P LY B A L L® NATURAL GAS VALVES



Polyethylene Valves for Natural Gas.



Providing valves and equipment to the world's energy markets for over 100 years.



Polyethylene Valves Made in the

Kerotest Manufacturing Corp. has over 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
- Inert Gases (Argon, Helium, Neon)







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



Providing valves and equipment to the world's energy markets for over 100 years.

Kerotest Manufacturing Corp. 5500 Second Avenue • Pittsburgh, PA 15207

412-521-5942 • Fax: 412-521-5990 www.kerotest.com • sales@kerotest.com

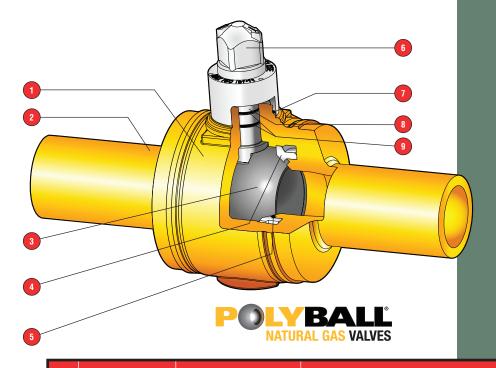
ITEM	OPERATING FEATURES				
OPERATING	PE 2406/PE 2708 : 80 psig (5.5 bar), SDR 11 PE 3408/PE 4710 : 100 psig (6.9 bar), SDR 11 PE 3408/PE 4710 : 125 psig (8.6 bar), SDR 7.0, 9.0, 9.3				
MATERIALS	Medium Density Polyethylene (PE 2406/PE 2708) High Density Polyethylene (PE 3408/PE 4710)				
TEMPERATURE	From -20°F to 140°F (-29°C to 60°C)				
PIPE CONNECTION VIA	Butt Fusion, Mechanical Fittings, Electrofusion				
BORE	Full Port or Reduced Port				
STEM TYPE	Standard or High Head Extended Stem, length as required				
SDR	SDR'S available – 7.0, 9.0, 9.3, 11, 11.5, 12.5, 13.5, 15.5, 17, 2				

Polyethylene Valves Made in the U.S.A.

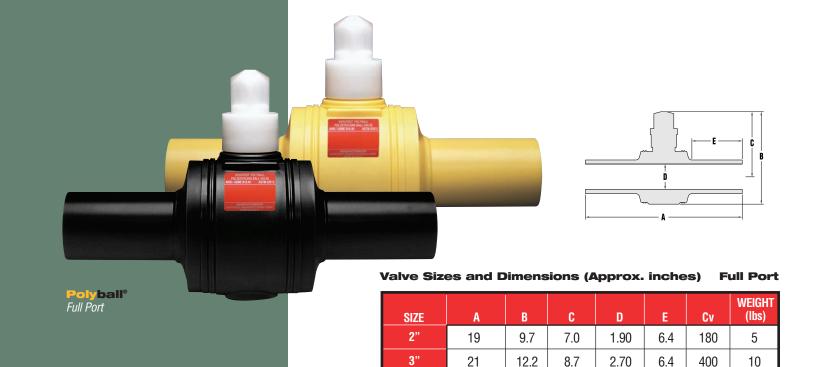
The Polyball valve is manufactured at our Mansura, Louisiana facility. Custom, dedicated tooling and equipment have been developed for every valve size to achieve and maintain quality levels during production and minimize variation in all processes.

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



	NO.	COMPONENT	MATERIAL	FEATURES AND BENEFITS
	1	Body	POLYETHYLENE	PE 2406/PE 2708, medium density PE 3408/PE 4710, high density
CONSTRUCTION	2	Ends	POLYETHYLENE	PE 2406/PE 2708, various SDR's PE 3408/PE 4710, various SDR's
SNS	3	Ball	POLYPROPYLENE	High strength, long life and low operating torque
5	4	Retainer	POLYPROPYLENE	Positive restraint under any condition; Retains seat under high differential pressure
ב ב	5	Ball Seat	BUNA-N	Reliable sealing from -20°F to 140°F
MATERIALS	6	Actuator	POLYPROPYLENE	2" operating square, positive position indication, over-torque protection
Z	7	Weather Seal	BUNA-N	Protects from ground water and dirt
_	8	Stem	ACETAL *	Excellent durability and strength, blowout proof
	9	Stem Seals	BUNA-N	Redundant sealing with dual o-rings



