# A BETTER CHOICE

xcadusa.com



Irrigation Innovation Through Design, Engineering and Experience

# Radius is King





#### A BETTER CHOICE

An Irrigation Products
Design and Distribution Company

### Irrigation Innovation Through Design, Engineering and Experience<sup>™</sup>

**XCAD USA®** is a committed leader in the irrigation industry. We proudly supply our customers with superior irrigation products that are crafted with excellence. Our mission is to be the <u>best value</u> and to bring innovation to the irrigation industry through design, engineering and experience.

Over the last twenty-plus years, **XCAD USA**° has been devoted to building lasting relationships with our customers. Those relationships have allowed our business to thrive and have provided us with the privilege to utilize and conserve one of the world's greatest resources: water (H<sub>2</sub>O).

At **XCAD USA**® we are invested in our people, our state, our country and the world. Not only do we provide world class irrigation products for agricultural and industrial applications, we support communities and help grow farm economies.

All **XCAD USA**® irrigation products are designed by our engineering team in Rupert, Idaho. We are proud to invest in the people that build our products and the communities that they live in. Our company reflects the exemplary values of our customers, our employees, and our great state. We are honored to be recognized as a leader in our industry. **XCAD USA**® will continue to serve local communities throughout the USA, and the world, with our innovative products and our commitment to excellence. We are a great value and a better choice.



**Torque-Driven**<sup>™</sup>



Irrigation Innovation Through Design, Engineering and Experience





Multi-Composite

Raven-Smart Technology of Modern Design

Precision Channel Spoon

X SERIES BRASS" - MADE TO LAST"

X75 Black Bird™

Radius Radius is King

Creopluology™

The Science of Making Rain™

AXIS-SKY
End of Pivot Sprinkler

SX100 End Gun<sup>®</sup>
Thunderbolf

AXIS-FIELD End of Pivot Sprinkler

X-CART™

All **XCAD USA**° Products Are Designed and Engineered in the USA Trademark of **XCAD USA**°

All prices are subject to change without notice

# AQUA BURST 🔊



**Torque Driven**™

# **Irrigation Through Innovation**

Raven-Smart™



**RADIUS** 



**AXIS-SKY** 

Aqua Burst® Impact Sprinklers
Are Water Lubricated

The use of additional lubricants such as Oil, Grease,
Anti-Seize or Pipe Dope will damage the bearing
assembly and void the warranty.

Teflon® tape is the only other
recommended thread sealant.

Design and Engineering

**Quality Materials** 



**AXIS-FIELD** 



HF30

Workmanship

Guaranteed

Designed and Engineered in the USA



X75-18

# AQUA BURST

1-208-438-9223 Email: xcad@pmt.org xcadusa.com

### PIVOT SPRINKLERS AND ACCESSORIES

# AQUA BURST >>> Radius Madius is King Madius is King Madius Madiu



RADIUS-P

Jet Pack Sold Separately

Limited in supply.

Sold only in box quantities.

(15 per box)

#### **Features**

- Quick-Click<sup>™</sup> rotary nozzle with Run, Off, and Flush modes
- Jet Pack™ nozzle carrier for 2 extra onboard nozzles
- Available in 3 pad configurations:
   Black, Blue, Purple
- Working pressure 6 20 psi
- The Radius Pivot Sprinkler requires a minimum of 2'- (0.6m) of reinforced flexible hose in the mounting assembly.
- Radius Sprinkler comes preassembled with weights. Do not use any other conventional weight system instead of/or in addition to the Radius Sprinkler.
- Always make sure that all components of the mounting assembly of the Radius Sprinkler are securely tightened.

#### • Black Plate

Multi-size droplets with maximum radius to help prevent runoff

#### Blue Plate

Large droplets at a low trajectory for high wind applications

#### • Purple Plate

Small droplets for tight soils to help prevent soil sealing

RADIUS-BK Black Plate
RADIUS-BL Blue Plate
RADIUS-P Purple Plate

#### Jet Pack™

Nozzle(s) Not Included

RSJPACK Radius Jet Pack

- The Radius Jet Pack Nozzle Storage System allows for two extra nozzles for when water availability or water application needs increase or decrease as crop matures.
- Jet Pack Nozzle Holder allows you to match crop water requirements throughout the growing season.



RSJPACK
Nozzle(s) Not Included

# AQUA BURST

2025 / 2026

#### PIVOT SPRINKLER REGULATOR



#### **XPR Regulator**

Patent Pending



XPR-20

Limited in supply.
Sold only in box quantities.

#### **Features**

- Allow at least 5 PSI (.35 BAR) extra pressure in order for the Aquaburst XPR Regulator to function properly.
- Aquaburst XPR Pressure Regulator has a flow of 5 to 15 gpm.
- 3/4 FNPT connections

XPR-6 6 PSI pressure regulator
XPR-10 10 PSI pressure regulator
XPR-15 15 PSI pressure regulator
XPR-20 20 PSI pressure regulator

- Aqua Burst™ XPR Regulators are designed for accuracy, durability, and efficiency for today's advanced pivot or linear systems
  - XPR Regulators maintain desired sprinkler pressure and increase performance by regulating a constant outlet pressure, improving distribution patterns and application rates

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# RADIUS QUICK-CLICK™ NOZZLES

### **Radius Quick-Click™ Nozzle Chart**





Odd numbers have diamonds.

**EVEN NOZZLE** 

ODD NOZZLE

	NOZZLE#	#9	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19
	COLOR	Light Blue	Beige	Beige	Gold	Gold	Lime	Lime	Lavender	Lavender	Gray	Gray
	DIAMOND	+		•		•		•		•		+
PSI	BAR	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM
6	0.4	0.34 1.28	0.42 1.59	0.50 1.89	0.61 2.30	0.71 2.68	0.82 3.10	0.95 3.59	1.08 4.08	1.22 4.61	1.36 5.14	1.53 5.79
10	0.7	0.44 1.66	0.54 2.04	0.65 2.46	0.79 2.99	10.92 3.48	1.06 4.01	1.23 4.65	1.40 5.29	1.58 5.98	1.75 6.62	1.97 7.45
15	1.0	0.53 2.00	0.66 2.50	0.79 2.99	0.96 3.63	1.13 4.27	1.29 4.88	1.51 5.71	1.71 6.47	1.93 7.30	2.14 8.09	2.41 9.12
20	1.4	0.62 2.34	0.76 2.87	0.92 3.48	1.11 4.20	1.30 4.92	1.49 5.63	1.74 6.58	1.98 7.49	2.23 8.44	2.48 9.38	2.79 10.56
25	1.7	0.69 2.61	0.85 3.22	1.02 3.86	1.24 4.69	1.46 5.52	1.67 6.32	1.95 7.38	2.21 8.36	2.50 9.46	2.77 10.48	3.12 11.81
30	2.1	0.76 2.87	0.93 3.52	1.12 4.23	1.36 5.14	1.59 6.01	1.83 6.92	2.14 8.09	2.42 9.15	2.74 10.37	3.03 11.46	3.41 12.90
40	2.8	0.87 3.29	1.07 4.05	1.29 4.88	1.57 5.94	1.84 6.96	2.11 7.98	2.47 9.34	2.80 10.59	3.16 11.96	3.50 13.24	3.94 14.91
50	3.4	0.97 3.67	1.20 4.54	1.45 5.48	1.76 6.66	2.06 7.79	2.36 8.93	2.76 10.44	3.13 11.84	3.53 13.32	3.91 14.79	4.41 16.69

NOZZLE #	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
COLOF	Turquoise	Turquoise	Yellow	Yellow	Red	Red	White	White	Blue	Blue	Dark Brown
DIAMONE		+		٠		٠		•		+	
PSI   BAR	GPM   LPM	GPM   LPM									
6 0.4	1.70 6.43	1.84 6.96	2.04 7.72	2.22 8.40	2.44 9.23	2.64 9.99	2.87 10.86	3.07 11.61	3.35 12.68	3.58 13.55	3.83 14.49
10 0.7	2.19 8.28	2.38 9.00	2.64 9.99	2.86 10.82	3.16 11.96	3.41 12.90	3.70 14.00	3.97 15.00	4.32 16.35	4.62 17.48	4.94 18.69
15 1.0	2.69 10.18	2.91 11.01	3.23 12.22	3.50 13.24	3.86 14.61	4.17 15.78	4.53 17.14	4.86 18.39	5.29 20.02	5.66 21.42	6.06 22.93
20 1.4	3.10 11.73	3.36 12.71	3.73 14.11	4.05 15.32	4.46 16.88	4.82 18.24	5.23 19.79	5.61 21.23	6.11 23.12	6.53 24.71	6.99 26.45
25 1.7	3.47 13.13	3.76 14.23	4.17 15.78	4.52 17.10	4.99 18.88	5.38 20.36	5.85 22.14	6.27 23.73	6.83 25.85	7.30 27.63	7.82 29.59
30 2.1	3.80 14.38	4.12 15.59	4.56 17.25	4.96 18.77	5.47 20.70	5.90 22.33	6.41 24.26	6.87 26.00	7.48 28.31	8.00 30.28	8.56 32.39
40 2.8	4.39 16.16	4.76 18.01	5.27 19.94	5.72 21.65	6.31 23.88	6.81 25.77	7.40 28.00	7.94 30.65	8.64 32.70	9.24 34.97	9.89 37.43
50 3.4	4.90 18.54	5.32 20.13	5.89 22.29	6.40 24.22	7.06 26.72	7.61 28.80	8.28 31.33	8.87 33.57	9.66 36.56	10.33 39.13	11.06 41.86

	NOZZLE#	#31		#:	32	#3	3	#3	4	#3	15	#	36	#3	37	#3	8	#	39	#4	10	#4	11
	COLOR	Dark Br	own	Ora	inge	Ora	nge	Dark (	Green	Dark (	Green	Pui	ple	Pur	rple	Bla	ck	Bla	ack	Dark Tu	rquoise	Dark Tu	rquoise
	DIAMOND	•				•				•	,				•				•			•	,
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	4.06	15.36	4.36	16.50	4.65	17.60	4.94	18.69	5.20	19.68	5.47	20.07	5.84	22.10	6.18	23.39	6.52	24.68	6.85	25.92	7.26	27.48
10	0.7	5.24	19.83	5.63	21.50	6.00	22.71	6.37	24.11	6.72	25.43	7.06	26.72	7.54	28.54	7.97	30.16	8.42	31.87	8.85	33.49	9.37	35.47
15	1.0	6.41	24.26	6.89	26.07	7.35	29.71	7.81	29.56	8.23	31.15	8.65	32.74	9.24	34.97	9.77	36.98	10.31	39.02	10.84	41.02	11.48	43.45
20	1.4	7.40	28.00	7.96	30.12	8.49	32.13	9.01	34.10	9.50	35.95	9.98	37.77	10.67	40.38	11.28	42.69	11.91	45.08	12.51	47.35	13.26	40.19
25	1.7	8.28	31.34	8.90	33.68	9.49	35.91	10.08	38.15	10.62	40.19	11.16	42.24	11.92	45.11	12.61	47.72	13.31	50.38	13.99	52.95	14.82	56.09
30	2.1	9.07	34.32	9.75	36.90	10.39	39.32	11.04	41.78	11.64	44.05	12.23	46.29	13.06	49.43	13.81	52.27	14.58	55.19	15.33	58.02	16.23	61.43
40	2.8	10.47	36.62	11.26	42.62	12.00	45.42	12.75	48.25	13.44	50.87	14.12	53.44	15.08	57.07	15.95	60.37	16.84	63.74	17.70	66.99	18.75	70.97
50	3.4	11.71	44.32	12.59	47.65	13.42	50.79	14.25	53.93	15.02	56.85	15.79	59.76	16.86	63.81	17.83	67.48	18.81	71.20	19.79	74.90	20.96	79.33

	NOZZLE#	#42	#43	#44	#45	#46	#47	#48	#49	#50
	COLOR	Mustard	Mustard	Maroon	Maroon	Cream	Cream	Dark Blue	Dark Blue	Copper
	DIAMOND		*		+		•		•	
PSI	BAR	GPM   LPM	GPM   LPM	GPM   LPM	GPM   LPM					
6	0.4	7.60 28.76	7.96 30.13	8.33 31.52	8.73 33.04	9.12 34.51	9.58 36.26	9.96 37.69	10.31 39.02	10.77 40.76
10	0.7	9.81 37.13	10.28 38.91	10.75 40.68	11.27 42.66	11.77 44.54	12.36 46.78	12.86 48.67	13.31 50.38	13.91 52.64
15	1.0	12.01 45.45	12.59 47.65	13.17 19.84	13.80 52.23	14.41 54.54	15.14 57.30	15.75 59.61	16.30 61.70	17.03 64.45
20	1.4	13.87 52.49	14.54 55.03	15.20 57.53	15.93 60.30	16.64 62.98	17.49 66.20	18.19 68.84	18.82 71.23	19.67 74.45
25	1.7	15.51 58.70	16.25 61.51	17.00 64.34	17.81 67.41	18.61 70.43	19.55 74.00	20.33 79.94	21.05 79.67	21.99 83.23
30	2.1	16.99 64.30	17.80 67.37	18.62 70.47	19.51 73.85	20.38 77.13	21.42 81.07	22.28 84.32	23.05 87.24	24.09 91.18
40	2.8	19.61 74.22	20.56 77.82	21.50 81.37	22.53 85.28	23.54 89.09	24.73 93.60	25.72 97.35	26.62 100.76	27.82 105.29
50	3.4	21.93 83.00	22.98 86.98	24.04 90.99	25.19 95.34	26.31 99.58	27.65 104.66	28.76 108.85	29.76 112.64	31.10 117.71

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# RADIUS QUICK-CLICK™ NOZZLES

