



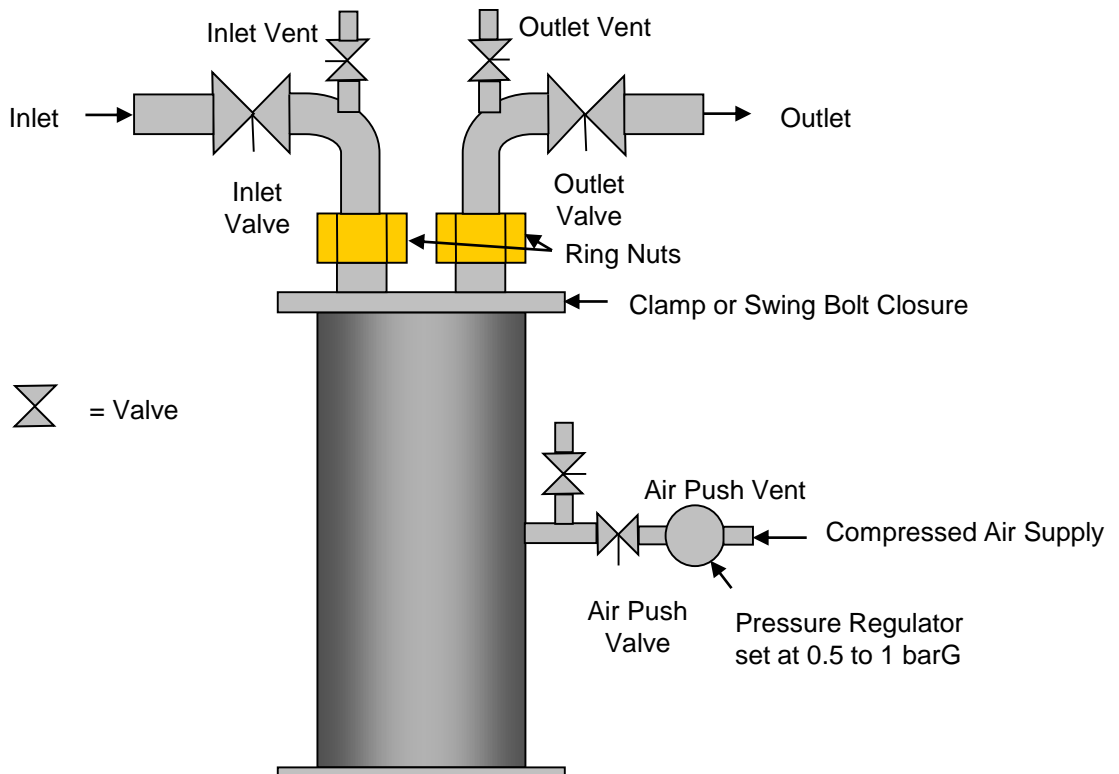
JNC Filter

INSTALLATION AND OPERATION INSTRUCTIONS FOR JNC QUICK-PACK SYSTEM

Vents are to equalise pressure with atmosphere.

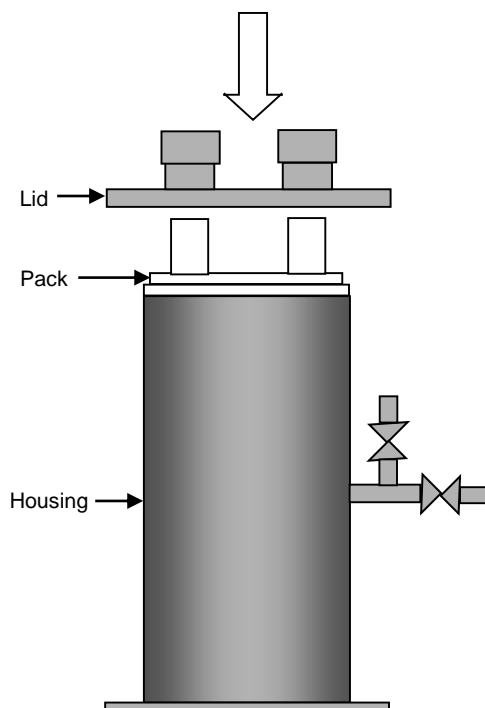
Pressure gauges connected to inlet and outlet ports will facilitate monitoring of differential pressure (difference between gauges) inferring filter element condition and better control of system.

Air Push is for product recovery.



Example of Housing and Connections

Installation



Prior to working, please read below sentences.

