

Valves Product
Industrial PVC Backwater Valves



Industrial PVC Backwater Valves

Backwater Valves are designed to prevent backflow in numerous applications where easy service access for maintenance and cleaning is needed. Excellent for use in sanitary or storm sewer drainage systems to prevent waste back up due to inadequate drainage, for balancing multi-level ponds, aquaculture features or storage tank systems, and many other applications. Spears® Backwater Valve has been engineered for improved function and easier service, especially in buried service with use of optional Service-Access Extension available either preassembled with valve or as an add-on kit.

- Replaceable internal flapper assembly with EPDM Seat.
- Service-Access Extension available either preassembled with valve, as an add-on kit, or as valve & extension kit components with user supplied pipe.
- Direct Connection to ASTM D 2665 PVC DWV or other IPS size pipe. Spears® fabricated IPS x Sewer Adapters or DWV x Sewer & Drain Adapter Bushings are available for connection to ASTM D 3034 & ASTM D 2729 Sewer pipe.
- Pressure Rated to 43 psi (100 feet of head) @ 73°F (23°C).
- All extension kits can be cut shorter for custom application.
- Conforms to ASME/ANSI A112.14.1 for Backwater Valves.

PVC Backwater Valves



Backwater Valves - Valve Only

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|------------------------|------|--------|----------|-----------|--------|
| Socket x Socket | | | | | |
| S275P | 2 | 1 | 12 | 055 | 65.43 |
| S375P | 3 | 2 | 0 | 055 | 65.56 |
| S475P | 4 | 1 | 0 | 055 | 72.63 |
| S675P | 6 | 1 | 0 | 055 | 309.43 |

PVC Backwater Valves with Extension Kit to Premade Length



Backwater Valves with Extension Kit to Premade Length

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|--------------------------|--------|--------|----------|-----------|--------|
| Socket x Socket | | | | | |
| Assembled with Extension | | | | | |
| S275P-120 ¹ | 2X12HT | 1 | 0 | 055 | 197.36 |

Backwater Valves with Extension Kit to Premade Length

(continued)

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|------------------------|--------|--------|----------|-----------|--------|
| Socket x Socket | | | | | |
| S275P-160 ¹ | 2X16HT | 1 | 0 | 055 | 212.28 |
| S275P-200 ¹ | 2X20HT | 1 | 0 | 055 | 227.20 |
| S275P-240 ¹ | 2X24HT | 1 | 0 | 055 | 242.14 |
| S275P-360 ¹ | 2X36HT | 1 | 0 | 055 | 254.32 |
| S275P-480 ¹ | 2X48HT | 1 | 0 | 055 | 279.51 |
| S375P-120 ¹ | 3X12HT | 1 | 0 | 055 | 197.36 |
| S375P-160 ¹ | 3X16HT | 1 | 0 | 055 | 212.28 |
| S375P-200 ¹ | 3X20HT | 1 | 0 | 055 | 227.20 |
| S375P-240 ¹ | 3X24HT | 1 | 0 | 055 | 242.14 |
| S375P-360 ¹ | 3X36HT | 1 | 0 | 055 | 254.32 |
| S375P-480 ¹ | 3X48HT | 1 | 0 | 055 | 279.51 |
| S475P-120 ¹ | 4X12HT | 1 | 0 | 055 | 256.36 |
| S475P-160 ¹ | 4X16HT | 1 | 0 | 055 | 276.56 |
| S475P-200 ¹ | 4X20HT | 1 | 0 | 055 | 294.96 |
| S475P-240 ¹ | 4X24HT | 1 | 0 | 055 | 314.52 |
| S475P-360 ¹ | 4X36HT | 1 | 0 | 055 | 330.32 |
| S475P-480 ¹ | 4X48HT | 1 | 0 | 055 | 362.99 |
| S675P-120 ¹ | 6X12HT | 1 | 0 | 055 | 538.31 |
| S675P-160 ¹ | 6X16HT | 1 | 0 | 055 | 580.77 |
| S675P-200 ¹ | 6X20HT | 1 | 0 | 055 | 619.41 |
| S675P-240 ¹ | 6X24HT | 1 | 0 | 055 | 660.57 |
| S675P-360 ¹ | 6X36HT | 1 | 0 | 055 | 693.67 |
| S675P-480 ¹ | 6X48HT | 1 | 0 | 055 | 762.27 |

¹ - Size designates nominal valve size x extension height (HT-top of valve to top of extension, inches)

PVC Service-Access Extension Kit Only to Premade Length



PVC Service-Access Extension Kit: includes factory assembled internal flap assembly, assembly extension pipe, and external extension housing with top access adapter. Requires solvent cement assembly to existing valve and uses existing threaded Access Plug. Standard Extensions are available in convenient increments of 12", 16", 20", 24", 36", and 48" (measured from top of valve to top of extension). Contact Spears® for MSRP on custom cut lengths. All extension kits can be cut shorter in the field for custom fits prior to cementing access adapter in place.

