

Bell Gossett V1001576 Suction Diffuser Plus Instruction Manual

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Bell Gossett V1001576 Suction Diffuser Plus



Introduction and Safety

Introduction

Purpose of this manual: The purpose of this manual is to provide necessary information for:

- Installation
- Operation
- Maintenance

CAUTION: Read this manual carefully before installing and using the product. Improper use of the product can cause personal injury and damage to property, and may void the warranty.

NOTICE: Save this manual for future reference, and keep it readily available at the location of the unit.

Safety

WARNING:

- The operator must be aware of safety precautions to prevent physical injury.
- Operating, installing, or maintaining the unit in any way that is not covered in this manual could cause death, serious personal injury, or damage to the equipment.
- This includes any modification to the equipment or use of parts not provided by Xylem. If there is a question regarding the intended use of the equipment, please contact a Xylem representative before proceeding.
- Do not change the service application without the approval of an authorized Xylem representative.

CAUTION: You must observe the instructions contained in this manual. Failure to do so could result in physical injury, damage, or delays.

Safety terminology and symbols

About safety messages

It is extremely important that you read, understand, and follow the safety messages and regulations carefully before handling the product. They are published to help prevent these hazards:

- · Personal accidents and health problems
- Damage to the product and its surroundings
- Product malfunction

Hazard levels

Hazard level	Indication
DANGER:	A hazardous situation which, if not avoided, will re sult in death or serious injury

Hazard level	Indication
WARNING:	A hazardous situation which, if not avoided, could result in death or serious injury
CAUTION:	A hazardous situation which, if not avoided, could result in minor or moderate injury
NOTICE:	Notices are used when there is a risk of equipment damage or decreased performance, but not person al injury.

Special symbols

Some hazard categories have specific symbols, as shown in the following table.

Electrical hazard	Magnetic fields hazard
Electrical Hazard:	CAUTION:

User safety

General safety rules

These safety rules apply:

- · Always keep the work area clean.
- Pay attention to the risks presented by gas and vapors in the work area.
- Avoid all electrical dangers. Pay attention to the risks of electric shock or arc flash hazards.
- Always bear in mind the risk of drowning, electrical accidents, and burn injuries.

Safety equipment

Use safety equipment according to the company regulations. Use this safety equipment within the work area:

- · Hard hat
- · Safety goggles, preferably with side shields
- · Protective shoes
- Protective gloves
- · Gas mask
- · Hearing protection
- · First-aid kit
- · Safety devices

NOTICE: Never operate a unit unless safety devices are installed. Also see specific information about safety devices in other chapters of this manual.

Electrical connections:

- Electrical connections must be made by certified electricians in compliance with all international, national, state, and local regulations.
- For more information about requirements, see sections dealing specifically with electrical connections.

Precautions before work

Observe these safety precautions before you work with the product or are in connection with the product:

- Provide a suitable barrier around the work area, for example, a guard rail.
- Make sure that all safety guards are in place and secure.
- Make sure that you have a clear path of retreat.
- Make sure that the product cannot roll or fall over and injure people or damage property
- Make sure that the lifting equipment is in good condition and is properly sized for the load to be lifted.
- Use a lifting harness and safety line, as required.
- Allow all system components to cool before you handle them.
- Make sure that the product has been thoroughly cleaned.
- Disconnect and lock out power before you install or service the suction diffuser.
- Check the explosion risk before you weld or use electric hand tools.

Wash the skin and eyes

 Follow these procedures for chemicals or hazardous fluids that have come into contact with your eyes or your skin:

Condition	Action		
Chemicals or hazardous fluids in the eyes	 Hold your eyelids apart forcibly with your fingers. Rinse the eyes with eyewash or running water for at least 15 minutes. Seek medical attention. 		
Chemicals or hazardous fluids on the skin	 Remove contaminated clothing. Wash the skin with soap and water for at least 1 minute. Seek medical attention, if necessary. 		

Protecting the environment

Emissions and waste disposal

- Observe the local regulations and codes regarding:
 - · Reporting of emissions to the appropriate authorities
 - · Sorting, recycling and disposal of solid or liquid waste
 - Clean-up of spills

Exceptional sites

- CAUTION: Radiation Hazard
- Do NOT send the product to Xylem if it has been exposed to nuclear radiation, unless Xylem has been informed and appropriate actions have been agreed upon.

