



Product Description

The De Dietrich Process Systems Nutsche filter offers faster and more efficient operation than an open vessel because it can be operated under pressure or vacuum. DDPS maintains a standard line of Nutsche filters to offer speedier deliveries to users. Delivery can be an important factor when setting up laboratory or pilot plant operations, or scaling-up from pilot plant to production.

Applications

Typical applications for the Nutsche filter include processing pharmaceuticals, high-purity organic chemicals, dyes and precious metals.

Features

The Nutsche filter is glass lined for an easy to clean, anti-corrosive finish. The fire-polished, highly anti-adhesive glass-lined steel maintains the highest purity, especially important where no metallic intrusion, even in parts per million, can be tolerated. The glassed surfaces are also easy to clean.

The top head is clamped-on and completely removable for full access. A heavy-duty davit swings the cover away with no lifting or hoisting required. The body section is clamped to the bottom head with a flanged joint to hold the filter media securely in place. The bottom section with support plate can be lowered for easy changing of filter media. Heavy-duty lifting lugs are standard. A stainless steel retaining cable holds all vessel clamps in place so they can't be dropped or fall into the vessel when loosened. Clamps and nuts are zinc-chromate treated, and protected with elastomeric clamp nut covers to resist atmospheric corrosion.

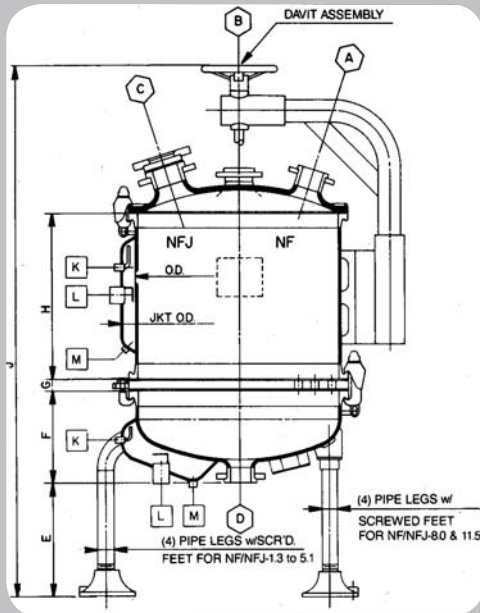
Advantages

Nutsche filter offers the advantage of operation under pressure: faster and more efficient than an open vessel. Pressure drop across the filter medium support plate is from 38 to 85 psig, depending on the vessel size. The DDPS Nutsche Filter can be ASME Code-stamped up to 100 psi. The closed vessel can be an important factor in meeting OSHA regulations for operator safety, since personnel and equipment are protected from uncontrolled vapor emissions. A closed vessel also helps protect the batch from accidental contamination. The glass-lined Nutsche filter may also be operated under vacuum. If desired, it may be supplied as an open vacuum filter.



Special Portable Nutsche Filter with pneumatic lowering bottom and perforated plate with casters. This design also features a pivoting top head to ensure complete cleaning for pharmaceutical environments.

Standard Dimensions and Capacities



MODEL	NF/NFJ-400	NF/NFJ-600	NF/NFJ-800	NF/NFJ-1000	NF/NFJ-1200
	NF/NFJ-1.3	NF/NFJ-2.8	NF/NFJ-5.1	NF/NFJ-8.0	NF/NFJ-11.5
OD	16"	23 5/8"	31 1/2"	39 3/8"	47 1/4"
JKT. OD	20"	27 9/16"	35 7/16"	43 5/16"	51 3/16"
A	1 1/2"	1 1/2"	2"	2"	2"
B	1 1/2"	1 1/2"	2"	2"	2"
C	3"	4"	6"	6"	6"
D	2"	2"	3"	3"	3"
E	18"	18"	24"	24"	24"
F	10.38"	11.75"	13.94"	15.62"	17.50"
G	1.68"	1.83"	2.14"	2.30"	2.70"
H	17"	17"	18"	19"	19"
J	68"	71"	82"	87"	90"
K	(2) 1/2"	(2) 1/2"	(2) 1/2"	(2) 1/2"	(2) 1/2"
L	(4) 1 1/2"	(4) 1 1/2"	(4) 1 1/2"	(4) 1 1/2"	(4) 1 1/2"
M	(2) 3/4"	(2) 3/4"	(2) 3/4"	(2) 3/4"	(2) 3/4"
Filtering Area Sq.	1.3	2.8	5.1	8.0	11.5
Plate Open	11%	12%	12%	15%	14.5%
Max ΔP on Plate	85	52	49	38	42

MODEL	OD	VOL. PER IN. OF STR. SIDE		VOL. OF STRAIGHT SECT.	
		GALLONS	LITERS	GALLONS	LITERS
NF/NFJ-400	16"	0.78	2.94	13	49
NF/NFJ-1.3					
NF/NFJ-600	23-5/8"	1.75	6.62	29	110
NF/NFJ-2.8					
NF/NFJ-800	31-1/2"	3.18	12.04	57	215
NF/NFJ-5.1					
NF/NFJ-1000	39-3/8"	5.0	18.90	95	360
NF/NFJ-8.0					
NF/NFJ-1200	47-1/4"	7.2	27.25	137	519
NF/NFJ-11.5					



Standard Format

Top head is clamped-on and completely removable for full access. A heavy-duty davit swings the cover away with no lifting or hoisting required. The body section is clamped to the bottom head with a flanged joint to hold the filter media securely in place. Heavy-duty lifting lugs are standard. A stainless steel retaining cable holds all vessel clamps in place so they can't be dropped or fall into the vessel when loosened. Clamps and nuts are zinc-chromate treated, and protected with elastomeric clamp nut covers to resist atmospheric corrosion.

Options

- A hydraulic or pneumatic mechanism for lifting the clamped top head or body section.
- Vessel top closed-welded, with a large clamped manway access.
- Bottom section with support plate can be lowered for easy changing of filter media.
- Casters for portability of bottom section, or of entire vessel.
- Vessel jacket for efficient heating/cooling of filtrate.
- Stainless steel clamps and other accessories.

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