

3/4- OR 1/2-INCH NPT-ARMORED PURGE METER WITH FLOW SWITCH

GENERAL

This Instruction Sheet covers USFilter's Wallace & Tiernan Products (USF/W&T) Armored Purge Meters with Flow Switch. These meters provide flowrate indication for purging, sampling, flushing, etc., in gas or liquid service. Instructions for the Flow Switch, either General Purpose or Hazardous Location types, will be found in separate Instruction Sheets/Books packed with this sheet.



WARNING: TO AVOID POSSIBLE SEVERE PERSONAL INJURY OR DAMAGE TO THE EQUIPMENT THROUGH MISUSE, THIS EQUIPMENT SHOULD BE INSTALLED, OPERATED, AND SERVICED ONLY BY TRAINED, QUALIFIED PERSONNEL WHO ARE THOROUGHLY FAMILIAR WITH THE ENTIRE CONTENTS OF THIS INSTRUCTION BOOK.

INSTALLATION

The meter is shipped from the factory ready for use in the service for which it was ordered. maximum pressure rating is 1500 psi. Temperature operating limits for O-rings are Buna-N: 250°F; TFE: 400°F; 321 SS: 800°F. Note the direction of flow marked on the body. Install the meter vertically (upright) in a horizontal line. The flow switch and meter scale may be rotated to face any direction. To accomplish this, unscrew the acorn nut on top of the flow switch so that flow switch may be rotated. Rotate tube guard and scale so that scale is visible.



WARNING: AFTER INSTALLATION, GRADUALLY PRESSURIZE THE METER. CHECK FOR AND CORRECT ANY LEAKAGE. OBSERVE NORMAL SAFETY PRECAUTIONS RECOMMENDED WHEN WORKING WITH HIGH PRESSURES AND/OR HAZARDOUS MATERIALS. PRIOR TO DISASSEMBLY, RELIEVE ALL PRESSURE FROM METER OBSERVING THE SAME NORMAL SAFETY PRECAUTIONS.

REPLACEMENT OF PLUG & MAGNET UNIT

- a. It may be necessary to either disconnect the wiring or to remove the flow switch.
- b. 1/2" METER: Loosen and remove the tube unit extension and attached parts.
3/4" METER: Unscrew four screws and lift off the tube unit extension and attached parts.
- c. Substitute the new plug float and magnet for the old one. If the meter is to be used for gas service, be sure the snubber washer is installed.

ARMORED PURGE METER

- d. Remove the O-ring at the bottom of the tube unit extension and then screw or position the extension on the body. Check the zero reading. If necessary, adjust the magnet in the plug and magnet unit up or down to obtain a zero reading.

NOTE: If O-rings are swollen, cracked or hardened, remove and replace.

- e. Replace the O-ring at the bottom of the tube unit extension and reassemble the meter.
- f. If the range or type of service of the meter was changed, replace the factor tag by one for the new condition (consult and obtain from USF/W&T or dealer).

PARTS ORDERING INFORMATION

When ordering parts always note and refer to the serial number on the flow switch. Do not order by item number but use instead the USF/W&T part number shown on the data sheet and on Dwgs. 510.200.004.001 and 510.200.005.001.

Material of construction of wetted parts is shown on parts drawing. This information in combination with that provided in Cat. No. 500.001, VAREA-METER CHEMICAL COMPATIBILITY AND MATERIAL SELECTION GUIDE (available from your dealer) will be useful if alternate application conditions are being considered.



WARNING: TO ENSURE PROPER AND SAFE OPERATION OF THIS EQUIPMENT, USE ONLY USF/W&T LISTED PARTS (EXCEPT COMMERCIALY AVAILABLE PARTS AS IDENTIFIED ON PARTS LISTS BY COMPLETE DESCRIPTION). THE USE OF UNLISTED PARTS CAN RESULT IN EQUIPMENT MALFUNCTIONS CAUSING POSSIBLE SEVERE PERSONAL INJURY.

