POLYBALL® NATURAL GAS VALVES

Polyethylene Valves for Natural Gas.



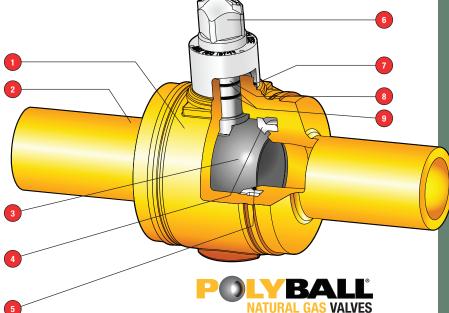
Polyethylene Valves Made in the U.S.A.

The POLYBALL valve is manufactured in Mansura, Louisiana, in a facility certified to ISO 9001:2015 Quality Management System requirements. Custom, dedicated tooling and equipment have been developed for every valve size to achieve and maintain quality levels during production and minimize variation in all processes.

At assembly, each valve is assigned a unique serial number that provides complete traceability for critical components. The serial number allows complete traceability from the customer's installation back to the raw material.



All POLYBALL valves feature the industry-standard tracking and traceability code per ASTM F2897 that allows instant access to individual valve specifications. With decoding software, simply scan the bar code to see the production date, size, material and valve type, lot code and more.



	NO.	COMPONENT	MATERIAL	FEATURES AND BENEFITS
NOL	1	Body	POLYETHYLENE	PE 2708, medium density PE 4710, high density
RUCI	2	Ends	POLYETHYLENE	PE 2708, various SDRs PE 4710, various SDRs
CONSTRUCTION	3	Ball	POLYPROPYLENE	High strength, long life and low operating torque
OF	4	Retainer	POLYPROPYLENE	Positive restraint under any condition; retains seat under high differential pressure
NLS	5	Ball Seat	BUNA-N	Reliable sealing from -20°F to 140°F
MATERIAL	6	Actuator	POLYPROPYLENE	2" operating square, positive position indication, over-torque protection
MA	7	Weather Seal	BUNA-N	Protects from groundwater and dirt
_	8	Stem	ACETAL*	Excellent durability and strength, blowout proof
	9	Stem Seals	BUNA-N	Redundant sealing with dual o-rings

* Stem is stainless steel on 2" RP, 1 1/2" FP, 1 1/4" FP sizes.



Polyethylene Valves

Made in the U.S.A.

Kerotest Manufacturing Corp. has more than a 100-year commitment to the gas distribution industry. So Polyball will always be American made, supported and distributed, with ample inventory at all times.

Made to perform and comply

- 49 CFR Part 192
- ASTM D2513
- ASTM F2897
- ASME B16.40
- CSA standard B137.4 02
- CSA International certified (Canadian Standard Association)

Made to meet your needs in these applications:

- Natural Gas Distribution
- Natural Gas Gathering
- Landfill Gas (Methane)
- Air
- Gaseous Propane



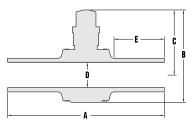
Metric sizes from 20mm to 315mm.

Available with High Head Extensions in varying heights to meet specific installation requirements. These valves meet the same strict standards of all Polyball valves.

	ITEM	OPERATING FEATURES			
IATION	MAXIMUM OPERATING PRESSURE**	PE 2708 : 100 psig (6.9 bar), SDR 11 PE 2708 : 125 psig (8.6 bar), SDR 9.0 PE 4710 : 125 psig (8.6 bar), SDR 7.0, 9.0, 9.3, 11			
IFORM	MATERIALS	Medium Density Polyethylene (PE 2708) High Density Polyethylene (PE 4710)			
	TEMPERATURE	From -20°F to 140°F (-29°C to 60°C)			
	PIPE CONNECTION VIA	Butt Fusion, Mechanical Fittings, Electrofusion			
GEN	BORE	Full Port or Reduced Port			
	STEM TYPE	Standard or High Head Extended Stem, Length as Required			
	SDR	SDRs available: 7.0, 9.0, 9.3, 11, 11.5, 12.5, 13.5, 15.5, 17, 21			

** For valves manufactured after Jan 2019, using a .40 Design Factor per 49 CFR § 192.121





Valve Sizes and Dimensions (Approx. inches) **Full Port**

SIZE	A	В	C	D	E	Cv	WEIGHT (lbs)
2"	19	9.7	7.0	1.90	6.4	180	5
3"	21	12.2	8.7	2.70	6.4	400	10
4"	25	14.8	10.2	3.63	7.5	710	20
6"	27	19.6	13.2	5.25	7.0	1290	42
8"	28	25.5	17.2	6.70	5.3	2119	96
12"	82	31.3	19.4	10.10	28	5400	396

Polyball[®] Full Port

12" POLYBALL Full Port features a 10.1" port opening.

