

# **Pipe A-35**

### PVC Schedule 40 Pressure Pipe



PVC Schedule 40 Pressure Pipe features make it ideal for use in numerous industrial, commercial, municipal and residential applications. Like SDR pressure pipe (see page A-24) Schedule 40 has a built-in long term pressure safety factor of 2 to 1. However, unlike SDR pressure pipe which has a specific pressure rating in all sizes, Schedule 40's maximum pressure rating (figured at 72.4°F) varies with each size (see Pipe Selection Chart on A-36). Pressure ratings for transmitting warmer or cooler liquids can be determined using the "Conversion Chart ..." shown on page A-36. The maximum recommended temperature for Schedule 40 PVC is 130°F.

PVC Schedule 40 pipe and fittings can be joined using solvent cements.

**CAUTION:** Do not use plastic pipe and fittings for compressed air or gas.

#### Features:

- Resistance to corrosion and abrasion
- Resistance to many chemicals†\*
- Smooth bore for improved flow characteristics
- · Low cost installation
- Lightweight and flexible
- Non-toxic, NSF approved for use in drinking water

#### **Specifications and Approvals:**

- ASTM D-2665 specification for PVC plastic drain, waste and vent pipe.
- ASTM D-1785 specification for potable water.
- ASTM D-1784 specification for Type 1, Grade 1 PVC material used in the manufacturing of this pipe.
- · NSF approved for drinking water use.
- † For a complete list of chemicals contact your local Team EJP sales office.
- \* Polar solvents such as ketones, some chlorinated hydrocarbons and aromatics have damaging effects on PVC.

#### **Applications:**

#### **Industrial and Process Piping**

- Swimming pool piping
- Plant water supply and distribution lines
- · Drainage and effluent piping
- Cooling water systems
- · Vacuum piping
- Rainwater leaders for buildings
- Piping in fish hatcheries, aquariums, zoological and biological buildings
- Well casings and dewatering lines
- Chemical and wash water systems for photographic laboratories
- Acid products handling for refineries, metalworks and plating plants
- Bleach, die and acid lines in textile mills
- Tailing and slurry lines in mines, smelters and fertilizer plants

#### **Pulp and Paper**

- · Alum and caustic handling
- Chlorine dioxide, chlorine and chlorine alkali plantpiping
- Wash water piping and lagoon systems

#### **Food Processing**

- Brine and seawater distribution in fish plants
- Brine systems in meat packaging plants
- · Piping for dairy, canning and beverage industries

#### **Water and Sewage Treatment**

- Alum and ferric chloride handling
- Chlorine injection systems
- Piping in lagoons and settling ponds
- Piping in pressure sewers

#### **Irrigation**

- · Golf courses
- Greenhouses
- · Housing and commercial properties
- Agriculture

**NOTE:** DWV Cellucore pipe is not rated for pressure

### **Pipe A-36**

### PVC Schedule 40 Pressure Pipe

#### **PVC Schedule 40 Pipe Selection Chart**

	FEET	OT ITTO IT		POUNDS	PRESSURE	PRODUCT NUMBER		
NOM. SIZE	PER LENGTH	OUTSIDE DIAMETER	WALL THICKNESS	PER FOOT	RATING PSI @ 73.4° F	BELLED END	PLAIN END	
1/2"	20	0.084	.109	.161	600	73000	_	
3/4"	20	1.050	.113	.214	480	73005	_	
1"	20	1.315	.133	.317	450	73010	_	
11/4"	10	1.660	.140	.430	370	73016	73016 1	
	20	1.000			370	73015	_	
1½"	10	1.900	.145	.520	330	_	73018	
172	20	1.900			330	73020	_	
2."	10	2 275	.154	.690	200	_	73024	
2	20	2.375			280	73025	_	
2½"	20	2.875	.203	1.105	300	73030	_	
3"	10	2.500	216	1 420	260	_	73033	
3	20	3.500	.216	1.430	260	73035	_	
4"	10	4.500	.237	2.040	220	73044	73042	
4	20	4.500		2.040	220	73040	_	
6"	20	6.625	.280	3.580	180	73045		
8"	20	8.625	.322	5.500	160	73050	73051	
10"	20	10.750	.365	7.690	140	_	73055	
12"	20	12.750	.406	10.170	130	73062	_	

**NOTE:** Not all pipe sizes are available at all Team EJP locations; call for availability. See Section B for PVC Schedule 40 Pressure Fittings, cement and primer.

#### Conversion Chart For Pressure Ratings At Various Temperatures

TEMPERATURE °F	60°	70°	73.4°	80°	90°	100°	110°	120°	130°
CONVERSION FACTOR	1.15	1.04	1.00	.95	.90	.75	.65	.60	.50

## Temperatures For PVC Schedule 40 Pipe

#### **Assembly Information:**

- Use a good grade of PVC pressure rated cement\* which meets ASTM standard D-2564.
- Cut pipe to desired length with pipe cutters, hacksaw or crosscut saw.
- 3. Ream pipe both internally and externally to remove burrs and ragged edges.
- 4. Before making solvent weld joint be sure all joining surfaces are free of dirt, dust, water and oil.
- The use of a primer before the application of PVC cement is recommended.
- 6. Apply primer to both joining surfaces.
- 7. Immediately apply a smooth coat of cement to the joining surfaces.

- 8. Immediately insert the pipe or spigot end into the full depth of the fitting or socket.
- 9. Turn pipe 1/8 to 1/4 turn in the socket to insure an even spread of cement.
- 10. Hold firmly in position for a minimum of 30 seconds to keep the pipe from backing out of the fitting or bell.
- 11. Allow newly assembled joints to carefully set before installation or backfilling:
- 12. 30 minutes @ 60-100°F
- 1 hour @ 40-60°F
- 2 hours @ 20-40°F
- 4 hours @ 1-20°F
- 13. It requires approximately 24 hours for the solvent cement joints to thoroughly cure. The system should not be put under working or test pressure until 24 hours has elapsed.
- \* Solvent cements should be stored in a cool place except when actually in use. These cements have a limited shelf life and inventories must be constantly rotated.

Phone: 800-EJP-24HR (357-2447) • Fax: 207-582-5637