4"

8"

25

27

28

14.8

19.6

25.5

10.2

13.2

17.2

3.63

5.25

6.70

7.6

7.0

5.3

710

1290

2170

20

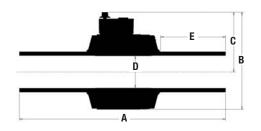
42

96

93 31.3 19.4 10.10 35 5400 440 12" 12" POLYBALL **Full Port features a** 10.1" port opening. Polyball[®] Full Port Body is high density PE 3408/ PE 4710 polyethylene. Nipple extensions available in PE 3408/PE 4710 or PE 2406/PE 2708.

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

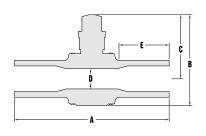
12" Full Port also available with bypass option.





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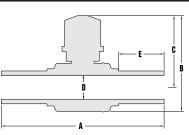
12" FULL PORT DIMENSIONS (Approx. Inches)							
Α	В	C	D	Е	Weight (lbs)	SDR	
93	31.3	19.4	10.10	35	440	9 to 21	





Valve Sizes and Dimensions (Approx. inches) Reduced Port

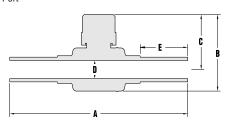
SIZE	A	В	C	D	E	Cv	WEIGHT (lbs)
3"	19	9.6	6.9	1.90	6.8	180	5.3
4"	21	12.2	8.7	2.70	6.5	450	11
6"	25	14.8	10.2	3.63	7.3	910	26
8"	27	19.6	13.2	5.25	7.2	2200	47
10"	28	25.5	17.2	6.70	5.5	4450	102
12"	28	25.5	17.2	6.70	5.7	4950	110



Valve Sizes and Dimensions (Approx. inches)

SIZE	A	В	С	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	E	Cv	WEIGHT (lbs)
1/2" CTS	11.5	5.2	3.7	1.01	3.0	7	1
1/2" IPS	11.5	5.2	3.7	1.01	3.0	21	1
3/4" CTS	11.5	5.2	3.7	1.01	3.0	22	1
3/4" IPS	11.5	5.2	3.7	1.01	3.0	30	1
1" CTS	11.5	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[®]

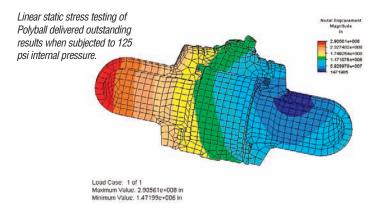
Polyball° Service Valve

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

Pass With Flying Colors

Kerotest Polyball Polyethylene Ball Valves meet the requirements of ASME B16.40: Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems.

Independent third party evaluation. A complete report, demonstrating compliance with ASME B16.40 is available upon request. All qualification and production tests were successfully completed. Additional tests performed by Kerotest beyond the B16.40 requirements include: Burst Test, Cycle Test, Impact Test, Bend Test and Tensile Test.



Test conditions for ASME B16.40 and additional tests.

TEST ITEM	TEST METHOD	SDR 11 HIGH DENSITY PE 3408/4710 SDR 9 MEDIUM DENSITY PE 2406/2708	SDR 9 HIGH DENSITY PE 3408/4710
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	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 (-29°C) and 100°F (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) 170 hours min	148 psi (10.2 bar) 170 hours min
IMPACT RESISTANCE	Valve impacted with 20 lb. weight from 3 ft. at 0°F (-18°C) and 100°F (38°C)	5 times	5 times
HIGH PRESSURE TEST	High pressure Shell Test	> 600 psi (41 bar)	> 700 psi (48 bar)

