Formerly known as

NORDSTROM®
POLYVALVE®

Nordstrom® is a registered trademark of Flowserve®

POLYVALVE POLY-WATER® VALVES

POLYETHYLENE VALVES
FOR WATER, WASTEWATER, AND IRRIGATION
www.AndronacoSAS.com

The Original Is Still The Best!

Over 3,000,000 Sold!

ANDRONACO s.a.s.

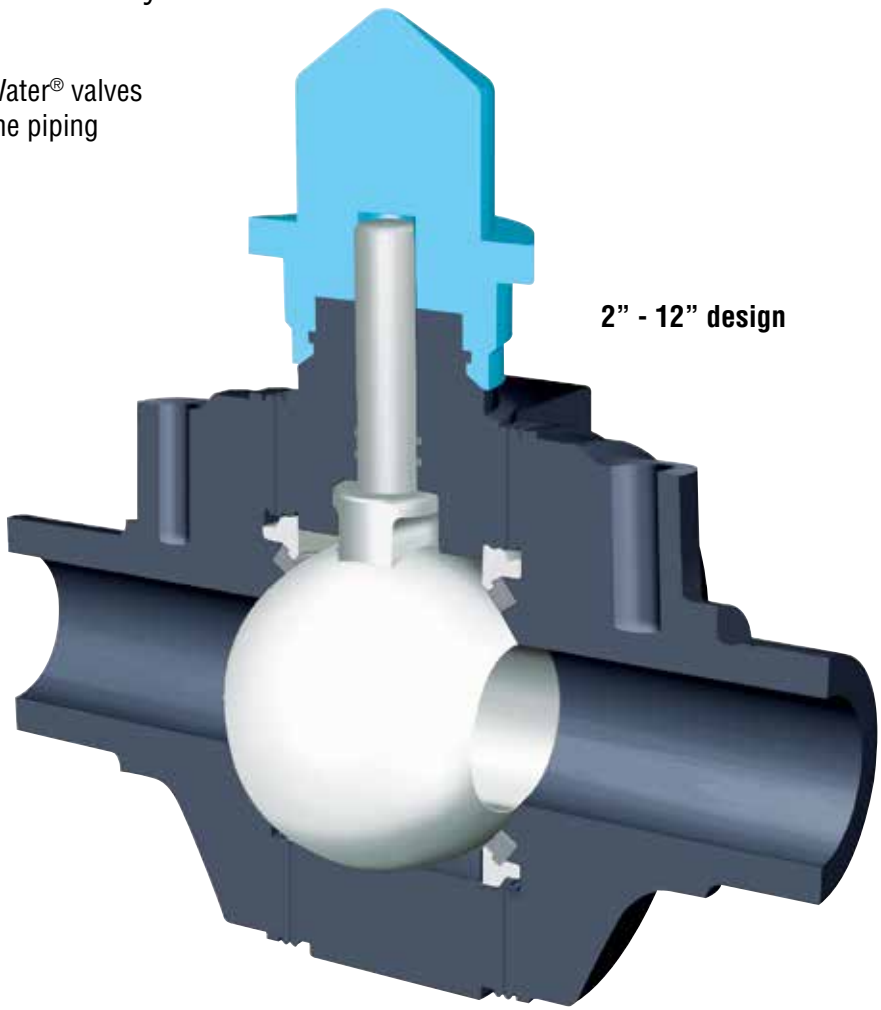
Polyvalve®

Why use Polyvalve Poly-Water® valves?

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

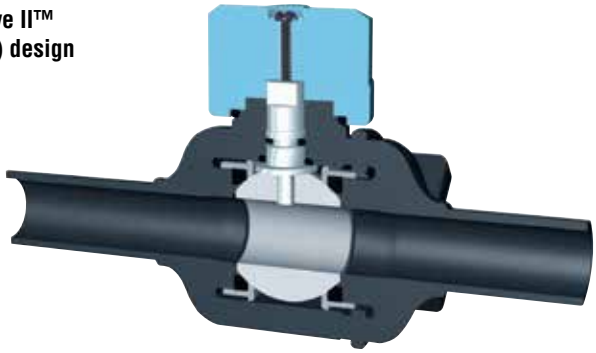
More than **three million** Polyvalves have been sold since 1976 and are in use throughout the world. Here's why:

- Rugged and reliable Polyvalve Poly-Water® 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 reduced port designs.
- Wide variety of trim for your specific application.
- Flanged end configuration available.



