1.0 GPK PVC Schedule 40 drainage/DWV fittings shall be manufactured in accordance with either ASTM D2665 or F1866. The PVC material shall have a minimum cell classification of 12454-B as defined in ASTM D-1784.

2.0 The purpose of GPK Schedule 40 Drainage/DWV in-line fittings is to convey and provide a drainage and venting of storm water runoff, municipal or industrial chemicals and wastes as well as many other commercial and agricultural applications. The fittings are designed for non-pressure or low pressure applications up to 25 psi.

3.0 Injection molded fittings are produced in sizes 4" through 8" diameter. Fabricated fittings are produced in sizes 4" through 24" diameter. A fabricated fitting is any fitting made from pipe or a combination of injection molded components and pipe.

4.0 Chemical Resistance. GPK PVC fittings resist attack from many acids, alkalies, alcohol, salt solutions and other chemicals. Refer to chemical resistance chart for suitability.

5.0 Dimensions:

5.1 Socket Inside Diameters and socket depths shall comply with the values listed in ASTM D-2665 or F1866.

5.2 Threads shall be American National Standard Taper Pipe Threads (ANSI B1.20.1) which shall be gaged in accordance with ASTM Method D-2122.

5.3 Gasketed Bell connections comply with ASTM D3212 and F477.

6.0 Marking. GPK Schedule 40 Drainage/DWV fittings shall be marked with applicable size, SCH 40 DRAINAGE, company name and applicable ASTM Number (D2665/F1866). The fittings and/or packaging shall also include the manufacturer's date and shift code.

7.0 Installation. Fittings shall be installed in properly engineered piping systems in accordance with established procedures and standards. The assembly of solvent cemented joints shall be in accordance with ASTM Practice D-2855. For threaded ends, use teflon tape recommended by the manufacturer for use with plastics - DO NOT use oil based pipe joint compound. One to two turns beyond finger tight is generally acceptable. Overtightening may cause damage to either pipe or fitting.
Intro: GPK manufactures Schedule 40 drainage/DWV Fittings sizes 4" through 24" for non-pressure or low pressure applications up to 25 psi in accordance with ASTM D2665 or F1866.

Material: GPK Schedule 40 Drainage/DWV Fittings are made from PVC material with a minimum cell classification of 12454-B as defined in ASTM D-1784. Fabricated fittings are manufactured from PVC pipe meeting the requirements of ASTM D-2665 or D-1785.

Dimensions: Dimensions and tolerances comply with those shown in Table 1 and Table 2 of D-2665 or Table 1, Table 2 and Table 3 of ASTM F1866.

Pipe Stiffness: Extruded components exhibit a pipe stiffness which equals or exceeds the values shown in Table 3 of D-2665 when tested in accordance with ASTM Method D-2412.

Pipe Flattening: Extruded components are flattened as described in ASTM D1785 until the distance of the plates is 40% of the outside diameter of the pipe or the walls of the pipe touch, whichever occurs first. There shall be no splitting, cracking or breaking.

Branch Bending: The chemically fused areas around the fabricated branches of tee and wye fittings are tested to STM F1866 to verify their strength and integrity.

Impact Resistance: Fittings are tested in accordance with ASTM D-2444 using a 12 lb. or 20 lb. Tup A and a Flat Plate Holder B. Fabricated fitting shall withstand an impact equal to or exceeding 15 Ft.lbs.

Marking: Fabricated fittings shall be marked on the body or hub with the manufacturer's name and trademark, "PVC", size, SCH 40 DRAINAGE, date.

Joining Methods: Chemically Fused Solvent Welded Joints
Solvent cement is handled and tested in accordance with ASTM D-2564 and D-2855. The Lap Shear Strength shall equal or exceed 900 psi @ 72 hours.

Heat Fusion Welded Joints (Butt Fusion Welds)

Elastomeric Seals (Gaskets)
Meets all applicable requirements of ASTM F477 and D3212.

Pressure/Pressure Deflection: Gasketed joints are tested in accordance with ASTM D3212. Solvent cement sockets are tested in accordance with ASTM D2672. Section 10.4 Socket Joint Tightness Test of 25psi.