

Formerly known as



**NORDSTROM®**  
**POLYVALVE®**

Nordstrom® is a registered trademark of Flowserve®

**POLYVALVE POLY-WATER® VALVES**

POLYETHYLENE VALVES

FOR WATER, WASTEWATER, AND IRRIGATION

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*The Original Is Still The Best!*  
*Over 3,000,000 Sold!*

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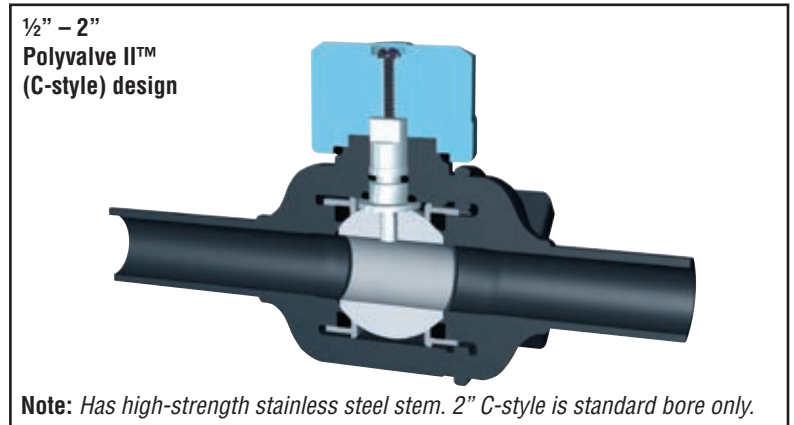
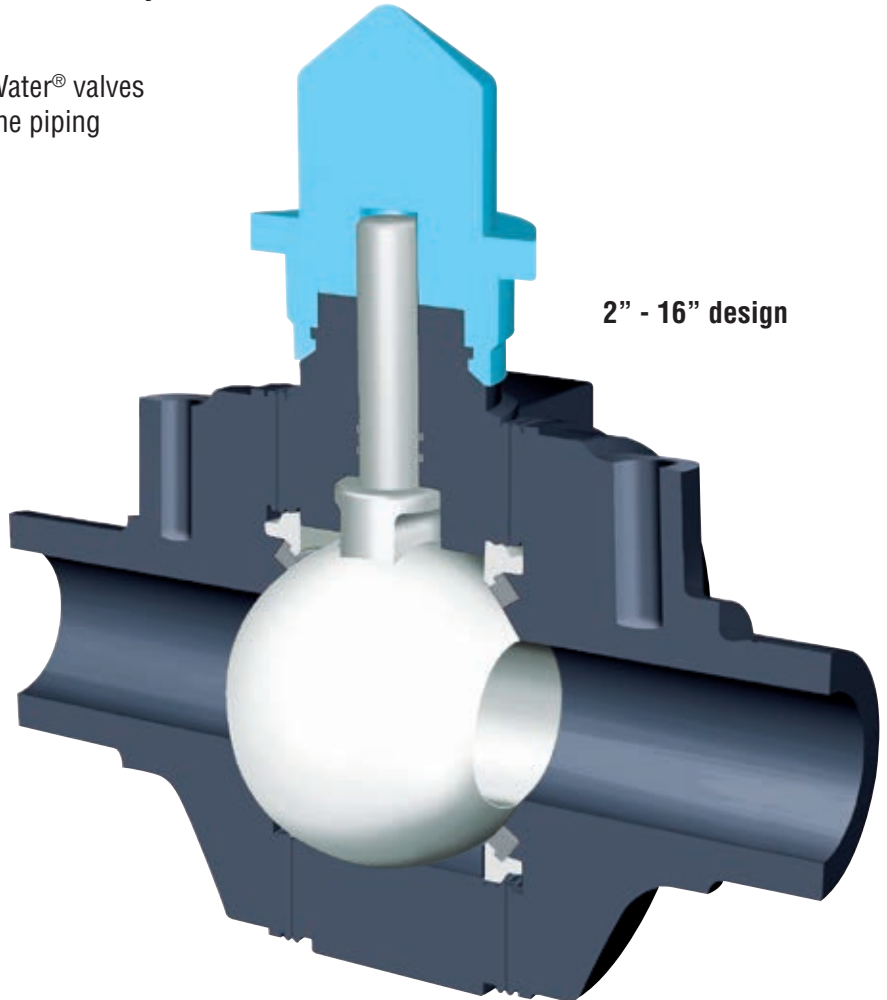
**Polyvalve®**

## Why use Polyvalve Poly-Water<sup>®</sup> valves?

Polyvalve Poly-Water<sup>®</sup> valves are everything you'd expect from the company that invented polyethylene valves.

