

Transition Fittings Product
Special Reinforced (SR) & Metal Threaded Transition Fittings & Adapters



TRANSITION FITTINGS OVERVIEW

Spears® Transition fittings are designed primarily for adapting plastic-to-metal systems. These fittings, especially the Special Reinforced (SR) Female Plastic Thread style, can also be used for superior strength in make-up of plastic threaded joints. Spears® offers a variety of transition adapter fittings specified below. All have standard ASTM socket sizes for IPS pipe and NPT threads, except for the Gasket Sealed style that uses a straight thread with elastomer seal. All other threads should be assembled with a quality grade thread sealant that is compatible with plastics.

Warning: Some pipe joint compounds or PTFE pastes may contain substances that could cause stress cracking in thermoplastic materials. Spears® recommends the use of Spears® BLUE 75™ thread sealant that has been tested for compatibility with Spears® products. Choice of any other appropriate thread sealant is at the discretion of the installer.

Special Reinforced (SR) Thread Fittings: This patented fitting features all-plastic female thread construction that reduces problems associated with over-tightening of female plastic pipe threads. The external reinforcing collar is not just an added reinforcement ring, this unique precompression design compensates for expansion forces generated from tapered pipe thread joint make-up. Radial stress is reduced in normal installations and contained in severe over-tightening situations. The all-plastic internal construction provides for the maximum in chemical and corrosion benefits. Its solid construction and reliability make the SR our best transition design for all applications.

Brass Thread Fitting: This patented fitting features a molded-in-place brass thread with external reinforcing collar as an integral part of each fitting for superior strength. An internal form-compressed O-ring seal compensates for expansion and contraction variations between materials. Excellent as a metal-to-plastic transition adapter fitting.

Male Brass Thread Fitting: Developed for Copper Tube Size (CTS) hot-and-cold water distribution systems, this male brass thread alternative is the only metal thread design of its type that has the metal component lined with plastic for improved fitting construction and minimal exposure. Excellent for transition to female metal threads in a CTS system.

Gasket Sealed Thread Fittings: Also developed for Copper Tube Size (CTS) hot-and-cold water distribution systems, this female threaded fitting features all plastic internal construction for maximum corrosion resistance. The fitting incorporates straight-threads for mechanical connection, while sealing is accomplished through an internal elastomer gasket or O-ring against the pipe face. No sealants are used.

APPROVALS

Except where otherwise specified, Spears® Transition Fittings/Materials are approved for use in potable water systems by NSF® International under ANSI/NSF® Standard 61, Drinking Water System Components - Health Effects.

CPVC Orange Fittings in this SPS-1 (4200 series part numbers) are approved by Underwriters Laboratories, FM Global, or LPCB for use in CPVC Fire Sprinkler Systems. When installed in these systems, installation must be made in accordance with Spears® publication FG-3, *FlameGuard® CPVC Fire Sprinkler Products Installation Manual*, and local codes. However, these fittings can also be used in many other types of installations. CPVC fittings may also be used on PVC pipe when installed using a quality CPVC solvent cement meeting the requirements of ASTM F 493, Standard Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings.

TECHNICAL INFORMATION

See Engineering Sourcebook SES-1 for specific product (i.e., Schedule 80 PVC Technical Information, Copper Tube Size (CTS) Technical Information, FlameGuard® CPVC Fire Sprinkler Products Technical Information, etc.).



Transition Fittings Product
PVC White Special Reinforced (SR) Fittings

PVC White Special Reinforced (SR) Fittings

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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Female Adapter - Special Reinforced

Socket x SR Fipt - Stainless Steel Collar



435-002SR	1/4	25	450	046	6.86
435-003SR	3/8	25	300	046	6.86
435-005SR	1/2	25	150	046	3.81
435-007SR	3/4	25	300	046	5.55
435-010SR	1	25	200	046	8.24
435-012SR	1-1/4	10	60	046	13.33
435-015SR	1-1/2	10	80	046	16.41
435-020SR	2	10	0	046	28.63
435-025SR	2-1/2	5	0	046	45.18
435-030SR	3	15	0	046	50.89
435-040SR	4	5	0	046	87.46