Recycling guidelines

· Always follow local laws and regulations regarding recycling.

Transportation and Storage

Examine the delivery Examine the package

- 1. Examine the package for damaged or missing items upon delivery.
- 2. Record any damaged or missing items on the receipt and freight bill.
- 3. If anything is out of order, then file a claim with the shipping company. If the product has been picked up at a distributor, make a claim directly to the distributor.

Examine the unit

- 1. Remove packing materials from the product. Dispose of all packing materials in accordance with local regulations.
- 2. To determine whether any parts have been damaged or are missing, examine the product.
- 3. If applicable, unfasten the product by removing any screws, bolts, or straps. Use care around nails and straps.
- 4. If there is any issue, then contact a sales representative.

Product Description

General description

- The Suction Diffuser Plus is an angle pattern flow straightening fitting that combines a diffuser-strainer orifice cylinder and full-length straightening vanes to provide ideal flow conditions for the pump suction.
- It saves space and money by eliminating the need for long or short-radius elbows, reducing flanges, and long lengths of pipe leading into the suction side of the pump.
- The Suction Diffuser Plus is designed for direct application to the pump suction and provides ideal flow conditions for the pump, providing NPSH requirements are met.

The main features are:

- The integrated Flow Cone (U.S. Patent #10,240,611) directs flow through the unit and into the pump suction while working with the full-length straightening vanes to create a uniform flow profile.
- The orifice cylinder has a free area equal to five times the cross-section of the pump suction opening and serves as a course strainer to protect the pump from large sediment.
- A disposable fine mesh bronze start-up strainer is provided in conjunction with the orifice cylinder to help protect the pump and clean the system by capturing small particles and other debris during system commissioning.
- The operation chapter of this manual contains data showing pressure drop conditions across the Suction Diffuser Plus both with and without the mesh start-up strainer in place.
- In order to determine the presence of the start-up strainer in a non-intrusive manner, gauge ports, or taps, are located in the inlet and outlet flanges of the Suction Diffuser Plus.

Parts included in the package

- · Suction Diffuser Plus
- · Instruction Manual

Additional parts needed:

- · Flange gaskets
- Nuts and bolts
- Foot support
- · Support leg

WARNING:

 This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

NOTICE:

• This product is not intended for potable water applications.

Declaration of Conformity

- Xylem Inc. declares that the product listed conforms with the essential requirements and provisions of Council
 Directive 97/23/EC, has been subject to internal manufacturing with monitoring of the quality system, and
 conforms to following Sound
- Engineering Practices (SEP) for use with Group 2 (non-hazardous) liquids. The suction diffusers are not suitable for use with Group 1 (hazardous) liquids.

Operation specifications

Туре	Maximum working pressure	Maximum operating temperature
Pump connection flanged or NP T and system connection flange d, NPT, or grooved	175 psi (1207 kPa)	121°C (250°F)
Pump connection was grooved with the adapter flange and the s ystem connection grooved	300 psi (2069 kPa)	121°C (250°F)

Installation

Installation guidelines

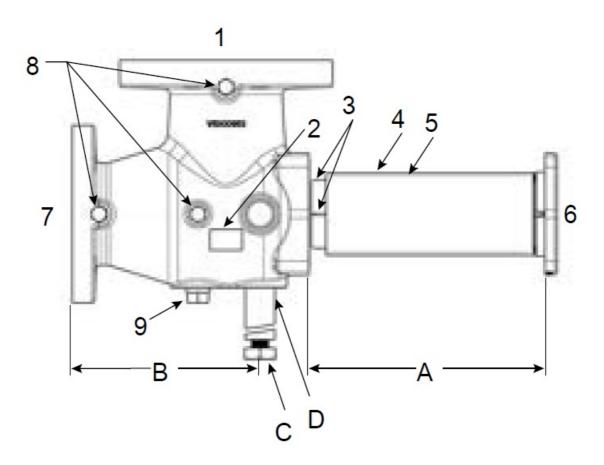
WARNING: All procedures must be performed by qualified personnel.

