

CPVC Performance Engineered and Tested



SPEARS® Schedule 80 CPVC pipe and fitting designs combine years of proven experience with computer generated stress analysis to yield the optimum physical structure and performance for each fitting. Material reinforcement is uniformly placed in stress concentration areas for substantially improved pressure handling capability. Resulting products are subjected to numerous verification tests to assure the very best CPVC piping products available.

1/4" Through 24" Availability

Spears® comprehensive line of CPVC fittings offers a variety of configurations in Schedule 80 sizes 1/4" through 24".

Exceptional Chemical & Corrosion Resistance

Unlike metal, CPVC fittings never rust, scale or pit, and will provide many years of maintenance-free service and extended system life.

Higher Temperature Ratings

High Temperature CPVC Thermoplastics can handle fluids at service temperatures up to 200°F, allowing a wide range of process applications, including hot corrosive liquids.

Higher Flow Capacity

Smooth interior walls result in lower pressure loss and higher volume than conventional metal fittings.

Lower Installation Costs

Substantially lower material costs than steel alloys or lined steel, combined with lighter weight and ease of installation, can reduce installation costs by as much as 60% over conventional metal systems.

SPEARS® Schedule 80 14" Through 24" Fittings & Flanges

Schedule 80 CPVC 14" through 24" fittings are a special engineered product by Spears® Manufacturing Company, where no applicable ASTM specifications exist. Available in a variety of injection molded and fabricated configurations including Flanges, Couplings, Elbows, Bushings and Tees, plus custom fabrication to virtually any configuration.

1/8" Through 24" Industrial Pipe Availability

Spears® premium quality Industrial CPVC pipe is offered in Schedule 80 sizes 1/8" through 24". Schedule 40 CPVC pipe is also available.

American Bureau of Shipping (ABS) Type Approval

Spears® Schedule 40 and Schedule 80 CPVC pipe and fittings are ABS Type Approved for marine and offshore applications in nominal pipe sizes through 12". Type Approval details and restrictions are specified in ABS Certificate # 10-HS539421-1-PDA available on the ABS website at www.eagle.org.

CPVC Sample Engineering Specifications

All CPVC Schedule 80 fittings shall be produced by Spears® Manufacturing Company from CPVC materials, cell classification 23447 conforming to ASTM Standard D 1784. All injection molded fittings through 12" shall be manufactured in compliance to ASTM F 439 and all pipe through 16" shall be manufactured in compliance to ASTM F 441. Pipe and fittings shall be Certified by NSF International for use with potable water service. All 14" through 24" and fabricated fittings shall be produced in accordance with Spears® Specifications. All CPVC flanges shall be designed and manufactured to meet CL150 bolt pattern per ANSI Standard B16.5.

Pipe Flanges



Pipe Flanges

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



Flange - Blind

1/2" - 12" Molded - 150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

14" - 24" Fabricated - 50 psi Maximum Internal Pressure Rating @ 73°F (23°C)

| | | | | |
|-----------|-------|----|-----|-----|
| 853-005C | 1/2 | 25 | 100 | 090 |
| 853-007C | 3/4 | 25 | 0 | 090 |
| 853-010C | 1 | 20 | 0 | 090 |
| 853-012C | 1-1/4 | 20 | 0 | 090 |
| 853-015C | 1-1/2 | 15 | 0 | 090 |
| 853-020C | 2 | 10 | 0 | 090 |
| 853-025C | 2-1/2 | 10 | 0 | 090 |
| 853-030C | 3 | 10 | 0 | 090 |
| 853-040C | 4 | 8 | 0 | 090 |
| 853-060C | 6 | 5 | 0 | 090 |
| 853-080C | 8 | 5 | 0 | 090 |
| 853-100C | 10 | 3 | 0 | 091 |
| 853-120C | 12 | 2 | 0 | 091 |
| 853-140CF | 14 | 1 | 0 | 097 |
| 853-160CF | 16 | 1 | 0 | 097 |
| 853-180CF | 18 | 1 | 0 | 097 |
| 853-200CF | 20 | 1 | 0 | 097 |
| 853-240CF | 24 | 1 | 0 | 097 |

