

316L STAINLESS STEEL REVERSIBLE DRUM ANGEL

Empty or fill a 55-US gallon drum (45 Imperial/205L) in under 90 seconds! Reversible unit fills and empties a drum

**COMPRESSES AIR POWER □
NO MOVING PARTS**

WHAT ARE THEY – REASONS TO USE

The 316L STAINLESS STEEL Reversible Drum Angel/Drum Pump is a maintenance free system to recover spilled liquids, coolant, sludge, tramp oil, waste water and other liquids using only compressed air. The compressed air system attaches easily to any closed head of a drum (30 or 55 US gallon, or 45 Imperial gallon or 205 liter drum). The reversible feature allows you to fill or empty the drum in under two minutes with the simple turn of a knob. The flow rate can be controlled either by a shut-off valve or regulator, or by the knob itself. Drum should have a nominal wall thickness of 1.5mm (16 gauge) and in good condition to maintain integrity of system performance and safety. Using no electricity, these system last and last, unlike many electrical units that wear out quickly in harsh industrial environments. A built in safety feature prevents overfilling and spills



REVERSIBLE DRUM ANGEL FEATURES:

- ▶ No moving parts
- ▶ Driven by air not electricity
- ▶ 316L Stainless Steel construction
- ▶ Built in pressure relief and vacuum relief systems
- ▶ Compact and portable - easy to install
- ▶ Auto system shutoff to prevent overflow
- ▶ Fits standard closed head drum
- ▶ System is complete with spill recovery system

REVERSIBLE DRUM ANGEL BENEFITS:

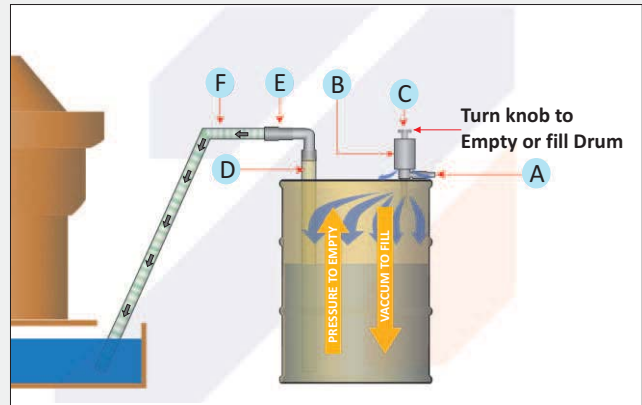
- ▶ Maintenance Free
- ▶ Safe - no electricity and pressure/vacuum relief
- ▶ Long life
- ▶ Simple to install and use - portable
- ▶ Maintenance free with output easily controlled, safe to use
- ▶ Cannot over fill
- ▶ Usable on any standard drum
- ▶ Unlike some competitive unit Drum Angel is complete with a spill recovery skimmer at no extra cost

Reversible Drum Angel is used to remove coolant from a sump. It is then transferred to another location and emptied from the drum.



REVERSIBLE DRUM ANGEL - HOW IT WORKS

Reversible Drum Angel/Drum Pump for liquids - Compressed air enters at point (A) and into the Drum Angel/Drum Pump unit (B) which is mounted onto a sealed metal drum via the small hole. An adjustable knob (C) controls whether the unit creates a vacuum inside the drum to fill the drum or pressure to empty the drum. The liquid enters or fills the drum through a tube assembly (D) inserted and threaded into the large drum hole. An elbow attachment (E) connects the tube assembly to the hose and attachment assembly (F) which collects or dispels the liquid. Various attachments are available for liquid collection and transfer.



The 316L Stainless Steel Drum Angel Model 35011S includes the Drum Angel unit, crevice tool, heavy duty skimmer tool, floor tool, two (2) straight plastic wands, metal wand for sure with heavy duty skimmer tool, 10' of plastic hose with cuffs and drum adaptor with plastic tube. OPTIONAL all 316L stainless drum adaptor and tool available on request at extra cost. Contact representative.