Tee - Special Reinforced

Socket x SR Fipt - Stainless Steel Collar



402-005SR	1/2	25	200	046	9.89
402-012SR	1-1/4	25	0	046	19.45

Tee - Special Reinforced Reducing

Socket x SR Fipt - Stainless Steel Collar



402-072SR	1/2X1/4	25	150	046	9.89
402-098SR	3/4X1/4	25	100	046	12.85
402-101SR	3/4X1/2	50	0	046	12.85
402-166SR	1-1/4X1/2	15	0	046	21.51
402-168SR	1-1/4X1	10	0	046	21.94
402-212SR	1-1/2X1-1/4	10	0	046	23.76
402-287SR	2-1/2X1/2	10	0	046	28.91
402-288SR	2-1/2X3/4	10	0	046	30.55
402-289SR	2-1/2X1	10	0	046	30.85
402-290SR	2-1/2X1-1/4	10	0	046	30.37
402-291SR	2-1/2X1-1/2	10	0	046	31.57
402-292SR	2-1/2X2	10	0	046	31.83
402-333SR	3X1/2	10	0	046	38.55
402-334SR	3X3/4	10	0	046	38.55
402-335SR	3X1	10	0	046	39.33
402-336SR	3X1-1/4	10	0	046	40.25
402-337SR	3X1-1/2	10	0	046	39.88
402-338SR	3X2	6	0	046	42.26
402-417SR	4X1	6	0	046	51.06
402-419SR	4X1-1/2	10	0	046	56.07
402-420SR	4X2	10	0	046	57.91
402-422SR	4X3	6	0	046	90.99

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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Tee - Special Reinforced Reducing

Socket x SR Fipt-Stainless Steel Collar x Socket



403-095SR	3/4X1/2X3/4	50	0	046	3.35
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90° Ell - Special Reinforced & Reducing 90° Ell

Socket x SR Fipt - Stainless Steel Collar



407-005SR	1/2	50	400	046	8.79
407-007SR	3/4	75	0	046	11.27
407-010SR	1	50	0	046	11.39
407-012SR	1-1/4	25	0	046	13.77
407-131SR	1X3/4	50	0	046	10.89
407-168SR ¹	1-1/4X1	25	0	046	19.09
407-249SR	2X1	10	0	046	21.71
407-251SR	2X1-1/2	10	0	046	22.89

¹ Sized with SR Adapter

Coupling - Special Reinforced

SR Fipt x SR Fipt - Stainless Steel Collar



430-005SR	1/2	25	300	046	4.52
430-007SR	3/4	25	150	046	6.45
430-010SR	1	25	200	046	6.89
430-012SR	1-1/4	10	120	046	8.59
430-015SR	1-1/2	10	60	046	18.99
430-020SR	2	10	0	046	19.92

Coupling - Special Reinforced Reducer

SR Fipt x SR Fipt - Stainless Steel Collar



430-101SR	3/4X1/2	50	200	046	9.77
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Female Spigot Adapter - Special Reinforced

Spigot x SR Fipt - Stainless Steel Collar



478-005SR	1/2	50	600	046	5.01
478-007SR	3/4	25	300	046	5.91
478-010SR	1	50	0	046	9.09
478-012SR	1-1/4	25	0	046	14.48
478-015SR	1-1/2	25	0	046	17.36
478-020SR	2	15	0	046	28.91
478-030SR	3	5	0	046	53.14
478-040SR	4	5	0	046	82.07

Transition Fittings Product

PVC White Special Reinforced (SR) Fittings & PVC White Brass Thread Fittings



PVC White Special Reinforced (SR) Fittings

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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Female Spigot Adapter - Special Reinforced Reducing

Spigot x SR Fipt - Stainless Steel Collar

478-072SR	1/2X1/4	25	450	046	13.94
478-098SR	3/4X1/4	50	300	046	20.29
478-128SR	1X1/4	50	400	046	20.92

Spears® SR Series reinforced spigot adapters can be user-installed in a variety of socket type tees, elbows and reducer bushings for superior thread reinforcement demanding applications.