WARNING SUMMARY

The following label has been attached to the equipment:

NP2568: TO AVOID POSSIBLE PERSONAL INJURY OR DAMAGE TO EQUIPMENT. READ INSTRUCTION BOOK BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT.

ARMORED PURGE METER

WARRANTY

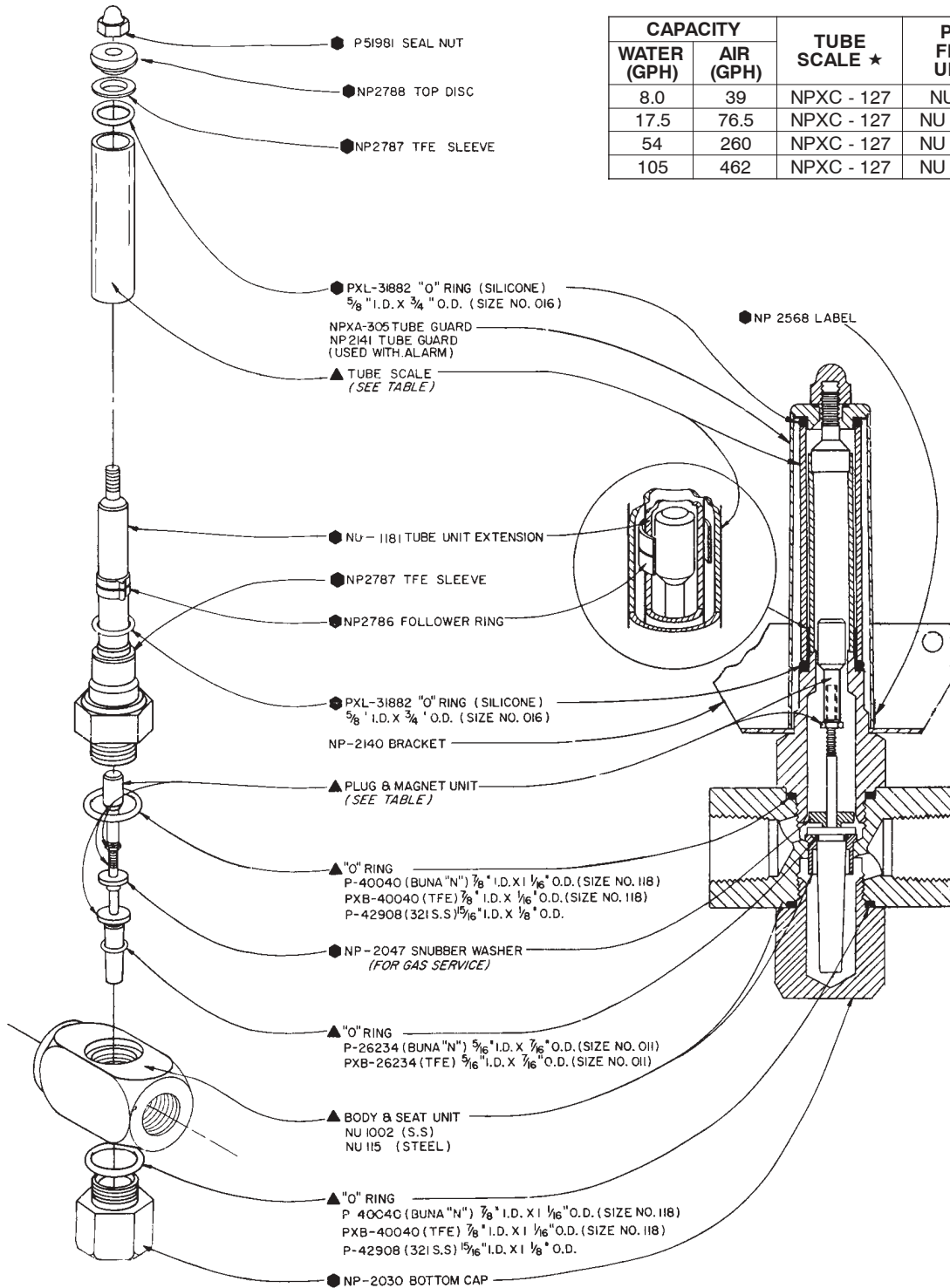
Seller warrants for a period of one year after shipment that the equipment or material of its manufacture is free from defects in workmanship and materials. Corrosion or other decomposition by chemical action is specifically excluded as a defect covered hereunder, except this exclusion shall not apply to chlorination equipment. Seller does not warrant (a) damage caused by use of the items for purposes other than those for which they were designed, (b) damage caused by unauthorized attachments or modifications, (c) products subject to any abuse, misuse, negligence or accident, (d) products where parts not made, supplied, or approved by Seller are used and in the sole judgement of the Seller such use affects the products' performance, stability or reliability, and (e) products that have been altered or repaired in a manner in which, in the sole judgement of Seller, affects the products' performance, stability or reliability. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, AND THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS OF THE MATERIAL OR EQUIPMENT FOR ANY PARTICULAR PURPOSE EVEN IF THAT PURPOSE IS KNOWN TO SELLER. If Buyer discovers a defect in material or workmanship, it must promptly notify Seller in writing; Seller reserves the right to require the return of such defective parts to Seller, transportation charges prepaid, to verify such defect before this warranty is applicable. In no event shall such notification be received by Seller later than 13 months after the date of shipment. No action for breach of warranty shall be brought more than 15 months after the date of shipment of the equipment or material.