### Radius Quick-Click™ Nozzles



RVN-9	Rotary Valve Nozzle	#9 LT BLUE	*
RVN-10	Rotary Valve Nozzle	#10 BEIGE	
RVN-11	Rotary Valve Nozzle	#11 BEIGE	٠
RVN-12	Rotary Valve Nozzle	#12 GOLD	
RVN-13	Rotary Valve Nozzle	#13 GOLD	٠
RVN-14	Rotary Valve Nozzle	#14 LIME	
RVN-15	Rotary Valve Nozzle	#15 LIME	٠
RVN-16	Rotary Valve Nozzle	#16 LAVENDER	
RVN-17	Rotary Valve Nozzle	#17 LAVENDER	٠
RVN-18	Rotary Valve Nozzle	#18 GRAY	
RVN-19	Rotary Valve Nozzle	#19 GRAY	٠
RVN-20	Rotary Valve Nozzle	#20 TURQUOISE	
RVN-21	Rotary Valve Nozzle	#21 TURQUOISE	٠
RVN-22	Rotary Valve Nozzle	#22 YELLOW	
RVN-23	Rotary Valve Nozzle	#23 YELLOW	٠
RVN-24	Rotary Valve Nozzle	#24 RED	
RVN-25	Rotary Valve Nozzle	#25 RED	٠
RVN-26	Rotary Valve Nozzle	#26 WHITE	
RVN-27	Rotary Valve Nozzle	#27 WHITE	*
RVN-28	Rotary Valve Nozzle	#28 BLUE	
RVN-29	Rotary Valve Nozzle	#29 BLUE	٠

RVN-30	Rotary Valve Nozzle	#30 DK BROWN	
RVN-31	Rotary Valve Nozzle	#31 DK BROWN	•
RVN-32	Rotary Valve Nozzle	#32 ORANGE	
RVN-33	Rotary Valve Nozzle	#33 ORANGE	•
RVN-34	Rotary Valve Nozzle	#34 DK GREEN	
RVN-35	Rotary Valve Nozzle	#35 DK GREEN	٠
RVN-36	Rotary Valve Nozzle	#36 PURPLE	
RVN-37	Rotary Valve Nozzle	#37 PURPLE	•
RVN-38	Rotary Valve Nozzle	#38 BLACK	
RVN-39	Rotary Valve Nozzle	#39 BLACK	•
RVN-40	Rotary Valve Nozzle	#40 DK TURQUOISE	
RVN-41	Rotary Valve Nozzle	#41 DK TURQUOISE	•
RVN-42	Rotary Valve Nozzle	#42 MUSTARD	
RVN-43	Rotary Valve Nozzle	#43 MUSTARD	•
RVN-44	Rotary Valve Nozzle	#44 MAROON	
RVN-45	Rotary Valve Nozzle	#45 MAROON	*
RVN-46	Rotary Valve Nozzle	#46 CREAM	
RVN-47	Rotary Valve Nozzle	#47 CREAM	*
RVN-48	Rotary Valve Nozzle	#48 DK BLUE	
RVN-49	Rotary Valve Nozzle	#49 DK BLUE	+
RVN-50	Rotary Valve Nozzle	#50 COPPER	

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### AXIS END OF PIVOT SPRINKLER



**AXIS-F** Field Turbine

# AQUA BURST Viscous<sup>™</sup> Technology

#### **Features**

- New 'V-Torque' brass dampener
- ◆ Easy nozzle assembly and replacement
- ◆ 15 to 50 psi working pressure
- ◆ Use in conjunction with X100 End Gun sprinkler for added acreage and improved coverage
- ◆ Comes with a full set of nozzles: 12, 15, 18 & 21
- ◆ 1 1/4" NPT base
- ◆ Use in combination with Seal-Matic® 1 1/4" valve

# **AXIS-FIELD**

# **End of Pivot Sprinkler**

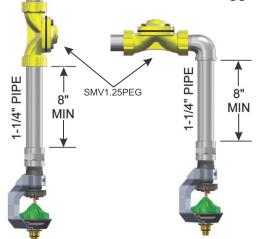
includes nozzle set

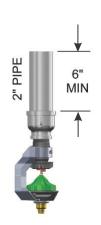
Axis-F Sprinkler with Nozzle Set AXIS-F

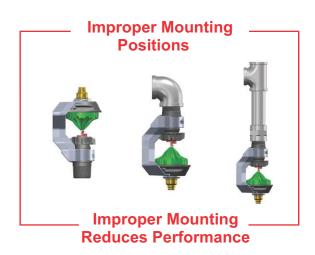
**AXIS-NOZ** Axis Replacement Nozzle Set

**Built in the USA** 

#### Suggested Mounting For Best Performance







#### **Preliminary Performance (US Units)**

Radius - GPM

#### Operating Pressure Must be 15 psi (min) to 50 (max) psi

PSI	#12 nozzle	#15 nozzle	#18 nozzle	#21 nozzle
15	31 - 12.0	32 - 19.0	38 - 29.0	38 - 35.5
20	33 - 13.5	35 - 21.8	41 - 32.8	41 - 41.5
25	35 - 15.3	38 - 24.3	44 - 36.5	44 - 48.0
30	37 - 16.5	41 - 26.5	47 - 39.8	47 - 52.0
35	38 - 17.8	43 - 28.8	49 - 43.0	49 - 55.5
40	39 - 19.0	45 - 30.8	51 - 46.5	51 - 59.5
45	40 - 20.0	46 - 32.3	52 - 49.5	51 - 62.5
50	41 - 21.0	47 - 33.8	53 - 51.0	51 - 65.5

# AQUA BURST

2025 / 2026

### AXIS END OF PIVOT SPRINKLER



**AXIS-S**Sky Turbine

# AQUA BURST > Viscous Technology

#### **Features**

- New 'V-Torque' brass dampener
- Easy nozzle assembly and replacement
- ◆ 15 to 50 psi working pressure
- Use in conjunction with X100 End Gun sprinkler for added acreage and improved coverage
- ◆ Comes with a full set of nozzles: 12, 15, 18 & 21
- 1 1/4" NPT base
- ◆ Use in combination with Seal-Matic® 1 1/4" valve

# **AXIS-SKY**

# **End of Pivot Sprinkler**

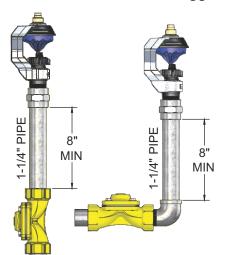
includes nozzle set

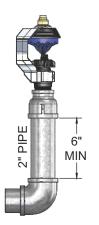
AXIS-S Axis-S Sprinkler with Nozzle Set

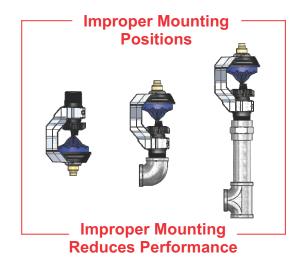
AXIS-NOZ Axis Replacement Nozzle Set

**Built in the USA** 

#### Suggested Mounting For Best Performance







#### **Preliminary Performance (US Units)**

Radius - GPM

Operating Pressure Must be 15 psi (min) to 50 (max) psi

PSI	#12 nozzle	#15 nozzle	#18 nozzle	#21 nozzle
15	36 - 12.0	37 - 19.0	42 - 29.0	43 - 35.5
20	38 - 13.5	40 - 21.8	42 - 32.8	45 - 41.5
25	41 - 15.3	42 - 24.3	42 - 36.5	47 - 48.0
30	43 - 16.5	44 - 26.5	43 - 39.8	48 - 52.0
35	44 - 17.8	45 - 28.8	45 - 43.0	50 - 55.5
40	44 - 19.0	46 - 30.8	46 - 46.5	50 - 59.5
45	45 - 20.0	46 - 32.3	46 - 49.5	46 - 62.5
50	45 - 21.0	47 - 33.8	47 - 51.0	46 - 65.5

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### **END GUNS**

#### 3-Year Limited Warranty

Designed and Built In Rupert, Idaho, USA

# SX100 End Gun Thunderbolt

Raven-Smart<sup>™</sup> Technology



#### **Features**

- 37 290 gpm, 35 100 psi
- 18° trajectory Pivot end gun
- 24° trajectory Movable and solid set
- 43° trajectory Dust control and mining
- Continuous forward and reverse speeds
- Adjustable control from 30° to 330°
- 2" NPT

#### **Advantages**

- All stainless steel ball bearings
- Comes standard with both high and low force drive vanes for superior performance of small to large nozzles
- Powder-coated aluminum drive arm
- Stainless-steel nozzle mount and stud
- Fully adjustable shift box
- Solid brass reversing stops
- Taper ring nozzles
- All aluminum parts are epoxy coated or fully anodized
- 100% Rebuildable in our factory or your shop!

End Gun Does Not Include Nozzle

# SX10018 End Gun<sup>™</sup> Thunderbolt<sup>™</sup>

SX10018 18° End Gun SX10024 24° End Gun SX10043 43° End Gun

SX10018SS 18° Stainless Steel End Gun SX10024SS 24° Stainless Steel End Gun

#### Warranty and Disclaimer

XCAD USA" /Aqua Burst" X100 End Gun" and SX100 End Gun" sprinklers are warranteed for one year from date of manufacture to be free of defective materials and workmanship when used within the working specifications for which the product was designed and intended and under normal use and service. This warranty includes an additional three (3) year service plan (from date of purchase) for repair of any non-functioning X100 End Gun" and SX100 End Gun" due to defective materials and workmanship or excessive wear when used in normal working conditions. The manufacturer's liability under this warranty is limited solely to repair of defective parts and labor and the manufacturer will not be liable for any freight, rop loss or other consequential damages resulting from defects, excessive wear or breach of warranty. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and or liabilities of the manufacturer. No agent, employee or representative of the manufacturer has the authority to waive, alter or add to the provisions of this warranty, nor make any representations or warranty not contained herein. XCAD USA:/Aqua Burst-reserves the right to define this warranty or any other warranty as XCAD USA:/Aqua Burst-reserves the right to define this warranty or any other warranty as XCAD USA:/Aqua Burst-sees fit.

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#### **AQUA BURST® SX100 Thunderbolt Performance Charts**



Single Straight Bore Nozzle

SX100-51L (BLACK)



SX10018 Radius - GPM

	Large Gra	ay Drive V	ane SX10	0-51H	Factory Installed Small Black Drive Vane SX100-51L										
PSI	.4" Nozzle	.45" Nozzle	.5" Nozzle	.55" Nozzle	.6" Nozzle	.65" Nozzle	.70" Nozzle	.75" Nozzle	.80" Nozzle	.85" Nozzle	.90" Nozzle	.95" Nozzle	.1" Nozzle		
40	74 - 26	79 - 35	85 - 42	90 - 52	95 - 61	99 - 71	102 - 84	107 - 95	111 - 108	119 - 123	122 - 139	128 - 154	-		
45	77 - 28	83 - 37	88 - 44	93 - 55	98 - 64	102 - 76	106 - 87	110 - 101	115 - 114	124 - 131	126 - 146	132 - 162	136 - 180		
50	80 - 29	86 - 39	92 - 46	96 - 58	101 - 68	105 - 80	110 - 92	114 - 105	118 - 119	127 - 138	131 - 151	135 - 169	140 - 187		
55	82 - 31	89 - 40	95 - 49	99 - 61	104 - 72	109 - 84	113 - 97	117 - 111	122 - 125	131 - 145	134 - 160	139 - 178	144 - 196		
60	84 - 32	92 - 41	97 - 51	102 - 63	108 - 78	112 - 88	117 - 101	119 - 116	125 - 132	134 - 150	138 - 167	143 - 186	148 - 205		
65	86 - 34	94 - 43	100 - 54	105 - 65	110 - 80	116 - 93	121 - 105	123 - 120	129 - 137	139 - 157	141 - 175	147 - 195	153 - 214		
70	87 - 36	96 - 44	102 - 55	108 - 68	111 - 81	119 - 98	125 - 110	126 - 125	133 - 142	141 - 163	145 - 181	152 - 202	158 - 223		
75	89 - 37	100 - 46	105 - 57	110 - 70	115 - 84	122 - 100	127 - 114	130 - 130	136 - 148	141 - 163	149 - 187	156 - 209	162 - 230		
80	91 - 39	103 - 48	108 - 59	111 - 72	118 - 86	125 - 102	130 - 118	134 - 133	138 - 152	144 - 168	152 - 193	159 - 215	165 - 237		
85	93 - 40	106 - 50	110 - 61	113 - 75	121 - 89	129 - 104	134 - 120	138 - 137	141 - 157	147 - 174	154 - 199	161 - 222	167 - 244		
90	94 - 42	109 - 52	112 - 63	116 - 77	124 - 93	133 - 107	137 - 124	143 - 142	145 - 162	150 - 180	157 - 206	163 - 228	169 - 251		
95	97 - 43	112 - 54	115 - 65	118 - 80	128 - 96	137 - 111	141 - 129	147 - 146	149 - 167	152 - 185	159 - 212	165 - 235	172 - 259		
100	99 - 45	115 - 56	118 - 67	121 - 83	131 - 99	141 - 115	146 - 133	151 - 150	152 - 172	155 - 191	161 - 217	168 - 242	174 - 265		

