

## SUBMITTAL FOR ATLANTA PIPE PP-R HOT AND COLD WATER DISTRIBUTION SYSTEM

### SCOPE

This standard specifies dimension and tolerances for seamless pipes of circular cross section, made from random copolymer (PP-R), as specified in DIN 8078. It covers all available types of polypropylene pipes for all possible applications. Pipe shall be classified in accordance with the pipe series and/or the nominal pressure as follows:

- Series 5; PN 10 (SDR 11)
- Series 3.2; PN 16 (SDR 7.4)
- Series 2.5; PN 20 (SDR 6)

### SPECIFICATION

The material pipes shall be made from polypropylene (PP) moulding material stabilized with suitable antioxidants. The choice of stabilizers and other additives shall be left to the manufacturer. Moulding materials of unknown composition shall not be used (see Appendix A of DIN 8078: Explanatory notes). All pipe and fittings shall be manufactured in the Philippines.

### INSTALLATION

Installation shall comply with the latest installation instructions published or with supervision by Atlanta Industries, Inc. and shall conform to all applicable plumbing and building code requirements. The installers must be trained by the manufacturer including the welding properties on how to do the installation for PP-R pipes and fittings. The system shall be protected from chemical agents not compatible with PP-R compounds. The system shall be tested after installation through normal or actual pressure test, stated by the user or contractors for 24 hours as much as possible.

**WARNING!** Never test with or transport/store compressed air or gas in PP-R pipe and fittings. Doing so can result in explosive failures and cause severe injury or death.

### REFERENCE STANDARD

|                          |   |  |
|--------------------------|---|--|
| <b>DIN 8077</b>          | : | Polypropylene (PP) pipes – PP-R - Dimensions   |
| <b>DIN 8078</b>          | : | Polypropylene (PP) pipes – PP-R – General quality requirements and testing   |
| <b>DIN 16962 Part 10</b> | : | Pipe joint assemblies and fittings for types 1 to 3 polypropylene (PP) pressure pipes: Injection-moulded fittings for butt welding |



35<sup>TH</sup> Flr. Atlanta Center Bldg., No. 31 Annapolis  
St. Greenhills, San Juan City



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[www.atlanta.ph](http://www.atlanta.ph)



[marketing@atlanta.ph](mailto:marketing@atlanta.ph)

**NOTE: Theoretical weight/s is based on a 4 meter pipe length.**

| NOMINAL SIZE |       | OUTSIDE DIAMETER (mm) |       | WALL THICKNESS |       |       | THEORETICAL WEIGHT |        |        |
|--------------|-------|-----------------------|-------|----------------|-------|-------|--------------------|--------|--------|
|              |       |                       |       | PN 10          | PN 16 | PN 20 | PN 10              | PN 16  | PN 20  |
| (mm)         | (in)  | (min)                 | (max) | (mm)           | (mm)  | (mm)  | (kgs.)             | (kgs.) | (kgs.) |
| 20           | 1/2   | 20                    | 21.2  | 1.90           | 2.80  | 3.40  | 0.42               | 0.59   | 0.69   |
| 25           | 3/4   | 25                    | 26.2  | 2.30           | 3.50  | 4.20  | 0.63               | 0.91   | 1.06   |
| 32           | 1     | 32                    | 33.3  | 2.90           | 4.40  | 5.40  | 1.01               | 1.45   | 1.72   |
| 40           | 1-1/4 | 40                    | 41.4  | 3.70           | 5.50  | 6.70  | 1.60               | 2.26   | 2.66   |
| 50           | 1-1/2 | 50                    | 51.4  | 4.60           | 6.90  | 8.30  | 2.46               | 3.51   | 4.09   |
| 63           | 2     | 63                    | 64.6  | 5.80           | 8.60  | 10.50 | 3.90               | 5.51   | 6.50   |
| 75           | 2-1/2 | 75                    | 76.6  | 6.80           | 10.30 | 12.50 | 5.43               | 7.81   | 9.16   |
| 90           | 3     | 90                    | 91.8  | 8.20           | 12.30 | 15.00 | 7.84               | 11.18  | 13.17  |
| 110          | 4     | 110                   | 112.2 | 10.00          | 15.10 | 18.30 | 11.69              | 16.77  | 19.65  |
| 160          | 6     | 160                   | 163.2 | 14.60          | 21.90 | 26.60 | 24.81              | 35.39  | 41.55  |

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