LIMITATION OF BUYER'S REMEDIES. The EXCLUSIVE REMEDY for any breach of warranty is the replacement f.o.b. shipping point of the defective part or parts of the material or equipment. Any equipment or material repaired or replaced under warranty shall carry the balance of the original warranty period, or a minimum of three months. Seller shall not be liable for any liquidated, special, incidental or consequential damages, including without limitation, loss of profits, loss of savings or revenue, loss of use of the material or equipment or any associated material or equipment, the cost of substitute material or equipment, claims of third parties, damage to property, or goodwill, whether based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory; provided, however, that such limitation shall not apply to claims for personal injury.

Statements and instructions set forth herein are based upon the best information and practices known to Wallace & Tiernan, Inc., but it should not be assumed that every acceptable safety procedure is contained herein. Of necessity this company cannot guarantee that actions in accordance with such statements and instructions will result in the complete elimination of hazards and it assumes no liability for accidents that may occur.

ARMORED PURGE METER

CAPACITY		TUBE SCALE ★	PLUG FLOAT UNIT *
WATER (GPH)	AIR (GPH)		
8.0	39	NPXC - 127	NU 1017
17.5	76.5	NPXC - 127	NU 1020 *
54	260	NPXC - 127	NU 1021 *
105	462	NPXC - 127	NU 1022 *



NOTE: * SNUBBER WASHER MUST BE INSTALLED ON FLOAT FOR GAS SERVICE BUT NOT FOR LIQUID SERVICE.
 ★ SCALE IS CALIBRATED IN % AND GPH. ● PART OF G1944. ▲ SHIPPING ORDER ITEMS.

WHEN ORDERING MATERIAL, ALWAYS SPECIFY MODEL AND SERIAL NUMBER OF APPARATUS.