NOTE: For safety reasons a steel drum with a nominal thickness of 1.5 mm or 16 gauge is recommended as per ANSI standard # MH2-1997.

REVERSIBLE DRUM ANGEL

PART NO.	DESCRIPTION
35011S	Complete Drum Angel Kit for 55-gallon drum
35012S	Complete Drum Angel Kit for 30-gallon drum
35001S	Drum Angel Only

SPECIFICATIONS:

The Drum Angel uses only 18 SCFM (510 SLPM) at 80 PSIG (5.5 bar) and can remove water at 30 US gallons per minute (114 Liters per minute). Standard inlet is 1/4" NPT.

The Drum Angel can be used to clean up many kinds of spills quickly and effectively.



ACCESSORIES

PART NO.	DESCRIPTION
90001	Filter with auto drain
90012	Manual shutoff valve
90005	Oil Removal filter with auto drain
90041	55-gallon Drum Dolly

SPECIALTY SMART N CLEVER™ PRODUCTS™

REDUCE LUBE USE AND SAVE \$\$\$\$

FRIGID-X™ SUB-ZERO VORTEX™ TOOL COOLING MIST SYSTEM

When lubrication is required as well as cooling, lubricating mist can be reduced and cooling enhanced

WHAT ARE THEY - REASONS TO USE

Heavy coolant can be messy, costly and must be carefully maintained. In addition, dry machining is not always possible due to the need for lubrication or additional cooling that cold air alone cannot provide. The unique patent pending low cost **Frigid-X™ Sub-Zero Vortex™ Tool Cooling Mist System** is ideal for such applications. The unit is comprised of a coolant/lubricant suction system which draws any water based liquid into a specially designed delivery system. This cools the liquid to deliver a very cold fluid “mist” at around 40 degrees F (5 degrees C). This cooling allows for as much as 20% less coolant needed, faster production rates and improved quality.

HOW IT WORKS:

The liquid is cooled by means of a small vortex tube that uses around 5 SCFM (142 SLPM) at a maximum of 50 psig (3.5 bar). Pressure can be adjusted up or down slightly to avoid freezing of the liquid or to get a colder temperature. An adjusting screw controls the level of mist required. Liquid is siphoned into the unit using a long plastic tube connected to the main unit. A heavy duty removable magnet secures the **Sub-Zero Vortex™ Tool Cooling Mist System** onto a machine. The magnet can also be removed and mounting holes may be used to secure the mist system. All you need is the liquid to cool and/or lubricate and a small amount of filtered (clean) compressed air at 50 psig (3.5 bar). No electrical components, no expensive pumps or moving parts except for the adjusting screw assures long life and maintenance free operation.



