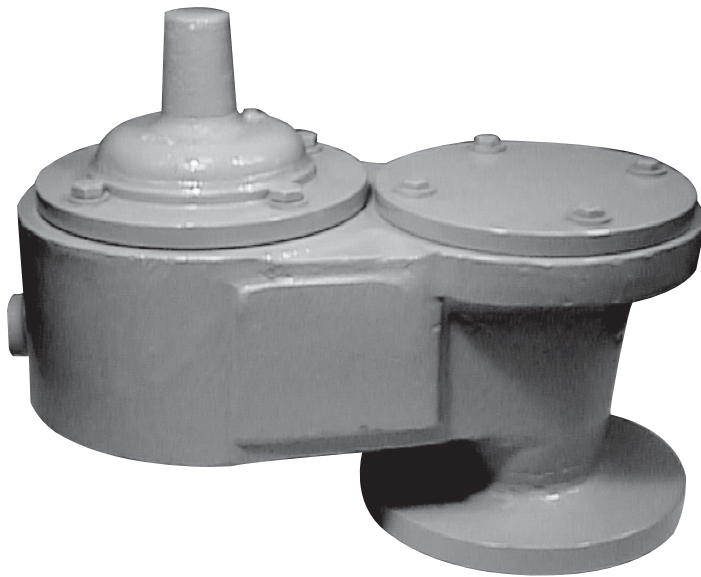




ANDERSON GREENWOOD WHESSOE 4110A VACUUM RELIEF VALVE INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

Before installation, these instructions must be carefully read and understood.



SAFETY PRECAUTIONS

READ AND UNDERSTAND THIS INSTRUCTION MANUAL BEFORE INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON WHESSOE 4110A VACUUM RELIEF VALVE. FOLLOW ALL PRECAUTIONS AND WARNINGS NOTED HEREIN WHEN INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THIS EQUIPMENT.

SAFETY PRECAUTION DEFINITIONS

CAUTION

Damage to equipment may result if this precaution is disregarded.

WARNING

Direct injury to personnel or damage to equipment that can cause injury to personnel may result if this precaution is not followed.

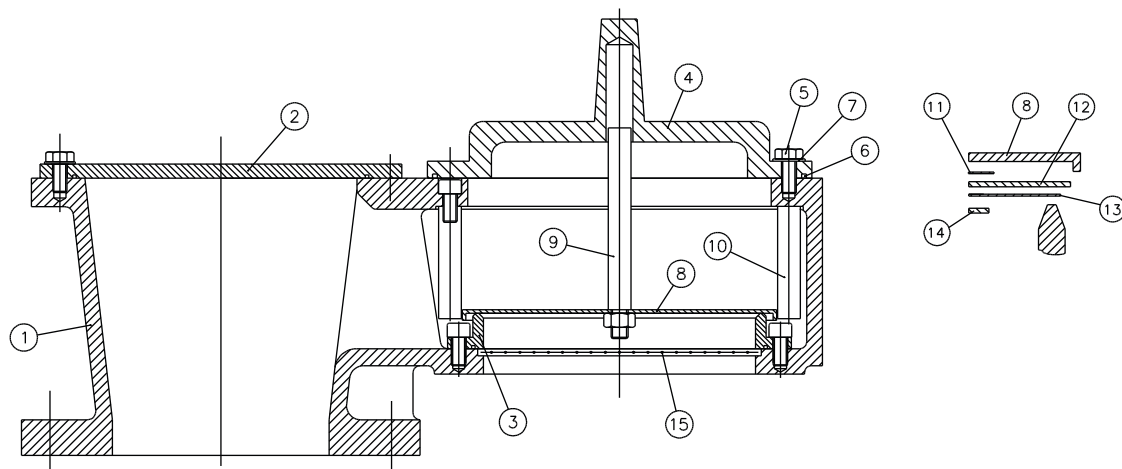
NOTE

This manual is issued for guidance only and does not affect our standard terms and conditions and our Product Limited Warranty, all of which are available upon request.

