

SFV- SERIES - 36" to 144"

HI-FLOW Vertical

Single Tank Commercial Sand Filters

SFV SERIES

FILTER APPLICATIONS

- Commercial Pools
- Institutional & Recreational Pools
- Industrial & Municipal Water Treatment
- Water Parks
- Aquatic Amusement Parks
- Aquariums & Zoos
- Industrial Filtration
- Potable Water Systems
- Aquaculture
- Groundwater Remediation
- Irrigation
- Agriculture
- Cooling Tower Filtration
- Fountains and Water Features

TANK CONSTRUCTION

- Heavy Duty Carbon Steel Tank construction, precision welded, utilizing fully automatic submerged arc welding process.
- Tank Heads are ¼" thick and up, with SA-36 or SA-516-70 carbon steel.
- Tank Walls are ¼" thick and up, with SA-36 or SA-516-70 carbon steel.
- Factory installed Sacrificial Anodes further extend the life span of all SFV Single Series Vessels.
- Interior Tank Coating with Prorated 5 year warranty.
- 11"x15" Man-way.
- 4" Media dump port and winterizing drain.
- Welded legs for seismic designed installation.
- NSF listed Tank design.

SFV-SERIES INCLUDE

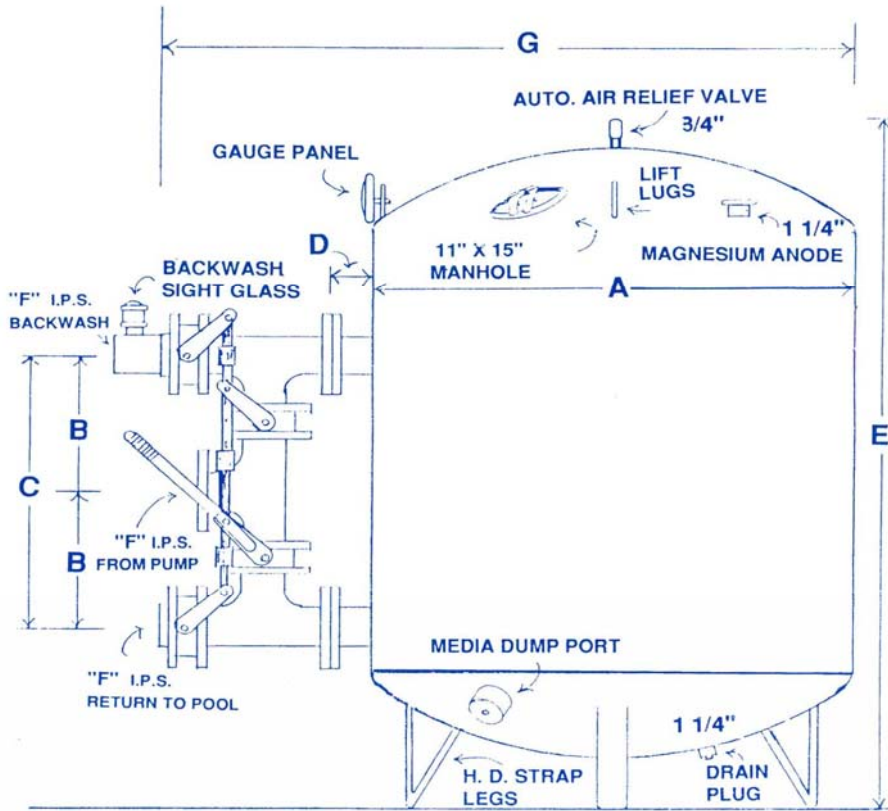
- Schedule 80 PVC Face Piping using corrosion resistant butterfly valves with nylon coated discs.
- Gauge Panel with two 4½" 0-60 psi gauges with backwash sight glass.
- Schedule 80 PVC Header Manifolds are hydraulically engineered and factory installed with flanged connections.
- Schedule 40 PVC 1¼" Underdrain Laterals, machine slotted and factory installed with LIFETIME WARRANTY (Schedule 80 PVC also available).
- Automatic air release and Emergency pressure relief valves.

TANK OPTIONS

- SFV Series available in all grades of Carbon and Stainless Steel.
- Adjustable Tank Jack Legs.
- Optional Interior Tank Coatings include Epoxy, Vinyl Ester and Rubber for extended 15 year Prorated warranty.
- Ozone Resistant Interior Coating available.
- Single Lever Manual Backwash Controls.
- Automatic Backwash Controls.
- ASME Code vessels available.
- Optional Man-way Sizes 14"x18", round 16"-20"-24" flanged style.
- Skid Mounted Filter Systems.
- Various Filter Media's available.
- Industrial Pumps and Pump Strainers.