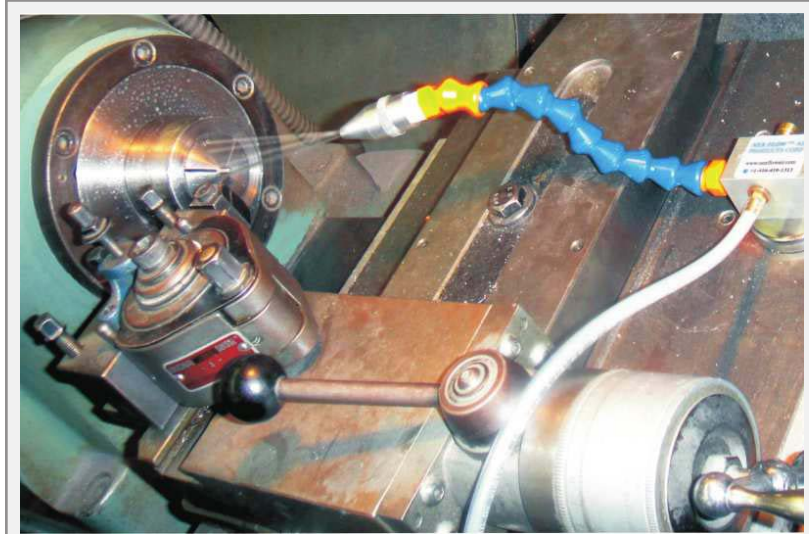
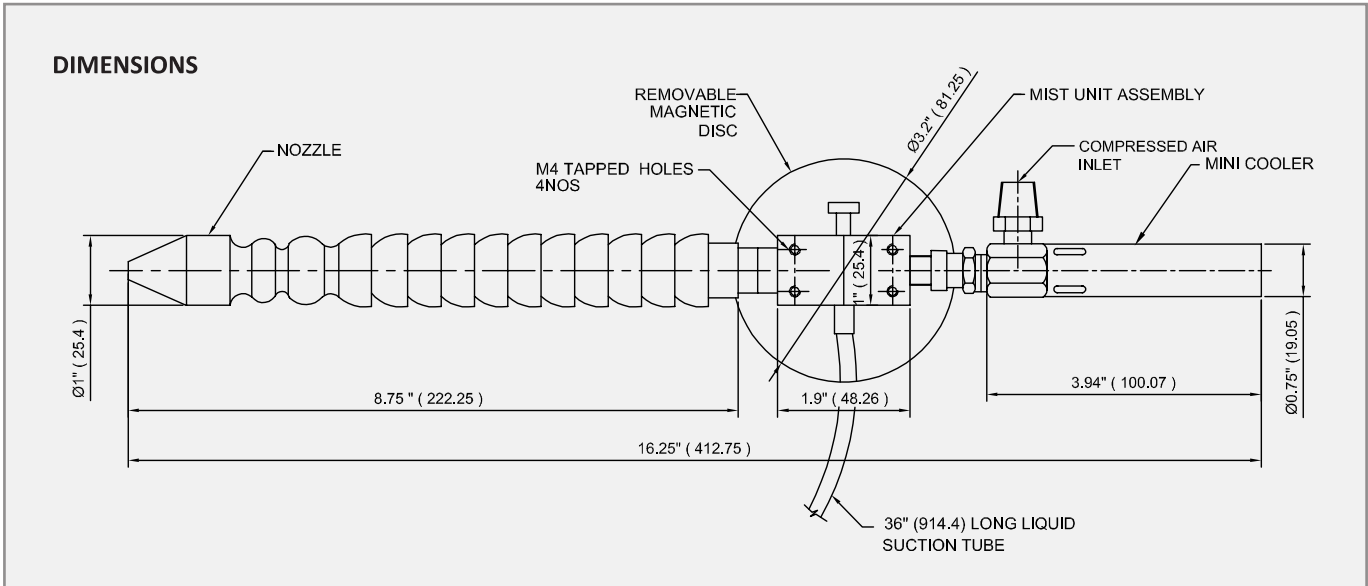
Frigid-X™ Sub-Zero Vortex™ Advantages

- ▶ No electricity required – simplicity in design
- ▶ low cost
- ▶ reduces coolant/lubricant cost using by less fluid
- ▶ improves safety with less mist
- ▶ no moving parts except for an adjusting screw for the fluid
- ▶ small and lightweight, portable
- ▶ maintenance free operation

Frigid-X™ Sub-Zero Vortex™ Advantages

- ▶ Solid Carbide End Mills
- ▶ wherever lubrication is required in machining
- ▶ when cooling is required beyond the capability of cold air alone

SUB ZERO VORTEX™ TOOL COOLING SYSTEM



MIST COOLANT & LUBRICANT

The Frigid-X™ Sub-Zero Vortex™ Tool Cooling Mist System may use any water based material including water itself. Non-water based materials are not recommended as they may dry and clog the system. If you need a coolant/lubricant material Nex Flow can also supply:

PART NO.	DESCRIPTION
58LUBECOOL-1	Coolant/Lubricant in 4 X1 -gallon case (16 L)
58LUBECOOL-5	Coolant/Lubricant in 5 – gallon pail (20L)

SUB ZERO VORTEX™ TOOL COOLING SYSTEM

PART NO.	DESCRIPTION
58208	Sub Zero Vortex™ Mist Tool Cooling SystemC/w Mist Handling unit, Mini Cooler, Magnet
58008	Mist handling Unit only
99929L	Magnet Only
56008F	Mini Cooler Only