- Before selecting a location for the pump Suction Diffuser Plus, make sure that there is enough room to remove the Suction Diffuser Plus orifice cylinder. The length requirements are Shown as Dimension "A" in the following table.
- If the pump pad is resilient mounted (rubber or spring), make sure that the pad is large enough to include an adjustable Suction Diffuser Plus support leg.
- A support leg, not furnished, is required between the Suction Diffuser Plus and the support foot, not furnished,
 to support the Suction Diffuser Plus and prevent strain on the pump. Bosses are provided on the Suction
 Diffuser to locate the support leg and facilitate mounting the Suction Diffuser Plus in any of three positions. The
 length of the support leg varies depending on the pump centerline to mounting surface dimension.
- The support leg can be made of Schedule 40 pipe. Refer to column "D" in the following table for the required diameter of the support leg. Final height adjustment is made with the adjustable support foot.
- · When installing flanged model Suction Diffuser Plus, a criss-cross pattern should be used when tightening the

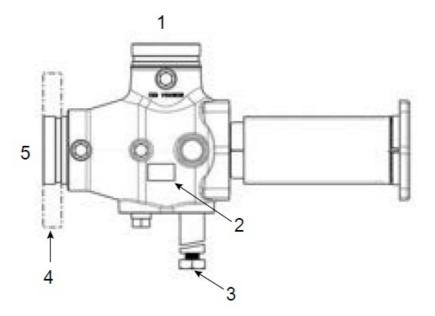
bolts. If PTFE tape is used when installing cast iron NPT Models, be careful not to overtighten the connections. Cracks may develop in the casting.

- Suction Diffuser Plus blowdown is best accomplished with the system connection in the 12 o'clock position.

 Blowdown is less effective with the system connection in the 3 and 9 o'clock positions.
- When insulating the Suction Diffuser Plus after system installation, provisions should be made to permit removal of the start-up strainer, orifice cylinder, and inlet vane assembly.
- It is recommended that a pressure-vacuum gauge be installed in the integral 1/4" NPT tapping to monitor pump inlet pressure.



- 1. System
- 2. Warning label #V56871 installed here. If missing it must be replaced.
- 3. Inlet vanes
- 4. Start-up strainer
- 5. Orifice cylinder
- 6. Cover
- 7. Pump
- 8. Gauge port
- 9. Blowdown plug
 - A = To remove diffuser
 - B = Distance to support leg
 - **C** = Foot support, not furnished
 - **D** = Support leg, not furnished
 - Figure 1: Working pressure 175 PSI (1207 KPa), 121°C (250°F)



- 1. System
- 2. Warning label #V56871 installed here. If missing it must be replaced.
- 3. Foot support, not furnished
- 4. Adapter flange
- 5. Pump

Figure 2: Working pressure 300 PSI (2069 KPa), 121°C (250°F)

