Schedule 40 Fittings Technical Schedule 40 Product Overview



Performance Engineered & Tested



SPEARS[®] Schedule 40 PVC 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 PVC fittings available.

Full 1/4" Through 14" Availability

Spears[®] comprehensive line of PVC fittings offers a variety of injection molded configurations in Schedule 40 sizes 1/4" through 14" conforming to ASTM D 2466.

Exceptional Chemical & Corrosion Resistance

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

High Temperature Ratings

PVC thermoplastic can handle fluids at service temperatures up to $140^{\circ}F$ (60°C), allowing a wide range of process applications, including corrosive fluids.

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.

Higher Flow Capacity

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

Additional Fabricated Configurations through 36"

Extra large, hard-to-find, and custom configurations are fabricated from NSF[®] Certified pipe. Fittings are engineered and tested to provide full pressure handling capabilities according to Spears[®] specifications.

PVC Valves

SPEARS[®] PVC Valve products are available for total system compatibility and uniformity.

Advanced Design Specialty Fittings

Spears[®] wide range of innovative, improved products include numerous metal-to-plastic transition fittings and unions with Spears[®] patented special reinforced (SR) plastic threads.

1/2" Through 16" Industrial Pipe Availability

Spears[®] premium quality Industrial PVC pipe is offered in Schedule 40 White sizes 1/2" through 16".

Sample Engineering Specifications

All PVC Schedule 40 fittings shall be produced by Spears[®] Manufacturing Company from PVC Type I cell classification 12454, conforming to ASTM D 1784. All injection molded PVC Schedule 40 fittings shall be Certified for potable water service by NSF International and manufactured in strict compliance to ASTM D 2466. All fabricated fittings shall be produced in accordance with Spears[®] General Specifications for Fabricated Fittings.

Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information



(Continued)