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INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

FIGURE 1
4110A Assembly Drawing



PARTS LIST

Item	Description	Aluminum	Carbon Steel	Stainless Steel	Cast Iron
1	Valve Body	Aluminum	W.C.B.	316 Stainless Steel	Cast Iron
2	Blanking Plate	Aluminum	Carbon Steel	316 Stainless Steel	Carbon Steel
3	Removable Seat	Aluminum	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
4	Valve Cover	Aluminum	W.C.B.	316 Stainless Steel	Cast Iron
5	Cover Screws	Zinc Plated Steel	Zinc Plated Steel	18/8 Stainless Steel	Zinc Plated Steel
6	O-ring Seal	Nitrile	Nitrile	Nitrile	Nitrile
7	Sealing Washers	G Fiber	G Fiber	G Fiber	G Fiber
8	Pallet	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
9	Pallet Stem	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
10	Pallet Guide Posts	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
11	Spacer Disc	Non Asbestos	Non Asbestos	Non Asbestos	Non Asbestos
12	Diaphragm Backing Disc	Non Asbestos	Non Asbestos	Non Asbestos	Non Asbestos
13	Diaphragm	PTFE	PTFE	PTFE	PTFE
14	Diaphragm Support Disc	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
15	Screen	Galvanized Steel	Galvanized Steel	18/8 Stainless Steel	Galvanized Steel

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INSTALLATION

4110A Vacuum Relief Valves must be mated with the appropriate flange.

1. These valves must be gasketed and bolted to a flat machined horizontal flange, bolts to be tightened uniformly to ensure a good seal.
2. This valve does not contain any internal packing. Therefore internal checks should not be necessary.
3. It is recommended that carbon steel and cast iron valves be given a coat of paint immediately after installation is complete. Apply paint to external surfaces only.

MAINTENANCE: (DURING ATMOSPHERIC VENTING PERIOD)

WARNING

Relief valve must be isolated from tank pressure before servicing. All gas must be blocked and pressure safely vented.

Wear appropriate gloves and/or breathing apparatus if hazardous vapours are present.

1. Remove cover (item 4) inspect O-ring for damage and replace if necessary.
2. Remove pallet assembly to inspect pallet seating for wear and replace if necessary.
3. To replace damage/worn items from pallet assembly (see recommended spares)
 - a. remove nut from pallet stem, remove support disc, diaphragm and backing disc
 - b. clean pallet surface and threads
 - c. replace with new parts
 - d. reassemble in reverse order
4. Inspect valve seat (item 3) for wear and regrind or replace where necessary.
5. Clean seating surface thoroughly with suitable solvent and apply a thin smear of light spindle oil.
6. Generally clean inside of valve, remove all foreign matter and repaint exterior where possible to prevent corrosion.
7. Replace pallet (with lead disc if fitted)
8. Replace valve cover and replace sealing washers if necessary, secure with screws.
9. It is not necessary to remove the blanking plate (item 2).

CAUTION

The end of the pallet stem must engage the stem guide in the cover to ensure correct seating and valve operation.

NOTE

The efficiency of the valve depends on maintaining good seating surfaces, therefore, maintenance periods should be adjusted to suit service conditions.

SPARES

When spare parts are required the customer should quote the valve size, serial number, the item number and the material of the parts required.

The valve size and serial number can be obtained from the valve identification label. The item number and description can be obtained from the arrangement on page 2.

Care should be taken to quote the correct material as the materials quoted are for non-hazardous conditions.

RECOMMENDED SPARES

1. Item 6 Nitrile O-ring
2. Item 7 Sealing Washers
3. Item 11 Spacer Disc (Non-Asbestos Fiber)
4. Item 12 Diaphragm Backing Disc (Non-Asbestos Fiber)
5. Item 13 Diaphragm PTFE

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