# SX10024

	Large Gra	y Drive Va	ane SX10	D-51H	Factory Installed Small Black Drive Vane SX100-51L										
PSI	.4" Nozzle	.45" Nozzle	.5" Nozzle	.55" Nozzle	.6" Nozzle	.65" Nozzle	.70" Nozzle	.75" Nozzle	.80" Nozzle	.85" Nozzle	.90" Nozzle	.95" Nozzle	.1" Nozzle		
40	79 - 28	85 - 37	91 - 45	96 - 55	101 - 65	105 - 76	109 - 89	114 - 101	118 - 115	127 - 131	130 - 148	136 - 164	-		
45	82 - 30	89 - 39	94 - 47	99 - 58	104 - 68	109 - 81	113 - 93	118 - 107	122 - 127	132 - 139	135 - 155	140 - 172	145 - 191		
50	85 - 31	92 - 41	98 - 49	103 - 62	107 - 72	112 - 85	117 - 98	122 - 112	126 - 127	136 - 147	139 - 161	144 - 180	149 - 199		
55	88 - 33	95 - 43	101 - 52	106 - 65	111 - 77	116 - 89	121 - 103	125 - 118	130 - 133	139 - 154	143 - 170	148 - 189	153 - 209		
60	90 - 34	98 - 44	104 - 54	109 - 67	115 - 83	120 - 94	125 - 107	127 - 123	134 - 140	143 - 160	147 - 178	152 - 198	157 - 218		
65	91 - 36	100 - 46	107 - 57	112 - 69	117 - 85	123 - 99	129 - 112	131 - 128	138 - 146	148 - 167	150 - 186	157 - 207	163 - 228		
70	93 - 38	103 - 47	109 - 59	115 - 72	118 - 86	127 - 104	133 - 117	135 - 133	142 - 151	150 - 173	154 - 193	162 - 215	169 - 237		
75	95 - 39	107 - 49	112 - 61	117 - 74	122 - 89	130 - 106	136 - 121	139 - 138	145 - 157	154 - 179	158 - 199	166 - 222	173 - 245		
80	97 - 41	110 - 51	115 - 63	118 - 77	126 - 92	133 - 108	138 - 125	143 - 142	147 - 162	156 - 185	162 - 205	169 - 229	176 - 252		
85	99 - 43	113 - 53	117 - 65	121 - 80	129 - 95	137 - 111	143 - 128	147 - 146	151 - 167	160 - 191	164 - 212	171 - 236	178 - 260		
90	101 - 45	116 - 55	119 - 67	123 - 82	132 - 99	142 - 114	146 - 132	152 - 151	154 - 172	162 - 197	167 - 219	174 - 243	180 - 267		
95	103 - 46	119 - 57	123 - 69	126 - 85	136 - 102	146 - 118	151 - 137	156 - 155	158 - 178	165 - 203	169 - 225	176 - 250	183 - 275		
100	105 - 48	122 - 60	126 - 71	129 - 88	139 - 105	150 - 122	155 - 141	161 - 160	162 - 183	167 - 208	172 - 231	179 - 257	185 - 282		

Gray drive vane is intended for use ONLY at low pressures and/or small nozzle sizes as indicated

by the gray shaded area on the SX100 End Gun performance chart. Use in any other manner will void warranty.

SX100V18

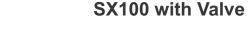
SX100V24

SX100V43

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### **END GUNS**

# SX100 End Gun Thunderbolt\*





#### 2" Seal Matic Valve Combo

**Features** 

37 - 290 gpm, 35 - 100 psi

No electric solenoid required for End Gurī™ control when used with booster pump



X100BA



# **X100 Complete Replacement Bearing**

Also Fits Nelson™ SR100 and SR75 (Does not include stops)

X100BA Complete Bearing Assembly with SS Ball Bearing

X100BASS Heavy-Duty Stainless Steel Bearing Assembly

#### **Features**

- Standard stainless steel ball bearings
- Anodized aluminum body and bearing stem
- One-piece brass bearing base carrier with Aqua Burst<sup>®</sup> exclusive UltraSlip impregnated o-ring
- Heavy-duty wastewater bearing assembly includes stainless-steel ball bearings, bearing stem, bearing nut, bearing carrier and base flange

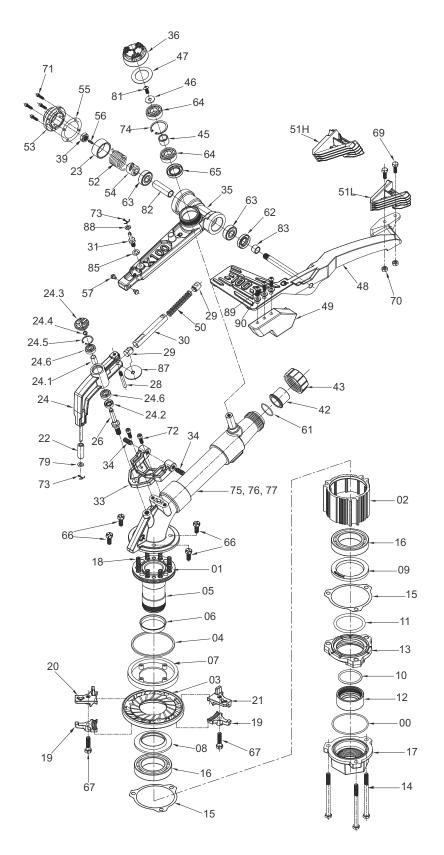
**Built in the USA** 

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### **END GUN REPLACEMENT PARTS**

#### SX100 End Gun<sup>™</sup> Parts



13

2025 / 2026

Shift Arm Stud

Shift Box, SS

Arm Nut, SS

Arm Weight

Trip Spring, SS

Shift Arm

Shift Box Set Screw

Bearing Boss Cover

Straight Bore Nozzle

Nozzle Retainer Nut Shift Arm Spacer

Bearing Washer, SS Arm Bearing Cap Gasket

X100 Single Strut Arm

X100-31

X100-33 X100-34

X100-35

X100-36

X100-39

X100-42

X100-43

X100-45 X100-46

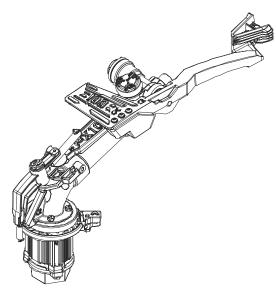
X100-47

X100-48

X100-49 X100-50 1-208-438-9223 Email: xcad@pmt.org xcadusa.com

#### **END GUN REPLACEMENT PARTS**

V400.00	Dana Nist O Ding. 450 (aranga)	V400 F411	Cray Drive Mane (Lenne)
X100-00	Base Nut O-Ring -150 (orange)	X100-51H	Gray Drive Vane (Large)
X100-01	O-Ring -226 (light pink)	X100-51L	Black Drive Vane (Small)
X100-02	Bearing Housing	X100-52	Arm Spring, SS
X100-03	Upper Bearing Carrier	X100-53	Arm Spring Cover
X100-04	Brake Seal	X100-54	Spring Pawl
X100-05	Bearing Stem	X100-55	Spring Cover Gasket
X100-06	Seal Sleeve	X100-56	Pawl Key, Brass
X100-07	Brake Disc	X100-57	Impact Button, Brass
X100-08	Upper Bearing Seal (med. blue)	X100-61	Nozzle O-ring -025 (yellow)
X100-09	Lower Bearing Seal (purple)	X100-62	Arm Seal (red)
X100-10	O-Ring -224 (dark blue)	X100-63	Arm Bearing 6201, SS
X100-11	O-Ring -331 (med. green)	X100-64	Shift Arm Bearing 6202, SS
X100-12	Chromed Stem Nut	X100-65	Shift Arm Seal (orange)
X100-13	Bearing Base Carrier	X100-66	Bolt 5/16-18 x 5/8, SS
X100-14	Bearing Hex Bolt	X100-67	Bolt 5/16-18 x 1 1/4, SS
X100-15	Housing Gasket	X100-69	Bolt 1/4" x 3/4", SS
X100-16SS	Ball Bearing 6010, SS	X100-70	Nut 1/4, SS
X100-17	Base Nut Flange	X100-71	Cap Screw #8 x 5/8, SS
X100-18	Friction Spring	X100-72	Cap Screw 1/4 x 1/2, SS
X100-19	Reverse Stop, Bottom	X100-73	Cotter Pin
X100-20	Reverse Stop, Left	X100-74	Snap Ring 1 3/8", SS
X100-21	Reverse Stop, Right	X100-75	X100 18° Elbow Body
X100-22	Swing Arm Pin Bushing	X100-76	X100 24° Elbow Body
X100-23	Nylon Arm Spring Sleeve	X100-77	X100 43° Elbow Body
X100-24	Reverse Swing Arm Assembly	X100-79	Brass Washer
X100-24-1	Bearing Spacer	X100-81	1/4 x 1/2" Buttonhead Screw, SS
X100-24-2	Shaft Seal	X100-82	Long Shaft Sleeve
X100-24-3	Urethane Cap	X100-83	Short Shaft Sleeve
X100-24-4	Circlip	X100-85	Split Lock Washer, 5/16", SS
X100-24-5	Internal Retaining Ring	X100-87	Fender Washer, 1/4" x 1 1/2", SS
X100-24-6	SS 608 Bearing	X100-88	M6x18mm Washer, 1.6mm
X100-24 0	Reverse Arm Stud	X100-89	1/4" x 3/4" Button Head Screw
X100-20 X100-28	Threaded Swing Arm Top Pin	X100-99	1/4" Stainless Washer
X100-28 X100-29	Trip Spring Follower	X100-30	1/7 Clairiless Washel
X100-30	Spring Guide Pipe		



# AQUA BURST



### **END GUNS**

Raven-Smart™ Technology

# X75 End Gun<sup>™</sup> Black Bird<sup>™</sup>



X75-18 **Pivot Gun** 

#### **Features**

- Comes standard with 8 nozzles 3, 3.5, 4, 4.5, 5, 5.5, 6 and 6.5
- Powder-coated nozzle mount, drive arm and body
- 18° trajectory pivot end gun
- 27° trajectory movable solid set
- 18 100 gpm, 40 90 psi
- Full and part circle
- Replaceable spoon
- 2" NPT male thread, 1 1/2" NPT female thread
- High-quality composite bearings

#### X75-18 End Gun™ Black Bird™

sold individually

X75-18 18° End Gun X75-24 24/27° End Gun

#### Warranty and Disclaimer

XCAD USA' /Aqua Burst" X-75 End Gun" sprinklers are warranteed for one year from date of manufacture to be free of defective materials and workmanship when used within the working specifications for which the product was designed and intended and under normal use and service. The manufacturer's liability under this warranty is limited solely to repair of defective parts and labor and the manufacturer will not be liable for any freight, crop loss or other consequential damages resulting from defects, excessive wear or breach of warranty. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and or liabilities of the manufacturer. No agent, employee or representative of the manufacturer has the authority to waive, alter or add to the provisions of this warranty, or make any representations or warranty not contained herein. XCAD USA'/Aqua Burst' reserves the right to define this warranty or any other warranty as XCAD USA'/Aqua Burst' sees fit.

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#### **AQUA BURST® X75 Black Bird Performance Charts**

### X75-18

18° Radius - GPM Pivot Gun

PSI	.3" Nozzle	.35" Nozzle	.4" Nozzle	.45" Nozzle	.5" Nozzle	.55" Nozzle	.6" Nozzle	.65" Nozzle
20	-	-	-	-	55 - 33	66 - 40	70 - 47	75 - 55
25	-	-	-	-	65 - 37	70 - 44	78 - 53	80 - 62
30	-	-	60 - 26	68 - 33	75 - 40	81 - 48	82 - 57	84 - 68
35	-	-	66 - 28	74 - 35	80 - 43	86 - 52	89 - 62	90 - 73
40	63 - 17	65 - 23	71 - 30	80 - 38	83 - 46	90 - 56	93 - 66	95 - 78
45	65 - 18	70 - 24	78 - 32	84 - 40	87 - 49	91 - 59	96 - 70	99 - 83
50	70 - 19	74 - 26	81 - 33	86 - 42	90 - 52	93 - 62	100 - 74	102 - 87
55	72 - 20	78 - 27	82 - 35	88 - 44	94 - 54	95 - 65	102 - 78	105 - 91
60	73 - 21	80 - 28	84 - 36	92 - 46	97 - 56	100 - 68	105 - 81	108 - 96
65	75 - 21	81 - 29	85 - 38	95 - 48	102 - 59	104 - 71	110 - 85	116 - 99
70	81 - 22	82 - 30	86 - 39	100 - 49	106 - 61	108 - 74	112 - 88	120 - 103
75	83 - 23	84 - 31	87 - 41	108 - 51	112 - 63	113 - 76	115 - 91	122 - 107
80	85 - 24	86 - 32	88 - 42	111 - 53	114 - 65	115 - 79	119 - 94	124 - 110

# X75-24

24/27° Radius - GPM Field Gun

PSI	.3" Nozzle	.35" Nozzle	.4" Nozzle	.45" Nozzle	.5" Nozzle	.55" Nozzle	.6" Nozzle	.65" Nozzle
20	-	-	-	-	69 - 33	70 - 40	72 - 47	75 - 55
25	-	-	-	-	71 - 37	75 - 44	77 - 53	80 - 62
30	-	-	74 - 26	75 - 33	77 - 40	79 - 48	84 - 57	87 - 67
35	-	-	78 - 28	80 - 35	82 - 43	84 - 52	86 - 62	95 - 73
40	68 - 17	78 - 23	81 - 30	83 - 38	86 - 46	88 - 56	89 - 66	99 - 78
45	69 - 18	80 - 24	83 - 32	86 - 40	93 - 49	95 - 59	100 - 70	102 - 82
50	70 - 19	85 - 26	90 - 33	91 - 42	95 - 52	100 - 62	104 - 74	107 - 87
55	71 - 20	90 - 27	92 - 35	95 - 44	100 - 54	104 - 65	106 - 78	110 - 91
60	76 - 21	92 - 28	95 - 36	100 - 46	103 - 56	109 - 68	111 - 81	113 - 95
65	80 - 21	96 - 29	98 - 38	103 - 48	109 - 59	115 - 71	116 - 84	117 - 99
70	82 - 22	100 - 30	101 - 39	105 - 49	111 - 61	119 - 74	120 - 88	121 - 103
75	83 - 23	103 - 31	104 - 41	110 - 51	114 - 63	124 - 76	125 - 91	127 - 106
80	85 - 24	107 - 32	108 - 42	115 - 53	117 - 65	125 - 79	127 - 94	130 - 110

