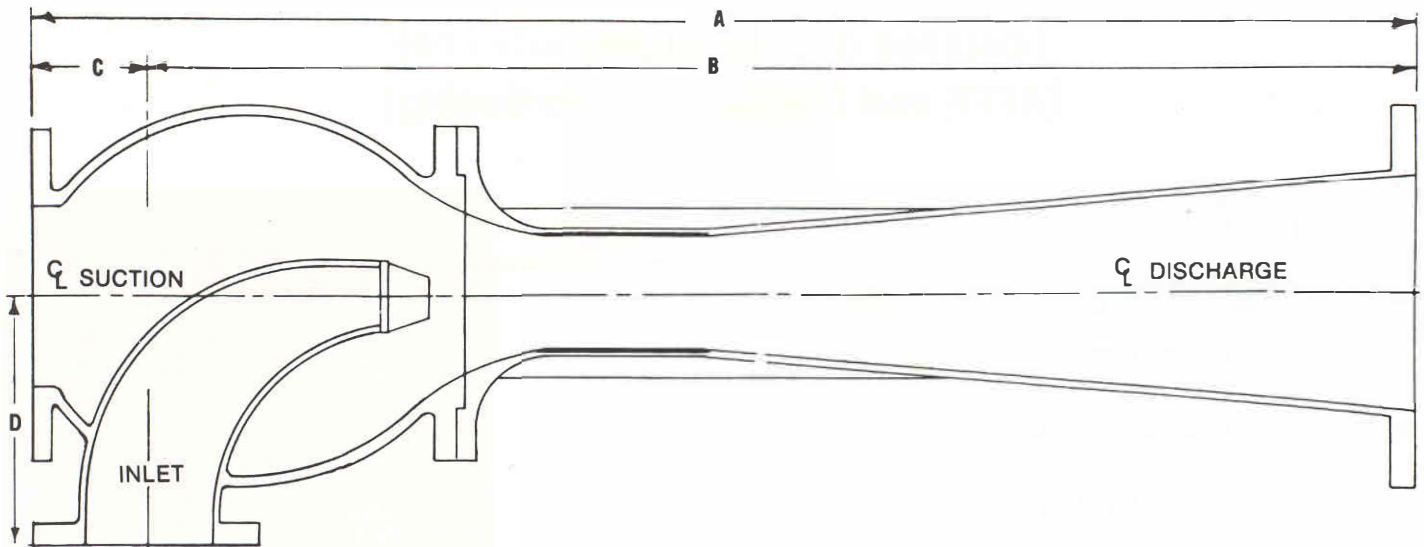


**GENERAL OPERATING RANGE**

VITAFLOW MODEL	SUCTION CAPACITY		INLET PRESSURE		INLET QUANTITY		SUCTION LIFT		DISCHARGE HEAD	
	U.S. GPM	(M3/H)	(PSI)	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
1802-8"	550 - 1100	(125 - 250)	100 - 175	(7 - 12)	550 - 900	(125 - 205)	0 - 20	(0 - 6)	0 - 100	(0 - 30)
1802-8" X	1100 - 1500	(125 - 340)	100 - 175	(7 - 12)	550 - 1100	(125 - 205)	0 - 20	(0 - 6)	0 - 100	(0 - 30)

**DIMENSIONS Inches / Millimeters**

MODEL	INLET		SUCTION & DISCH.		"A"		"B"		"C"		"D"		WEIGHT	
	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1802-8"	6"	(150)	8"	(200)	42"	(1067)	7"	(178)	35"	(889)	8"	(203)	285	(130)
1802-8" X	6"	(150)	8"	(200)	54 1/2"	(1384)	7"	(178)	47 1/2"	(1200)	8"	(203)	325	(147)



# VITAFLOW

## 1903-6" EDUCTOR

## 1903-18" EDUCTOR

**MATERIAL:** Body & Diffuser - Bronze  
Nozzle - Monel

**NOTE:**  
Eductor supplied to fit requirements of application.

### GENERAL OPERATING RANGE

VITAFLO MODEL	SUCTION CAPACITY		MOTIVE PRESSURE		MOTIVE QUANTITY		SUCTION LIFT		DISCHARGE HEAD	
	U.S. GPM	(M3/H)	PSI	(BAR)	U.S. GPM	(M3/H)	Feet	(Meters)	Feet	(Meters)
1903-6"	400 - 600	(91 - 136)	50 - 150	(3 - 10)	300 - 550	(68 - 125)	0 - 20'	(0 - 6)	0 - 100	(0 - 30)
1903-18"	3000 - 6000	(681 - 1362)	100 - 200	(7 - 14)	3000 - 5500	(681 - 1250)	0 - 20	(0 - 6)	0 - 110	(0 - 33)

### DIMENSIONS Inches / Millimeters

MODEL	INLET		SUCTION		DISCH.		"A"		"B"		"C"		"D"		WEIGHT	
	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Inch	(Mm)	Lbs	(Kg)
1903-6"	6"	(150)	4"	(100)	6"	(150)	42"	(1067)	36"	(914)	6"	(152)	7"	(178)	140	(63)
1903-18"	12"	(300)	14"	(350)	18"	(450)	104"	(2641)	94 1/2"	(2400)	9 1/2"	(241)	12 3/4"	(324)	1300	(590)