SFV SERIES -- HI-FLOW VERTICAL SAND FILTER -- SINGLE TANK SYSTEMS -- FILTER PERFORMANCE SPECIFICATIONS

| Filter Model Number | Tank Dia. | Face Piping Size | Filter Area (SQ.FT.) | Flow Rate 15 GPM | Flow Rate 20 GPM | Flow Rate GPH (15 GPM) 6 Hr. / 8 Hr. | Flow Rate GPH (20 GPM) 6 Hr. / 8 Hr. |
|---------------------|-----------|------------------|----------------------|------------------|------------------|--------------------------------------|--------------------------------------|
| SFV- 36 | 36" | 3" | 7.1 | 107 | 142 | 38,520 / 51,360 | 51,120 / 68,160 |
| SFV- 42 | 42" | 3" | 9.6 | 144 | 192 | 51,840 / 69,120 | 69,120 / 92,160 |
| SFV- 48 | 48" | 4" | 12.6 | 189 | 252 | 68,040 / 90,720 | 90,0720 / 120,960 |
| SFV- 54 | 54" | 4" | 15.9 | 238.5 | 318 | 85,860 / 114,480 | 114,480 / 152,640 |
| SFV- 60 | 60" | 4" | 19.6 | 294 | 392 | 105,840 / 141,120 | 141,120 / 188,160 |
| SFV- 66- 4 | 66" | 4" | 23.7 | 355.5 | * | 127,980 / 170,640 | * |
| SFV- 66- 6 | 66" | 6" | 23.7 | 355.5 | 474 | 127,980 / 170,640 | 170,640 / 227,520 |
| SFV- 72 | 72" | 6" | 28.3 | 424.5 | 566 | 152,820 / 203,760 | 203,760 / 271,680 |
| SFV- 78 | 78" | 6" | 33.2 | 498 | 664 | 179,280 / 239,040 | 239,040 / 318,720 |
| SFV- 84 | 84" | 6" | 38.5 | 577.5 | 770 | 207,900 / 277,200 | 277,200 / 369,600 |
| SFV- 90 | 90" | 6" | 44.2 | 663 | 884 | 238,680 / 318,240 | 318,240 / 424,320 |
| SFV- 96- 6 | 96" | 6" | 50.3 | 754.5 | * | 271,620 / 362,160 | * |
| SFV- 96- 8 | 96" | 8" | 50.3 | 754.5 | 1,006 | 271,620 / 362,160 | 362,160 / 482,880 |
| SFV- 102- 6 | 102" | 6" | 56.7 | 850.5 | * | 306,180 / 408,240 | * |
| SFV-102- 8 | 102" | 8" | 56.7 | 850.5 | 1,134 | 306,180 / 408,240 | 408,240 / 544,320 |
| SFV- 108 | 108" | 8" | 63.6 | 954 | 1,272 | 343,440 / 457,920 | 457,920 / 610,560 |
| SFV- 114 | 114" | 8" | 70.9 | 1063.5 | 1,418 | 382,860 / 510,480 | 510,480 / 680,640 |
| SFV- 120 | 120" | 8" | 78.5 | 1,117.50 | 1,490 | 423,900 / 565,200 | 565,200 / 753,600 |
| SFV- 144 | 144" | 8" | 113.1 | 1,696.50 | 2,262 | 610,740 / 814,320 | 814,320 / 1,085,760 |



NOTE: DIMEN. B,C, & G ARE FOR P.V.C. FACE PIPE CONTACT FACTORY FOR DIMENSIONS ON CAST IRON FACE PIPE
 OPTIONAL SINGLE LEVER CONTROLS: Any Miami Filter single or dual commercial series HI Rate Filter System may be equipped with a single lever linkage to permit switching valves between filter and backwash positions by moving a single handle. Use of this option limits available system functions to "Filter-to-Pool," "Backwash-to-Waste," and "Vacuum-thru-Filter."