# AQUA BURST

2025 / 2026

### MULTI-COMPOSITE™ 1/2" BASE IMPACT SPRINKLER

1/2" Full-Circle, Dual-Angle
Multi-Composite™ Impact

Raven-Smart™ Technology



AL1023

#### **Features**

- Full-circle, dual angle, 2-in-1 impact sprinkler
- 10° or 23° trajectory
- Included plug allows use of nozzle in either side
- ◆ 1/2" male NPT base
- Fits NOZ5R-Style nozzle
- 3/8-24 UNF nozzle threads

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Anodized aluminum drive arm
- Composite body is super-strong and impact resistant
- All-brass bearing
- Stainless-steel fulcrum pin, arm spring, and bearing spring
- Suitable for most solid set and portable applications
- Ideal for low precipitation rates
- Built-in vane straightener for improved performance
- Highly efficient water distribution
- Made from domestic and foreign parts

100/case

AL1023

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 2.5' Above Nozzle at Normal Pressure

Radius - GPM

PSI	3/32" nozzle	7 / 6 4 " n o z z l e	1/8 " n o z z l e	9 / 6 4 " n o z z l e
35	36 - 1.51	38 - 2.06	39 - 2.69	40 - 3.40
40	36 - 1.62	39 - 2.21	39 - 2.88	40 - 3.63
45	37 - 1.71	39 - 2.32	39 - 3.04	40 - 3.86
50	37 - 1.82	39 - 2.47	40 - 3.21	41 - 4.07
55	38 - 1.90	40 - 2.58	40 - 3.37	41 - 4.25
60	38 - 1.99	40 - 2.70	40 - 3.52	41 - 4.45

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#### MULTI-COMPOSITE™ 3/4" IMPACT SPRINKLER

# 3/4" Full-Circle Multi-Composite Impact Precision Channel Aluminum Arm

**Raven-Smart**<sup>™</sup> Technology



AL30

Aqua-Burst\* AL30 Multi-Composite\* Sprinklers are designed to outlast and outperform all other 3/4" impact sprinkler brands

#### **Features**

- Full-circle impact 26° trajectory
- 3/4" male NPT base
- Single (AL30) or dual nozzle (AL30D)

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Anodized die-cast aluminum drive arm with Precision Channel Spoon™ for smooth Torque-Driven™ operation and reduced splash-down
- Composite body is super-strong and impact resistant
- Highly efficient water distribution at both high and low operating pressures
- All-brass Seal-Lock bearing creates a debris resistant captive seal for long bearing wear
- Bearing spindle with debris journal to slow bearing wear
- Stainless-steel fulcrum pin, arm spring and bearing spring for long wearing reliability
- Ideal for wheel line, solid set and frost control
- Works well with either straight bore nozzle or flow-control nozzle with 1/4" NPT threads
- Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

60/case

AL30

AL30-C (w/chrome bearing)

AL30-SP (w/plastic spindle)

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Single Nozzle Radius - GPM

PSI	1/8" nozzle	9/64" nozzle	5/32" nozzle	11/64" nozzle	3/16" nozzle
30	39 - 2.1	41 - 3.2	42 - 3.9	44 - 4.7	46 - 5.6
35	40 - 2.4	41 - 3.5	44 - 4.3	46 - 5.3	47 - 6.0
40	40 - 2.5	42 - 3.7	44 - 4.6	46 - 5.5	48 - 6.4
45	41 - 2.8	42 - 3.7	45 - 5.1	47 - 5.8	49 - 6.8
50	41 - 3.1	43 - 3.9	46 - 5.1	48 - 6.2	50 - 7.3
55	42 - 3.2	43 - 4.3	46 - 5.4	48 - 6.4	50 - 7.6
60	42 - 3.4	44 - 4.5	47 - 5.6	49 - 6.6	51 - 7.9
65	43 - 3.6	44 - 4.7	47 - 5.8	49 - 6.9	51 - 8.2
70	44 - 3.9	45- 4.9	48 - 6.0	50 - 7.9	52 - 8.6

Dual Nozzle Radius - GPM

PSI	1/8" x 3/32" nozzles	9/64"x3/32" nozzles	5/32"x3/32" nozzles	11/64"x3/32" nozzles	3/16"x1/8" nozzles
30	39 - 3.2	41 - 4.6	43 - 5.4	44 - 6.2	45 - 8.1
35	39 - 3.3	41 - 5.0	43 - 5.8	45 - 6.7	46 - 8.8
40	40 - 3.4	42 - 5.3	44 - 6.2	46 - 7.2	48 - 9.5
45	40 - 3.8	42 - 5.7	45 - 6.5	47 - 7.7	49 - 10.1
50	41 - 4.2	43 - 5.9	45 - 6.9	47 - 8.1	50 - 10.6
55	42 - 4.5	43 - 6.2	46 - 7.3	48 - 8.4	50 - 11.0
60	43 - 4.6	44 - 6.5	46 - 7.6	48 - 8.7	51 - 11.6
65	43 - 4.9	44 - 6.8	47 - 7.9	49 - 9.0	52 - 12.2
70	44 - 5.2	45 - 7.0	47 - 8.2	50 - 9.2	52 - 12.6

# AQUA BURST

2025 / 2026

### 1/2" BRASS IMPACT SPRINKLER

# 1/2" Full-Circle Brass Impact Torque Driven™ Spoon Technology



HF20

#### **Features**

- Full-circle impact 23° trajectory
- 1/2" male NPT base
- Single nozzle
- 3/8-24 UNF nozzle threads
- Factory installed 1/8" or 7/64" nozzle

#### **Advantages**

- Cast brass drive arm with I-Beam construction and Torque-Driven™ spoon technology with improved balance, rotation speed, and durability
- Advanced arm balance with consistent rotation speed and increased durability
- Suitable for a wide range of nozzles 3/32", 7/64", 1/8", 9/64"
- Stainless-steel fulcrum pin, arm spring, and bearing spring
- Cast brass body with large impact bridges and cored water passage
- Coined body and arm ensures proper arm position and smooth operation
- Suitable for solid set and portable applications
- Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

100 /case

HF20-18

HF20-764

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Radius - GPM

PSI	3/32" nozzle	7/64" nozzle	1/8" nozzle	9/64" nozzle
35	36 - 1.50	38 - 2.05	39 - 2.69	39 - 3.39
40	36 - 1.61	38 - 2.19	39 - 2.88	40 - 3.62
45	37 - 1.71	39 - 2.32	39 - 3.04	40 - 3.84
50	37 - 1.80	39 - 2.45	40 - 3.21	41 - 4.05
55	38 - 1.89	40 - 2.57	40 - 3.37	41 - 4.24
60	38 - 1.97	40 - 2.68	41 - 3.52	41 - 4.43

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### 1/2" BRASS FULL-CIRCLE WEDGE IMPACT SPRINKLER

# 1/2" BRASS FULL-CIRCLE WEDGE IMPACT Torque Driven™ Spoon Technology



HF20W

#### **Features**

- Full-circle impact 23° trajectory
- ◆ 1/2" male NPT base
- Single nozzle
- 3/8-24 UNF nozzle threads
- Fits NOZ5R-Style nozzle

#### **Advantages**

- Cast brass drive arm with I-Beam construction and Torque-Driven™ spoon technology with improved balance, rotation speed, and durability
- Advanced arm balance with consistent rotation speed and increased durability
- Suitable for a wide range of nozzles 3/32", 7/64", 1/8", 9/64"
- Stainless-steel fulcrum pin, arm spring, and bearing spring
- Cast brass body with large impact bridges and cored water passage
- Coined body and arm ensures proper arm position and smooth operation
- Suitable for solid set and portable applications
- · Made with domestic and foreign parts
- · Preassembled with XC-33 thread sealant

100 /case

HF20W

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Radius - GPM

PSI	1/16" nozzle	5/64" nozzle	3/32" nozzle	7/64" nozzle
20	-	30 - 0.81	33 - 1.14	34 - 1.55
25	29 - 0.58	31 - 0.90	33 - 1.27	35 - 1.73
30	29 - 0.64	31 - 0.99	34 - 1.39	35 - 1.90
25	30 - 0.68	32 - 1.07	34 - 1.50	36 - 2.05
40	30 - 0.74	32 - 1.14	35 - 1.61	37 - 2.19
45	31 - 0.77	33 - 1.21	35 - 1.71	37 - 2.32
50	31 - 0.82	34 - 1.27	36 - 1.80	38 - 2.45
55	32 - 0.86	34 - 1.33	36 - 1.89	38 - 2.57
60	32 - 0.90	34 - 1.39	37 - 1.97	38 - 2.68

Operate ONLY between 20 psi (min) and 60 psi (max)

# AQUA BURST

2025 / 2026

#### 3/4" BRASS IMPACT SPRINKLER

# 3/4" Full-Circle Brass Impact Torque Driven



HF30

#### **Features**

- Full-circle impact 26° trajectory
- 3/4" male NPT base
- Single (HF30) or dual nozzle (HF30D)
- Fits 3/4" size nozzle (NOZ75 series)

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Cast brass drive arm with I-Beam construction and Torque-Driven™ spoon technology with improved balance, rotation speed, and durability
- Cast brass body with triple bridge construction and cored water passage
- · Seal-Lock bearing creates a captive seal
- Spindle with debris journal to slow bearing wear
- Stainless-steel fulcrum pin, arm spring, and bearing spring for long wearing reliability
- Ideal for hand line, wheel line, solid set, and a wide-range of other applications
- Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

60/case

HF30 (single) HF30D (dual)

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Single Nozzle Radius - GPM

1/8 9/64" 11/64" 3/16" 5/32" PSI nozzle nozzle nozzle nozzle nozzle 41 - 3.3 35 40 - 2.443 - 4.1 45 - 5.1 46 - 5.9 40 40 - 2.6 42 - 3.5 46 - 5.3 47 - 6.4 44 - 4.5 45 41 - 2.942 - 3.744 - 4.7 46 - 5.7 48 - 6.750 42 - 3.143 - 4.0 45 - 4.9 47 - 6.1 48 - 7.2 55 42 - 3.3 43 - 4.3 45 - 5.1 48 - 6.4 49 - 7.560 43 - 3.5 44 - 4.5 46 - 5.4 49 - 6.7 49 - 7.8 65 43 - 3.7 44 - 4.7 46 - 5.7 49 - 7.0 50 - 8.170 44 - 3.9 45 - 4.8 47 - 5.9 50 - 7.2 51 - 8.4 Dual Nozzle Radius - GPM

PSI	1/8"x3/32" nozzles	9/64"x3/32" nozzles	5/32"x3/32" nozzles	11/64"x3/32" nozzles	3/16"x3/32" nozzles
35	40 - 4.1	41 - 4.8	44 - 4.7	45 - 6.4	46 - 7.4
40	41 - 4.4	42 - 5.2	44 - 6.1	45 - 7.0	47 - 8.0
45	41 - 4.6	42 - 5.5	45 - 6.5	46 - 7.5	48 - 8.6
50	42 - 4.9	43 - 5.8	45 - 6.8	47 - 7.9	49 - 9.1
55	42 - 5.2	43 - 6.1	46 - 7.1	48 - 8.3	50 - 9.5
60	43 - 5.4	44 - 6.3	46 - 7.4	48 - 8.7	51 - 9.8
65	43 - 5.7	44 - 6.6	47 - 7.8	48 - 9.0	51 - 10.3
70	43 - 5.9	45 - 6.9	47 - 8.1	49 - 9.4	52 - 10.6

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### 3/4" BRASS/ALUMINUM IMPACT SPRINKLER

# Precision Channel<sup>™</sup> Aluminum Arm Torque Driven<sup>™</sup>



HF30AL

#### **Features**

- Full-circle impact 26° trajectory
- 3/4" male NPT base
- Single nozzle
- Fits 3/4" size nozzle (NOZ75 series)

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Anodized die-cast aluminum drive arm with *Precision*Channel Spoon™ for smooth Torque-Driven™ operation and reduced splash-down
- Cast brass body with triple bridge construction and cored water passage
- Spindle with debris journal to slow bearing wear
- Seal-Lock bearing creates a captive seal
- Stainless-steel fulcrum pin, arm spring, and bearing spring for long wearing reliability
- Suitable for portable, solid-set and row-crop, frost protection and mechanical move systems
- Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

60/case

HF30AL (single)

#### AQUA BURST® Performance Chart

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Radius - GPM

PSI	1/8" nozzle	9/64" nozzle	5/32" nozzle	11/64" nozzle	3/16" nozzle
30	39 - 2.2	41 - 3.0	42 - 3.8	44 - 4.6	45 - 5.5
35	40 - 2.4	41 - 3.3	43 - 4.1	45 - 5.1	45 - 5.9
40	40 - 2.6	42 - 3.5	44 - 4.5	46 - 5.3	46 - 6.4
45	41- 2.9	42 - 3.7	44 - 4.7	46 - 5.7	47 - 6.7
50	41 - 3.1	43 - 4.0	45 - 4.9	47 - 6.1	48 - 7.2
55	42 - 3.3	43 - 4.3	45 - 5.1	48 - 6.4	49 - 7.5
60	42 - 3.5	44 - 4.5	46 - 5.4	49 - 6.7	49 - 7.8
65	43 - 3.7	44 - 4.7	46 - 5.7	49 - 7.0	50 - 8.1
70	44 - 3.9	45 - 4.8	47 - 5.9	50 - 7.2	51 - 8.4

#### Operate ONLY between 30 psi (min) and 70 psi (max)

# AQUA BURST 📡

Raven-Smart™

2025 / 2026

### MULTI-COMPOSITE 1/2" BASE ADJUSTABLE IMPACT SPRINKLERS

#### 1/2" Heavy-Duty Adjustable

Multi-Composite<sup>™</sup> Impact



#### **Standard Spoon Arm**

- Full or part-circle, impact sprinkler
- 23° trajectory
- 1/2" male NPT base
- Wide range of brass nozzles
- 9/64" nozzle installed
- 3/8-24 UNF nozzle threads
- Anodized aluminum drive arm with brass bushings
- Composite body is super-strong and impact resistant
- All-brass bearing
- Stainless-steel fulcrum pin, arm spring, and bearing spring
- Operates well at both high and low pressures
- Easily adjustable from 20° to 340° or full-circle
- Built-in vane straightener for improved performance
- Adjustable diffuser pin
- Made with domestic and foreign parts

