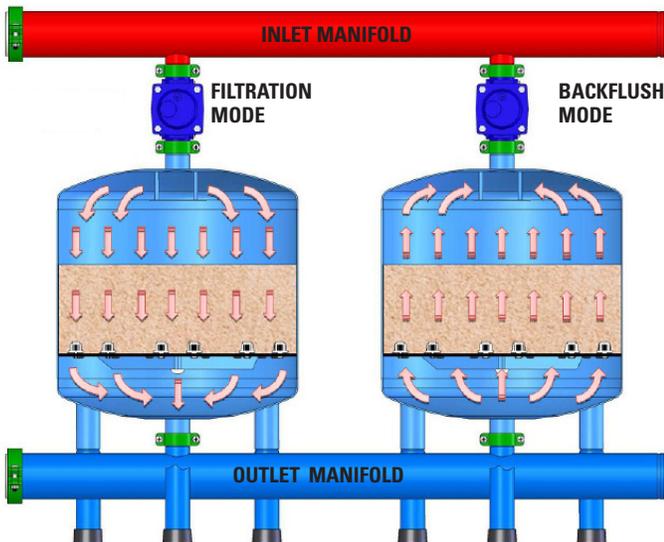


## FILTRATION

# SANDSTORM™

## DOUBLE CHAMBER METAL MEDIA FILTER



### DESCRIPTION OF OPERATION

Water enters the filter via the inlet and spreads equally on the media. Solids and organic materials are trapped within the media. The clean water passes through the media and flows out via the nozzles. The backflush cleaning process is done by shutting the inlet of the filter with the 3-way backflush valve and allowing the water to enter from the bottom, lifting the media and releasing the solids that exit the filter through the outlet manifold. This process can be controlled automatically.

### PRODUCT ADVANTAGES

- Two layer coating (phenolic and epoxy) for industry leading high corrosion and UV protection - for both the tanks and the manifolds.
- Modular manifolds for simple and flexible assembly and expansion.
- Wide range of tank diameters and configurations to address all application needs.
- Double chambered filter allows for efficient filtration and backflush uniformity.
- Multiple mushrooms provide four times more open flow area ensuring uniform water collection and backflush.
- Each mushroom produces equal pressure during backflushing cleaning the entire sand media bed.

### APPLICATIONS

- Excellent for high pressure applications
- Primary filter for water from open reservoirs and recycled water
- Filtration of water contaminated with algae and other organic materials

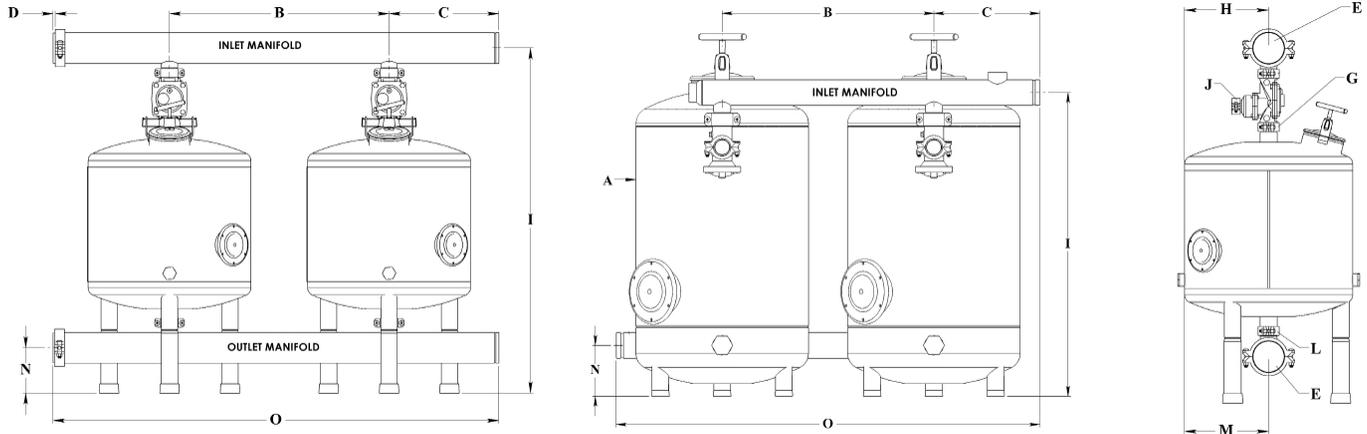
### SPECIFICATIONS

- Maximum Operating Pressure: 115 psi
- Backflushing Flow Rate:
  - 16" Filter Battery - 26 GPM
  - 20" Filter Battery - 66 GPM
  - 24" Filter Battery - 97 GPM
- Access Ports:
  - Tank Dome with tightening handle
  - Tank Body secured by bolts