Tee - Reducina -M1 Socket x Socket x Socket H1 M M2 GI ŧ G ·G2 <--H2 H Approx. Wt. Part Number Size G G1 G2 Н H1 H2 L Μ M1 M2 (Lbs.) D401-166 1-1/4X1/2 23/32 31/32 23/32 1-31/32 2-3/16 1-31/32 3-29/32 2 1-1/8 2 .21 401-167 1-1/4X3/4 21/32 31/32 21/32 1-29/32 1-31/32 1-29/32 3-13/16 2 1-11/32 .19 2 401-168 1-1/4X1 13/16 13/16 1-15/16 2 3-27/32 2 1- 5/8 2 .21 1-15/16 1 401-169 1-1/4X1-1/2 1-3/32 1 1-3/32 2-11/32 2-5/16 2-11/32 4-11/16 1-31/32 2-7/32 1-31/32 .30 401-170 1-1/4X2 1-11/32 1-11/32 2-19/32 2-3/8 2-19/32 5-3/16 2-3/4 .38 1 2 2 11/16 1-1/8 1-7/8 3-15/16 2-1/4 2 401-199 1-1/2X1-1/4X1/2 11/16 1-15/16 1-1/8 .21 2 401-201 1-1/2X1-1/4X3/4 21/32 1-5/32 21/32 1-15/16 2-3/16 1-15/16 3-7/8 2-1/4 1-11/32 2 .25 1-1/2X1-1/4X1 401-202 13/16 1-3/16 13/16 2-1/8 2-9/32 2-1/16 4-3/16 2-1/4 1-5/8 2 .28 401-209 1-1/2X1/2 17/32 1-3/32 17/32 1-27/32 1-27/32 1-27/32 3-11/16 2-7/32 1-1/8 2-7/32 .22 D401-209 2-7/32 2-7/32 .22 1-1/2X1/2 17/32 1-1/16 17/32 1-27/32 2-5/16 1-27/32 3-11/16 1-1/16 401-210 1-1/2X3/4 21/32 1-3/32 21/32 1-31/32 2-3/32 1-31/32 3-29/32 2-7/32 1-5/16 2-7/32 .24 401-211 1-1/2X1 25/32 27/32 25/32 2-3/32 1-31/32 2-3/32 4-3/16 2-7/32 1- 5/8 2-7/32 .27 401-212 1-1/2X1-1/4 1 1-3/16 1 2-9/32 2-7/16 2-9/32 4-19/32 2-1/4 2 2-1/4 .31 401-213 1-1/2X2 1-5/16 1-3/16 1-5/16 2-5/8 2-9/16 2-5/8 5-7/32 2-1/4 2-3/4 2-1/4 .39 401-214 1-21/32 1-1/2X2-1/2 1-3/16 1-21/32 2-31/32 2-15/16 2-31/32 5-15/16 2-1/4 3-11/32 2-1/4 .58 401-233 2X1X2 2-3/4 2-3/4 1- 1/4 1- 1/4 1-7/32 2-19/32 2-19/32 2-11/32 5 1-5/8 .40 401-238 21/32 21/32 2- 1/32 1-31/32 2-23/32 1-5/16 2-1/4 .31 2X1-1/2X3/4 1-13/32 2-13/32 4 1- 1/2 2-1/8 4-9/32 2-3/4 401-239 2X1-1/2X1 13/16 2-5/8 2-1/8 1-5/8 2-1/4 13/16 .36 2-3/8 401-241 2X1-1/2X1-1/2 1-9/32 1- 1/32 2-9/16 2-5/16 4-11/16 2-23/32 2-7/32 2-7/32 .37 1 401-247 35/64 1-11/32 35/64 1-59/64 2-3/32 1-59/64 3-27/32 1-3/32 2-23/32 .32 2X1/2 2-23/32 D401-247 2X1/2 9/16 1-7/32 9/16 1-15/16 2-1/2 1-15/16 3-7/8 2-23/32 1-1/16 2-23/32 30 401-248 2X3/4 21/32 1-1/2 21/32 2-1/32 2-1/16 2-1/32 4-1/16 2-3/4 1-11/32 2-3/4 .32 2-3/16 401-249 2X1 1-3/8 13/16 2-1/2 2-3/16 4-3/8 2-23/32 1- 5/8 2-23/32 .36 13/16 401-250 2X1-1/4 1-3/8 2-3/8 2-5/8 2-3/8 4-23/32 2-23/32 1-31/32 2-23/32 .39 1 1 2X1-1/2 1-1/16 1-5/16 1- 1/16 2-3/8 2-3/8 2-23/32 .42 401-251 2-9/16 4-3/4 2-1/4 2-23/32 401-253 2X3 2-7/8 1-13/16 2-7/8 4-1/4 3-13/16 4-1/4 8-1/2 4 4 3-15/16 2.34 2X4 4-25/32 3-13/32 2-3/8 3-13/32 4-3/8 4-25/32 9-9/16 5-1/16 5-1/16 5-1/16 4.06 401-254 401-287 25/32 25/32 2-7/32 2-17/32 5-1/16 3- 5/16 1- 1/16 3- 5/16 2-1/2X1/2 1-15/32 2-17/32 .56 401-288 2-1/2X3/4 7/8 1-9/16 7/8 2-5/8 2-1/2 2-5/8 5-9/32 3-5/16 1-5/16 3-5/16 .59 401-289 13/16 1-17/32 13/16 2-21/32 2-13/16 2-1/2X1 2-13/16 5-5/8 3-5/16 1- 5/8 3-5/16 .64 401-290 2-1/2X1-1/4 1-7/32 1-21/32 1-7/32 2-31/32 2-29/32 2-31/32 5-31/32 3-11/32 2-1/32 3-11/32 .74 401-291 2-1/2X1-1/2 1-3/16 1-5/8 1- 3/16 2-31/32 2-15/16 2-31/32 5-15/16 2-1/4 3-11/32 .69 3-11/32 401-292 2-1/2X2 1-13/32 1-21/32 3-3/16 3-5/16 2-3/4 3- 5/16 .76 1-13/32 3-3/16 3- 1/32 6-3/8 401-293¹ 2-1/2X3 2-1/4 1-31/32 2-1/4 4-1/4 3-13/16 4- 1/4 8-15/32 4 4 4 2.15 2-1/2X4 2-3/4 2-3/8 2-3/4 4-3/4 4-3/8 4-3/4 5-1/16 3.85 401-294¹ 9-1/2 5 5-1/16 401-333 11/16 2-17/32 2-9/16 .70 3X1/2 11/16 1-13/16 2-9/16 5-1/32 3-31/32 1-3/32 3-31/32 401-334 2-21/32 2-21/32 5-9/32 3X3/4 3/4 2 3/4 4 1-11/32 4 .84 3 401-335 3X1 29/32 1-25/32 29/32 2-51/64 2-29/32 2-51/64 5-19/32 3-31/32 1-19/32 3-31/32 .83 401-336 1-7/32 1-31/32 1-7/32 2-31/32 3-7/32 2-31/32 5-15/16 .92 3X1-1/4 4 2 4 4-1/16 401-337 3X1-1/2 1-7/32 1-13/16 1-7/32 3-3/32 3-1/8 3-3/32 6-3/16 2-7/32 4-1/16 .98 401-338 3X2 1-7/16 1-13/16 1-7/16 3-11/32 3-3/16 3-11/32 6-11/16 3-31/32 2-23/32 3-31/32 1.04 401-339 3X2-1/2 1-3/4 1-31/32 1-3/4 3- 5/8 3-11/16 3- 5/8 7-1/4 4-3/16 3-17/32 4-3/16 1.91 401-342 3X4 2-19/32 2-19/32 4-1/2 4- 1/32 4-1/2 8-31/32 3-31/32 5- 1/32 3-31/32 1.78 2

401-344¹

3X6

5- 1/2

4

5-1/2

7

7- 1/2

7-1/4

15

7-1/4

7-1/4

7-1/2

10.33