ACCESSORIES	
90004	Filter with auto drain
90008	Regulator with gauge
90013	Manual Shutoff valve for vortex mini cooler - 1/8" NPT

FRIGID-X™ TOOL COOLING SYSTEM

STREAM VAC™

Dust Collection and Fume Extraction system for spot applications – portable, low cost, maintenance free

WHAT ARE THEY - REASONS TO USE

The versatile and affordable compact air cleaning system is ideal for the removal of fumes, dust and other air pollution from work stations without the need for heavy and bulky machinery. The **Nex Flow™ Stream Vac™** is an in line air conveyor that when hooked up to a 2" hose and connected to a compressed air line, it will remove up to several hundred cubic feet of air while using only a minimal amount of compressed air, taking with it welding fumes, soldering fumes, particulate from local grinding operations, smoke and particulate from almost any "spot" application.

A safe and improved healthy condition in the workplace improves employee morale, increases worker productivity, decreases absenteeism and even reduces insurance costs in many cases. A cleaner environment can even enhance the performance of machinery and sometimes cut maintenance costs. However, until now there was no low cost solution to enhance the environment.

The low cost, compact and portable, the unit operates utilizing a minimal amount of compressed air. It comes with a magnetic stand to "plug into position" on any magnet accepting metal surface. Simply connect the snap – on collection attachments and clamp a 2" hose on the opposite side, hook up your compressed air and you are set to go.



**IMPROVE YOUR ENVIROMENT
LOW COST, PORTABLE AND ADJUSTABLE**



STREAM VAC™ FEATURES:

- ▶ No moving parts.
- ▶ Driven by air not electricity.
- ▶ Compact and portable - easy to install.

STREAM VAC™ BENEFITS:

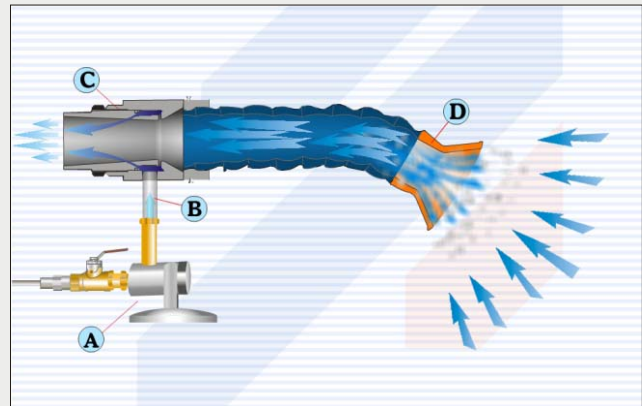
- ▶ Maintenance Free
- ▶ Safe – no electricity
- ▶ Simple to install and use – portable

← Stream Vac™ removing soldering fumes from a circuit board soldering station

SPECIALTY SMART N CLEVER™ PRODUCTS™

STREAM VAC™ - HOW IT WORKS:

The Stream Vac™ is used for the removal of fumes, smoke, dust and particulate at any workbench location with a base that will support the strong magnetic “swivel” base (A) for flexible position of the system. Compressed air is piped in at point (B) on the air amplifier (which is also adjustable to control the suction). Fumes, smoke and particulate enter at (C) and a 2” hose (Customer supplied) at (D) takes the material to a safe location. Three different suction attachments are available. Manual shutoff valve included.



SPECIFICATIONS:

The Stream Vac™ uses only 20 SCFM (567 SLPM) at 80 PSIG (5.5 bar) yet will move up to 16 times that volume of air drawing in fumes, dust, smoke and particulate. Standard inlet is 3/8” NPT. Clean, dry air is recommended and an optional filter with automatic drain is available. Three types of suction attachments are supplied in the package which has a strong magnetic base to secure its position.

