

In order to recommend the proper type of Cresline Plastic Pipe, you need to know three things:

1. What fluid?
2. At what pressure?
3. At what temperature?

What Fluid?

All Cresline pipe except Spartan, HD 100, HD 125, Yellow Gas, PVC Reclaimed Water, PVC-DWV Cellular Core, DS and Sewer pipe is approved for drinking water use by the National Sanitation Foundation, so you have no problem when any type of cold water transmission is involved. However, when chemicals are involved, you need to consult the Chemical Resistance Chart (Bulletin No. T-4) to make a proper recommendation. All types of Cresline Plastic Pipe are highly resistant to a wide variety of corrosive chemicals, but some types are better than others. As a further help, typical applications are listed with each type of pipe in this Guide.

NOTE: DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR SYSTEMS.

At What Pressure?

A pressure rating is given for all types and sizes of Cresline pipe except PVC-DWV Cellular Core, DS and Sewer where pressure generally is not involved. The pressure rating for each pipe is figured at the industry standard of 73.4° F (about 13° warmer than most drinking water). Cresline pipe has the pressure rating marked right on the pipe. Ratings are listed for each Cresline pipe in this Guide.

At What Temperature?

Pressure ratings go down as temperatures go up. HD 100 pipe, for instance, is pressure-rated at 100 PSI at 73.4° F. It drops to 80 PSI at 100° F, and to 60 PSI at 120° F. Conversely, pressure may be increased to 108 PSI at 60° F and to 115 PSI at 50° F. The maximum recommended temperature for polyethylene and PVC pipe is 140° F.

The pressure ratings for each pipe are figured at 73.4° F. Pressure ratings for transmitting warmer or cooler liquids can be found on the product specification sheets under the table entitled "Conversion Chart for Pressure Ratings at Various Temperatures."

Also keep in mind whether the pipe will be subjected to exterior heat as from the sun or other heat sources and figure maximum allowable pressures accordingly.

HOW TO USE THIS GUIDE

You can recommend a specific Cresline pipe after you have answers to the three basic questions: What fluid? At what pressure? At what temperature?

There are 7 basic types with a total of 15 variations to choose from:

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|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Cresline Flexible Plastic Pipe
Cresline HD
Cresline CE Blue
Spartan
Cresline Yellow Gas Pipe | 3. Cresline Drain, Waste and Vent Pipe (DWV)
PVC-DWV SCH 40 Solid Wall
PVC-DWV Cellular Core |
| 2. Cresline PVC Pressure Pipe
SDR-26
SDR-21
Reclaimed Water Pipe
Schedule 40
Schedule 80 | 4. Cresline PVC Drain and Sewer Pipe (DS)
5. Cresline PVC Sewer Pipe
6. Cresline CPVC Hot and Cold Pipe (HC)
7. Cresline Well Pipe and Casing |

Under each pipe heading you will find the following material to help you:

Resin
General Characteristics
Pressure Rating @ 73.4° F

Available Sizes
Standard Met or Exceeded
Typical Applications

This information will also help you when facing a customer who claims he can get "the same pipe cheaper." You will be able to prove that Cresline prices are competitive for pipe made of the same resin, same pressure rating, and to the same standards as the "other brand."

Finally, you will find a Chemical Resistance Chart (Bulletin No. T-4) listing some 500 chemicals alphabetically and the resistance of each type of Cresline pipe to them. This will be most helpful in recommending pipe for industrial use.

CRESLINE HD

Resin: Polyethylene PE 4710 (High Density).

General Characteristics: Lighter in weight than medium density pipe because less material is required to produce equal working pressure.

HD 250

Pressure Rating Per Sq. Inch @ 73.4° F: 250 PSI

Available Sizes: ¾", 1", 1¼", 1½", 2"

HD 200

Pressure Rating Per Sq. Inch @ 73.4° F: 200 PSI

Available Sizes: ¾", 1", 1¼", 1½", 2".

HD 160

Pressure Rating Per Sq. Inch @ 73.4° F: 160 PSI

Available Sizes: ½", ¾", 1", 1¼", 1½", 2".

