

Overview

This instruction sheet describes gauge replacement and calibration.

Kit Contains

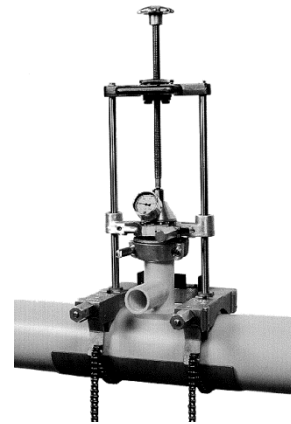
Qty	Part Number	Description
1	ASW13102,03,04,05	Sidewinder Gauge Kit
This Instruction Sheet		

Tools Required:

- Teflon Tape
- Adjustable or Open End Wrench
- 2" - 4" IPS Polyethylene Pipe
- Saddle fitting

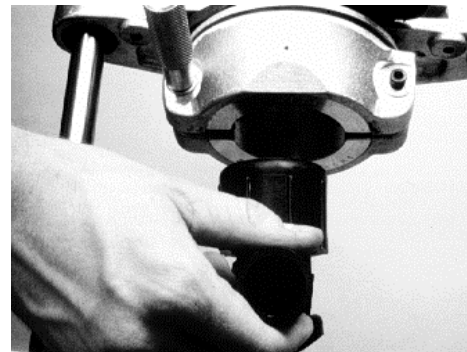
Procedure:

1. Attach the Sidewinder to a 2 – 4" IPS polyethylene pipe.



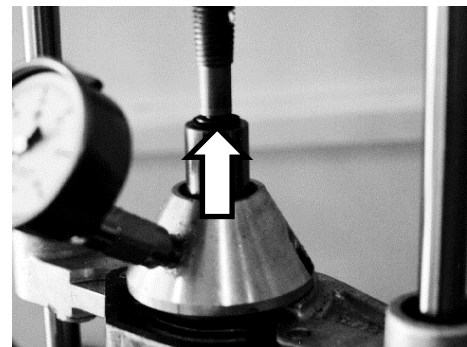
PH00783-5-9-96

2. Load saddle fitting into pivot release master.



PH00786-4-3-96

3. Loosen drive screw until piston is as far out of the load cell as possible.

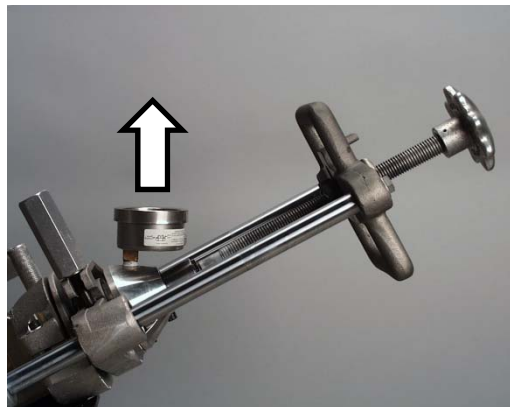


PH01113-3-14-97

Sidewinder® Gauge Replacement

ASW13102, ASW13103
ASW13104, ASW13105

4. Tilt the Sidewinder so that the gauge port is facing upward.



PH01522-3-19-99

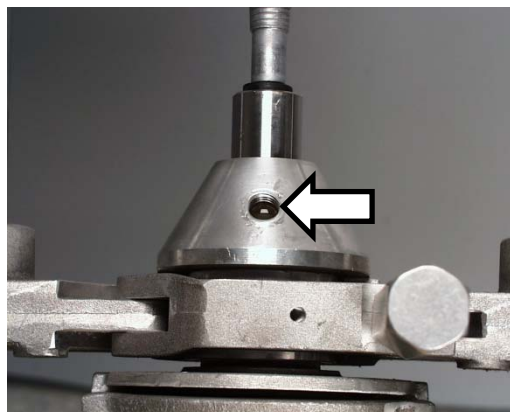
5. Use wrench to remove existing gauge.



PH01527-3-19-99

6. Fluid level should be approximately 1/2" from the top of the port.

NOTICE: If the fluid is too low, more force than necessary will be needed to operate the machine. If the fluid level is high, it will create some pressure on the gauge and it will not go to zero.



PH01526-3-19-99

7. Install replacement gauge with Teflon tape applied to threads. Check to see if the needle indicates pressure as the gauge is being screwed on. If so, remove the gauge and use a clean rag to remove some fluid. Repeat until no pressure is indicated while screwing gauge on.

NOTICE: When applying Teflon tape, make sure that tape does not overhand the end of the pipe threads. The threads will cut off the tape and the small pieces will plug the orifice of the gauge.