**SFV SERIES -- HI-FLOW VERTICAL SAND FILTERS
 SINGLE TANK SYSTEM
 -- PHYSICAL DIMENSIONS --**

| Filter Model Number | Face Piping Size | A | B | C | D | E | G | Head & Shell Thickness | Height of Side Shell | Filter Ship Weight (Lbs.) |
|---------------------|------------------|------|----------|---------|----|---------|----------|------------------------|----------------------|---------------------------|
| SFV- 36 | 3" | 36" | 12 3/4" | 25 1/2" | 4" | 70 1/2" | 53 3/8" | 1/4" | 48" | 770 |
| SFV- 42 | 3" | 42" | 12 3/4" | 25 1/2" | 4" | 71" | 59 3/8" | 1/4" | 48" | 920 |
| SFV- 48 | 4" | 48" | 14 5/8" | 29 1/4" | 4" | 78" | 67" | 1/4" | 48" | 1,120 |
| SFV- 54 | 4" | 54" | 14 5/8" | 29 1/4" | 4" | 75" | 73" | 1/4" | 48" | 1,290 |
| SFV- 60 | 4" | 60" | 14 5/8" | 29 1/4" | 4" | 78" | 79" | 1/4" | 48" | 1,465 |
| SFV- 66- 4 | 4" | 66" | 14 5/8" | 29 1/4" | 4" | 80" | 85" | 1/4" | 48" | 1,640 |
| SFV- 66- 6 | 6" | 66" | 19 1/16" | 38 1/8" | 4" | 80" | 90 1/4" | 1/4" | 48" | 1,740 |
| SFV- 72 | 6" | 72" | 19 1/16" | 38 1/8" | 4" | 82" | 96 1/4" | 1/4" | 48" | 1,820 |
| SFV- 78 | 6" | 78" | 19 1/16" | 38 1/8" | 4" | 83" | 102 1/4" | 1/4" | 48" | 1,970 |
| SFV- 84 | 6" | 84" | 19 1/16" | 38 1/8" | 4" | 84" | 108 1/4" | 1/4" | 48" | 2,240 |
| SFV- 90 | 6" | 90" | 19 1/16" | 38 1/8" | 4" | 86" | 114 1/4" | 1/4" | 48" | 2,550 |
| SFV- 96- 6 | 6" | 96" | 19 1/16" | 38 1/8" | 4" | 87" | 120 1/4" | 5/16" | 48" | 2,820 |
| SFV- 96- 8 | 8" | 96" | 24" | 48" | 4" | 98" | 125" | 5/16" | 60" | 3,170 |
| SFV- 102- 6 | 6" | 102" | 19 1/16" | 38 1/8" | 4" | 88" | 126 1/4" | 5/16" | 48" | 3,300 |
| SFV- 102- 8 | 8" | 102" | 24" | 48" | 4" | 100" | 131" | 5/16" | 60" | 3,600 |
| SFV- 108 | 8" | 108" | 24" | 48" | 4" | 101" | 137" | 1/16" | 60" | 3,850 |
| SFV- 114 | 8" | 114" | 24" | 48" | 4" | 102" | 143" | 5/16" | 60" | 4,420 |
| SFV- 120 | 8" | 120" | 24" | 48" | 4" | 104" | 149" | 5/16" | 60" | 5,220 |
| SFV- 144 | 8" | 144" | 24" | 48" | 4" | 116" | 173" | 1/2" | 60" | 6,800 |

**SFV SERIES
-- FILTER MEDIA SPECIFICATIONS --**

| Filter Model Number | Gravel 1/8"- 1/4" (CU.FT.) | Filter Sand #20 (CU.FT.) | Aprox. Bed Depth |
|---------------------|----------------------------|--------------------------|------------------|
| SFV-36 | 4 | 15 | 24"- 30" |
| SFV-42 | 6 | 20 | 24"- 30" |
| SFV-48 | 12 | 25 | 24"- 30" |
| SFV-54 | 16 | 32 | 24"- 30" |
| SFV-60 | 19 | 39 | 24"- 30" |
| SFV-66 | 24 | 48 | 24"- 30" |
| SFV-72 | 30 | 56 | 24"- 30" |
| SFV-78 | 38 | 66 | 24"- 30" |
| SFV-84 | 44 | 76 | 24"- 30" |
| SFV-90 | 50 | 88 | 24"- 30" |
| SFV-96- 6 | 58 | 100 | 24"- 30" |
| SFV-96- 8 | 58 | 113 | 24"- 36" |
| SFV-102- 6 | 70 | 114 | 24"- 30" |
| SFV-102- 8 | 70 | 127 | 24"- 36" |
| SFV-108 | 80 | 143 | 24"- 36" |
| SFV-114 | 89 | 160 | 24"- 36" |
| SFV-120 | 99 | 176 | 24"- 36" |
| SFV-144 | 140 | 254 | 24"- 36" |

