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POLYVALVE POLY-CHEM® VALVES

POLYETHYLENE VALVES FOR CHEMICAL SERVICES www.AndronacoSAS.com

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







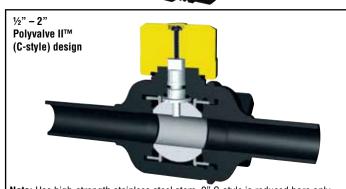


Why use Polyvalve Poly-Chem[®] valves?

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

Millions of Polyvalves have been sold since 1976 and are in use throughout the world. Here's why:

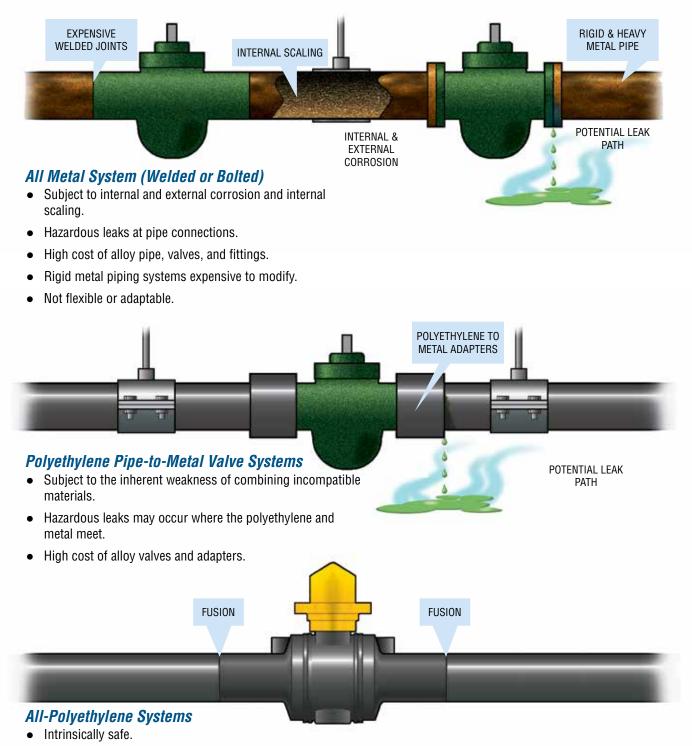
- Rugged and reliable Polyvalve Poly-Chem[®] valves are the strongest part of a polyethylene piping system.
- Drop-tight shutoff from dual elastomeric seats.
- Fused body shell removes leak paths to the atmosphere.
- Multiple elastomeric stem seals.
- No metal internal parts.
- Corrosion-free due to high-grade polymeric materials.
- Smooth bore gives excellent flow characteristics in both full and reduced port designs.
- Suitable for buried service or above ground service.
- Wide variety of trim for your specific application.
- Flanged end configuration available (butt fusion end configuration is standard).



2" - 12" design

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

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- Pipe is fused to the valves so there are no leak points.
- No chance of internal or external corrosion.
- Lightweight and flexible.
- Can rest on ground.



Poly-Chem® Valve Availability

Body Resin

Resin Supplier	Material Description	Color	ASTM Material Designation	Material Density	
Dow	DGDA 2490	Black	PE 4710/3408	High	

Maximum Allowable Service Pressures

Poly-Chem[®] Valves for Chemical Services PE 4710/3408 Material

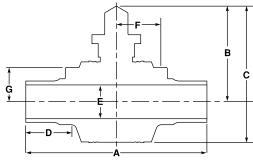
Temperature	SDR 9	SDR 11	SDR 13.5	SDR 15.5	SDR 17					
Tomporataro	psig	psig	psig	psig	psig					
	bar	bar	bar	bar	bar					
Acids, bases, d	Acids, bases, dry gas gathering, drain water, and salt water									
74°F	200	160	128	110	100					
23°C	13.8	11	8.8	7.6	6.9					
140°F	100	80	64	55	50					
60°C	6.9	5.5	4.4	3.8	3.4					
Gaseous Hydro	carbons									
74°F	128	102	82	71	64					
23°C	8.8	7.1	5.3	4.9	4.4					
140°F	64	51	41	35	32					
60°C	4.4	3.5	2.8	2.4	2.2					
Liquid Hydrocarbons										
74°F	100	80	64	55	50					
23°C	6.9	5.5	4.4	3.8	3.4					
140°F	50	40	32	28	25					

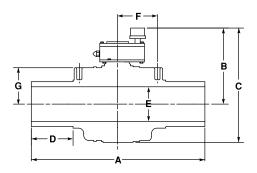
Available with flanged ends. Contact the factory for dimensions and pricing.