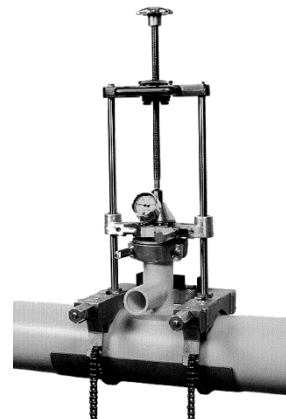


PH01524-3-19-99

Sidewinder® Gauge Replacement

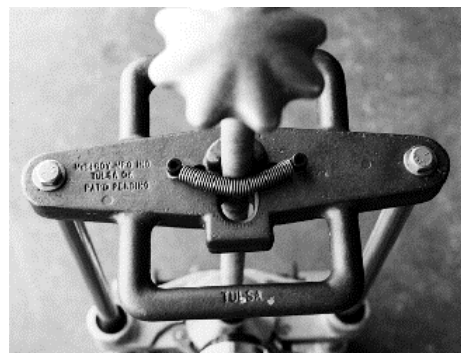
ASW13102, ASW13103
ASW13104, ASW13105

8. When the gauge is installed, position the Sidewinder in the vertical position.



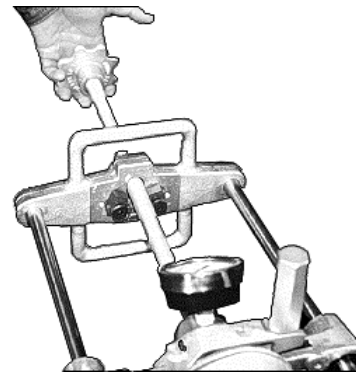
PH00783-5-9-96

9. Disengage drive screw from threads and lower the saddle fitting onto the pipe.



PH00831-5-3-96

10. Turn the drive screw to move the piston down.



PH00785-4-3-96

11. The gauge should indicate pressure within a half turn of the drive screw knob. If more than a half turn is made with the knob and no pressure is indicated, the gauge needs to be removed and more fluid added. Always tilt the Sidewinder back when adding fluid. Fluid needs to be added until pressure is indicated within the first half turn of the drive screw knob.

If the gauge indicates pressure when the piston is all the way out, then too much fluid was added and some needs to be removed.

NOTICE: Applying excess pressure will permanently damage the gauge. Never apply pressure that is greater than the maximum indication on the pressure gauge.



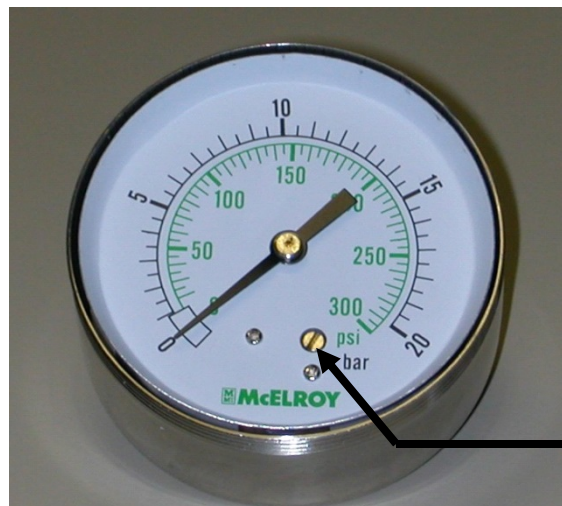
PH01521-3-19-99

Sidewinder® Dry Gauge Calibration Externally Adjustable Zero Pointer**Tools Required:**

- 1) Pressure calibration equipment
- 2) Adjustable or open end wrench
- 3) Flat head screwdriver
- 4) Pliers

1. Attach gauge to pressure testing apparatus.
2. Turn bezel of gauge counterclockwise approximately 1/4 turn or unscrew depending upon gauge design and remove bezel.
3. With no pressure applied, verify that the pointer is located inside the zero box area. If the pointer is not within the box, rotate the external adjustment screw shown in Figure 1 until the pointer is in the center of the box area as shown.
4. Using pliers, pull the needle off the gauge, making sure to pull the needle straight out.
5. Pressurize calibration equipment to a major increment in the operating range of the Sidewinder. Place the needle on the gauge at the known increment, making sure the needle has snapped into place.
EXAMPLE: For a Sidewinder with a 300 psi gauge using fittings that require 250 psi, pressurize calibration equipment to 250 psi and adjust the needle to 250 psi.
6. Replace bezel.

NOTICE: Applying excess pressure will permanently damage the gauge. Never apply pressure that is greater than the maximum indication on the pressure gauge. The calibration procedure will not correct a damaged gauge.

**Figure 1****External Adjustment
Screw**

Sidewinder® Dry Gauge Calibration – Non Externally Adjustable**Tools Required:**

- 1) Pressure calibration equipment
- 2) Adjustable or open end wrench
- 3) Pliers

1. Attach gauge to pressure testing apparatus.
2. Turn bezel of gauge counterclockwise approximately 1/4 turn or unscrew depending upon gauge design and remove bezel and glass top.
3. Using pliers, pull the needle off the gauge, making sure to pull the needle straight out.
4. Pressurize calibration equipment to a major increment in the operating range of the Sidewinder. Place the needle on the gauge at the known increment, making sure that the needle has snapped into place.
EXAMPLE: For a Sidewinder with a 1000 psi gauge using fittings that require 600 psi, pressurize calibration equipment to 600 psi and place needle pointing at 600 psi.
5. Replace bezel.

NOTICE: Applying excess pressure will permanently damage the gauge. Never apply pressure that is greater than the maximum indication on the pressure gauge. The calibration procedure will not correct a damaged gauge.

INSTRUCTION SHEET REVISION HISTORY LISTING

PART NO: SW1310101

DESCRIPTION: Sidewinder GAUGE REPLACEMENT

ORIGINATOR: **CHECK:** **APPRV'D:** **RELEASED:**

<u>CHK/APR</u>	<u>REV</u>	<u>DATE</u>	<u>BY</u>	<u>DESCRIPTION OF REVISION</u>
SRB/JBC	B	8/23/18	RLT	REVISED TO UPDATE SHEETS TO MEET CURRENT McELROY STANDARDS. INCORPORATED INSTRUCTION SHEETS SW1310401 & SW1310601 INTO THIS SHEET.