



Valves Product

**Backwater, Sewage & Sump Pump Specialty Valves**

# **Backwater, Sewage & Sump Pump Specialty Valves**



## **PRODUCT**

Contact Spears® for any Information not found.

# Valves Product Sewer Disconnect



**Spears® Sewer Disconnect functions as both cleanout and disconnect device, plus helps prevent sewage backup during hurricanes and floods. Complete unit consists of body and plunger (sold separately - both parts are required for proper use). The plunger can be screwed into the body to block solids waste flow. The plunger should be removed from the body and stored when not in use to prevent accidental closing (i.e., from ground vibration, etc.).**

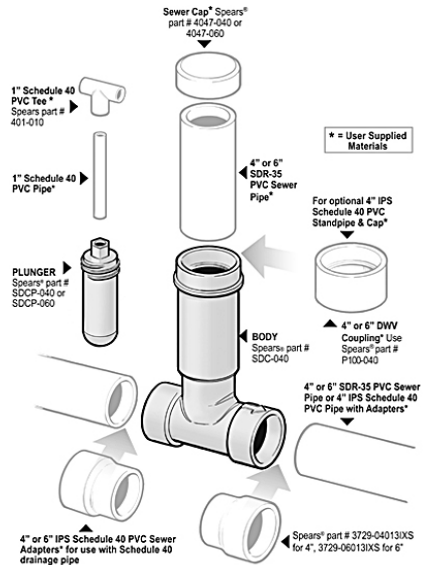


- Connects directly to 4" or 6" SDR-35 (or any ASTM D3034/D2729) PVC Sewer Pipe.
- Easily adapted to 4" or 6" Schedule 40 PVC Drainage Pipe with addition of IPS x Sewer Adapters, Socket x Spigot, Spears® part no. 3729-04013IXS for 4" or 3729-06013IXS for 6".
- User-supplied standpipe can be installed to grade using PVC Sewer Pipe connected to the body branch socket and a Sewer Cap to close off (Spears® part no. 4047-040 for 4" or 4047-060 for 6"). Optionally, user-supplied Schedule 40 Pipe can be used for standpipe with addition of a Schedule 40 DWV Socket Coupling (Spears® part no. P100-040 for 4" or P100-060 for 6") and Cap (Spears® part no. P116-040 for 4" or P116-060 for 6").
- T-handle for Plunger operation can be easily fabricated from user-supplied 1" Schedule 40 Pipe and Tee fitting (Spears® part no. 401-010).

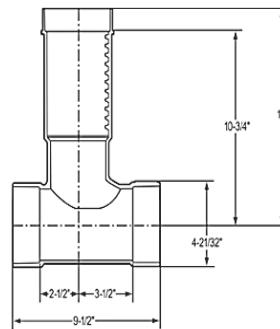


Note - the unit restricts flow by approximately 85%. As a result, the unit must be located in the sewer line where solids are present. Full disconnect is not achieved without solids in the flow.

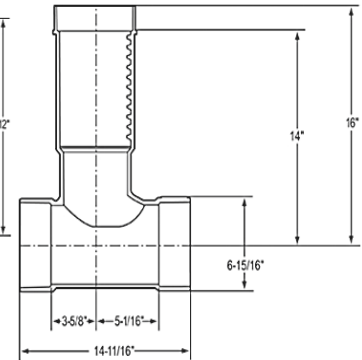
### Auxiliary Components (Purchased Separately)



### 4" Basic Dimensions



### 6" Basic Dimensions



### Sewer Disconnect

#### Sewer Disconnect Body

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

#### Sewer Socket X Sewer Socket.

Requires Purchase of SDCP-040 or SDCP-060 Plunger

SDC-040	4	6	0	055	80.51
SDC-060	6	2	0	055	122.57

### Sewer Disconnect Plunger

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

#### For Use With Sewer Disconnect Body Purchased Separately.

Requires Purchase of SDC-040 or SDC-060 Body

SDCP-040	4	12	0	055	27.73
SDCP-060	6	6	0	055	54.11

### Optional IPS x SEWER Adapter

#### IPS Socket x Sewer Spigot for adapting Sewer Disconnect Body to Schedule 40 drainage pipe

3729-04013IXS	4	1	90	399	18.43
3729-06013IXS	6	1	15	399	38.89





## Valves Product Utility Backwater Valve

### Utility Backwater Valve



Spears® Utility Backwater Valves feature an easily serviceable and replaceable Flapper Assembly with extendable access using standard piping components. Designed for direct solvent cement connection to ASTM D 2665 DWV drainage pipe or any other IPS size pipe. Spears® IPS x Sewer adapters easily convert valve to ASTM D 3034 SDR 35 Sewer Pipe. Backwater Valves conform to requirements of ASME/ANSI A112.14.1 Utility