	Model Number	Dimensions in inches (mm)			
Size		А	В	Part Number C	Schedule 40
					Diameter D
2×1.5	BA-3	5.15 (130.8)	3.81 (96.8)	A90982	3/4" (19.1)
2×2	BB-3	6.75 (171.5)	4.38 (111.3)	A90982	3/4" (19.1)
2.5×2	CB-3	6.75 (171.5)	4.38 (111.3)	A90982	3/4" (19.1)
2.5×2.5	CC-3	7.63 (193.7)	5.77 (146.6)	A90982	3/4" (19.1)
2.5×2.5 GXF	SDG-2.5	7.63 (193.7)	6.60 (167.6)	A90982	3/4" (19.1)
3×1.5	DA-3	6.63 (168.3)	4.38 (111.3)	A90982	3/4" (19.1)
3×2	DB-3	6.75 (171.5)	4.38 (111.3)	A90982	3/4" (19.1)
3×2.5	DC-3	7.63 (193.7)	5.77 (146.6)	A90982	3/4" (19.1)
4×2.5	EC-3	7.63 (193.7)	5.77 (146.6)	A90982	3/4" (19.1)
3×3	DD-3	8.75 (222.3)	7.02 (178.3)	A90883	1–1/4" (31.8)
3×3 GXF	SDG-3	8.75 (222.3)	7.66 (194.6)	A90883	1–1/4" (31.8)
4×3	ED-3	10.00 (254.0)	7.93 (201.4)	A90883	1–1/4" (31.8)
4×4	EE-3	10.69 (271.5)	7.87 (199.9)	A90883	1–1/4" (31.8)
4×4 GXF	SDG-4	10.69 (271.5)	8.75 (222.3)	A90883	1–1/4" (31.8)
5×4	FE-3	10.69 (271.5)	7.87 (199.9)	A90883	1–1/4" (31.8)
5×5	FF-3	12.84 (326.1)	10.44 (265.2)	A90883	1–1/4" (31.8)
5×5 GXF	SDG-5	12.84 (326.1)	11.05 (280.7)	A90883	1–1/4" (31.8)
6×4	GE-3	10.69 (271.5)	7.87 (199.9)	A90883	1–1/4" (31.8)
6×5	GF-3	13.85 (351.5)	10.46 (265.7)	A90883	1–1/4" (31.8)
6×6	GG-3	14.75 (374.7)	10.99 (279.1)	A90883	1–1/4" (31.8)
6×6 GXF	SDG-6	14.75 (374.7)	12.00 (304.8)	A90883	1–1/4" (31.8)
8×6	HG-3	14.75 (374.7)	10.99 (279.1)	A90883	1–1/4" (31.8)
8×8	HH-3	18.25 (463.6)	12.62 (320.5)	A90883	1–1/4" (31.8)
8×8 GXF	SDG-8	18.25 (463.6)	13.87 (352.3)	A90883	1–1/4" (31.8)
10×8	JH-3	18.25 (463.6)	12.62 (320.5)	A90883	1–1/4" (31.8)
10×10	JJ-3	21.50 (546.1)	15.68 (398.3)	A90883	1–1/4" (31.8)
10×10	SDG-10	21.50 (546.1)	16.02 (406.9)	A90883	1–1/4" (31.8)

• Be aware of water weight in the Suction Diffuser Plus and connected piping when installing your system.

NOTICE:

• Never use the suction diffuser itself as a form of piping support. Support suction diffusers, valves, and piping according to the local building code. Failure to follow these instructions may result in property damage.

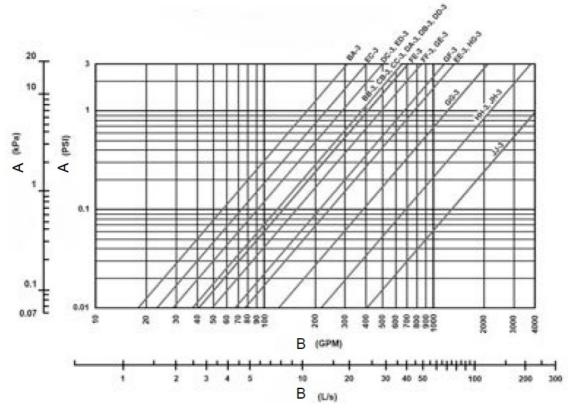
Operation

Operation guidelines Initial operation

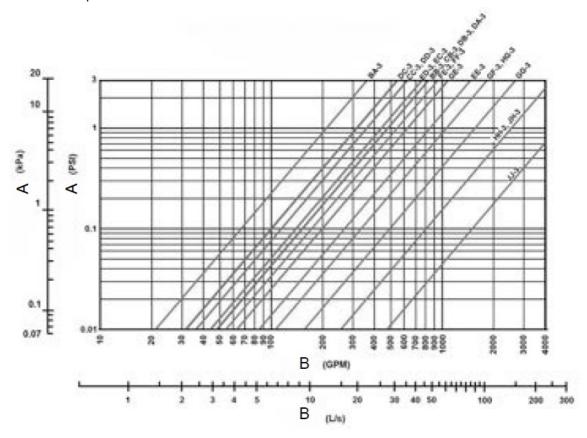
- The start-up strainer must be removed from the Suction Diffuser Plus within 24 to 48 hours after the initial
 circulation and cleaning of the system. If left in place, a noticeable increase in pressure drop will be observed
 as the fine strainer becomes clogged and starts restricting flow through the Suction Diffuser Plus. See Service
 the suction diffuser plus on page 13 in the Maintenance chapter of this manual for instructions for the removal
 of this strainer.
- Measure the pressure drop across the flange gauge ports on the inlet and outlet of the Suction Diffuser Plus
 and, using the corresponding pump flow, compare the pressure drop values with those published in section
 Pressure drop charts on page 11.
- If the measured pressure drop matches the higher pressure drop for the corresponding flow shown in the chart below, this indicates that the start-up strainer is still in place and should be removed. Follow the instructions in Service the suction diffuser plus on page 13 in the Maintenance chapter of this manual to inspect the orifice cylinder and remove any blockage that may be present.
- If the measured pressure drop matches the lower pressure drop value in the chart below, this indicates that the strainer has already been removed.