Flange Van Stone Style with Plastic Ring

Socket

1/2" - 18" molded - 150 psi = maximum internal pressure rating @ 73°F (23°C)

18" - 24" fabricated - 50 psi = maximum internal pressure rating @ 73°F (23°C)

| | | | | |
|----------|-------|----|---|-----|
| 854-005C | 1/2 | 25 | 0 | 090 |
| 854-007C | 3/4 | 25 | 0 | 090 |
| 854-010C | 1 | 15 | 0 | 090 |
| 854-012C | 1-1/4 | 15 | 0 | 090 |
| 854-015C | 1-1/2 | 20 | 0 | 090 |
| 854-020C | 2 | 10 | 0 | 090 |
| 854-025C | 2-1/2 | 10 | 0 | 090 |
| 854-030C | 3 | 10 | 0 | 090 |
| 854-040C | 4 | 5 | 0 | 090 |
| 854-050C | 5 | 5 | 0 | 090 |
| 854-060C | 6 | 5 | 0 | 090 |
| 854-080C | 8 | 2 | 0 | 090 |
| 854-100C | 10 | 2 | 0 | 091 |
| 854-120C | 12 | 2 | 0 | 091 |
| 854-140C | 14 | 1 | 0 | 095 |
| 854-160C | 16 | 1 | 0 | 095 |
| 854-180C | 18 | 1 | 0 | 095 |

Made in the U.S.A.

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

Flange Van Stone Style with Plastic Ring (continued)

Socket

| | | | | |
|-----------|----|---|---|-----|
| 854-200CF | 20 | 1 | 0 | 097 |
| 854-240CF | 24 | 1 | 0 | 097 |



Flange Van Stone Style with Plastic Ring

Spigot

150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

| | | | | |
|-----------|-------|----|---|-----|
| 856-005C | 1/2 | 25 | 0 | 090 |
| 856-007C | 3/4 | 25 | 0 | 090 |
| 856-010C | 1 | 15 | 0 | 090 |
| 856-012C | 1-1/4 | 15 | 0 | 090 |
| 856-015C | 1-1/2 | 15 | 0 | 090 |
| 856-020C | 2 | 10 | 0 | 090 |
| 856-025C | 2-1/2 | 10 | 0 | 090 |
| 856-030C | 3 | 10 | 0 | 090 |
| 856-040C | 4 | 5 | 0 | 090 |
| 856-060C | 6 | 4 | 0 | 090 |
| 856-080C | 8 | 2 | 0 | 090 |
| 856-100C | 10 | 2 | 0 | 091 |
| 856-120C | 12 | 2 | 0 | 091 |
| 856-140CF | 14 | 1 | 0 | 097 |
| 856-160CF | 16 | 1 | 0 | 097 |

Flange Van Stone Style with Plastic Solid Ring

Socket

150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

| | | | | |
|-----------|----|----|---|-----|
| S854-030C | 3 | 10 | 0 | 090 |
| S854-040C | 4 | 5 | 0 | 090 |
| S854-060C | 6 | 4 | 0 | 090 |
| S854-080C | 8 | 2 | 0 | 090 |
| S854-100C | 10 | 2 | 0 | 091 |
| S854-120C | 12 | 2 | 0 | 091 |

Flange Van Stone Style Class 300 Bolt Pattern
Fabricated with Plastic Ring

Socket

Molded with fabricated ring - 150 psi = maximum internal pressure rating @ 73°F (23°C)

| | | | | |
|---------------|-------|---|----|-----|
| 854-005CL300C | 1/2 | 1 | 25 | 097 |
| 854-007CL300C | 3/4 | 1 | 25 | 097 |
| 854-010CL300C | 1 | 1 | 15 | 097 |
| 854-012CL300C | 1-1/4 | 1 | 15 | 097 |
| 854-015CL300C | 1-1/2 | 1 | 20 | 097 |
| 854-020CL300C | 2 | 1 | 10 | 097 |
| 854-025CL300C | 2-1/2 | 1 | 10 | 097 |
| 854-030CL300C | 3 | 1 | 10 | 097 |
| 854-040CL300C | 4 | 1 | 5 | 097 |
| 854-060CL300C | 6 | 1 | 4 | 097 |
| 854-080CL300C | 8 | 1 | 3 | 097 |