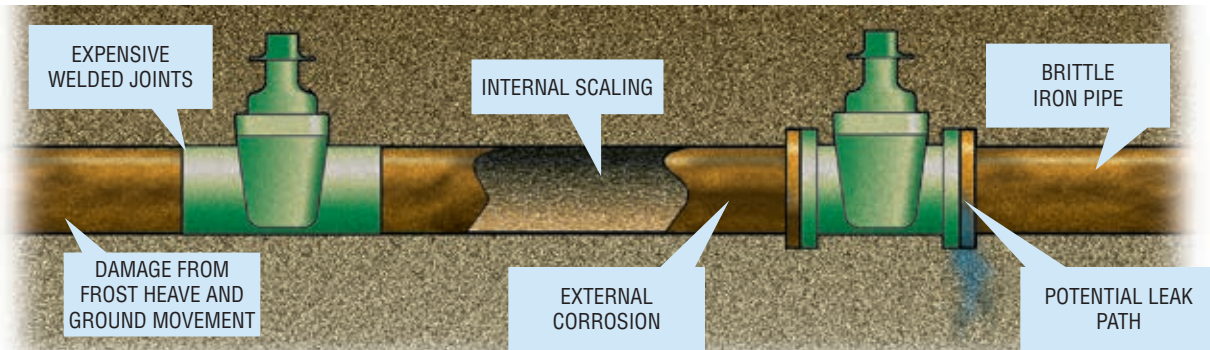
More than **three million** Polyvalves have been sold since 1976 and are in use throughout the world. Here's why:

- Rugged and reliable Polyvalve Poly-Water<sup>®</sup> valves are the strongest part of a polyethylene piping system.
- Drop-tight shutoff from dual elastomeric seats.
- Fused body shell removes leak paths to atmosphere.
- Multiple elastomeric stem seals.
- No metal internal parts.
- High-grade polymeric materials eliminate corrosion.
- Smooth full bore gives excellent flow characteristics in both full and standard port designs.
- Wide variety of trim for your specific application.
- Flanged and Transition end configuration available.



