

MSP3 Filter Element Change



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Introduction

See Figure 1. This instruction sheet applies to material filters with bleed valves. The filters are typically mounted on a separate stand and are used with Rhino[®] bulk unloaders.

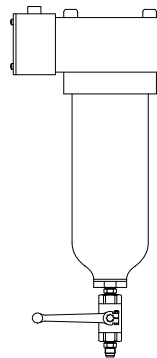


Figure 1 Filter Assembly with Bleed Valve

Installation

Remove the Filter Element and O-Rings

1. See Figure 2. Close the material supply ball valves on either side of the filter, coming from the unloaders to the filter stand.
2. Disconnect the cable from the cable connector (11).
3. Place a five-gallon bucket under the filter bleed valve (8). Open the filter bleed valve to relieve material pressure. Close the filter bleed valve when material no longer bleeds out under pressure.
4. Remove the fitting (6) from the filter bowl. Remove the O-ring (7) from the fitting. Discard the O-ring.
5. Support the filter bowl (5). Using a 1/2-in. hex wrench, remove the four cap screws (1). Remove the filter bowl and filter bowl O-ring (2). Discard the O-ring.
6. Remove the filter element (4). Clean the filter bowl and filter head (9).

Install a New Filter Element and O-Rings

1. See Figure 2. Install new filter element (4) on the bottom of the filter head (9).
2. Install a new O-ring (2) onto the filter bowl (5). Support the filter bowl (5) in place at the bottom of the filter head (9). Install the four socket head cap screws (1) and tighten to 325 N•m (240 ft-lb).
3. Install a new O-ring (7) onto the fitting (6). Install the fitting into the filter bowl (5) and tighten securely.
4. Open the material supply ball valves on either side of the filter.
5. Connect the cable to the cable connector (11).
6. Inspect for leaks.

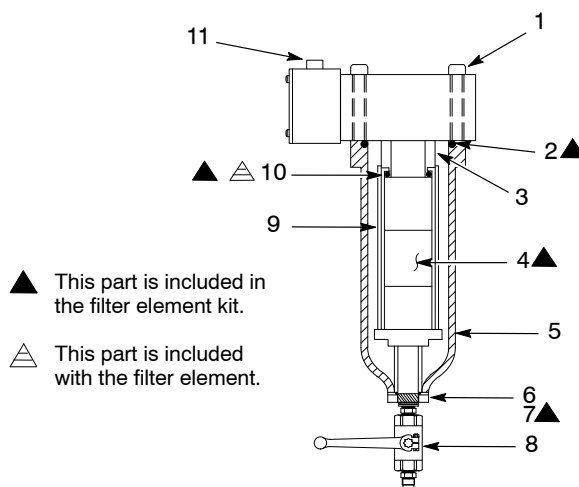


Figure 2 Filter Components

Filter Element Kits

Item	Part	Description	Quantity
—	1606415	Kit, filter indicator	—
—	1606416	Kit, filter indicator electric	—
—	1033895	20 mesh filter element kit	—
—	1033896	30 mesh filter element kit	—
—	1041357	40 mesh filter element kit	—
—	1033897	60 mesh filter element kit	—
2	942420	• O-ring, Viton [®] , -242	1
4	-----	• Filter element, mesh wire	1
7	945039	• O-ring, Viton, -912	1
10	1041272	• O-ring, Viton, -131	1

See Figure 2. Item 10 is included with the filter element (item 4) and each kit.

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