SFV PUMP SPECS

**SFV SERIES- SINGLE TANK SYSTEMS
-- 15 GPM / FILTER PUMP SPECIFICATIONS --**

| Filter Model Number | Flow Rate 15 GPM | PUMP MODEL # | DIA. | SIZE | H.P. |
|---------------------|------------------|-----------------|-------|----------------|------|
| SFV- 36 | 107 | MFL-102-SF | 7.63" | 3.0"x 2.0" FLG | 3 |
| SFV- 42 | 144 | MFL-102-SF | 7.75" | 3.0"x 2.0" FLG | 3 |
| SFV- 48 | 189 | MFL-103-SF | 7.88" | 4.0"x 2.5" FLG | 5 |
| SFV- 54 | 238.5 | MFL-103-SF | 8.00" | 4.0"x 2.5" FLG | 5 |
| SFV- 60 | 294 | MFL-63-SF | 7.88" | 4.0"x 4.0" FLG | 7.5 |
| SFV- 66 | 355.5 | MFL-63-BF | 8.13" | 4.0"x 4.0" FLG | 10 |
| SFV- 72 | 424.5 | MFL-63-BF | 8.38" | 4.0"x 4.0" FLG | 15 |
| SFV- 78 | 498 | MFL-63-BF | 8.63" | 4.0"x 4.0" FLG | 15 |
| SFV- 84 | 577.5 | MFL-96-BF | 8.63" | 6.0"x 5.0" FLG | 20 |
| SFV- 90 | 663 | MFL-96-BF | 8.63" | 6.0"x 5.0" FLG | 20 |
| SFV- 96 | 754.5 | MFL-96-BF | 8.75" | 6.0"x 5.0" FLG | 20 |
| SFV- 102 | 850.5 | MFL-96-BF | 8.88" | 6.0"x 5.0" FLG | 20 |
| SFV- 108 | 954 | MFL-96-BF | 9.00" | 6.0"x 5.0" FLG | 20 |
| SFV- 114 | 1036.5 | MFL-96-BF | 9.13" | 6.0"x 5.0" FLG | 25 |
| SFV- 120 | 1,117.50 | MFL-96-BF | 9.25" | 6.0"x 5.0" FLG | 25 |
| SFV- 144 | 1,696.50 | CONSULT FACTORY | | | |

Pumps are furnished with bronze impellers / BN-CM mechanical seals Pumps are Flow Rated at 60 FT of Head
Motors are 3/60/208-230/460, 1750 rpm, ODP.

**SFV SERIES- SINGLE TANK SYSTEM
-- 20 GPM / FILTER PUMP SPECIFICATIONS --**

| Filter Model Number | Flow Rate 20 GPM | PUMP MODEL # | DIA. | SIZE | H.P. |
|----------------------------|-------------------------|------------------------|-------------|---------------|-------------|
| SFV- 36 | 142 | MFL-102-SF | 7.75" | 3.0"x 2.0"FLG | 3 |
| SFV- 42 | 192 | MFL-103-SF | 7.88" | 4.0"x 2.5"FLG | 5 |
| SFV- 48 | 252 | MFL-63-BF | 7.75" | 4.0"x 4.0"FLG | 7.5 |
| SFV- 54 | 318 | MFL-63-BF | 8.00" | 4.0"x 4.0"FLG | 10 |
| SFV- 60 | 392 | MFL-63-BF | 8.25" | 4.0"x 4.0"FLG | 15 |
| SFV- 66 | 474 | MFL-63-BF | 8.50" | 4.0"x 4.0"FLG | 15 |
| SFV- 72 | 566 | MFL-96-BF | 8.63" | 6.0"x 5.0"FLG | 15 |
| SFV- 78 | 664 | MFL-96-BF | 8.75" | 6.0"x 5.0"FLG | 20 |
| SFV- 84 | 770 | MFL-96-BF | 8.75" | 6.0"x 5.0"FLG | 20 |
| SFV- 90 | 884 | MFL-96-BF | 8.88" | 6.0"x 5.0"FLG | 20 |
| SFV- 96 | 1,006 | MFL-96-BF | 9.00" | 6.0"x 5.0"FLG | 20 |
| SFV-102 | 1,134 | MFL-96-BF | 9.25" | 6.0"x 5.0"FLG | 25 |
| SFV- 108 | 1,272 | MFL-96-BF | 9.50" | 6.0"x 5.0"FLG | 25 |
| SFV- 114 | 1,418 | MFL-96-BF | 9.75" | 6.0"x 5.0"FLG | 30 |
| SFV- 120 | 1,570 | MFL-96-BF | 8.75" | 8.0"x 6.0"FLG | 30 |
| SFV- 144 | 2,262 | CONSULT FACTORY | | | |

**Pumps are furnished with bronze impellers / BN-CM mechanical seals Pumps are Flow Rated at 60 FT of Head
Motors are 3/60/208-230/460, 1750 rpm, ODP.**