



POLY BALL VALVE

Authorized Distributor Linc Energy Systems www.LincEnergySystems.com

Manufactured for quality and longevity utilizing:

Polyethylene body

HDPE POW BAIL VALVE SIZE 1/4"IPS SDR 11 EPDM - Part #500008

- Nitrile (HNBR) or EPDM seats
- Polypropylene ball and Op Nut
- Stainless steel stems
- 1/4 turn 2" operating nut
- · All valves are Full Port
- Available in ¾" to 4" SDR 11
- NSF/ANSI 61, AWWA C901/906 & ASME 16.40 approved

Integrity Fusion Products, Inc.

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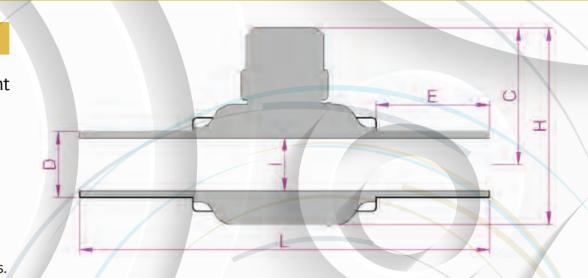
IntegriFuse Poly Ball Valves

IntegriFuse Poly Ball Valves are offered in sizes from 34" to 4". Our full port black valves are approved for both gas and water applications. All valves are equipped with a 1/4 turn 2" square operating nut.



Poly Ball Valves with 2" Operating Nut - IPS - SDR 11

Nominal Size	Port	SDR	D	MinW/T	L	Н	C	1	E	CV	Weight
¾" IPS	Full	11	1.050"	.095	11.50"	5.12"	3.70"	1.06"	3.62"	32	1.1 lbs.
1" IPS	Full	11	1.315"	.119	11.50"	5.12"	3.70"	1.06"	3.62"	50	1.1 lbs.
1 ¼" IPS	Full	11	1.660"	.151	11.50"	5.12"	3.70"	1.06"	3.62"	79	1.1 lbs.
1 ½" IPS	Full	11	1.900"	.173	11.81"	5.51"	3.78"	1.26"	3.15"	104	1.7 lbs.
2" IPS	Full	11	2.375"	.216	19.53"	9.65"	7.01"	1.77"	6.69"	164	4.6 lbs.
3" IPS	Full	11	3.500"	.318	21.18"	11.81"	8.50"	2.52"	6.69"	375	8.8 lbs.
4" IPS	Full	11	4.500"	.409	24.02"	14.92"	10.39"	3.58"	6.69"	591	18.7 lbs.



Poly Ball Valves - Features

No.	Component	Material	Features
1	Body	Polyethylene	PE3408/PE4710/PE100
2	End	Polyethylene	PE3408/PE4710/PE100
3	Ball	Polypropylene	Excellent Strength & Thermal R
4	Retainer	Polypropylene	Positive seal under any condition under high differential pressure
5	Ball Seat	Nitrile (NBR) or EPDM	Reliable sealing from -20° F to 3
6	Stem	Stainless Steel	Excellent durability & strength
7	Stem Seal	Nitrile (NBR) or EPDM	Redundant sealing with multiple
8	Weather Seal	Nitrile (NBR) or EPDM	Protects from ground water and
9	Operating Nut	Polypropylene	1/4 turn 2 inch (50mm) square

ires

PE4710/PE100 PE4710/PE100 Strength & Thermal Resistance seal under any condition. Retains seat gh differential pressure sealing from –20° F to 140° F durability & strength nt sealing with multiple O-rings from ground water and dirt



Full Port

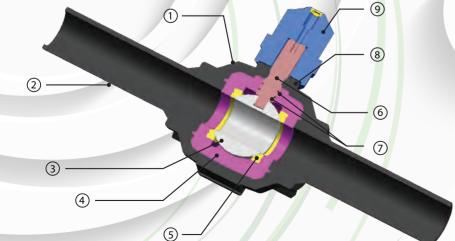


EPDM

Certified to NSF / ANSI 61, AWWA C901 / 906 Requirements

Most commonly used in potable water applications

> -IPS Sizes-**SDR 11** 3/4" to 4"







Full Port

Nitrile(NBR)

Meets ASME 16.40 Requirements

Most commonly used in Gas, Industrial, Landfill, Golf Courses, and other non-potable water applications

> -IPS Sizes-SDR 11 3/4" to 4"

Poly Ball Valve Specifications

Item

Operating Feature

IntegriFuse fittings are manufactured from 0% recycled materials with black high density bimodal polyethylene copolymer designed for use in, but not limited to, potable water, golf courses, natural gas, industrial, landfill, oil & gas, and mining applications.

Valves meet NSF/ANSI 61, AWWA C901/906, ASTM-D2513, ASTM D3261 and ASME16.40 requirements