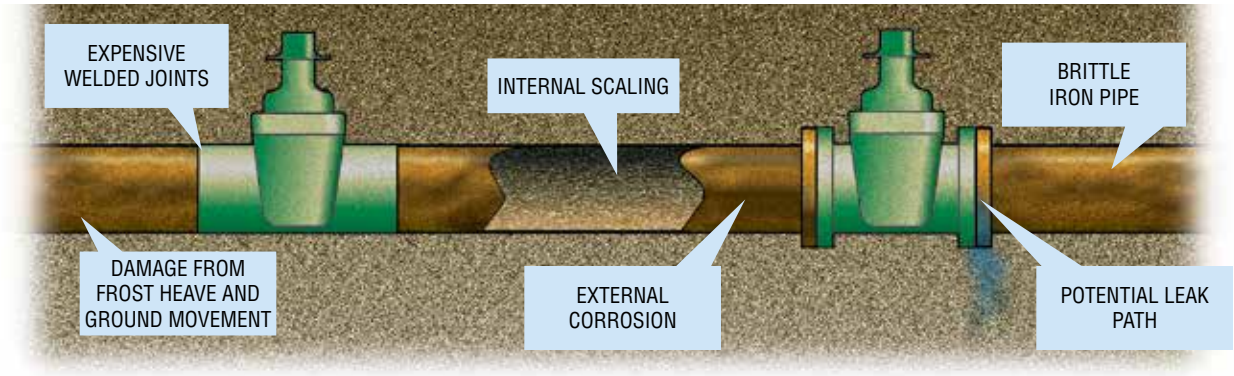
2" - 12" design

½" – 2"
Polyvalve II™
(C-style) design



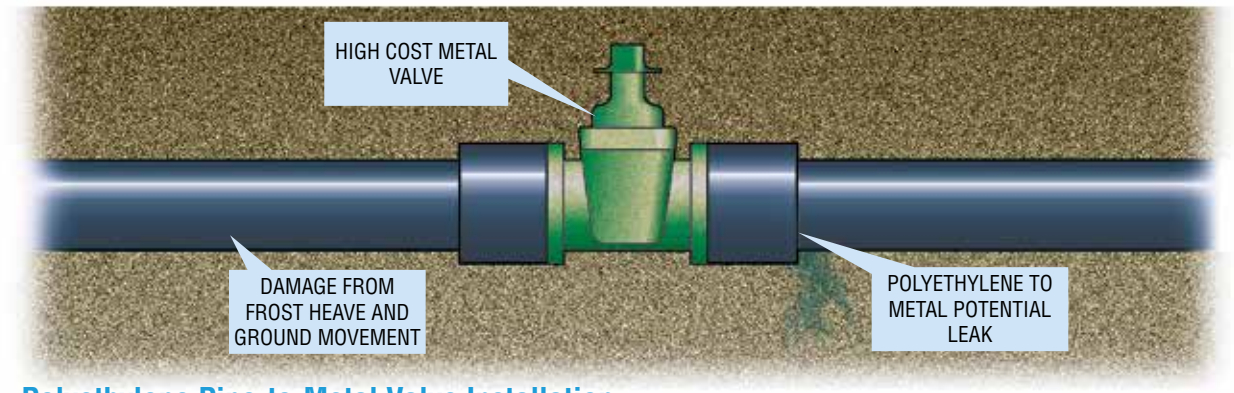
Note: *Has high-strength stainless steel stem. 2" C-style is reduced bore only.*

Why use polyethylene valves?