Service-Access Extension Kit Only to Premade Length

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|---------------------------|--------|--------|----------|-----------|-------|
| SAEK-020-120 ¹ | 2X12HT | 1 | 0 | 055 | 61.55 |
| SAEK-020-160 ¹ | 2X16HT | 1 | 0 | 055 | 63.32 |
| SAEK-020-200 ¹ | 2X20HT | 1 | 0 | 055 | 64.99 |



Industrial PVC Backwater Valves

Service-Access Extension Kit Only to Premade Length (continued)

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|---------------------------|---------------|--------|----------|-----------|--------|
| SAEK-020-240 ¹ | 2X24HT | 1 | 0 | 055 | 68.09 |
| SAEK-020-360 ¹ | 2X36HT | 1 | 0 | 055 | 71.33 |
| SAEK-020-480 ¹ | 2X48HT | 1 | 0 | 055 | 74.81 |
| SAEK-030-120 ¹ | 3X12HT | 1 | 0 | 055 | 66.75 |
| SAEK-030-160 ¹ | 3X16HT | 1 | 0 | 055 | 75.35 |
| SAEK-030-200 ¹ | 3X20HT | 1 | 0 | 055 | 79.82 |
| SAEK-030-240 ¹ | 3X24HT | 1 | 0 | 055 | 89.96 |
| SAEK-030-360 ¹ | 3X36HT | 1 | 0 | 055 | 106.41 |
| SAEK-030-480 ¹ | 3X48HT | 1 | 0 | 055 | 125.86 |
| SAEK-040-120 ¹ | 4X12HT | 1 | 0 | 055 | 190.09 |
| SAEK-040-160 ¹ | 4X16HT | 1 | 0 | 055 | 203.87 |
| SAEK-040-200 ¹ | 4X20HT | 1 | 0 | 055 | 225.15 |
| SAEK-040-240 ¹ | 4X24HT | 1 | 0 | 055 | 244.55 |
| SAEK-040-360 ¹ | 4X36HT | 1 | 0 | 055 | 312.96 |
| SAEK-040-480 ¹ | 4X48HT | 1 | 0 | 055 | 381.38 |
| SAEK-060-120 ¹ | 6X12HT | 1 | 0 | 055 | 278.97 |
| SAEK-060-160 ¹ | 6X16HT | 1 | 0 | 055 | 342.94 |
| SAEK-060-200 ¹ | 6X20HT | 1 | 0 | 055 | 381.27 |
| SAEK-060-240 ¹ | 6X24HT | 1 | 0 | 055 | 420.02 |
| SAEK-060-360 ¹ | 6X36HT | 1 | 0 | 055 | 542.16 |
| SAEK-060-480 ¹ | 6X48HT | 1 | 0 | 055 | 662.82 |

¹ - Size designates nominal valve size x extension height (HT-top of valve to top of extension, inches)

PVC Backwater Valve with Extension Components



Backwater Valve with Extension Components

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|-------------|------|--------|----------|-----------|------|
|-------------|------|--------|----------|-----------|------|

Socket x Socket

Must be assembled with user supplied pipe (see Table 1)

| | | | | | |
|----------|----------|---|---|-----|--------|
| S275P-AK | 2 | 1 | 8 | 055 | 96.40 |
| S375P-AK | 3 | 1 | 0 | 055 | 96.40 |
| S475P-AK | 4 | 1 | 0 | 055 | 112.77 |
| S675P-AK | 6 | 1 | 0 | 055 | 399.32 |

PVC Backwater Valve Extension Components Only



Backwater Valve Extension Components Only

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|-------------|------|--------|----------|-----------|------|
|-------------|------|--------|----------|-----------|------|

Must be assembled with user supplied pipe (see Table 1)

| | | | | | |
|-----------|----------|---|---|-----|--------|
| S275P-ECK | 2 | 1 | 8 | 055 | 51.34 |
| S375P-ECK | 3 | 1 | 8 | 055 | 51.34 |
| S475P-ECK | 4 | 1 | 0 | 055 | 66.89 |
| S675P-ECK | 6 | 1 | 0 | 055 | 140.54 |