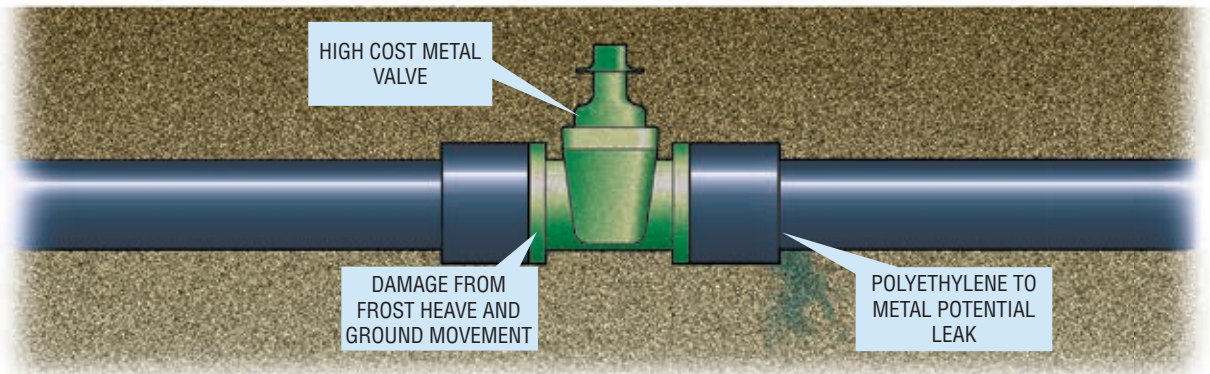


## Why use polyethylene valves?



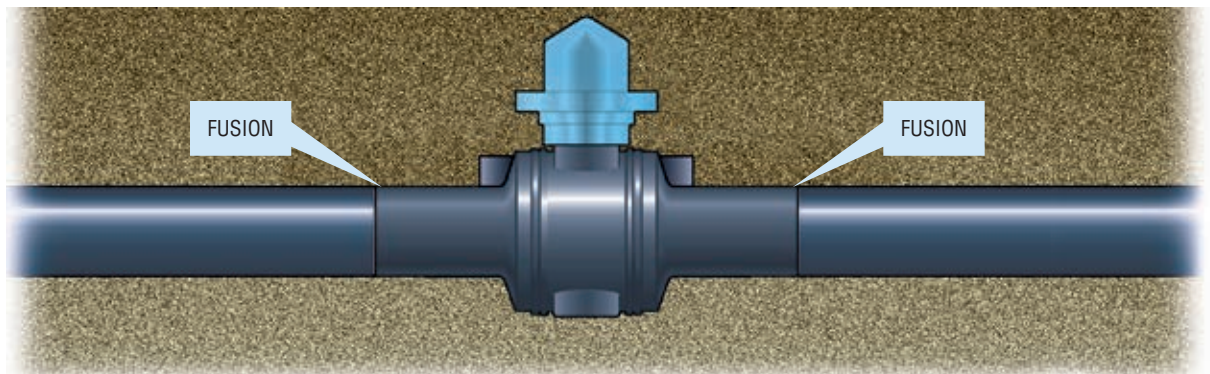
### All Metal System (Welded or Bolted)

- Subject to external corrosion, internal scaling and damage from ground movement.
- Too-rigid pipe can rupture during frost heave or heavy pressure in hot weather.
- 30% of all system water is lost to leaks.



### Polyethylene Pipe-to-Metal Valve Installation:

- Subject to the inherent weakness of combining incompatible materials.
- Vulnerable to ground movement during extremes of cold or heat.
- 30% of all systems water is lost to leaks.



### All-Polyethylene Systems:

- Intrinsicly safe—the valve is an integral part of the pipe.
- No leak points.
- No chance of corrosion.
- Flexible polyethylene systems less susceptible to ground movement.

# Poly-Water<sup>®</sup> Valve Availability

## MATERIALS

Item	Potable Water NSF / ANSI 61		Wastewater		Irrigation	
	1/2" through 2" Standard Port	2" Full Port Through 16"	1/2" through 2" Standard Port	2" Full Port Through 16"	1/2" through 2" Standard Port	2" Full Port Through 16"
Body			Polyethylene			
Adapter			Polypropylene*			
Ground Water Seal			Neoprene			
Seat	EPDM		VKM (Viton)		Buna-N	
Stem Seal	EPDM		VKM (Viton)		Buna-N	
Ball	Acetal	Polypropylene	Acetal	Polypropylene	Acetal	Polypropylene
Seat Retainer	Acetal	Polypropylene	Acetal	Polypropylene	Acetal	Polypropylene
Stem	Stainless Steel	Modified Phenylene Oxide	Stainless Steel	Modified Phenylene Oxide	Stainless Steel	Acetal

**Note:** 12" has gear box and cast iron 2" square nut adapter.

8" will have a choice of either gearing or wrench.

\* 8" Wrench adapter material is Acetal.

Acetal should not be used in services with more than 3 parts per million chlorine.

*Available with flanged ends. Contact the factory for dimensions and pricing.*



## Body and End Resin Chart

Polyvalve Poly-Water<sup>®</sup> valves are available in HDPE only.

Resin Supplier	Material Designation	Color	ASTM Material	Material Density
Dow	DGDA 2490	Black	PE3408/4710	High



**Maximum Allowable Service Pressures for Polyvalve Poly-Water<sup>®</sup> Valves DGDA 2490 (Additional SDR sizes are available, please consult factory.)**

	SDR 9		SDR 11		SDR 13.5		SDR 17	
	psig	bar	psig	bar	psig	bar	psig	bar
<b>PE 3408/4710 Material</b>								
@74 °F	200	13.8	160	11	128	8.8	100	6.9
@23 °C	200	13.8	160	11	128	8.8	100	6.9

\* Consult factory for higher pressures.