Female Adapter - Special Reinforced Reducing

Socket x SR Fipt - Stainless Steel Collar

435-072SR	1/2X1/4	50	600	046	4.98
435-074SR	1/2X3/4	50	400	046	5.55
435-101SR	3/4X1/2	50	400	046	5.55
435-102SR	3/4X1	50	0	046	8.24
435-130SR	1X1/2	50	0	046	8.24
435-131SR	1X3/4	25	200	046	8.24



Reducer Bushing - Special Reinforced Flush Style

Spigot x SR Fipt - Stainless Steel Collar

438-128SR	1X1/4	25	150	046	4.05
438-166SR	1-1/4X1/2	25	100	046	7.41
438-207SR	1-1/2X1/4	25	100	046	10.35
438-209SR	1-1/2X1/2	25	100	046	10.35
438-210SR	1-1/2X3/4	25	100	046	10.35
438-247SR	2X1/2	10	80	046	12.66
438-248SR	2X3/4	10	80	046	12.66
438-249SR	2X1	10	120	046	12.66
438-334SR	3X3/4	10	0	046	49.59
438-335SR	3X1	10	0	046	49.59
438-336SR	3X1-1/4	10	0	046	49.59
438-337SR	3X1-1/2	10	0	046	49.59
438-420SR	4X2	6	0	046	76.21
438-421SR	4X2-1/2	6	0	046	85.77
438-528SR	6X2	5	0	046	87.76
438-530SR	6X3	5	0	046	79.01
438-532SR	6X4	5	0	046	87.76



Reducer Bushing - Special Reinforced Flush Style

Mipt X SR Fipt - Stainless Steel Collar

439-209SR	1-1/2X1/2	25	300	046	10.73
439-248SR	2X3/4	10	60	046	9.72
439-249SR	2X1	10	120	046	15.76



Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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Cap - Special Reinforced

SR Fipt - Stainless Steel Collar

448-012SR	1-1/4	25	100	046	8.26
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Union - Special Reinforced Fipt/Buna

Socket x SR Fipt with Buna O-ring Seal - Stainless Steel Collar

235 psi @ 73°F (23°C)

459-002SR	1/4	25	150	046	18.81
459-003SR	3/8	25	100	046	18.81
459-005SR	1/2	10	60	046	10.22
459-007SR	3/4	10	60	046	14.05
459-010SR	1	10	40	046	18.71
459-012SR	1-1/4	5	20	046	35.72
459-015SR	1-1/2	5	0	046	44.22
459-020SR	2	5	0	046	68.08
459-030SR	3	5	0	046	160.77
459-040SR	4	4	0	046	184.59
459-060SR	6	1	0	046	410.19



Union - Special Reinforced Fipt/EPDM

Socket x SR Fipt with EPDM O-ring Seal - Stainless Steel Collar

235 psi @ 73°F (23°C)

499-002SR	1/4	25	150	046	20.65
499-003SR	3/8	25	100	046	20.65
499-005SR	1/2	10	60	046	11.22
499-007SR	3/4	10	40	046	15.45
499-010SR	1	10	40	046	20.55
499-012SR	1-1/4	5	20	046	39.24
499-015SR	1-1/2	5	0	046	48.59
499-020SR	2	5	0	046	74.83
499-030SR	3	5	0	046	176.67
499-040SR	4	4	0	046	202.83
499-060SR	6	1	0	046	450.77



PVC White Brass Thread Fittings

Union - Brass Fipt/Buna

Socket x Fipt with Brass Thread Insert & Buna-N O-ring Seal

235 psi @ 73°F (23°C)

459-010BR	1	10	0	046	79.49
459-012BR	1-1/4	5	20	046	133.53
459-015BR	1-1/2	5	0	046	176.65
459-020BR	2	5	0	046	235.64



Not intended to convey or dispense water for human consumption through drinking or cooking