HD 125

Pressure Rating Per Sq. Inch @ 73.4° F: 125 PSI

Available Sizes: ¾", 1", 1¼", 1½", 2"

HD 100

Pressure Rating Per Sq. Inch @ 73.4° F: 100 PSI

Available Sizes: 1", 1¼", 1½", 2".

HD-CTS (AWWA C-901)

Pressure Rating Per Sq. Inch @ 73.4° F: 250 PSI

Available Sizes: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2239 and ASTM D2737. HD 160, HD 200, and HD250 are NSF-PW approved. HD 100 and HD 125 are NSF-IRG approved.

Typical Applications:	farm and ranch water systems	sprinkler systems
	electrical and cable TV conduit	irrigation
	construction and excavations	skating rinks
	municipal service lines	air conditioning
	mine and industrial drainage	submersible pumps

CRESLINE CE BLUE[®]

Resin: Polyethylene PE 4710 (High Density).

General Characteristics: Lighter in weight than medium density pipe because less material is required to produce equal working pressure. Solid blue color.

CE BLUE 250

Pressure Rating Per Sq. Inch @ 73.4° F: 250 PSI

Available Sizes: ¾", 1", 1¼"

CE BLUE 200

Pressure Rating Per Sq. Inch @ 73.4° F: 200 PSI

Available Sizes: ¾", 1", 1¼".

CE BLUE CTS (AWWA C-901)

Pressure Rating Per Sq. Inch @ 73.4° F: 250 PSI

Available Sizes: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2239 and ASTM D2737. NSF approval for drinking water use.

Typical Applications:	farm and ranch water systems	sprinkler systems
	electrical and cable TV conduit	irrigation
	construction and excavations	skating rinks
	municipal service lines	air conditioning
	mine and industrial drainage	submersible pumps

CRESLINE YELLOW GAS PIPE

Resin: Polyethylene PE 2708 (Medium Density).

General Characteristics: Medium density polyethylene gas piping with a long life expectancy.

SDR 7

Available Sizes in CTS: ½".

SDR 9.3

Available Sizes in IPS: ½".

SDR 10

Available Sizes in IPS: 1¼".

SDR 11

Available Sizes in CTS: 1".

Available Sizes in IPS: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2513.

Typical Applications: Outdoor, underground gas service

CRESLINE PVC PRESSURE PIPE

Resin: PVC 1120 (Polyvinyl Chloride).

General Characteristics: Rigid. Good impact strength. May be used for drinking water and is NSF approved. It has a variety of uses where corrosion is a problem.

SDR-26

Pressure Rating Per Sq. Inch @ 73.4° F: 160 PSI

Available Sizes: 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12", 16". Solvent Weld and Gasket Joint.

Meets or Exceeds Following Standards: ASTM D2241. NSF approval for drinking water use.

SDR-21

Pressure Rating Per Sq. Inch @ 73.4° F: 200 PSI (*SDR-13.5 315 PSI).

Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12". Solvent Weld and Gasket Joint.

Meets or Exceeds Following Standards: ASTM D2241. NSF approval for drinking water use.

Schedule 40

Pressure Rating Per Sq. Inch @ 73.4° F: 130 PSI to 600 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).

Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12", 16".

Meets or Exceeds Following Standards: ASTM D1785 NSF approval for drinking water use.

Schedule 80

Pressure Rating Per Sq. Inch @ 73.4° F: 230 PSI to 850 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).

Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12".

Meets or Exceeds Following Standards: ASTM D1785 NSF approval for drinking water use.

Typical Applications: submersible pumps jet pumps water service lines farm and ranch water systems construction and excavations industrial application	irrigation electrical conduit swimming pools sprinkler systems well pipe and casing municipal water systems
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CRESLINE RECLAIMED WATER PIPE

Resin: PVC 1120 (Polyvinyl Chloride).

General Characteristics: Rigid. Good impact strength. To be used in reclaimed water applications.

SDR-21

Pressure Rating Per Sq. Inch @ 73.4° F: 200 PSI (*SDR-13.5 315 PSI).

Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6" Solvent Weld and 3", 4", 6" Gasket Joint.

Meets or Exceeds Following Standards: ASTM D2241. NSF approval for reclaimed water use.

Schedule 40

Pressure Rating Per Sq. Inch @ 73.4° F: 130 PSI to 600 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).

Available Sizes: ¾", 1", 1¼", 1½", 2", 2½", 3", 4".

Meets or Exceeds Following Standards: ASTM D1785. NSF approval for reclaimed water use.

Typical Applications: irrigation

CRESLINE PVC-DWV and CELLULAR CORE

Resin: PVC 1120 (Polyvinyl Chloride).

General characteristics: Rigid. High chemical resistance. Self-extinguishing, will not support combustion. Reduces installation and maintenance costs. Available in SCH 40 solid wall and cellular core.

Available Sizes: 1¼", 1½", 2", 3", 4", 6", 8", 10", 12", 16".

Meets or Exceeds Following Standards: NSF DWV approval, ASTM D2665, ASTM D1785 Dual Marked and ASTM F891 Cellular Core.

Typical Applications:	Interior drainage systems in: prefabricated homes new homes home remodeling	mobile homes commercial buildings apartments
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CRESLINE PVC DRAIN & SEWER PIPE (DS)

Resin: PVC 1120 (Polyvinyl Chloride).

General Characteristics: Tough, durable, strong. Root-, moisture-, corrosion-proof.

Available Sizes: 3", 4", 6". Solid and Perforated.

Meets or Exceeds Following Standards: ASTM D2729.

Typical Applications: building sewers and underground building drains for home and industry
 building storm sewers for home and industry
 disposal fields for septic tank drains and leaching systems
 subsoil drains for lowland and surface water drainage

CRESLINE PVC SEWER PIPE

Resin: PVC 1120 (Polyvinyl Chloride).

General Characteristics: Rigid. Extremely resistant to corrosive liquids. Reduces installation and maintenance costs.

Available Sizes: 4", 6", 8", 10", 12". Solvent Weld and Gasket Joint. Perforated available upon request.

Meets or Exceeds Following Standards: ASTM D3034.

Typical Applications: sewer mains
 sewer service

CRESLINE HC PIPE (HOT AND COLD)



Resin: CPVC 4120 (Chlorinated Polyvinyl Chloride).

General Characteristics: Rigid. Non-Corrosive. Lightweight. Excellent insulation properties. High water temperature resistance.

Pressure rating Per Sq. Inch: 100 PSI @ 180° F

Available Sizes: ½", ¾", 1", 1¼", 1½", 2".

Meets or Exceeds: ASTM D2846. NSF approval for drinking water use.

Typical Applications: Hot and cold water service lines.

CRESLINE PVC WATER WELL PIPE AND CASING

Resin: PVC 1120 (Polyvinyl Chloride).

General Characteristics: Rigid. Good impact strength. NSF approved for drinking water. It has a variety of pump uses where corrosion, cost and weight are factors.

PVC Sch 80 & Sch 120 Threaded Well Pipe.

Pressure Rating Per Sq. Inch @ 73.4° F: 200 to 360 PSI depending on size of pipe. (See 761 THD Specification Sheet).

Available Sizes: 1", 1¼", 1½", 2". Threaded ends are chamfered for ease of installation. Shipped with protective caps on pipe to prevent thread damage.

Meets or Exceeds Following Standards: ASTM D1785. NSF approval for drinking water.

Typical Applications: submersible pumps
 jet pumps
 pressure systems

PVC Water Well Casing

Available Sizes: 2", 4", 4½", 5", 6", 8", 10", 12", 16", 6¼" I.D.

Available Ratings: SDR 26, SDR 21, SDR 17, SCH 40, DR 27.6.

Meets or Exceeds Following Standards: ASTM F480. NSF approval for drinking water and well casing.

Features: 20' hanging lengths. Belled end. Chamfered on spigot end with insertion depth ring and deep bell.

Typical Applications: well casing
 well liners
 pressure systems
 irrigation