Pressure drop charts

Performance characteristics measured using integrated PT ports with and without start-up strainer.



- A = Pressure drop
- **B** = Flow
 - Figure 3: With start-up strainer



- A = Pressure drop
- **B** = Flow
 - Figure 4: Without start-up strainer

Continued operation

- During system operation, measure the pressure drop across the inlet and outlet flanges of the Suction Diffuser
 Plus and compare the data with the published pressure drop information to detect if any blockage is present
 within the Suction Diffuser Plus. If the measured data matches the higher pressure drop value for the system
 flow, there may be a blockage inside.
- Follow the instructions in Service the suction diffuser plus on page 13 in the Maintenance chapter of this
 manual to inspect the orifice cylinder and remove any blockage that may be present.
- A pressure gauge installed in one of the Gauge ports of the Suction Diffuser Plus can also warn of a blockage.

NOTICE: Potential pump damage. Blockage in the suction diffuser can cause serious damage due to cavitation within the pump. NPSH requirements for the pump must be met and maintained. Periodically verify the pressure drop across the suction diffuser and inspect the orifice strainer to prevent blockages that can cause cavitation. Failure to follow these instructions could result in property damage.

Maintenance

Inspect the orifice cylinder

Periodic inspection of inlet vanes and cleaning of the orifice cylinder is required to guard against damage to the pump. If damaged, they must be replaced.

Service the suction diffuser plus

Periodically inspect the Suction Diffuser plus for signs of leakage or corrosion.

WARNING:

Risk for property damage, serious personal injury or death. You must replace the suction diffuser if corrosion or leakage is found.

To service and inspect the Suction Diffuser plus, complete the following steps:

- 1. Shut the pump off and isolate the Suction Diffuser plus and pump from the system.
- 2. Allow system temperature to cool to below 38°C (100°F) to reach a safe handling temperature.
 - WARNING: High temperature and pressure hazard. Make sure that system temperature is below 38°C (100°F) and system pressure is reduced and maintained at zero before servicing the unit.
- 3. Open a drain valve in the isolated Suction Diffuser plus piping and allow system pressure to drop to zero. If fluid continues to flow from the drain valve, repack or replace the isolation valves before proceeding.
- 4. Loosen the screws that secure the Suction Diffuser plus cover and break it loose from the body. Make certain all drainage stops before removing the screws and cover.
- 5. Grasp the inlet vane assembly with pliers and pull it out of the Suction Diffuser Plus Body.
- 6. Remove start up strainer if still in place and inspect the orifice cylinder and inlet vane assembly for damage. Replace damaged components with new components as required.
- 7. Inspect the O-ring seal and replace with new component as required.
- 8. Reassemble the Suction Diffuser Plus and secure the cover with a criss-cross tightening pattern.
- 9. Open isolation valves slowly and inspect the gasket area for leaks.
- 10. Return system to normal operation.

Service P/T ports or drain plugs

The P/T readout ports and drain plugs come pre-assembled with a leading industrial thread sealant, Loctite, and are tightened to appropriate levels. Any field adjustment of factory-installed components breaks the original thread seal and could cause leakage. This adjustment necessitates the removal, cleaning, and resealing of those parts per the following instructions.

- 1. Remove the desired component from the Suction Diffuser Plus.
- 2. Clean off all of the old thread sealant using a wire brush and gentle abrasion if necessary. If the component or appears to have been damaged, replace it.
- 3. Starting with the second thread of the male Suction Diffuser Plus component, apply a360° bead of Loctite 567 thread sealant/lubricant as shown. Follow Loctite handling precautions as noted on the product label.