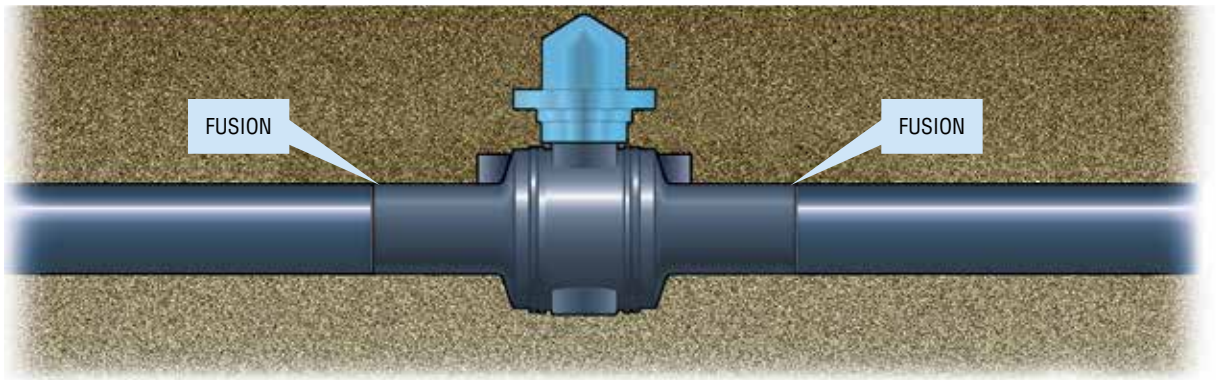
All Metal System (Welded or Bolted)

- 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:

- Intrinsically 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® Valve Availability

MATERIALS

Materials of Construction

Item	½" through 2" Polyvalve II	2" through 12"
Body	Polyethylene	Polyethylene
Ball	Acetal	Polypropylene
Seat	EPDM	EPDM
Seat Retainer	Acetal	Polypropylene
Stem	Stainless Steel	Modified Phenylene Oxide
Stem Seal	EPDM	EPDM
Ground Water Seal	Neoprene	Neoprene
Adapter	Polypropylene	Polypropylene

Note: **12" has gear box and cast iron 2" square nut adaptor.**
8" will have a choice of either gearing or wrench.
Wrench adapter material is Acetal.

Body and End Resin Chart

Polyvalve Poly-Water® valves are available in HDPE only.

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

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

Maximum Allowable Service Pressures for Polyvalve Poly-Water® Valves
TR-480 / DGDA 2490

	SDR 9		SDR 11		SDR 13.5		SDR 17	
	psig	bar	psig	bar	psig	bar	psig	bar
PE 4710/3408 Material								
@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

Poly-Water® Valve Availability

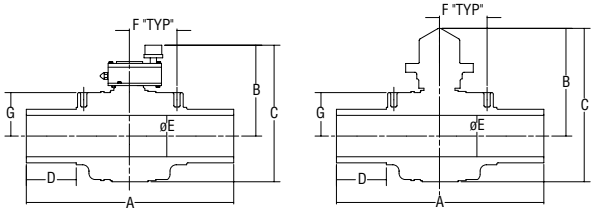
Poly-Water® Valve Availability Chart (Ball Valves for Water, Wastewater and Irrigation)

Size (Inches)	Size (Metric)	Body Pieces	Port	End Config.	C_V	K_V	Equiv. Feet of Pipe	Available SDRs
½	16-20	2	full†	BF* or SF**	18	260	2	9.3
¾	25	2	full†	BF	25	361	3.2	9.3, 10, 11
1	32	2	standard†	BF	40	577	3.8	9.3, 11, 13.5
1¼	40	2	standard†	BF	45	649	9.6	9.3, 11, 13.5
2	55-63	3	full	BF	175	2528	3.8	9.3, 11, 17
	50-63	2	standard†	BF	110	1586	9.6	9.3, 11, 17
3	90	3	full	BF	390	5624	5.3	9.3, 11, 13.5, 17
	90	3	standard	BF	240	3461	14.1	9.3, 11, 13.5, 17
4	100-110	3	full	BF	700	10094	5.8	9.3, 11, 13.5, 17
	100-110	3	standard	BF	400	5768	17.8	9.3, 11, 13.5, 17
6	150-160-180	3	full	BF	1800	25957	6.1	9.3, 11, 13.5, 17
	125-160	3	standard	BF	900	12978	24.3	9.3, 11, 13.5, 17
8	225	2	full	BF	3650	52633	5.5	11, 13.5, 17
	225	3	standard	BF	1350	19467	40.3	9.3, 11, 13.5, 17
12	315	3	full	BF	7000	73542	10.6	11, 13.5, 17