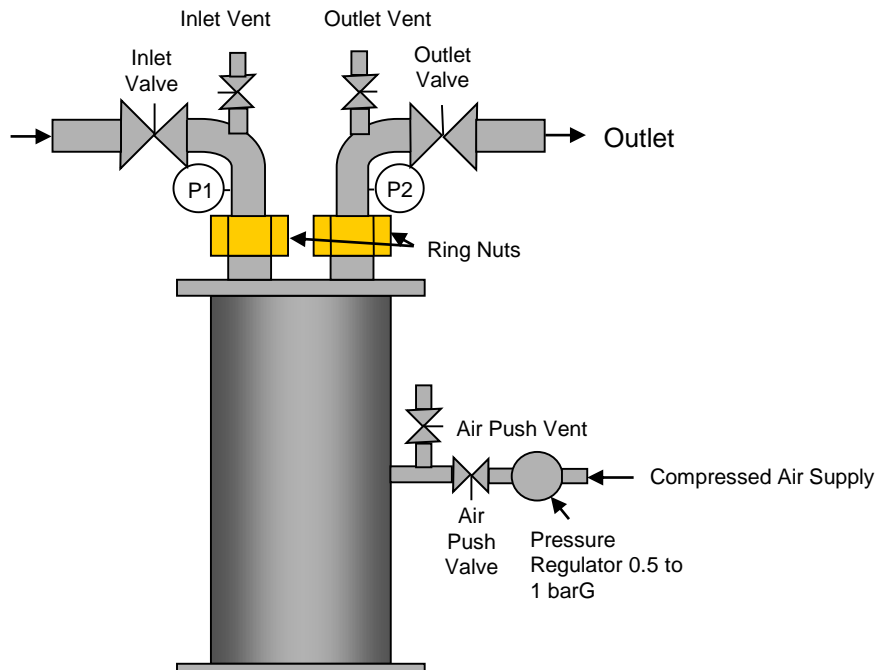
Do not use the system if the product is damaged or if there are any system concerns.

Ensure system pressure has been equalized with atmospheric pressure before opening housing and that appropriate personal protective equipment is worn.

Do not use housing without correctly sized Quick-Pack inside. Shorter packs can be used in taller housings with volume reducer installed.

1. Open housing lid.
2. Check pack is undamaged & remove caps.
3. Install pack (including liner) into housing, ensure top ring is evenly & squarely bedded against top of housing shell.
4. Close lid & tighten clamp or bolted closure to recommended torque.
5. Connect Inlet and Outlet to process lines with flexible hoses.
6. Tighten Ring Nuts to seal pack connections (no elastomeric o-rings – PP compression sealing is used).
7. Connect Air Push to compressed air supply via pressure regulator set to 0.5-1barG.

Start-Up

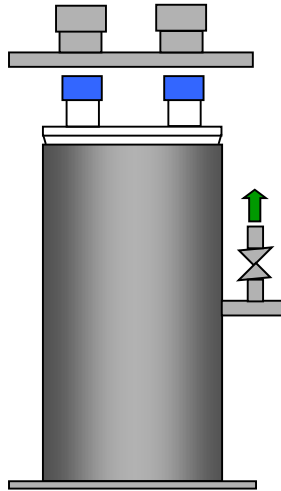


1. Ensure Inlet, Outlet, Air Push & all vents are closed initially.
2. Open Air Push Vent to allow liner to expand and expel air between liner and housing shell.
3. Slowly open Inlet to pressurize housing to system pressure (avoid causing fluid hammer or dynamic stress by opening valve gradually).
4. Open Outlet Vent to vent the housing.
5. Close Outlet Vent as soon as product comes out of vent.
6. Check and re-tighten ring nuts to ensure proper sealing now that the system is pressurized.
7. Open Outlet slowly to allow process fluid to flow.
8. Close Air Push Vent to avoid liner extruding into air push line & chafing.

Operation

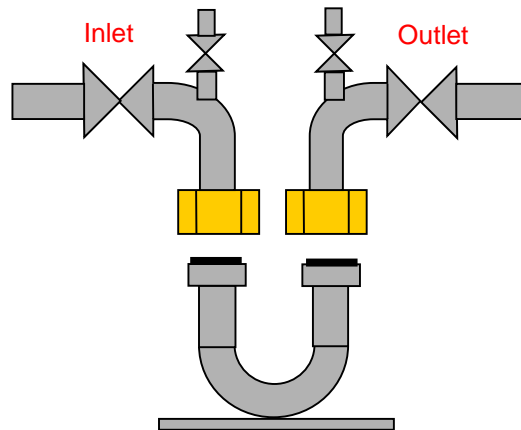
1. Filter is now operating and product is being filtered through the pack.
2. Read differential pressure ($\Delta P = P1 - P2$) to monitor filter operation and change out requirements.
3. ΔP will rise as filter blocks & filter pack should be changed at or before maximum ΔP for filters inside is reached.

Shut-down



1. Close inlet valve.
2. If required to recover product in housing, set compressed air regulator to 0.5-1barG & open air push valve to compress pack around filters and recover product inside liner.
3. Open air push, inlet and outlet vents to depressurise system, undo ring nuts, remove hoses & remove housing lid.
4. Fit caps and remove pack from housing.

Rinse Pipe work



1. Connect hoses to rinsing elbow, open inlet and outlet valves and rinse pipe work.
2. Housing stays clean as pack liner prevents product from contacting housing. System is now ready for next product to be filtered.