Table 1: User Supplied Pipe Requirements For Use With Extension Components

| Valve Size | Acceptable RISER Pipe Types for User-Supplied Pipe | Acceptable HANDLE Pipe |
|------------|---|--|
| 2" | 4" Class 125 PVC PIPE 4" Sch 40 PVC PIPE | Use any 3/4" IPS plastic pipe ¹ |
| 3" | 5" Class 125 PVC PIPE 5" Sch 40 PVC PIPE ³ 6" D3034 (SDR 35) PVC SEWER PIPE ² | |
| 4" | 8" Class 125 PVC PIPE 8" Sch 40 PVC PIPE | |
| 6" | 10" Class 125 PVC PIPE 10" Sch 40 PVC PIPE | |

Note 1: Riser and Handle pipe are *not* the same length. Sch 40 and/or Sch 80 pipe as well as ABS may be used. Special cement must be used to join PVC to ABS.

Note 2: When 6" SDR35 pipe is used, adapter fits pipe inside diameter.

Note 3: DO NOT use Sch 80 for 3" Riser pipe.



Industrial PVC Backwater Valves

Sump Pump Swing Check Valves

Industrial Backwater Valve Flapper Repair Kit



Backwater Valve Flapper Repair Kit

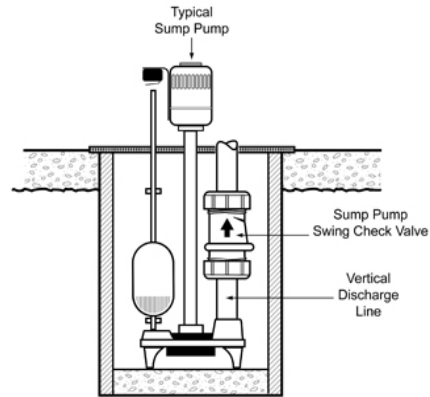
| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|---------------------------------------|----------|--------|----------|-----------|-------|
| Complete Flapper Assembly replacement | | | | | |
| S275P-FRK | 2 | 1 | 10 | 055 | 38.20 |
| S375P-FRK | 3 | 1 | 10 | 055 | 48.18 |
| S475P-FRK | 4 | 1 | 10 | 055 | 56.12 |
| S675P-FRK | 6 | 1 | 5 | 055 | 99.93 |

PVC Backwater Valve Metric Adapters



Backwater Valve Metric Adapters

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|------------------------------------|------------------|--------|----------|-----------|-------|
| Metric Socket x ASTM Spigot | | | | | |
| S275MA-063 | 63mm X 2 | 50 | 0 | 055 | 16.93 |
| S375MA-090 | 90mm X 3 | 25 | 0 | 055 | 18.19 |
| S475MA-110 | 110mm X 4 | 10 | 0 | 055 | 21.55 |
| S675MA-160 | 160mm X 6 | 4 | 0 | 055 | 49.74 |



- Specifically Designed for Use on Sump Pump Discharge Lines (See Illustration)
- Includes Compression End Connectors with Buna-N Gaskets for Use on Either 1-1/4" or 1-1/2" Pipe
- All Plastic Construction with Elastomer Seals - No Metal Parts
- Angled Seat and Weighted Flapper for Low-Pressure Seal
- Suitable for Vertical Up-flow or Horizontal Installations

Pressure Rating @ 73°F (23°C), Water
 Full Flow (open) 150 psi
 Back Pressure (closed) 75 psi

Maximum Service Temperature
 140°F (60°C)

Temperature/Pressure De-ratings Apply

General Installation Information: Sump Pump Swing Check Valves may be installed in either vertical up-flow (see illustration) or horizontal positions on pump discharge line. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of the flow. In horizontal installations, the designated side must be positioned "up." Do Not install Check Valve upside down.

PVC Sump Pump Swing Check Valve

| Part Number | Size | Std Pk | Mstr Ctn | Prod Code | MSRP |
|-------------|------|--------|----------|-----------|------|
|-------------|------|--------|----------|-----------|------|

Compression Ends

Buna-N Gaskets included for both 1-1/4" & 1-1/2" pipe

| | | | | | |
|--------------------------|--------------------------|----|---|-----|-------|
| S1400-15 | 1-1/2 & 1-1/4 | 16 | 0 | 026 | 20.83 |
|--------------------------|--------------------------|----|---|-----|-------|