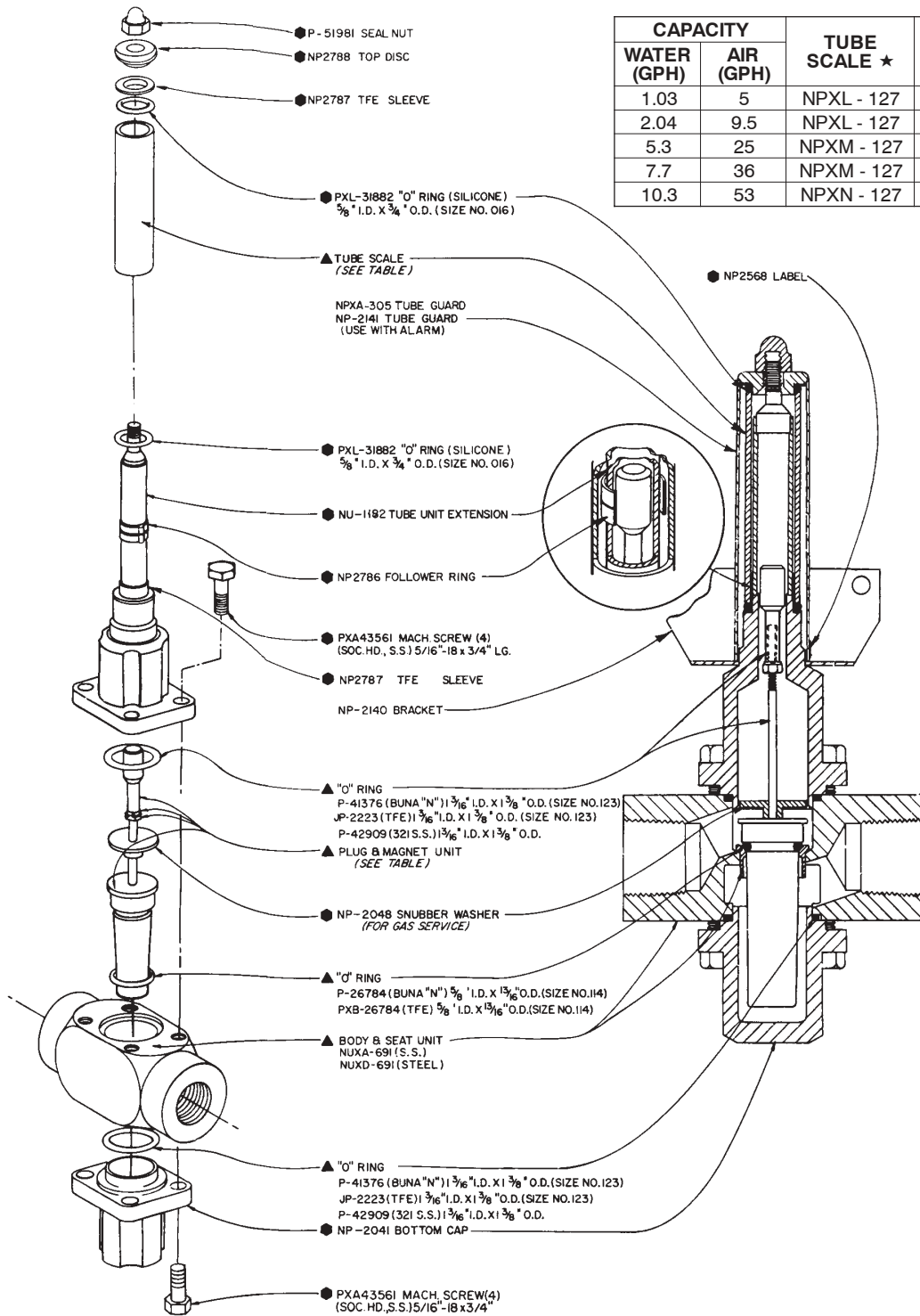
1/2" ARMORED PURGE METER - PARTS
As Used With Flow Switch

510.200.004.001

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ARMORED PURGE METER

CAPACITY		TUBE SCALE ★	PLUG FLOAT UNIT *
WATER (GPH)	AIR (GPH)		
1.03	5	NPXL - 127	NU 1023
2.04	9.5	NPXL - 127	NU 1024
5.3	25	NPXM - 127	NU 1025
7.7	36	NPXM - 127	NU 1026
10.3	53	NPXN - 127	NU 1027



NOTE: * SNUBBER WASHER MUST BE INSTALLED ON FLOAT FOR GAS SERVICE BUT NOT FOR LIQUID SERVICE.
 ★ SCALE IS CALIBRATED IN % AND GPH. ● PART OF G1945. ▲ SHIPPING ORDER ITEMS.

WHEN ORDERING MATERIAL, ALWAYS SPECIFY MODEL AND SERIAL NUMBER OF APPARATUS.

3/4" ARMORED PURGE METER - PARTS
 As Used With Flow Switch

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