Body is high-density PE 4710 polyethylene.

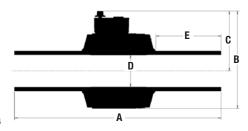
Polyball® Full Port

Nipple extensions available in PE 4710 or PE 2708.

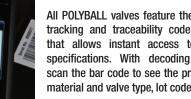
Available SDRs: 9, 11, 13.5, 17

The gearbox features a 6:1 ratio and is also sealed against outside contaminants, making it virtually waterproof.

12" Full Port is also available with bypass option.

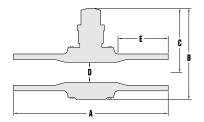






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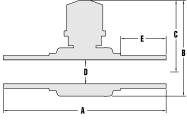
12" FULL PORT DIMENSIONS (Approx. Inches)								
Α	В	C	D	E	Weight (lbs)	SDR		
82	31.3	19.4	10.10	28	396	9 to 21		





Valve Sizes and Dimensions (Approx. inches) Reduced Port

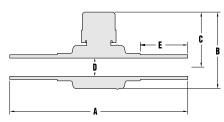
SIZE	A	В	C	D	E	Cv	WEIGHT (lbs)
3"	19	9.6	6.9	1.90	6.8	180	5.3
4"	21	12.2	8.7	2.70	6.5	450	11
6"	25	14.8	10.2	3.63	7.3	910	26
8"	27	19.6	13.2	5.25	7.2	1290	47
10"	28	25.5	17.2	6.70	5.5	2119	102
12"	28	25.5	17.2	6.70	5.7	2119	110



Valve Sizes and Dimensions (Approx. inches)

	SIZE	A	В	C	D	E	Cv	WEIGHT (lbs)
F	1.25"	11.8	6.9	5.2	1.38	3.2	100	2
F	1.5"	11.8	6.9	5.2	1.38	3.2	150	2
R	2"	11.8	6.9	5.2	1.38	3.2	150	2

(F) Full Port (R) Reduced Port



Service Port

Valve Sizes and Dimensions (Approx. inches)

SIZE	A	В	C	D	Е	Cv	WEIGHT (lbs)
1/2" CTS	12	5.2	3.7	1.01	3.0	7	1
1/2" IPS	12	5.2	3.7	1.01	3.0	21	1
3/4" CTS	12	5.2	3.7	1.01	3.0	22	1
3/4" IPS	12	5.2	3.7	1.01	3.0	30	1
1" CTS	12	5.2	3.7	1.01	3.0	33	1
1" IPS	12	5.2	3.7	1.01	3.2	42	2
1.25" CTS	12	5.2	3.7	1.01	3.2	45	2
1.25" IPS	12	5.2	3.7	1.01	3.2	49	2

Polyball® Reduced Port



Polyball®



All dimensions are approximate and subject to change. Consult factory for certified dimensions.

All valves are in full compliance with ASME B16.40.

6

TEST ITEM	TEST METHOD	SDR 11 MEDIUM DENSITY PE 2708	SDR 9.0 AND 11 HIGH DENSITY PE 4710
SEAT TEST	Air seat test under water, both directions	4 psi (0.3 bar) 150 psi (10.4 bar)	4 psi (0.3 bar) 190 psi (13 bar)
SHELL TEST	Air test under water	4 psi (0.3 bar) 150 psi (10.4 bar)	4 psi (0.3 bar) 190 psi (13 bar)
OPERATIONAL TESTING	Valve operated 10 times at full differential pressure at -20°F and 140°F (-29°C to 60°C)	100 psi (6.9 bar)	125 psi (8.6 bar)
BEND TEST	20 pipe diameters bend radius at differential pressure operation, seat leakage checked	10 psi (0.7 bar) 100 psi (6.9 bar)	10 psi (0.7 bar) 125 psi (8.6 bar)
TORQUE TEST	Operating torque at -20°F and 100°F (-29°C to 38°C)	100 psi (6.9 bar)	125 psi (8.6 bar)
SUSTAINED PRESSURE TEST	Tested at 176°F (80°C)	134 psi (9.2 bar) DR 11	148 psi (10.2 bar) DR 9.0
HIGH PRESSURE TEST	High pressure Shell Test	> 600 psi (41 bar)	> 700 psi (48 bar)



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