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® Utility Backwater Valve has been engineered for easier installation with included Extension Kit Adapter components for use with User-Supplied Schedule 40 or Class 125 Extension Riser pipe cut to desired length. Utility Backwater Valve package comes with 50 psi (115 feet of head) rated Extension Adapters. Optional Adapter Kits available in 100 psi (232 feet of head) rating. Can also use User-supplied equivalent adapter components.

- Replaceable internal flapper assembly.
- Extension Kit Adapter components allow easy use with assembly user supplied pipe cut to desired length.
- Direct Valve Connection to ASTM D 2665 PVC DWV or other IPS size pipe. Spears® IPS DWV x Sewer & Drain Adapter are available for connection to ASTM D 3034 & ASTM D 2729 Sewer pipe.
- Standard Valve Extension Adapters Pressure Rated to 50 psi (115 feet of head) @ 73°F (23°C) - Optional 100 psi Adapter (232 feet of head) available.
- Conforms to ASME/ANSI A112.14.1 for Backwater Valves.

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

### Utility Backwater Valve w/Extension Adapters

**Valve Package includes Body, Flapper Assembly and Extension Adapters (female thread & male thread plug) with 50 psi Extension Adapters Rating 100 psi Extension Adapter Available.**



Requires User-Supplied 6" (for 4" valves) or 8" (for 6" valves) from Schedule 40 or Class 125 Riser Extension Pipe cut to desired length and 1" or 1-1/4" Internal Extension Pipe

SML-3	3	1	0	055	64.51
SML-4	4	1	0	055	72.53
SML-6	6	1	0	055	97.85

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

### Utility Backwater Valve Only Includes Valve Body & Flapper Assembly

**Socket x Socket  
Requires used of either 50 psi or 100 psi Extension Kit, or use of User-supplied equivalent components**



SML-3XP-A	3	1	0	055	44.60
SML-4XP-A	4	1	0	055	49.13
SML-6XP-A	6	1	0	055	72.77

### Utility Backwater Valve Extension Adapter Kit Select 50 psi or 100 psi Kit

**Kit includes Female Threaded Cleanout Adapter and Male Threaded Plug for use with User-Supplied 6" (for 4" valves) or 8" (for 6" valves) from Schedule 40 or Class 125 Riser Extension Pipe**



Note: 50 psi Kits have DWV Cleanout Plugs, 100 psi kits have Schedule 40 Threaded Plugs. User-supplied equivalent components can also be used.

SML4XP-A-EK50	3" & 4" 50 psi	1	0	055	37.44
SML4XP-A-EK100	3" & 4" 100 psi	1	0	055	77.21
SML6XP-A-EK50	6" 50 psi	3	0	055	52.51
SML6XP-A-EK100	6" 100 psi	3	0	055	96.37