The Stream Vac™ includes a Model 40002 adjustable air amplifier, magnetic base, manual shutoff valve, all attachments and fittings, and three inlet attachments: round nozzle, rectangular nozzle and tapered oval nozzle.



← Stream Vac™ used on manufacturing line to remove welding fumes.

PART NO.	DESCRIPTION
40002FMS	Stream Vac™ fume removal system c/w magnetic swivel base, assembly, and hose kit
90004	Filter with auto drain
90005	Oil Removal filter with auto drain

**SPOT FUME REMOVAL FOR
HEAT SEALING, INDUCTION HEATING
PCB REPAIR, BRAZING, SOLDERING**

SPECIALTY SMART N CLEVER™ PRODUCTS™

BLOW DIRT, CHIPS, SCRAP OUT OF DEEP BLIND HOLES IN ONE EASY STEP THAT REALLY WORKS!! IDEAL FOR CLEANING DRILLED HOLES AND DEEP CAVITIES. CAN CLEAN HOLES AS BIG AS 1" (25 mm) DIAMETER AND AS DEEP AS 20 inches (525 mm).

WHAT ARE THEY - REASONS TO USE



Unlike make shift vacuum type systems that are cumbersome and do not always work well, the **X-STREAM™ BLIND HOLE CLEANING SYSTEM** actually works and is specifically designed to remove dirt, debris, chips and scrap from drilled holes, deep containers, and grooves -1" diameter to 20" deep!. Only uses 11 SCFM at 80 PSIG for more shallow holes and only 20 SCFM for very deep holes! The **X-STREAM™ BLIND HOLE CLEANING SYSTEM** is ideal for blowing out and collecting chips, contaminants and debris from deep containers, drilled holes and grooves whereas blow guns can create a potentially hazardous situation with flying debris. The **X-STREAM™ BLIND HOLE CLEANING SYSTEM** creates the ideal blow-off force once the hole adaptor is flush with the hole directing the unit in such a way to dislodge and direct all the debris into the collection bag. All dirt and debris are contained within the unit as it is passed into the reusable collection bag, protecting the operator from any contaminants.



X-STREAM™ BLIND HOLE CLEANING SYSTEM HOW IT WORKS

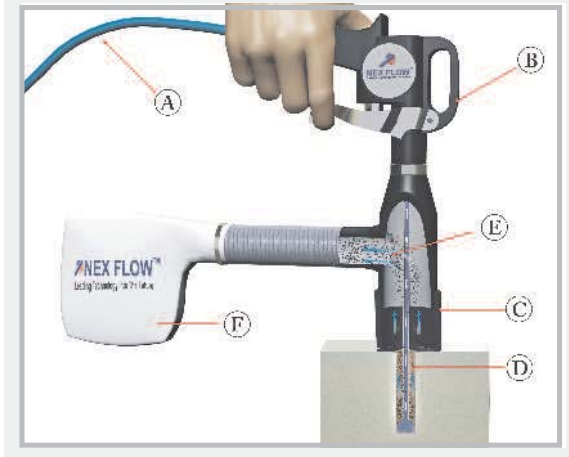
The **X-STREAM™ BLIND HOLE CLEANING SYSTEM** comes complete with hose clamp and material collection bag (F), connected to the Cleaning Gun (B) using a plastic hose connection. Compressed air is supplied into the unit via the customer's air hose (A). The replaceable hole adaptor (E) is connected to the Cleaning Gun. Simply place the hole adaptor (C) over the slot, or hole or container to completely cover the hole. Press the handle on the Cleaning Gun to blow compressed air into the slot, hole or container via the nozzle (D) to remove the debris. Once the bag is filled, remove the bag with the hose clamp, clean and replace

X-STREAM™ BLIND HOLE CLEANING SYSTEM FEATURES

- No moving parts
- Driven by air and not electricity
- Aluminum cast construction
- Lightweight and portable
- Various packages available depending on hole diameter & depth
- Custom designs available