Designed/Tested	Valves meet ASTM D 2513 requirements and ISO 9001.							
Materials	PE4710/PE100 Black SDF	4710/PE100 Black SDR 11 rated @ 100 PSI for gas & 200 PSI for water						
Temperature	From – 20° F to 140° F (-2	20° F to 140° F (-20° C to 60° C)						
Bore	Full Port							
Pipe Connection	Butt Fusion	n						
Valve Boxes	IntegriFuse valves are su	oported by all the leading valve	box manufacturers					
Hydrostatic St	rength Test							
9	P 100° F TEMP: 176° F							
1000 Hours 1000	Hours 170 Hours							
265 PSI 214 F	PSI 136 PSI							
Physical Proper	ties Metric	English	Comments					
Density	.959 g/cı	m3 0.0346 lb/ir	n Black: ASTM D4883					
Environmental Stre Resistance	ess Crack >= 5000 h	our >= 5000 hou	ur Condition C; ASTM D1693					
Carbon Black Loa	ading 2.30%	2.30%	ASTM D1603					
	8.00 g/10	min 8.00 g/10 m	in					
Melt Flow	@Load 21 Temperature		lb, ASTM D1238 74 °F					
Mechanical Prop	erties Metric	English	Comments					
Mechanical Prop	erties Metric >= 10000		Comments ur Notched Tensile; ASTM F1473					
	>= 10000							
PENT	>= 10000 re D 66.0	>= 10000 ho	ur Notched Tensile; ASTM F1473					
PENT Hardness, Shor	>= 10000 re D 66.0 t Break 37.9 MF	>= 10000 ho 66.0 5500 PSI	ur Notched Tensile; ASTM F1473 ASTM D2240					
PENT Hardness, Shor Tensile Strength a	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M	>= 10000 ho 66.0 5500 PSI Pa 3625 PSI	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638					
PENT Hardness, Shor Tensile Strength at Tensile Strength	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI >= 600%	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638					
PENT Hardness, Shor Tensile Strength a Tensile Strength Elongation at B	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b >= 600% a 150 KSI	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790					
PENT Hardness, Shor Tensile Strength Tensile Strength Elongation at B Flexural Modu Izod Impact, Not	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009 tlus 1.03 GF tched 4.81 J/c	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b >= 600% a 150 KSI 7b 9.00 ft-lb/ir	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790					
PENT Hardness, Shor Tensile Strength a Tensile Strength Elongation at B Flexural Modu	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009 tlus 1.03 GF tched 4.81 J/c	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b >= 600% a 150 KSI 9.00 ft-lb/ir 7a 1000 PSI	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256					
PENT Hardness, Shor Tensile Strength Tensile Strength Elongation at B Flexural Modu Izod Impact, Not	>= 10000 te D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009 Ilus 1.03 GF iched 4.81 J/c 6.89 MF 11.0 MF	>= 10000 ho 66.0 5500 PSI 3625 PSI >= 600% a 150 KSI m 9.00 ft-lb/ir 1000 PSI a 1600 PSI	ur Notched Tensile; ASTM F1473 ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837					
PENT Hardness, Shor Tensile Strength Tensile Strength Elongation at B Flexural Modu Izod Impact, Not	>= 10000 re D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009 reak 1.03 GF riched 4.81 J/c n Basis 11.0 MF rties Metric	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b = 600% 150 KSI 7c 1000 PSI 7a 1600 PSI English	astm D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837					
PENT Hardness, Shor Tensile Strength a Tensile Strength Elongation at B Flexural Modu Izod Impact, Not Hydrostatic Desig	>= 10000 re D 66.0 t Break 37.9 MF Yield 24.99 M reak >= 6009 reak 1.03 GF reak 6.89 MF reak 11.0 MF reties Metric	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b 7a 150 KSI 7a 1000 PSI 7a 1600 PSI English 259 °F	ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837 Comments ASTM D1525					
PENT Hardness, Shor Tensile Strength Elongation at B Flexural Modu Izod Impact, Not Hydrostatic Desig Thermal Proper Vicat Softening I	>= 10000 re D 66.0 rt Break 37.9 MF Yield 24.99 M reak >= 6009 reak 1.03 GF reak 6.89 MF reak 6.89 MF reak 11.0 MF reak 6.89 MF reak 6.80 MF reak 6.	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b >= 600% 7a 150 KSI 7b 1000 PSI 7a 1000 PSI 7a 1600 PSI 7b 1600 PSI 7b 1600 PSI	ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837 Comments ASTM D1525					
PENT Hardness, Shor Tensile Strength at Tensile Strength Elongation at B Flexural Modu Izod Impact, Not Hydrostatic Desig Thermal Proper Vicat Softening I Brittleness Tempe	>= 10000 re D 66.0 rt Break 37.9 MF Yield 24.99 M reak >= 6009 rched 4.81 J/c rn Basis 11.0 MF rties Metric Point 126 °C rerature = -118 °C perature >= 220 °C	Nour	ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837 Comments ASTM D1525 ASTM D746					
PENT Hardness, Shor Tensile Strength a Tensile Strength Elongation at B Flexural Modu Izod Impact, Not Hydrostatic Desig Thermal Proper Vicat Softening I Brittleness Tempe	>= 10000 re D 66.0 rt Break 37.9 MF Yield 24.99 M reak >= 6009 reak 1.03 GF reak 4.81 J/c reak 6.89 MF reak 11.0 MF reak 6.89 MF reak 6.80 MF reak 6	Nour	ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837 Comments ASTM D1525 ASTM D746 Thermal Stability; ASTM D2513					
PENT Hardness, Shor Tensile Strength at Tensile Strength Elongation at B Flexural Modu Izod Impact, Not Hydrostatic Desig Thermal Proper Vicat Softening I Brittleness Tempe Decomposition Tem Descriptive Proper	>= 10000 re D 66.0 rt Break 37.9 MF Yield 24.99 M reak >= 6009 reak 1.03 GF reak 4.81 J/c reak 6.89 MF reak 11.0 MF reak 6.89 MF reak 6.80 MF reak 6	>= 10000 ho 66.0 5500 PSI 7a 3625 PSI 7b 150 KSI 7b 150 KSI 7c 1000 PSI 1600 PSI 160	ASTM D2240 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2 in/min; ASTM D638 2% Secant-Method; ASTM D790 ASTM D256 At 60 °C; ASTM D2837 Room Temp; ASTM D2837 Comments ASTM D1525 ASTM D746 Thermal Stability; ASTM D2513 Comments ASTM D3350					