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 2.5' Above Nozzle at Normal Pressure

Radius - GPM

PSI	1/8" nozzle	9/64" nozzle	5/32" nozzle				
35	36 - 2.46	36 - 3.41	39 - 4.30				
40	37 - 2.68	37 - 3.69	40 - 4.58				
45	38 - 2.71	37 - 3.97	43 - 4.89				
50	39 - 2.96	39 - 4.09	45 - 5.16				
55	39 - 3.18	40 - 4.17	46 - 5.31				
60	39 - 3.29	41 - 4.25	47 - 5.60				

#### 1/2" Heavy-Duty Adjustable

Multi-Composite<sup>™</sup> Impact



#### Anti-Backsplash Arm

- Full or part-circle, impact sprinkler
- 23° trajectory
- 1/2" male NPT base
- Wide range of brass nozzles
- 9/64" nozzle installed
- 3/8-24 UNF nozzle threads
- Anodized aluminum drive arm with brass bushings
- Composite body is super-strong and impact resistant
- All-brass bearing
- Stainless-steel fulcrum pin, arm spring, and bearing spring
- Operates well at both high and low pressures
- Easily adjustable from 20° to 340° or full-circle
- Built-in vane straightener for improved performance
- Adjustable diffuser pin
- Made with domestic and foreign parts

# AQUA BURST® Performance Chart Normal Stream Height At 2.5' Above Nozzle at Normal Pressure

Radius - GPM

PSI	1/8" nozzle	9/64" nozzle	5/32" nozzle
35	36 - 2.46	36 - 3.41	39 - 4.30
40	37 - 2.68	37 - 3.69	40 - 4.58
45	38 - 2.71	37 - 3.97	43 - 4.89
50	39 - 2.96	39 - 4.09	45 - 5.16
55	39 - 3.18	40 - 4.17	46 - 5.31
60	39 - 3.29	41 - 4.25	47 - 5.60

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#### 3/4" BRASS IMPACT SPRINKLERS

#### 3/4" Adjustable Brass Impact Sprinkler



X35ED

#### **Features**

- Full or part-circle impact 25° trajectory
- 3/4" male NPT base
- Single nozzle
- Fits 3/4" size nozzle (NOZ75 series)

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Cast brass drive arm with triple bridge construction
- Heavy-Duty all-brass trip assembly
- Cast brass body with cored water passage
- Stainless-steel fulcrum pin, arm spring and bearing spring for long-wearing reliability
- An all-purpose, single nozzle, full or part circle, intermediate to high pressure sprinkler
- Perfect companion for all intermediate sprinklers where arc of coverage must be adjustable
- Easy-to-use diffuser pin for precise application
- Works well with either straight bore or flow control nozzle
- · Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

20/case

X35ED

#### AQUA BURST® Performance Chart

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Radius - GPM

PSI	9/64" nozzle	5/32" nozzle	11/64" nozzle	3/16" nozzle
35	41 - 3.45	42 - 4.28	43 - 4.99	44 - 5.91
40	42 - 3.66	42 - 4.57	43 - 5.26	44 - 6.44
45	43 - 3.90	43 - 4.84	44 - 5.58	45 - 6.74
50	44 - 4.07	44 - 5.21	45 - 5.94	46 - 7.03
55	45 - 4.30	46 - 5.40	47 - 6.21	47 - 7.41
60	45 - 4.48	46 - 5.73	47 - 6.50	48 - 7.72
70	46 - 4.80	47 - 5.91	48 - 7.00	50 - 8.23

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#### 1" BRASS IMPACT SPRINKLERS

### 1" Adjustable Brass Impact Sprinkler



X65ED-S

#### **Features**

- Full or part-circle impact 24° trajectory
- 1" male NPT base
- Single nozzle
- Fits 1" size nozzle (NOZ1 series)

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

- Features replaceable stainless steel spoon
- Chrome bearing standard
- Adjustable arc from 20° to 340° or full-circle coverage
- Solid brass construction
- Stainless-steel fulcrum pin, arm spring, and bearing spring for long-wearing reliability
- Easy-to-use diffuser pin for precise application
- Ideal for pasture, turf, wastewater treatment, auxiliary pivot end gun, and other large-scale applications where adjustable coverage is necessary
- Made with domestic and foreign parts
- Preassembled with XC-33 thread sealant

sold individually

X65ED-S (Adjustable) X65F-S

AQUA BURST® Performance Chart
Normal Stream Height At 9' Above Nozzle at Normal Pressure

Single Nozzle Radius - GPM

PSI	7/32" nozzle	1/4" nozzle	9/32" nozzle	5/16" nozzle	11/32" nozzle	3/8" nozzle	13/32" nozzle
35	52 - 8.1	54 - 10.8	58 - 13.5	59 - 16.5	62 - 19.5	64 - 22.7	67 - 26.2
40	54 - 8.7	56 - 11.5	61 - 14.5	62 - 17.8	65 - 21.3	68 - 24.5	70 - 28.2
45	56 - 9.2	58 - 12.2	63 - 15.2	64 - 18.8	67 - 22.2	71 - 25.9	73 - 30.1
50	59 - 9.9	61 - 12.9	64 - 16.0	67 - 19.9	69 - 23.4	72 - 27.2	75 - 32.0
55	61 - 10.2	63 - 13.4	66 - 16.9	69 - 20.8	72 - 24.5	74 - 28.4	77 - 34.1
60	62 - 10.7	65 - 14.2	67 - 17.6	71 - 21.9	73 - 25.6	76 - 29.5	79 - 36.0
65	64 - 11.2	66 - 14.8	69 - 18.4	73 - 22.8	75 - 26.5	79 - 30.8	82 - 38.2
70	65 - 11.8	67 - 15.4	70 - 19.2	74 - 23.7	77 - 27.7	81 - 32.1	85 - 40.3

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#### 1 1/4" BRASS IMPACT SPRINKLERS



#### **Features**

- Full or part-circle impact
- 18° or 24° trajectory
- ◆ 1 1/4" male NPT base
- Dual nozzle NOZ125 Series

Sprinkler Head Does Not Include Nozzle

#### **Advantages**

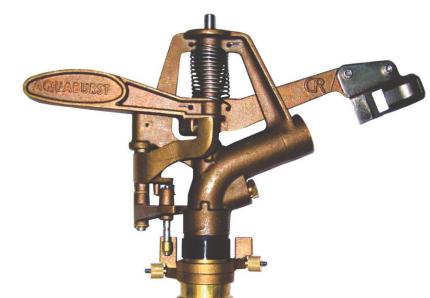
- Chrome bearing standard
- Heavy-duty stainless-steel and brass construction
- Easy to use adjustable locking brass trip collars
- Internal vane straightener standard
- Removable stainless-steel spoons standard
- Ideal for pasture, waste water treatment, pivot end gun, and other large scale applications where adjustable coverage is necessary
- Made with domestic and foreign parts
- · Preassembled with XC-33 thread sealant

sold individually

X85ED18

X85ED24

X85F24 (full circle)



X85ED24

#### X85ED24 Dual Nozzle

#### **AQUA BURST® Performance Chart**

Normal Stream Height At 14' Above Nozzle at Normal Pressure Single Straight Bore Nozzle w/Spreader Radius - GPM

PSI	11/32" x 7/32"	3/8" x 7/32"	13/32" x 7/32"	7/16" x 7/32"	15/32" x 7/32"
35	66 - 20.1	67 - 30.7	70 - 34.6	72 - 38.5	75 - 42.5
40	68 - 20.8	69 - 32.0	73 - 37.0	76 - 41.3	78 - 45.7
45	70 - 22.1	72 - 34.9	76 - 39.4	78 - 43.9	81 - 48.6
50	72 - 23.3	73 - 37.2	78 - 41.6	80 - 46.2	83 - 51.4
55	74 - 24.2	76 - 38.5	80 - 42.8	82 - 48.6	85 - 54.1
60	76 - 25.0	78 - 40.8	82 - 46.1	85 - 51.0	87 - 56.6
65	77 - 26.2	80 - 42.7	84 - 48.0	87 - 53.3	88 - 59.3
70	80 - 27.2	82 - 44.5	85 - 49.9	89 - 55.2	90 - 61.5
75	81 - 27.9	84 - 46.0	87 - 51.7	90 - 57.3	92 - 63.7
80	83 - 29.1	85 - 47.8	88 - 53.9	91 - 59.4	94 - 66.1

Additional Performance Charts on pg 26

# AQUA BURST

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### 1 1/4" BRASS IMPACT SPRINKLERS

#### **AQUA BURST® Performance Charts**

Normal Stream Height At 14' Above Nozzle at Normal Pressure Single Straight Bore Nozzle

Radius - GPM

### X85ED18

PSI	11/32" nozzle	3/8" nozzle	13/32" nozzle	7/16" nozzle	15/32" nozzle	1/2" nozzle	17/32" nozzle	9/16" nozzle	5/8" nozzle	11/16" nozzle
35	59 - 19.8	61 - 23.5	64 - 26.5	66 - 30.9	69 - 34.1	69 - 39.3	72 - 43.3	72 - 49.3	72 - 59.8	73 - 72.2
40	61 - 21.1	63 - 24.9	66 - 28.3	69 - 33.2	71 - 37.3	73 - 41.1	75 - 46.4	77 - 52.8	77 - 64.0	78 - 77.8
45	63 - 22.6	66 - 26.6	69 - 30.4	71 - 34.6	73 - 39.7	75 - 43.7	78 - 49.3	79 - 56.6	83 - 69.9	83 - 83.0
50	66 - 23.8	68 - 27.5	71 - 32.6	73 - 36.9	76 - 42.2	78 - 47.0	80 - 51.5	82 - 59.7	85 - 71.8	86 - 87.3
55	68 - 24.9	70 - 29.3	73 - 33.8	75 - 38.8	78 - 44.4	80 - 49.1	82 - 54.1	85 - 62.6	89 - 76.1	91 - 91.9
60	70 - 25.6	72 - 30.1	75 - 34.9	77 - 41.0	80 - 46.8	82 - 51.9	85 - 57.4	87 - 65.3	91 - 79.0	94 - 96.4
65	72 - 26.7	74 - 31.3	77 - 36.2	79 - 42.8	81 - 48.3	84 - 54.0	87 - 60.2	89 - 67.8	93 - 83.2	96 - 100.9
70	73 - 27.6	76 - 32.5	78 - 37.6	81 - 44.6	83 - 50.5	86 - 56.2	89 - 62.3	91 - 71.3	95 - 86.4	98 - 104.8
75	74 - 28.8	77 - 33.6	80 - 38.9	83 - 45.9	85 - 52.2	87 - 58.4	90 - 64.5	93 - 73.9	97 - 88.8	100 - 108.1
80	76 - 29.7	79 - 34.6	81 - 41.2	84 - 47.6	87 - 54.8	89 - 60.2	92 - 66.9	95 - 76.8	98 - 93.0	101 - 112.2

#### **AQUA BURST® Performance Charts**

Normal Stream Height At 14' Above Nozzle at Normal Pressure
Single Straight Bore Nozzle

Radius - GPM

# X85ED24

PSI	11/32" nozzle	3/8" nozzle	13/32" nozzle	7/16" nozzle	15/32" nozzle	1/2" nozzle	17/32" nozzle	9/16" nozzle	5/8" nozzle	11/16" nozzle
35	66 - 19.5	67 - 23.3	70 - 26.6	72 - 30.7	75 - 34.5	77 - 39.0	78 - 43.1	78 - 49.3	78 - 60.2	78 - 72.3
40	68 - 20.8	69 - 24.8	73 - 28.2	76 - 33.0	78 - 37.4	81 - 41.4	82 - 46.3	84 - 52.6	85 - 64.4	86 - 78.3
45	70 - 22.1	72 - 26.4	76 - 30.6	78 - 34.8	81 - 39.6	83 - 44.1	86 - 49.0	88 - 56.0	91 - 69.1	92 - 83.3
50	72 - 23.3	73 - 27.6	78 - 31.5	80 - 37.2	83 - 42.0	86 - 47.2	88 - 51.2	91 - 59.3	93 - 72.4	96 - 87.5
55	74 - 24.2	76 - 29.2	80 - 33.1	82 - 38.9	85 - 44.3	88 - 49.4	90 - 54.3	94 - 62.1	97 - 76.5	98 - 92.7
60	76 - 25.0	78 - 30.0	82 - 34.5	85 - 40.8	87 - 46.5	90 - 52.1	93 - 57.6	95 - 64.4	100 - 79.4	101 - 96.8
65	77 - 26.2	80 - 31.2	84 - 36.1	87 - 42.6	88 - 48.4	92 - 54.2	94 - 60.3	98 - 68.0	101 - 83.5	104 - 101.3
70	80 - 27.2	82 - 32.6	85 - 38.0	89 - 44.0	90 - 50.3	94 - 56.4	96 - 62.1	100 - 71.5	102 - 87.1	106 - 105.4
75	81 - 27.9	84 - 33.5	87 - 39.1	90 - 45.5	92 - 52.0	95 - 58.5	98 - 64.7	101 - 73.3	104 - 89.9	108 - 108.8
80	83 - 29.1	85 - 34.8	88 - 41.0	91 - 47.6	94 - 54.2	96 - 60.3	100 - 67.3	103 - 76.2	106 - 93.5	109 - 112.4

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#### SUPER-DUTY SPRINKLER CARTS

# **AQUA BURST**

### **Garden Sprinkler Cart**





X-CART.5 XCART.5

X-CART.5 Garden Cart with X25ED-S 1/2" sprinkler

XCART-.5 Garden Cart for 1/2" sprinkler, 3/4" stainless steel riser

Available with or without X25ED-S sprinkler

#### **Features**

- 3/4" has stainless steel riser
- High-strength design for years of reliable service
- Solid construction tires. Never worry about flat tires!
- UHMW Wheel Bushings for smooth operation
- Ideal for Fire Suppression, Home and Ranch