- 4. If Loctite is not available, it is recommended that you use RectorSeal No. 5 pipe thread sealant for all non-glycol-based applications or any PTFE thread sealing tape. Be sure to follow the manufacturer-specific handling precaution and application instructions as noted on the product label.
- 5. Thread the component into the Suction Diffuser Plus until it is finger-tight.
- 6. Apply torque to the following specification:

Size	Туре	Torque, ft-lbs	Torque, Nm
1/4"	P/T Readout Port	9.0 ft-lbs. + 3.0 ft-lbs. / 0	12.2 Nm + 4.1 Nm / 0
3/4"	Drain plug	72.0 ft-lbs. + 21.0 ft-lbs. / 0	97.6 Nm + 28.5 Nm / 0

NOTICE: The use of thread sealants and lubricants on threads also provides lubricity. Overapplication of torque can damage the Suction Diffuser Plus port or component.

Properly assembled Suction Diffuser Plus components will immediately seal to moderate pressure (6 bar [100 PSI] or less). For maximum pressure resistance, allow the Loctite 5671 or RectorSeal No. 52 thread sealant to cure for 24 hours. PTFE tape typically does not require curing to achieve maximum pressure resistance.

Product warranty

Commercial warranty Warranty

For goods sold to commercial buyers, Seller warrants the goods sold to Buyer hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be (i) be built in accordance with the specifications referred to in the quotation or sales form, if such specifications are expressly made a part of this Agreement, and (ii) free from defects in material and workmanship for a period of one (1) year from the date of installation or eighteen (18) months from the date of shipment (which date of shipment shall not be greater than ndythirty (30) days after receipt of notice that the goods are ready to ship), whichever shalloccur first, unless a longer period is specified in the product documentation (the "Warranty"). Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall terminate Seller's obligations under this Warranty and render the Warranty void. Any parts repaired or replaced under the Warranty arewarranted only for the balance of the warranty period on the parts that were repaired or

replaced.

Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that have been:

- (a) repaired by third parties other than Seller or without Seller's written approval;
- (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage;
- (c) used in a manner contrary to Seller's instructions for installation, operation and maintenance;
- (d) damaged from ordinary wear and tear, corrosion, or chemical attack;
- (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow;
- (f) damaged due to a defective power supply or improper electrical protection; or
- (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such products.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, GUARANTEES, CONDITIONS OR TERMS OF WHATEVER NATURE RELATING TO THE GOODS PROVIDED HEREUNDER, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED. EXCEPT AS OTHERWISE REQUIRED BY LAW, BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER FOR THE DEFECTIVE PRODUCT. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS, OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION.

Limited consumer warranty

Warranty. For goods sold for personal, family or household purposes, Seller warrants the goods purchased hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be free from defects in material and workmanship for a period of one (1) year from the date of installation or eighteen (18) months from the product date code, whichever shall occur first, unless a longer period is provided by law or is specified in the product documentation (the "Warranty"). Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product, and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall terminate Seller's obligations under this Warranty and render this Warranty void. Any parts repaired or replaced under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. The Warranty is conditioned on the Buyer giving written notice to Seller of any defects in material or workmanship of warranted goods within ten (10) days of the date when any defects are first manifest.

Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that have been:

- (a) repaired by third parties other than Seller or without Seller's written approval;
- (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage;
- (c) used in a manner contrary to Seller's instructions for installation, operation and maintenance;
- (d) damaged from ordinary wear and tear, corrosion, or chemical attack;

- (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow;
- (f) damaged due to a defective power supply or improper electrical protection; or
- (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such products.

THE FOREGOING WARRANTY IS PROVIDED IN PLACE OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE (1) YEAR FROM THE DATE OF INSTALLATION OR EIGHTEEN (18) MONTHS FROM THE PRODUCT DATE CODE, WHICHEVER SHALL OCCUR FIRST. EXCEPT AS OTHERWISE REQUIRED BY LAW, BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER FOR THE DEFECTIVE PRODUCT. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. To make a warranty claim, check first with the dealer from whom you purchased the product or visit <u>www.xyleminc.com</u>. for the name and location of the nearest dealer providing warranty service.

- 1. The tissue in plants that brings water upward from the roots;
- 2. a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor, and return water to the environment, in public utility, industrial, residential, and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric, and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions. For more information on how Xylem can help you go to www.xylem.com

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Documents / Resources



Bell Gossett V1001576 Suction Diffuser Plus [pdf] Instruction Manual V1001576 Suction Diffuser Plus, V1001576, Suction Diffuser Plus, Plus

References

• User Manual

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