Poly-Chem® Valve Availability

Dimensions





ANSI

Size	Port	A	В	C	D	E	Weight (lb.)
1/2	full	10.0	3.4	4.8	2.8	0.50	1.2
3⁄4	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
11⁄4	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
2	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
5	standard	12.8	6.4	9.1	3.6	1.95	4.5
4	full	20.0	10.4	15.0	3.1	3.62	19.5
4	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
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
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

Size	Port	A	В	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
00	full	381	203	290	89	63.5	4.0
90	standard	325	164	231	91	48.0	2.0
100-110	full	508	264	381	77	91.9	8.8
100-110	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
005	full	1773	318	504	610	160	44.5
225	standard	508	320	472	102	121.4	19.3
Gear Operated							
225	full	1773	376	564	610	160	60.8
315	full	2129	443	704	762	251.7	138.3

Note: Polyvalve proudly offers pup lengths to customer specifications.



Poly-Chem® Valve Availability

Materials of Construction and Trim Selection

Item	Cat A Trim	Cat B Trim	Cat C Trim	Cat D Trim
Body	HDPE	HDPE	HDPE	
Ball	Polypropylene	Polypropylene	Polypropylene	
Seat Retainers	Polypropylene	Polypropylene	Polypropylene	
Seats	EPDM	EPDM	Viton A	
Stem	Modified Polyethylene Oxide	Poly-etherimide	Poly-etherimide	
Stem Seals	EPDM	EPDM	Viton A	
Groundwater Seal	Neoprene	Neoprene	Neoprene	
Wrench Adapter	Polypropylene	Polypropylene	Polypropylene	Ś
Primary Applications 2" Full port through 12" full port	Strong bases: Hydroxides, caustics Organic acids: Acetic Ammonia and ammonium salt solutions Nonpotable water	Alcohols and glycols	Metal salt solutions: Bicarbonates, bromides, carbonates, chlorides, cyanides, ferri-cyanides, fluorides, hypochlorites, nitrates, oxides, phosphates, sulphates, or sulphides, of Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Mercury, Nickel, Potassium, Silver, Sodium, Tin, or Zinc.	Special Applications
	Air and inert gases		Other: Crude oil, produced water, carbon dioxide, hydrogen sulphide, landfill methane and leachate, hydrogen peroxide.	

• Poly-Chem[®] Valves are not suitable for use on aromatic hydrocarbons, ketones, ethers, gasoline.

• Poly-Chem[®] Valves are not intended for fuel gas services.

• Please refer to the PE pipe manufacturers recommendations for additional service compatibility information or send full service details to Polyvalve Valves for our advice.

• For applications not listed, please contact Polyvalve for valve recommendations.

• For 1/2" through 2" standard port consult Polyvalve.

For inorganic acids such as hydrochloric, nitric, sulphuric, phosphoric, hydrofluoric and boric please contact Polyvalve for valve recommendations.

Ball Valves for Chemical Services

	Size	Body	Port	End	C _v		Equiv	Available SDRs
In.	metric	Pieces		Config.		Κ _v	Length of Pipe (ft.)	
1⁄2	16-20	2	full †	BF* or SF**	18	260	2	9.3
3⁄4	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
11⁄4	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
2	3 90 -	3	full	BF	390	5624	5.3	9.3, 11, 13.5, 17
3		3	standard	BF	240	3461	14.1	9.3, 11, 13.5, 17
4	4 100-110	3	full	BF	700	10094	5.8	9.3, 11, 13.5, 17
4	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
0	100-100-100	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
12	315	3	full	BF	7000	73542	10.6	11, 13.5, 17

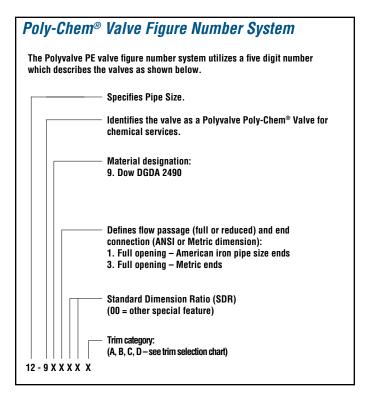
Note: C_v in US gal/min @ 1 psi ΔP . K_v in litres/min @ 1 bar ΔP

^{*}Butt Fusion **Socket Fusion™ † Polyvalve II (C-Style) Valves

How to Order

Please provide the following information when you order:

- Valve size
- Valve body material
- Full bore or reduced bore
- Standard Dimension Ratio (SDR) number
- Trim category (A, B, C, or D)
- Wrenches available upon request
- Note: Butt fusion ends are standard, flanged ends available as an option.





With sizes up to 12" Polyvalve Poly-Chem[®] valves come in the widest range of sizes on the market. ½" through 8" standard port shipped in cartons to shield them from ultraviolet light and protect the valve ends from damage.

For Use In:

- Acids
- Bases
- Dry gas gathering
- Salt water
- Gaseous hydrocarbons
- Liquid hydrocarbon





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To find your local Andronaco S.A.S. representative, visit www.AndronacoSAS.com or call +33 4 77 40 18 77

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