Note: *C_V in US gal/min @ 1 psi Δ P*
K_V in litres/min @ 1 bar Δ P

* *Butt Fusion*
** *Socket Fusion*
† *Polyvalve II (C-Style) Valves*

Dimension Data



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

ANSI

Size	Port	A	B	C	D	E	Weight (lb.)
½	full	10.0	3.4	4.8	2.8	0.50	1.2
¾	full	10.0	3.4	4.8	2.8	0.75	1.2
1	standard	10.0	3.4	4.8	2.8	0.90	1.2
1¼	standard	10.0	3.4	4.8	2.8	0.90	1.2
2	full	14.7	6.4	9.1	4.2	1.82	3.8
	standard	13.0	4.5	6.5	3.7	1.30	3.1
3	full	15.0	8.0	11.4	3.5	2.50	8.9
	standard	12.8	6.4	9.1	3.6	1.90	4.5
4	full	20.0	10.4	15.0	3.1	3.62	19.5
	standard	15.0	8.0	11.4	3.8	2.50	8.9
6	full	21.0	12.6	18.6	3.9	5.20	38.0
	standard	20.0	10.4	15.0	5.3	3.62	23.0
8	full	69.8	12.5	19.9	24.0	6.30	98.0
	standard	20.0	12.6	18.6	4.0	4.78	42.5
Gear Operated							
8	full	69.8	14.8	22.2	24.0	6.30	134.0
12	full	83.8	17.5	27.7	30.0	9.91	305.0

Metric Valve Dimensions (mm)

Size	Port	A	B	C	D	E	Weight (kg.)
16-20	full	254	86	122	71	12.7	0.5
25	full	254	86	122	71	19.1	0.5
32	standard	254	86	122	71	22.9	0.5
40	standard	254	86	122	71	22.9	0.5
55-63	full	373	164	231	106	46.2	1.7
50-63	standard	330	115	165	94	33.0	1.4
90	full	381	203	290	89	63.5	4.0
	standard	325	164	231	91	48.0	2.0
100-110	full	508	264	381	77	91.9	8.8
	standard	381	203	290	95	63.5	4.0
150-160 & 180	full	533	320	472	99	132.1	17.2
125-160	standard	508	263	381	133	91.9	10.4
225	full	1773	318	504	610	160.0	44.5
	standard	508	320	472	127	102.0	19.3
Gear Operated							
225	full	1773	636	561	610	160	60.8
315	full	2129	443	704	762	251.7	138.3

**Optional vent holes. Contact factory for other vent options.*
Note: Valves are generally available in these metric sizes and may be available in other metric dimensions. Due to wall thickness considerations, all SDRs in some sizes may not be available. Contact your Polyvalve representative for exact availability.
Note: Polyvalve proudly offers pup lengths to customer specifications.

How to Order

Please provide the following information when you order:

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

Polyvalve Poly-Water® Valve Figure Number System

Specifies Pipe Size

Identifies the valve as a Polyvalve Poly-Water valve for water, wastewater and irrigation

Material designation:
9. DOW DGDA 2490

Defines flow passage (full or reduced) and end connection (ANSI or Metric dimension):
1. Full opening - American iron pipe size ends
2. Reduced opening - American iron pipe size ends
3. Full opening - Metric ends
4. Reduced opening - Metric ends
5. Full opening - CTS ends or other special feature ends
6. Reduced opening - CTS ends or other special feature ends

Standard Dimension Ratio (SDR)
(00 = other special features)

Specifies NSF Certified

12 - 6 X X X X - N

Special feature ends include integral socket ends, stub ends SDR, flanges, etc.

With sizes up to 12“ 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® valves are suitable for use with PE pipe and tubing complying with AWWA C901.

4” – 12” Polyvalve Poly-Water® 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® valves are recommended for water within a very restricted pH range of 6 to 8. For applications with pH outside of this range refer to the Poly-Chem brochure.
*Available in Copper Tubing Standard sizes (CTS)

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