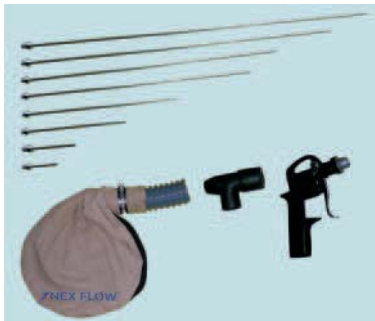
X-STREAM™ BLIND HOLE CLEANING SYSTEM BENEFITS

- Maintenance Free
- Safe when used as directed
- Long Life
- Durable
- Ergonomic
- No Electricity so no shock hazard
- Low Air consumption



BLIND HOLE CLEANING SYSTEM — comes complete with Cleaning Gun, Aluminum cast Hole adaptor, nozzle, collection bag c/w hose clamp and plastic hose connection

PART NO.	DESCRIPTION
48104-16-15	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 50 mm.
48104-20-15	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 50 mm.
48104-25-15	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 50 mm.
48104-16-75	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 90 mm.
48104-20-75	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 90 mm.
48104-25-75	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 90 mm.
48104-16-150	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 165 mm.
48104-20-150	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 165 mm.
48104-25-150	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 165 mm.
48104-16-230	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 245 mm.
48104-20-230	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 245mm.
48104-25-230	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 245 mm.
48104-16-300	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 315 mm.
48104-20-300	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 315 mm.
48104-25-300	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 315 mm.
48104-16-375	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 390 mm.
48104-20-375	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 390 mm.
48104-25-375	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 390 mm.
48104-16-450	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 465 mm.
48104-20-450	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 465 mm.
48104-25-450	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 465 mm.
48104-16-510	Blind Hole Cleaning System for Max. Hole Dia. of 16 mm and hole depth of 525 mm.
48104-20-510	Blind Hole Cleaning System for Max. Hole Dia. of 20 mm and hole depth of 525 mm.
48104-25-510	Blind Hole Cleaning System for Max. Hole Dia. of 25 mm and hole depth of 525 mm.



MODEL	DESCRIPTION
48105	Blind Hole Cleaning System Kit with all Hole Adaptors and Nozzles plus Water Removal Filter c/w auto drain

ACCESSORIES

MODEL	DESCRIPTION
90004	Water Removal Filter c/w Auto Drain
90005	Oil Removal Filter c/w Auto Drain



BLIND HOLE CLEANING COMPONENTS

48102-16	Blind Hole Gun c/w Adaptor for Maximum Hole Diameter of 16 mm – no nozzles
48102-20	Blind Hole Gun c/w Adaptor for Maximum Hole Diameter of 20 mm – no nozzles
48102-25	Blind Hole Gun c/w Adaptor for Maximum Hole Diameter of 25 mm – no nozzles
48100-16	Adaptor Only for Maximum Hole Diameter of 16 mm
48100-20	Adaptor Only for Maximum Hole Diameter of 20 mm
48100-25	Adaptor Only for Maximum Hole Diameter of 25 mm

NOTE: All Standard nozzles below are for minimum inside diameter holes of 7 mm. Special small nozzles for smaller holes and other non-standard cavities available on request.

48103-15	Nozzle Length - 15 mm for hole depth up to 50 mm (11 SCFM @80 PSIG)
48103-75	Nozzle Length - 75 mm for hole depth up to 90 mm (20 SCFM @80 PSIG)
48103-150	Nozzle Length - 150 mm for hole depth up to 165 mm (20 SCFM @80 PSIG)
48103-230	Nozzle Length - 230 mm for hole depth up to 245 mm (20 SCFM @80 PSIG)
48103-300	Nozzle Length - 300 mm for hole depth up to 315 mm (20 SCFM @80 PSIG)
48103-375	Nozzle Length - 375 mm for hole depth up to 390 mm (20 SCFM @80 PSIG)
48103-450	Nozzle Length - 450 mm for hole depth up to 465 mm (20 SCFM @80 PSIG)
48103-510	Nozzle Length - 510 mm for hole depth up to 525 mm (20 SCFM @80 PSIG)
48104-0	Bag with plastic hose and Stainless Steel hose clamp