### Utility Backwater Valve Flapper Replacement Kit

**Kit include Flapper Assembly For Repair or Replacement**



SML4XP-A-FRK	3" & 4"	1	10	055	30.45
SML6XP-A-FRK	6	1	5	055	36.19

### IPSX Sewer Adapter

**IPS DWV Spigot x Sewer Hub**



Adapts IPS DWV Valve Socket to Sewer Pipe

P118-030	3	25	0	051	5.89
P118-040	4	10	0	051	6.37
3729-06031XS	6	1	4	399	56.01

**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
<b>Socket x Socket</b>					
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
<b>Socket x Socket</b>					
Assembled with Extension					
S275P-120 <sup>1</sup>	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
<b>Socket x Socket</b>					
S275P-160 <sup>1</sup>	2X16HT	1	0	055	212.28
S275P-200 <sup>1</sup>	2X20HT	1	0	055	227.20
S275P-240 <sup>1</sup>	2X24HT	1	0	055	242.14
S275P-360 <sup>1</sup>	2X36HT	1	0	055	254.32
S275P-480 <sup>1</sup>	2X48HT	1	0	055	279.51
S375P-120 <sup>1</sup>	3X12HT	1	0	055	197.36
S375P-160 <sup>1</sup>	3X16HT	1	0	055	212.28
S375P-200 <sup>1</sup>	3X20HT	1	0	055	227.20
S375P-240 <sup>1</sup>	3X24HT	1	0	055	242.14
S375P-360 <sup>1</sup>	3X36HT	1	0	055	254.32
S375P-480 <sup>1</sup>	3X48HT	1	0	055	279.51
S475P-120 <sup>1</sup>	4X12HT	1	0	055	256.36
S475P-160 <sup>1</sup>	4X16HT	1	0	055	276.56
S475P-200 <sup>1</sup>	4X20HT	1	0	055	294.96
S475P-240 <sup>1</sup>	4X24HT	1	0	055	314.52
S475P-360 <sup>1</sup>	4X36HT	1	0	055	330.32
S475P-480 <sup>1</sup>	4X48HT	1	0	055	362.99
S675P-120 <sup>1</sup>	6X12HT	1	0	055	538.31
S675P-160 <sup>1</sup>	6X16HT	1	0	055	580.77
S675P-200 <sup>1</sup>	6X20HT	1	0	055	619.41
S675P-240 <sup>1</sup>	6X24HT	1	0	055	660.57
S675P-360 <sup>1</sup>	6X36HT	1	0	055	693.67
S675P-480 <sup>1</sup>	6X48HT	1	0	055	762.27

<sup>1</sup> - 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 <sup>1</sup>	2X12HT	1	0	055	61.55
SAEK-020-160 <sup>1</sup>	2X16HT	1	0	055	63.32
SAEK-020-200 <sup>1</sup>	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 <sup>1</sup>	<b>2X24HT</b>	1	0	055	68.09
SAEK-020-360 <sup>1</sup>	<b>2X36HT</b>	1	0	055	71.33
SAEK-020-480 <sup>1</sup>	<b>2X48HT</b>	1	0	055	74.81
SAEK-030-120 <sup>1</sup>	<b>3X12HT</b>	1	0	055	66.75
SAEK-030-160 <sup>1</sup>	<b>3X16HT</b>	1	0	055	75.35
SAEK-030-200 <sup>1</sup>	<b>3X20HT</b>	1	0	055	79.82
SAEK-030-240 <sup>1</sup>	<b>3X24HT</b>	1	0	055	89.96
SAEK-030-360 <sup>1</sup>	<b>3X36HT</b>	1	0	055	106.41
SAEK-030-480 <sup>1</sup>	<b>3X48HT</b>	1	0	055	125.86
SAEK-040-120 <sup>1</sup>	<b>4X12HT</b>	1	0	055	190.09
SAEK-040-160 <sup>1</sup>	<b>4X16HT</b>	1	0	055	203.87
SAEK-040-200 <sup>1</sup>	<b>4X20HT</b>	1	0	055	225.15
SAEK-040-240 <sup>1</sup>	<b>4X24HT</b>	1	0	055	244.55
SAEK-040-360 <sup>1</sup>	<b>4X36HT</b>	1	0	055	312.96
SAEK-040-480 <sup>1</sup>	<b>4X48HT</b>	1	0	055	381.38
SAEK-060-120 <sup>1</sup>	<b>6X12HT</b>	1	0	055	278.97
SAEK-060-160 <sup>1</sup>	<b>6X16HT</b>	1	0	055	342.94
SAEK-060-200 <sup>1</sup>	<b>6X20HT</b>	1	0	055	381.27
SAEK-060-240 <sup>1</sup>	<b>6X24HT</b>	1	0	055	420.02
SAEK-060-360 <sup>1</sup>	<b>6X36HT</b>	1	0	055	542.16
SAEK-060-480 <sup>1</sup>	<b>6X48HT</b>	1	0	055	662.82

<sup>1</sup> - 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	<b>2</b>	1	8	055	96.40
S375P-AK	<b>3</b>	1	0	055	96.40
S475P-AK	<b>4</b>	1	0	055	112.77
S675P-AK	<b>6</b>	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	<b>2</b>	1	8	055	51.34
S375P-ECK	<b>3</b>	1	8	055	51.34
S475P-ECK	<b>4</b>	1	0	055	66.89
S675P-ECK	<b>6</b>	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 <sup>1</sup>
3"	5" Class 125 PVC PIPE 5" Sch 40 PVC PIPE <sup>3</sup> 6" D3034 (SDR 35) PVC SEWER PIPE <sup>2</sup>	
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**