# **AQUA BURST**

#### **Super-Duty Sprinkler Carts**

- Assembles easily in just minutes
- Features stainless steel riser with solid construction tires

Two-year Warranty

# AQUA BURST



### SUPER-DUTY SPRINKLER CARTS

# AQUA BURST To X-CART

# **Super-Duty Sprinkler Carts**

XCART-1 Ranchette Cart for 3/4"-1" sprinkler, 1" frame, 4.1x3.5x4 tires

XCART-1.5 Ranchers Cart for 1" to 1 1/4" sprinkler, 1 1/2" frame, 13x3.25"x8 tires

XCART-2 Field Gun Cart for 1 1/4" to 2" end gun, 2" frame, 16" tires



1-XCS-TIRE 1.5-XCS-TIRE 2-XCS-TIRE 4.10/3.50-4 PU Wheel, Black, 74MM Hub Length, 16MM Center Hub Hole 13X3.25-8 PU Wheel, Black, 90MM Hub Length, 16MM Bushing 16X6.5-8 PU Wheel, Black, 104MM Hub Length, 20MM Nylon Bushing

#### **Features**

- 100% Hot-Dip Galvanized, Inside and Out
- High-strength double truss design for years of reliable service
- Solid construction tires. Never worry about flat tires!
- UHMW Wheel Bushings for smooth operation
- Ideal for Fire Suppression, Home and Ranch
- To prevent carts from tipping over:
   Do Not Extend Sprinkler Height with Larger Nozzle Sizes

# **AQUA BURST**

#### **Super-Duty Sprinkler Carts**

- Assembles easily in just minutes
- Features hot-dip galvanized high-strength double truss design with solid construction tires and UHMW wheel bushings

100% Hot-Dip Galvanized, Inside and Out

Two-year Warranty

# AQUA BURST

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### SPRINKLER NOZZLES

### Brass 1/8" 3/8-24 UNF Straight-Bore Nozzle

Fits 1/2" Impact Sprinkler

Second Nozzle on 3/4" Dual Impact Sprinkler Fits Rain Bird™ and Nelson™



NOZ5R-116	1/16"
NOZ5R-564	5/64"
NOZ5R-332	3/32"
NOZ5R-18	1/8"
NOZ5R-532	5/32"
NOZ5R-764	7/64"
NOZ5R-964	9/64"

### **Brass 1/8" NPT Straight-Bore Nozzle**

Fits 1/2" Impact Sprinkler

Second Nozzle on 3/4" Dual Impact Sprinkler 1/8" NPT thread fits Weathertec™ and Storm™



NOZ5W-116	1/16"
NOZ5W-564	5/64"
NOZ5W-18	1/8"
NOZ5W-532	5/32"
NOZ5W-964	9/64"

#### Brass 1/4" NPT Straight-Bore Nozzle

Fits 3/4" Impact Sprinkler

1/4" NPT thread fits most 3/4" base brass impact sprinklers



NOZ75-764	7/64"
NOZ75-18	1/8"
NOZ75-964	9/64"
NOZ75-532	5/32"
NOZ75-1164	11/64"
NOZ75-1364	13/64"
NOZ75-1564	15/64"
NOZ75-316	3/16"
NOZ75-732	7/32"
NOZ75-14	1/4"

### **Brass Straight-Bore Nozzle**

Fits 1" Impact Sprinkler

Fits most 1" base brass impact sprinklers



NOZ1-732	7/32"
NOZ1-1564	15/64"
NOZ1-14	1/4"
NOZ1-932	9/32"
NOZ1-516	5/16"
NOZ1-1132	11/32"
NOZ1-38	3/8"

#### **Brass Straight-Bore Nozzle**

Fits 1 1/4" Impact Sprinkler

Fits AquaBurst®, Nelson™ and RainBird™



NOZ125-1132	11/32"	NOZ125-12	1/2"
NOZ125-38	3/8"	NOZ125-1732	17/32"
NOZ125-1332	13/32"	NOZ125-916	9/16"
NOZ125-716	7/16"	NOZ125-58	5/8"
NOZ125-1532	15/32"	NOZ125-1116	11/16"

### **Plug Nozzle**





NOZ-PLG18	Brass 1/8" NPT
NOZ-PLG25	Brass 1/4" NPT
NOZ-PLPLG18	Plastic 1/8" NPT

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# **END GUN NOZZLES**

#### X100 Nozzle

Also fits Nelson<sup>™</sup> SR75 Big Gun<sup>®</sup>



X100-42-.5

X100-424	26 - 45 gpm
X100-4245	35 - 46 gpm
X100-425	42 - 67 gpm
X100-4255	52 - 83 gpm
X100-426	61 - 99 gpm
X100-4265	71 - 115 gpm
X100-427	84 - 133 gpm
X100-4275	95 - 150 gpm
X100-428	108 - 172 gpm
X100-4285	123 - 191 gpm
X100-429	139 - 217 gpm
X100-4295	154 - 242 gpm
X100-42-1	180 - 265 gpm

#### **X75 Nozzle Set**

8 Piece Nozzle Set for X75



X75-NOZSET



X75NOZ

X75NOZ3	0.3 Nozzle
X75NOZ35	0.35 Nozzle
X75NOZ4	0.4 Nozzle
X75NOZ45	0.45 Nozzle
X75NOZ5	0.5 Nozzle
X75NOZ55	0.55 Nozzle
X75NOZ6	0.6 Nozzle
X75NOZ65	0.65 Nozzle

X75-NOZSET

#### **SR 100 Nozzles**

Fits Nelson<sup>™</sup> SR100 Big Gun<sup>®</sup>



SR-100

SR100NOZ5	0.5
SR100NOZ55	0.55
SR100NOZ6	0.6
SR100NOZ65	0.65
SR100NOZ7	0.7
SR100NOZ75	0.75
SR100NOZ8	0.8
SR100NOZ85	0.85
SR100NOZ9	0.9
SR100NOZ95	0.95
SR100NOZ-1	1.0

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#### SPRINKLER TOOLS AND REPLACEMENT PARTS

#### **Sprinkler Bearing Assembly**

Bearing assembly includes spindle, housing, spring and washers



HF30BRNG





HF20BRNG

AL30BRNG

For wear washers and other AquaBurst sprinkler parts contact XCAD USA for price and availability

AL30BRNG Fits Aqua Burst® 3/4" AL30 Series

Impact Sprinklers

HF30BRNG Fits Aqua Burst®, Nelson™ and Rain Bird™

3/4" Full-Circle Impact Sprinklers

HF20BRNG Fits Aqua Burst®, Nelson™ and Rain Bird™

1/2" Full-Circle Impact Sprinklers

X35BRNG Fits Aqua Burst® X35ED Impact Sprinklers

X65BRNG (Chrome Plated Spindle) Fits Aqua Burst® and Rain Bird™ 1" Full-Circle Impact Sprinklers

X85BRNG

(Chrome Plated Spindle)

Fits Aqua Burst® and Rain Bird™ 1 1/4" Full-Circle Impact Sprinklers

#### **Pitot Tube**



PITOT25

PITOT25

Brass 1/4" pitot tube

Standard



# AQUA BURST >> Water Master Hydro Bearing

Replacement Bearing for Water Master







HYB1 HYB1-C

HYB1

1" NPT Base - Brass

HYB1-C

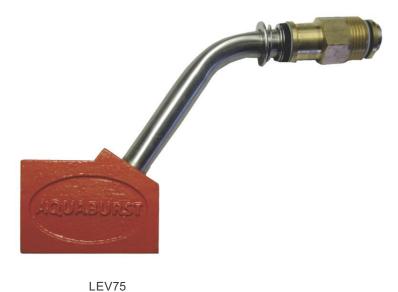
1" NPT Base - Chrome Plate

# AQUA BURST

2025 / 2026

#### SELF LEVELING ELBOW

# Built To A Higher Standard



# **AQUA BURST**

# 3/4" Heavy-Duty Wheel Line Leveler

LEV75 For 3/4" Brass Impact 16/Box

#### **Features**

- High-quality bearing washers
- Stainless-steel drop tube
- Cast iron weight with smooth water passage
- Powder coated finish

**LEVRK** 

#### **Universal Leveler Repair Components**

#### List LEV01 Stainless-Steel Bearing Spring \$ 1.00\* LEV02 \$ 0.35\* Neoprene Washer LEV03 Teflon Washer \$ 0.35\* LEV04 Brass Spindle \$8.00\* LEV05 O-Ring \$ 0.25\* \$ 0.60\* LEV06 Retaining Washer \$ 1.00\* LEV07 Snap Ring

#### Leveler Rebuild Kit

Rebuilds 20 levelers

120 piece kit contains:	
20 - Lev02	Neoprene Washers
40 - Lev03	Teflon Washers
20 - Lev05	O-rings
20 - Lev06	Retaining Washers
20 - Lev07	Snap Rings

# AQUA BURST 🔊

1-208-438-9223 Email: xcad@pmt.org xcadusa.com

2025 / 2026

### SPRINKLER ACCESSORIES

### AQUA BURST° YARD ART



SQUIRTLE.75

### **Squirtle Yard Sprinkler**

Can be strung in series

SQUIRTLE.75

3/4" Hose Thread



ST50B



ST75H

### **Sprinkler Stand**

 ST50B
 1/2" Butterfly

 ST50H
 1/2" Heart

 ST75B
 3/4" Butterfly

 ST75H
 3/4" Heart

### **Key-Lock Coupler and Key**



KLC1-C



KLC1-K



KLC75-C



KLC75-K

KLC75-C 3/4" NPT Threads
KLC75-K 3/4" NPT Threads
KLC1-C 1" NPT Threads
KLC1-K 1" NPT Threads

### TUFF-TEE™ AND ACCESSORIES

# Tuff-Tee<sup>™</sup>

#### **Universal PVC Key Lock Coupler Patented**

#### **Features**

- Can be used with Impact Sprinkler with male aluminum adapter
- Can be used with both PVC and aluminum risers
- Leak-proof o-ring operation
- Male and female riser attachments
- Easy-Pull™ spline key
- Made with corrosion resistant PVC
- Can be converted and used in connection with aluminum solid set pipe
- For pipe and fitting contact JM Eagle\*\*

TUFF-TEE3

Tuff-Tee™ Universal Locking Couplers are only available in Idaho and Washington states through XCAD distributors: WISH or BA Fischer.

See JM Eagle for pipe and fittings in all states.\*\*

3" PVC Tuff-Tee for Solid Set TUFF-TEE3

#### Tuff-Tee<sup>™</sup> Accessories

TT-PULLKEY Easy-Pull Key

3" Tuff Tee O-Ring (Green) TT-ORING

Riser Adapter O-Ring (Blue) TT-RADOR

TT-AAOR Acme Adapter O-Ring (Orange)

Easy-Pull™ TT-PULLKEY





TT-ORING

TT-RADOR

Contact JM Eagle for pipe and fittings: JM Eagle 5200 W Century Blvd Los Angeles, CA 90045 (310) 693-8200





#### TUFF-TEE™ ACCESSORIES



TT-ALPLUG



TT-NPTRAD

Male Aluminum Adapter



TT-SWFA



TT-SWMA



TT-MPEND



TT-MWEND

TT-ALPLUG T-T Aluminum End Plug

TT-NPTRAD T-T Male Aluminum Riser Adapter

T-T 3" Female Adapter Solvent Weld TT-SWFA

TT-SWMA T-T 3" Male Adapter

Solvent Weld

TT-MPEND Aluminum Male Press-On End

TT-MWEND Aluminum Male Weld-On End

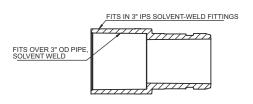
TT-AASW 3/4" Acme Adapter Solvent Weld

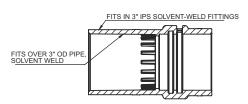
TT-AANPT 3/4" Acme Adapter FNPT

TT-SWRAD T-T PVC Riser Adapter

Solvent Weld

TT-PVCRAD T-T PVC Riser Adapter FNPT













TT-AASW







TT-SWRAD

TT-AANPT







TT-PVCRAD



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#### **PIVOT ACCESSORIES**

#### **BLACK MAX**

Torque-Tough™

# **BX** COUPLER

Raven Smart<sup>™</sup>
Technology of Modern Design

Universal Heavy-Duty Drive Line Coupler With In-Flex Technology



PDLTTBM (12 per box)

Black Max<sup>™</sup> driveline couplers are torque-tough for today's extreme field conditions.

Try one today and give it your own torque-tough test.

