

Siloflex Equivalents

1. Be manufactured to ASTM D2239 or ASTM D2737 Standards.
2. Be manufactured from PE3408
3. Be sized as 1" ID if D2239, or 1-1/4" OD if D2737
4. Have a SIDR rating of 15 or lower (typically 100PSI or heavier pipe) or have a SODR rating of 17 or lower (typically 100PSI or heavier pipe)
5. Must be 100, 160 or 200 psi

These guidelines will allow pipe to be used from a variety of manufacturers and assure that it has a minimum size/thickness and the physical characteristics we desire. When other variants get tested (such as PE3406, other psi, ASTM D3035, larger outer diameters, etc), and approved we will update this page.

Keep in mind that the only appreciable difference between the D2239 and the D2737 is that one is sized on Inside Diameter and the other on Outside Diameter. Please read below for descriptions and explanations of these terms.

Manufacturers

Silverline

"Sil-O-Flex" D2239 pipe from PE 3408 in pressure ratings from 100 to 200 PSI.

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi are approved for use as APDs.

<http://www.silverline.net/>

Cresline

D2239 and D2737 pipe from PE 3408.

NOTE: Only D2239 with 1" inside diameter at either 100, 160 or 200 psi and D2737 with 1-1/4" outside diameter at either 100 psi or 160 psi are approved for use as APDs.

<http://www.cresline.com/>

Charter Plastic Inc.

D2239 and D2737 pipe from PE 3408 in pressure ratings from 80 to 250 PSI.

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi, and D2737 with 1-1/4" outside diameter at either 100 psi or 160 psi are approved for use as APDs.

<http://www.charterplastics.com/>

Endot Industries, Inc

"Blue Jet" and "Endopoly" D2239 and D2737 pipe from PE 3408 in pressure ratings from 100 to 200 PSI

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi, and D2737 with 1-1/4" outside diameter at either 100 psi or 160 psi are

approved for use as APDs.

<http://www.endot.com/>

Orangeburg Pipe

"Poly-Xtra" brand pipe. D2239 water service pipe from PE3408 in pressure ratings from 100 to 200 PSI..

NOTE: Orangeburg Pipe is a division of Endot Industries.

(Sometimes sold at Lowes)

Genova Products Inc.

"PARR IPS" D2239 pipe from PE 3408 in pressure ratings from 100 to 200 PSI.

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi are approved for use as APDs.

<http://www.genovaproducts.com/>

Vanguard Piping Systems Inc.

"ProGuard" D2239 and D2737 pipe from PE 3408 in pressure ratings from 100 to 200 PSI.

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi, and D2737 with 1-1/4" outside diameter at either 100 psi or 160 psi are approved for use as APDs.

"Bruiser" D2239 and D2737 pipe from PE 3408 in pressure ratings from 160 to 200 PSI

NOTE: Bruiser is blue in color on the outside for easy identification as a water pipe. Only D2239 with 1" inside diameter at 160 psi, and D2737 with 1-1/4" outside diameter at 160 psi are approved for use as APDs.

<http://www.vanguardpipe.com/>

WesFlex Pipe Manufacturing

"Gold Label" D2239 and D2737 pipe from PE 3408 in pressure ratings from 100 to 200 PSI .

NOTE: Only D2239 with 1" inside diameter at either 100 psi or 160 psi, and D2737 with 1-1/4" outside diameter at either 100 psi or 160 psi are approved for use as APDs.

<http://www.wesflex.com/>

Suppliers

Common ASTM Standards used in Polyethylene Piping

ASTM D2239 is a specification for a controlled Inside Diameter or ID. This specification is often called IPS-ID for Iron Pipe Size-Inside Diameter.

ASTM D2737 is a specification for a controlled Outside Diameter or OD. This specification is often called CTS short for Copper Tube Size. It is also sometimes called WST short for Water Service Tubing.

Common Material of Manufacture

Coiled PE pipe is produced most often from polyethylene resins with the ASTM classification of PE 3408 and PE 3406. Most common for drinking water applications is PE 3408. PE 3406 is not quite as strong and requires a thicker wall to achieve an equivalent pressure rating and will therefore weigh a little more.

NOTE: ONLY PIPE THAT IS MADE FROM PE 3408 IS APPROVED FOR USE IN MAKING APDS - PE 3406 IS NOT YET APPROVED FOR USE IN MAKING APDS.

SIDR or IDR

IPS pipe sizes produced to the ASTM D2239 standard are rated with a SIDR number or Standard Inside Diameter Ratio. The SIDR is calculated by dividing the Nominal ID by the Minimal Wall Thickness. For any fixed ID a LOWER SIDR number will equate to a thicker wall and a stronger pipe with a higher pressure rating.

SODR or SDR

OD controlled tubing produced to the ASTM D2737 or D3035 will have a SODR rating. The SIDR is calculated by dividing the Nominal OD by the Minimal Wall Thickness. For any fixed OD a LOWER SODR number will equate to a thicker wall and a stronger pipe with a higher pressure rating.

Marking

ASTM, NSF, and AWWA standards provide that pipe and tubing must be marked at frequent intervals. The labeling must include:

1. The manufacturer's name or trademark
2. The standard to which it conforms
3. Pipe size
4. Material designation code (PE 3406 or PE 3408)
5. DWV if for drainage piping
6. Pressure rating if applicable
7. DR number or Schedule number
8. If the pipe is for potable water, a laboratory seal

If the pipe isn't labeled with that information then its quality might be suspect.