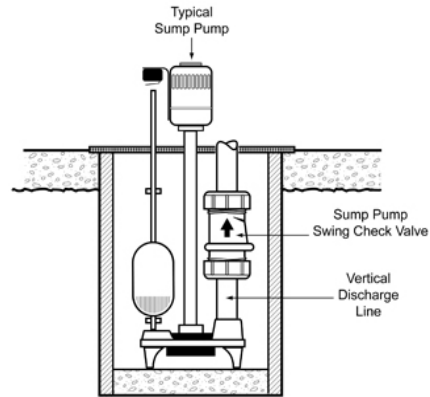
Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
Complete Flapper Assembly replacement					
<a href="#">S275P-FRK</a>	<b>2</b>	1	10	055	38.20
<a href="#">S375P-FRK</a>	<b>3</b>	1	10	055	48.18
<a href="#">S475P-FRK</a>	<b>4</b>	1	10	055	56.12
<a href="#">S675P-FRK</a>	<b>6</b>	1	5	055	99.93

**PVC Backwater Valve Metric Adapters**



**Backwater Valve Metric Adapters**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>Metric Socket x ASTM Spigot</b>					
<a href="#">S275MA-063</a>	<b>63mm X 2</b>	50	0	055	16.93
<a href="#">S375MA-090</a>	<b>90mm X 3</b>	25	0	055	18.19
<a href="#">S475MA-110</a>	<b>110mm X 4</b>	10	0	055	21.55
<a href="#">S675MA-160</a>	<b>160mm X 6</b>	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

<a href="#">S1400-15</a>	<b>1-1/2" &amp; 1-1/4"</b>	16	0	026	20.83
--------------------------	----------------------------	----	---	-----	-------



**Swing Check Ball Valves & Quiet Check Valves**

**Swing Check Ball Valves**



- One-piece Combination for Applications Requiring In-line Ball Valve and Check Valves
- Compact, Space-Saving Design
- True Union Design Allows Easy Service and Cleaning
- High Grade EPDM Seals
- Replaceable PTFE HDPE Ball Valve Seats
- Safety-Blocked™ Seal Carrier on Ball Valve
- Replaceable Sealed Check Valve Cartridge
- Suitable for Horizontal or Vertical Up-flow Installations
- Socket End Connections

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

**Maximum Service Temperature**  
 140°F (60°C)

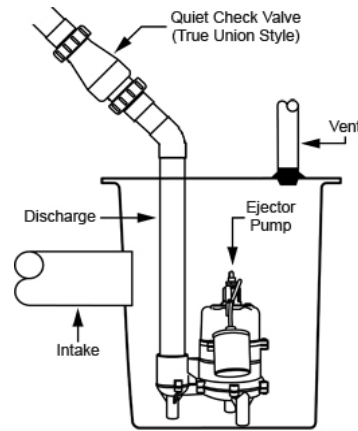
Temperature/Pressure De-ratings Apply

**General Installation Information:** Swing Check Ball Valves are designed for horizontal installations, but may be installed in an up-flow only vertical position. The Check Valve portion **MUST** be installed with the valve's FLOW arrow pointing in the direction of flow and with the designated side up in horizontal installations. Do Not install Check Valve upside down. The Ball Valve portion may be rotated and installed in any position. Flow velocity should not exceed 5 ft./sec. Minimum opening pressure is less than 0.5 psi.

**PVC Swing Check Ball Valve**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>Socket x Socket</b>					
7622-015	1-1/2	10	0	026	47.17
7622-020	2	6	0	026	67.69

**Quiet Check Valves**



Typical Application

- Designed to Provide Quiet Operation in Sump Pump or Sewage Ejector Pump Systems.
- Spring Controlled Rate of Closing Prevents Slamming and Eliminates Noise.
- Includes Both True Union Sockets for Easy Servicing and Direct Socket Connection for Installation in Confined Space.
- 2" Size for Sewage Ejector Systems, 1-1/2" Size for Sump Pump Effluent Systems.

**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:** Install check valve 12"-18" above pump discharge, or as recommended by pump system manufacturer. Be sure check valve installation complies with local codes. Valve may be installed in either vertical up-flow 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."

**PVC Quiet Check Valve**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>Soc x Soc</b>					
True Union or Direct Socket End Connection					
8622-015	1-1/2	12	0	026	46.66
8622-020	2	10	0	026	66.69