### MATERIALS

- Filter Body: Epoxy Coated Carbon Steel

# SANDSTORM DOUBLE CHAMBER STEEL MEDIA FILTER



## TWO TANK SYSTEM SPECIFICATIONS

KEY	DESCRIPTION	16"	20"	24"
A	TANK DIAMETER	16"	20"	24"
B	DISTANCE BETWEEN TANKS	19.6"	23.6"	29.53"
C	DISTANCE TO MANIFOLD END	9.8"	11.8"	14.76"
D	END CAP LENGTH	0.78"	0.78"	0.78"
E	INLET/OUTLET MANIFOLD	4"	4"	4"
G	INLET PORT FITTING	2" FPT	2" FPT	2" FPT
H	INLET MANIFOLD LOCATION	13.18"	14.17"	16.77"
I	INLET MANIFOLD HEIGHT	40.15"	42.24"	42.26"
J	BACKFLUSH PORT FITTING	2" FPT	2" FPT	2" FPT
L	OUTLET PORT SIZE	2" GR	2" GR	2" GR
M	OUTLET MANIFOLD LOCATION	13.61"	15.32"	17.68"
N	OUTLET MANIFOLD HEIGHT	7.09"	7.09"	7.09"
O	TOTAL LENGTH	39.2"	47.2"	59.06"
P	TOTAL WEIGHT (LBS.)	310	370	490

GR = Groove FL = Flange

## ORDERING INFORMATION

MODEL NUMBER	# FILTERS/SIZE
2SMFDBS1602AAC	2 - 16"
2SMFDBS2002AAC	2 - 20"
2SMFDBS2003AAC	3 - 20"
2SMFDBS2402AAC	2 - 24"
2SMFDBS2403AAC	3 - 24"

## ORDERING - TANK ONLY

MODEL NUMBER	TANK SIZE
2SMFD16GR	16"
2SMFD20GR	20"
2SMFD24GR	24"

## FLOW RANGE (GPM)

# FILTERS/SIZE	FLOW RANGE (GPM)
2 - 16"	22 - 52
2 - 20"	78 - 132
3 - 20"	117 - 198
2 - 24"	114 - 192
3 - 24"	171 - 288

## SPECIFICATIONS

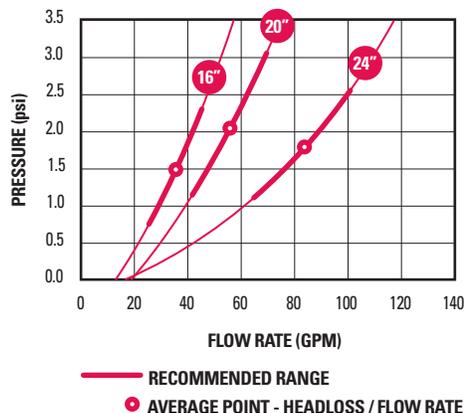
TANK SIZE	FILTRATION AREA	MEDIA REQUIRED	TANK WEIGHT
16"	1.40 SQ. FT.	200 LBS.	132 LBS.
20"	2.15 SQ. FT.	260 LBS.	165 LBS.
24"	3.12 SQ. FT.	400 LBS.	242 LBS.

MEDIA REQUIRED refers to Crushed Silica Sand

## SILICA SAND MEDIA DATA

MEDIA TYPE	MESH RANGE	MEAN EFFECTIVE SIZE
CRUSHED SILICA 12	80 - 130	1.1 - 1.2MM
STANDARD SAND 6/20	100 - 140	0.9 - 1.0MM
CRUSHED SILICA 16	155 - 200	0.6 - 0.7MM
U.S. SILICA 80	160 - 200	0.6 - 0.7MM
CRUSHED SILICA 20	170 - 230	0.45 - 0.5MM

## HEADLOSS (FLOW VS. PRESSURE)



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