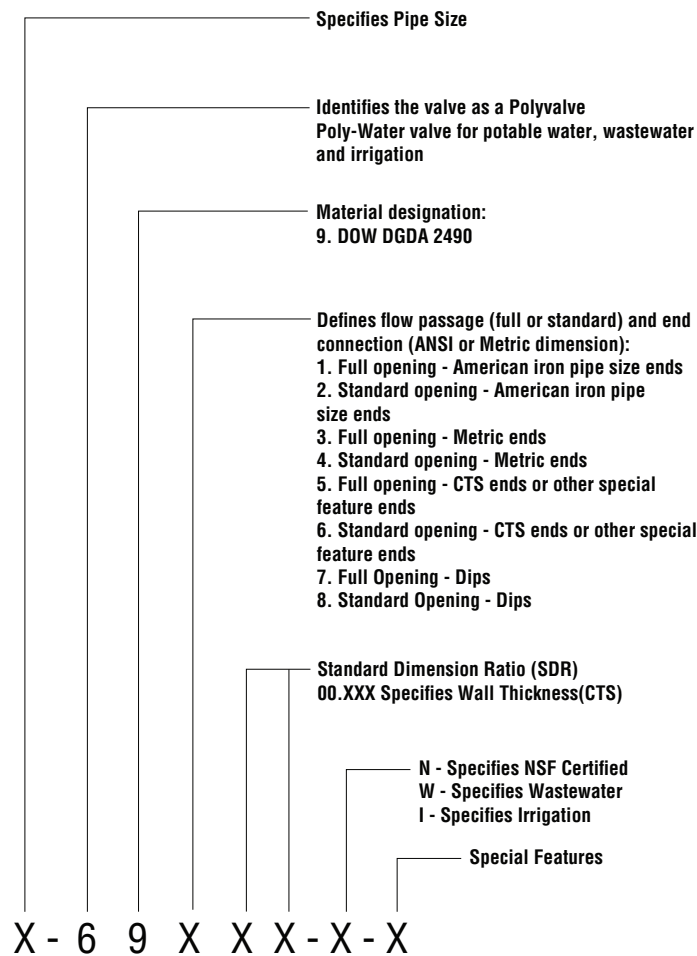


## How to Order

Please provide the following information when you order:

- Valve size
- Valve body material
- Full or standard bore
- Standard Dimension Ratio (SDR) number
- Butt fusion end configuration is standard
- Flanged and transition end configuration available

### Polyvalve Poly-Water<sup>®</sup> Valve Figure Number System



Special feature ends include integral socket ends, stub ends SDR, flanges, transition, pups, stem extensions, venting, purge, bypass, etc.



With sizes up to 16" Polyvalve Poly-Water valves come in the widest range of sizes on the market. They're shipped in cartons to shield them from ultraviolet light and protect the valve ends from damage.

#### FOR USE IN:

- POTABLE WATER
- WATER AND WASTEWATER\*
- IRRIGATION
- STORM SEWER
- GRAVITY SEWER
- GEOTHERMAL

There are currently no AWWA standards relating to PE valves. However: ½" – 3" Polyvalve Poly-Water<sup>®</sup> valves are suitable for use with PE pipe and tubing complying with AWWA C901.

Sizes 4" – 16" Polyvalve Poly-Water<sup>®</sup> valves for potable water comply with the relevant fittings clauses of AWWA C906.

Polyvalve is an ISO 9001 certified company.

\* For ½" - 2" Polyvalve II (C-style), Poly-Water<sup>®</sup> valves are recommended for water with a pH range of 6 to 8. For applications with pH outside of this range consult customer service.

\*Available in Copper Tubing Standard sizes (CTS)

\*Available in ductile iron pipe standard. (Dips)



## Polyvalve

4855 Broadmoor Ave  
Kentwood, MI. 49512  
Ph. 616.656-2260  
Fax 616.656-2264  
[www.PolyvalveUSA.com](http://www.PolyvalveUSA.com)



POLYVALVE

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