#### **Features**

- Our die-cast anodized aluminum body coupled with an In-Flex<sup>™</sup> Disc adds the strength and flexibility that is ideal for today's mechanized irrigation systems with large tires, 4x4 corner machines and corner-steering gear boxes
- In-Flex Thermoplastic Disc is 30% more flexible than the competitive brands
- In-Flex<sup>™</sup> technology keeps gear boxes and centerdrives running longer
- Pre-Assembled for easy one-size wrench installation
- Universal Design Fits 3/4", 7/8" and 1" square shafts
- Fits under most driveline covers for maximum safety

**PDLTTBM** 

Fits 3/4", 7/8" and 1" square shaft

PDLTTBM-SL

Replacement Shaft Lock

PDLDISC-BM

Replacement In-Flex Disc

#### **PDLCVR**

Driveline Coupler Cover



**PDLCVR** 



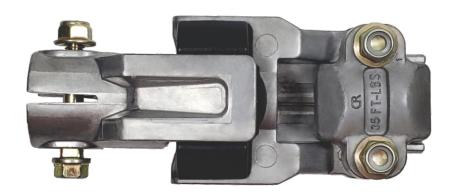
#### **PIVOT ACCESSORIES**

# SC3 COUPLER

**Torque-Tough**™

**Universal Pivot Drive Line Coupler** Patent Pending

Raven-Smart<sup>™</sup> **Technology** 



PDLSC3 (14 per box)

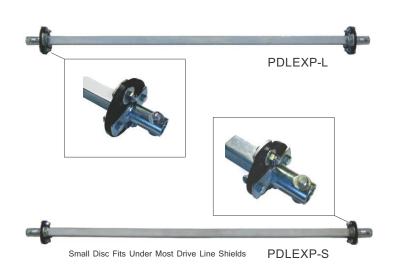
PDLSC3

Universal Pivot Drive Line Coupler

- EZ Installation Fits all brands of center pivots and laterals with 1" round and 3/4" and 7/8" square shafts
  - Shock reducing, UV-protected, thermoplastic polyurethane drive puck
    - Comes preassembled with high strength, square shaft saddle
  - EZ Installation with one wrench tightening 3 bolts for complete assembly
  - High-quality degassed diecast aluminum design that fits under most drive line safety covers



#### **PIVOT ACCESSORIES**











PDLEND-L PDLEND-S

#### X-Spandable<sup>™</sup> Expandable Drive Line

(With Super Flex Disc)

Leave the Rubber on the Road

PDLEXP-L Universal w/Large (4 1/2") Disc

PDLEXP-S Universal w/Small (3 5/8") Disc

PDLEND-L Replacement Shaft End (Large disc)

PDLEND-S Replacement Shaft End (Small disc)

#### **Features**

- X-Spandable<sup>™</sup> drive line systems with Super Flex disc
- Strongest and most versatile in the industry
- Heavy-duty telescoping design
- Super Flex Discs outperform rubber
- Quickly attaches with just two bolts
- Replacement Super Flex Discs available for competitive brands
- Small disc fits under most pivot manufacturers' driveline covers
- Zinc-plated finish

#### **Replacement Super Flex Disc**







PDLDISC-S

PDLDISC-L Large Replacement Super Flex Disc (4 1/2")

PDLDISC-S Small Replacement Super Flex Disc (3 5/8")



**PDLVBLT** 

#### **Heavy-Duty V-Bolt Universal U-Joint**

Quickly Attaches to Both 3/4" and 7/8" Shafts (With Super Flex Disc)

**PDLVBLT** 

Universal 7/8" or 3/4"



#### Weld-In Pivot Rim Repair Ring

3/8" ID Thickness, 5/16" OD Thickness, 1" Step

PVTRNG

Universal Style



#### PIVOT ACCESSORIES

# Highest Specifications In The Industry

Standard Stainless-Steel Impeller



BP2HP-X

# 2-HP Pivot Booster Pump 2 ½" suction x 2" discharge

BP2HP-X XCAD Motor 2-HP, 130 GPM

w/Stainless Impeller

BP2HP-X-FL XCAD Motor 2-HP, 130 GPM Flanged Volute, w/Stainless Impeller

XCAD Motor 2-HP. 130 GPM **BP2HPXWOVC** 

w/Stainless Impeller, Less Volute Case

# 5-HP Pivot Booster Pump 2 1/2" suction x 2" discharge

BP5HP-W WEG Motor 5-HP, 6 GPM **BP5HPWWOVC** WEG Motor 5-HP, 6 GPM Impeller, Less Volute Case

#### **Pivot Booster Pump Components**



BP5HP-W

**BPVC** Volute Case **BPMBKT** Motor Bracket

**BPIMP-SS** Stainless-Steel Impeller **BPMGSKT-P** Polyethelene Motor Gasket **BPCGSKT** Paper Motor Case Gasket

**BPIMPSPC-X** Impeller Spacer

BPIMPSPC3 Impeller Spacer (Bluffton)

**BPSEAL** Shaft Seal BP5VC Volute Case **BP5MBKT** Motor Bracket **BP5IMP** Impeller **BP5GSKT** Motor Gasket **BP5STUD** Stud **BP5SEAL** Shaft Seal

**BPJNUT** Left Hand Jam Nut

#### Assembled in the USA

2HP Parts Interchangable With Berkley Model #C2MPS Booster Pumps

All Pumps are 50-60hz

(See Pump Curve, Page 40)

Volts

Bearings

BPM2HP-X



BPM5HP-W

#### 2 hp Specifications

X Model X Frame #N56C20P36H30FA-C 56J Phase Insul. Class Serv. Factor **B**5 50/60 Hertz 2890/3450 **RPM** 

380/460

6203/6205

#### 5 hp Specifications

#00536ET3E184JM-W22 182/4JM WEG Model WEG Frame

Phase 3 Insul. Class Serv. Factor 1.25 Hertz 50/60 **RPM** 2850/3485 Volts 380/230 or 460 6307/6206 Bearings

#### **Irrigation Booster Pump Motors**

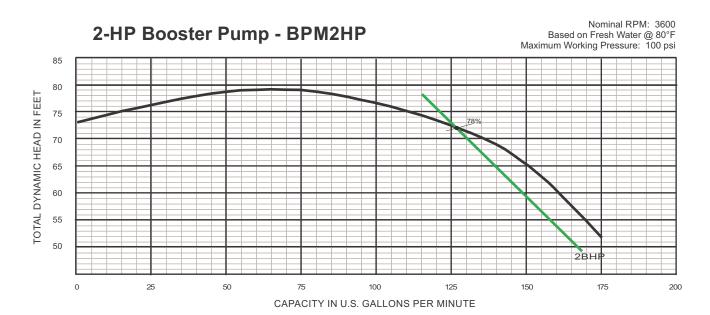
2-HP (TEFC) Thermally Protected

BPM2HP-X XCAD 2-HP, 3-phase BPM2HP-W WEG 2-HP, 3-phase BPM5HP-W WEG 5-HP, 3-phase

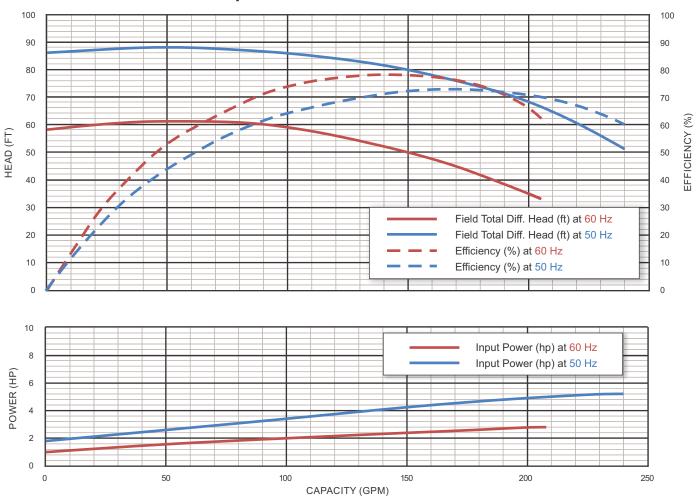


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#### **BOOSTER PUMP CURVES - PRESSURE LOSS DATA**



# 5-HP Booster Pump - BPM5HP





#### RISER VALVE PRODUCTS



VOE4X3-W

# **Aluminum Valve Opening Elbows**

VOE4X3-W 4" x 3" Aluminum VOE w/ Wheel

VOE4X4-W 4" x 4" Aluminum VOE w/ Wheel

VOE4X3X3-W 4" x 3" x 3" Aluminum VOE w/ Wheel

VOE4X4X4-W 4" x 4" x 4" Aluminum VOE w/ Wheel

> Handle Sold Separately VOEHDL58 - Pg. 45



VOE4X4-W



VOE4X4-W Back View



VOE4X4X4-W

- 3/4" Auxiliary outlet
- Large latch pad reduces blowouts
- Easy serviceability with bolt-on wheel
- Large wheel for easy opening & closing
- · Replaceable brass wear bushing
- Brass connection clutch
- 5/8" Stainless steel shafts
- 5/8" chevron tire
- Rubber grommet



#### RISER VALVE PRODUCTS



# **Steel Valve Opening Elbows**

VOEST4X3 4" x 3" Galvanized Steel VOE

VOEST4X4 4" x 4" Galvanized Steel VOE

VOEST4X3X3 4" x 3" x 3" Galvanized Steel VOE

VOEST4X4X4 4" x 4" x 4" Galvanized Steel VOE



VOEST4X3X3



VOEST4X4X4

- 3/4" Auxiliary outlet
- Large latch pad reduces blowouts
- Easy serviceability with bolt-on handle
- Replaceable brass wear bushing
- Brass connection clutch
- 5/8" Stainless steel shafts
- 5/8" chevron tire
- Rubber grommet



#### RISER VALVE PRODUCTS







#### VOEH4X4



VOEH4X3X3

# **High-Flow Valve Opening Elbows**

VOEH4X3 4" x 3" High Flow Aluminum VOE

VOEH4X3-W 4" x 3" High Flow Aluminum VOE w/ Wheel

VOEH4X4 4" x 4" High Flow Aluminum VOE

4" x 4" High Flow Aluminum VOE w/ Wheel VOEH4X4-W

VOEH4X3X3 4" x 3" x 3" High Flow Aluminum VOE

VOEH4X3X3-W 4" x 3" x 3" High Flow Aluminum VOE w/ Wheel

VOEH4X4X4 4" x 4" x 4" High Flow Aluminum VOE

VOEH4X4X4-W 4" x 4" x 4" High Flow Aluminum VOE w/ Wheel



VOEH4X4X4

- High Flow Design
- 3/4" Auxiliary outlet
- Large latch pad reduces blowouts
- Easy serviceability with bolt-on wheel
- Brass wear-bushing with packing gland tire
- Brass connection clutch
- 5/8" Stainless steel shafts
- Rubber grommet

**XCAD**TSA®

2025 / 2026

#### RISER VALVE PRODUCTS

# **Clamps**



4RLC 4" Ring Lock Clamp

WHLC 5" Wheel Line Clamp
Heavy Duty Western Style

6RLC 6" Ring Lock Clamp
Fits Wade Round Wheel Line Coupler and Most 6" Ring Lock Couplers

8RLC 8" Ring Lock Clamp

10RLC 10" Ring Lock Clamp
Not Pictured

12RLC 12" Ring Lock Clamp

Not Pictured



#### VALVE OPENING ELBOW REPLACEMENT PARTS









VOEHDLST34





Fit most brands

**VOE Replacement Components** High-quality universal replacement parts



VOERCLT34 3/4" Brass Connection Clutch

3/4" Steel Handle

VOERCLT58 5/8" Brass Connection Clutch

VOESEAL34 3/4" Chevron Seal

VOESEAL58 5/8" Chevron Seal

VOEHDL58 5/8" Aluminum Handle

VOEHDLST58 5/8" Steel Handle

VOESHFT58 5/8"x10" Zinc-Plated Shaft

VOESHFTSS58 5/8"x8" Stainless-Steel Shaft

VOECLT58 5/8" Brass Connection Clutch

VOECLTGR34 3/4" Receiver Gheen-style

VOECLTGR58 5/8" Receiver Gheen-style

VOECLTGS34 3/4" Stem Gheen-style

VOECLTGS58

5/8" Stem Gheen-style

VOEWHL34 3/4" VOE Wheel Handle

VOEWHL58 5/8" VOE Wheel Handle

**VOETTCLT** Weld-On Taco Style Clutch

VOETTCLT34 3/4" Stem w/ Taco Style Clutch

VOETTCLT58 5/8" Stem w/ Taco Style Clutch

# **VOETTCLT**



VOEHDL34





VOEHDLST34





VOEHDL58













VOEWHL58

VOECLTGR34 VOECLTGR58







VOERCLT58



VOERCLT34











VOECLTGS58







VOETTCLT58

#### RISER VALVE PRODUCTS

# **EZ-Latch**<sup>™</sup> Fittings



MHLHE3



FHLHE3



MHLHE4



FHLHE4

#### **Hook & Latch Hose Ends**

with Round-Back Gasket

FHLHE3 3" Female Hook & Latch Hose End

MHLHE3 3" Male Hook & Latch Hose End

FHLHE4 4" Female Hook & Latch Hose End

MHLHE4 4" Male Hook & Latch Hose End



SEA4-45

SEA4-90



SRA3-ENDT



SRA4-RUNT

#### **Hook & Latch Pipe Fittings**

with Round-Back Gasket

4" Steel 90° Elbow Assembly

SEA3-22	3" Steel 22° Elbow Assembly
SEA3-45	3" Steel 45° Elbow Assembly
SEA3-90	3" Steel 90° Elbow Assembly
SEA4-22	4" Steel 22° Elbow Assembly
SEA4-45	4" Steel 45° Elbow Assembly

SEA4-90

3" Steel End (Branch) Tee Receiver Assembly **SRA3-ENDT SRA3-RUNT** 3" Steel Run (Line) Tee Receiver Assembly

**SRA4-ENDT** 4" Steel End (Branch) Tee Receiver Assembly

SRA4-RUNT 4" Steel Run (Line) Tee Receiver Assembly



#### RISER VALVE PRODUCTS



# **EZ-Latch** Fittings

#### **Aluminum Hook & Latch Pipe Fittings**

with Square-Style Gasket

AEA3-90 3" Aluminum 90° Elbow Assembly

ARA3-ENDT 3" Aluminum End (Branch) Tee Receiver Assembly

ARA3-RUNT 3" Aluminum Run (Line) Tee Receiver Assembly

**BL3-ASSY** 



HLPE3



HLLP3



HLWO3

# 3" Hand Line Fittings

**BL3-ASSY** 3" Universal Band & Latch Assembly

3" Universal Hook & Latch Pad HLLP3

(Weld-On)

HLPE3 3" Universal Hook & Latch Female Press End

(Gasket Not Included)

HLWO3 3" Universal Hook & Latch Weld-On End

(Gasket Not Included)

#### **Gaskets**



RCG4



RCG3

3" Round Back Style

RCG4

4" Round Back Style

RWG3

3" XCAD Square Style

RWG4

4" XCAD Square Style



#### RISER VALVE PRODUCTS

ALVX43



ALVSC43



**ALVSBRSP** 



ALVSBRSP-R



ALVSBRSP-L



ALVSC44



ALVSBRSP-H

#### **Threaded Aluminum** Riser Valve Stubs

4" X 3" Stainless-Steel Stem

ALVX44 4" X 4" Stainless-Steel Stem

ALVSC43 4" x 3" Plated Stem

ALVSC44 4" x 4" Plated Stem

**ALVSBRSP** Replacement Brass Spider (Wade-Style)

ALVSBRSP-H Weld-in Replacement Spider-Heavy

ALVSBRSP-L Weld-in Replacement Spider-Standard

ALVSBRSP-R Weld-in Removable Spider

#### **Features**

- Heavy-duty cast aluminum body
- Cast-in-place, threaded brass insert
- Available with either plated zinc or stainless-steel stems
- Universal rubber cap

**UNVSPS** Plated











#### Riser Valve Stems SUPERIOR THREAD QUALITY

**HEAVY-DUTY PLATING** 

6 3/4" x 5/8" 7TPI Plated **UNVSPS** 

8" Plated Stem 7TPI **UNVSPS8** 

**UNVSPS9** 9" Plated Stem 7TPI

6 3/4" x 5/8" 7TPI Stainless **UNVSTS** 

8" Stainless Stem 7TPI **UNVSTS8** 

9" Stainless Stem 7TPI **UNVSTS9** 

5" x 5/8" 8 TPI Brass (Redi Rain) **UNVRRBS** 

**UNVPS8TPI** 6 3/4" X 5/8" 8 TPI Plated

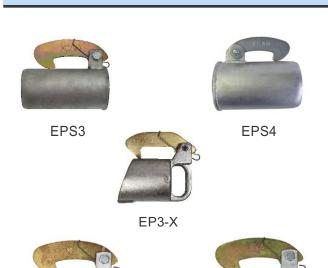
(Shur Rain/Felco)

#### **Rubber Valve Stem Caps**





#### RISER VALVE PRODUCTS



EP3OUT-75



**EP3OUT-1.5** 



EP3OUT-1

EP3OUT-2



HOOK3



HOOK-S

#### 3" Hand Line Fittings

EPS3 3" Universal Steel Hook & Latch End Plug

EPS4 4" Universal Steel Hook & Latch End Plug

EP3-X 3" Universal Aluminum Hook & Latch End Plug

**EP3OUT-.75** 3" End Plug with 3/4" NPT Outlet and Long Hook

EP3OUT-1 3" End Plug with 1" NPT Outlet and Long Hook

EP30UT-1.5 3" End Plug with 1 1/2" NPT Outlet and Long Hook

EP3OUT-2 3" Steel End Plug with 2" Outlet and Long Hook

HOOK3 Hook Only for 3" Lake Type B&L Assy

HKSPR3 Spring Only for 3" B&L Assy (Not shown)

HKBN3 Bolt and Nut Only for 3" B&L Assy (Not Shown)

**EPFER** Ferrule for EPS3 Steel End Plug (Not Shown)

HOOK-S Hook Only for Pierce Type H&L Assy

#### **Center Riser Outlet**



CRO3

3" Center Riser Outlet Assembly (12 per box) CRO3 Replacement Foot for CRO3 CRO3FT Replacement Gasket for CRO3 **CRO3GSKT** Replacement Top for CRO3 CRO3TOP

#### PRESS SLEEVES AND PRESS BANDS

# **EZ-Press**<sup>™</sup> Galvanized Long-Style Steel Press Sleeves







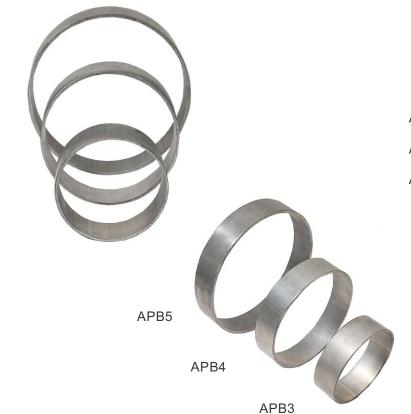
PRSL3 3" Press Sleeve
PRSL4 4" Press Sleeve
PRSL5 5" Press Sleeve

PRSL3

PRSL4

PRSL5

# **EZ-Press**<sup>™</sup> Aluminum Press Bands



APB3 3" Aluminum Press Band

APB4 4" Aluminum Press Band

APB5 5" Aluminum Press Band



#### WHEEL LINE COUPLERS

# Heat Treated Alveringer





RWTCB5

RWTC5





SWTCB5

SWTC5



SWC5





WSTCB5

WSTC5



Heat-Treated Aluminum Wheel Line Torque Couplers

RWTC4 4" Round Male
RWTCB4 4" Round Female
RWTC5 5" Round Male
RWTCB5 5" Round Female

SWTC4 4" Square Male
SWTCB4 4" Square Female
SWTC5 5" Square Male
SWTCB5 5" Square Female
SWC4 4" Square Clamp
SWC5 5" Square Clamp

WSTC4 4" Western Round Female
WSTCB4 4" Western Round Male
WSTC5 5" Western Round Female
WSTCB5 5" Western Round Male

Wheel Line Torque Couplers Do Not Include Gaskets or Drains

#### **Features**

- All XCAD USA® aluminum wheel line couplers are heat-treated for maximum strength
- RW and SW couplers are universal with Wade Rain<sup>™</sup> and Poweroll<sup>™</sup> couplers
- High performance casting and machining
- WS coupler are universal with Western and Gheen

#### **Telescoping Slide Band**

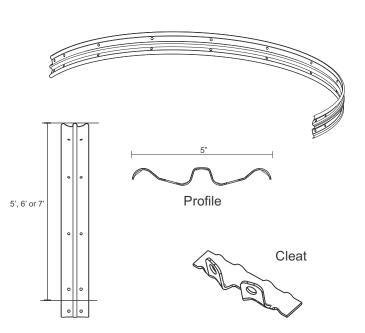
TSB3 Slide Band (over center clamp)



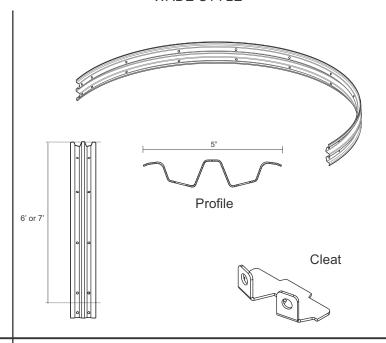
#### WHEEL LINE WHEELS

#### Rolled in the USA

#### WESTERN, AM, GHEEN STYLE



#### WADE STYLE



#### Wheel Half Rim

2 ea required per wheel

WLWR-WST58 WLWR-WST64 WLWR-WST76 58" (5') Western, AM, Gheen Style 64" (6') Western, AM, Gheen Style

76" (7') Western, AM, Gheen Style

#### WLWR-WD58 WLWR-WD64

WLWR-WD64 WLWR-WD76

#### Wheel Half Rim

2 ea required per wheel

58" (5') Wade Style 64" (6') Wade Style 76" (7') Wade Style

# Wheel Spoke

	Wheel Size	Hub Size	Spoke Length	Spokes per wheel
WLWS-26P	58"	5"	26 7/8"	16
WLWS-27P	58"	4"	27 1/4"	16
WLWS-30P	64"	4", 5"	30 1/2"	16
WLWS-37P	76"	4", 5"	37"	20

# Wheel Spoke

	Wheel Size	Hub Size	Spoke Length	Spokes per wheel
WLWS-26P	58"	5"	26 7/8"	16
WLWS-27P	58"	4"	27 1/4"	16
WLWS-30P	64"	4", 5"	30 1/2"	16
WLWS-37P	76"	4", 5"	37"	20

#### 1/2 Wheel Hub

4 per wheel

WLWH-WST-4 4" WLWH-WST-5 5"

#### 1/2 Wheel Hub

4 per wheel

WLWH-WD-4 4" WLWH-WD-5 5"

#### Cleat

WLC-WST Western, AM, Gheen Style

#### Cleat

WLC-WD Wade Style



# WHEEL LINE WHEELS

# Complete Wheel Line Wheel: Less Nuts and Bolts

Hardware Not Included

EXTRA Discount of 10% for complete wheel order over 300 pcs

# **Western Style**

		Quantities per Wheel			
		1/2 Rim	Spokes	Hubs	Cleats
WLW-WST-58-4	58" (5')	2	16	4	8
WLW-WST-64-4	64" (6')	2	16	4	8
WLW-WST-76-4	76" (7')	2	20	4	10
WLW-WST-58-5	58" (5')	2	16	4	8
WLW-WST-64-5	64" (6')	2	16	4	8
WLW-WST-76-5	76" (7')	2	20	4	10

# **Wade Style**

		Quantities per Wheel			
		1/2 Rim	Spokes	Hubs	Cleats
WLW-WD-58-4	58" (5')	2	16	4	8
WLW-WD-64-4	64" (6')	2	16	4	8
WLW-WD-76-4	76" (7')	2	20	4	10
WLW-WD-58-5	58" (5')	2	16	4	8
WLW-WD-64-5	64" (6')	2	16	4	8
WLW-WD-76-5	76" (7')	2	20	4	10

Wheel Does Not Come with Hardware



2025 / 2026

#### **AUTOMATIC DRAINS**

#### **Universal 3-piece Design** Eliminates Need for Jam Nut





# **Drain-Fast™ Flapper Drain**

High-Quality Zinc Construction

FDC78 Complete Flapper Drain FDI78 Threaded Insert FDR78 Rubber Flapper FDSN78 Splash Nut

# **Heavy-Duty Star Drain**







SDMC-1

SDRS-1

Star Drain™

High-Quality Zinc Construction (1" Male NPT)

Complete Metal Base Drain SDMBC-1 Metal Cap SDMC-1

SDRS-1 Neoprene Rubber Star Gasket

SDMB-1 Metal Base

#### Heavy-Duty - Built To Outperform and Outlast Poweroll™



WSSD

- Thicker body design with tapered seat
- Strongest, and smoothest-operating spring drain in the industry
- Heavy-duty design with tapered seat
- Designed to last longer and outperform other brands

#### **Spring Drain**<sup>™</sup>

High-Quality Zinc Construction

- WSSD 1" Spring Drain - Complete
- WSSD-PL Plunger WSSD-SPR Spring
- WSSD-RW Rubber Washer WSSD-SPL Splash Plate

#### **Pivot Star Drains**

Heavy-Duty Replaceable Rubber Star



SDPBC-1



#### V-Drain<sup>™</sup>

1" NPT Replacement Drain for Valley Pivot Systems

SDPBC-1 SDMC-1

SDRS-1 SDPB-1 Complete w/Plastic Base

Metal Cap

Neoprene Rubber Star

Plastic Base

#### **Converts Mushroom-Type to Star-Drain Type**

Easy External Installation

#### Z-Drain<sup>™</sup>

7/8" Hole Replacement Drain For Lindsay Pivot Systems



**ZDCOMP** 



**ZDGROM** 





SDMC-1

SDRS-1

**ZDCOMP ZDBASE ZDGROM** SDMC-1 SDRS-1

Complete Drain Assembly Base

**Rubber Grommet** Metal Cap

Neoprene Rubber Star Gasket



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#### **MULTI-FUNCTION AIR VENT**

# AIR-O-MAX™

Air Vacuum and Air Relief

Continuous Acting Air Vacuum and Air Relief













AVAR1

AVAR1.25

AVAR2

CAVAR1

CAVAR1.25

CAVAR2

The **XCAD USA®** Air-O-Max™ family of automatic air vents are an outstanding choice for relieving air in irrigation systems. Choose from the AVAR Air Vacuum and Air Relief or the CAVAR for Continuous Acting Air Vacuum and Air Relief under pressure.

# AIR-O-MAX SERIES

Patented Anti Blow-Shut Sleeve

#### **Features**

- 1", 1.25" and 2" NPT
- Built entirely of corrosion resistant materials
- Glass-filled nylon body and base
- Polypropylene float
- Aerodynamic design resists blowing closed
- Working pressure 10 to 125 psi
- Discharge elbow with male connection thread and internal protection screen

#### **Applications**

- Pump start up high-capacity air venting
- Pump shut down vacuum relief
- Filter back flush
- Venting at pipeline high points
- Continuous acting air venting during system operation (CAVAR)

#### AIR VENTS / VACUUM RELIEF VALVES



AVP75

VRV1.5X

IR VENT

VRV3X



AVP1











VRV4X



VRCV2X

# **X-SERIES**

#### Air Vent / Vacuum Relief Valves

AVP75 3/4" Plastic Air Vent

AVP1 1" Plastic Air Vent

VRCV2X 2" Vacuum Relief Check Valve X-Series

1 1/2" X-Series VRV1.5X

VRV2X 2" X Series (15/box)

VRV3X 3" X Series (4/box)

VRV4X 4" X Series (4/box)

#### **Features**

#### X-SERIES™

- High-quality cast aluminum and plastic designs
- Unique ball-retention bridge
- Operates well at low and high pressures
- X-Series: 10 120 psi
- NRCS Cost Share Approved



#### PIPELINE SAFETY PRODUCTS

# Superior Industry Quality Pressure Lock™





PRV3B

PRV3YBA

#### Available Field or Factory Set

**Pressure Guard** Pressure Relief Valves are designed to provide maximum pressure surge protection for irrigation systems. These high-quality spring-loaded valves can be either field set or factory preset to ensure accurate and dependable operation.

#### **Built in the USA**

# Pressure Guard

#### **Pressure Relief Valve**

(External Spring Surge Plug) 4 per box

- Pressure Lock™ tamper resistant locking cap
- Sizes: 2", 2.5", 3" and 4"
- Corrosion resistant galvanized body, vulcanized rubber seat
- · Cast iron base, stainless stem, painted spring
- Available in four spring configurations to meet varied pressure and surge requirements
- Pressure Guard<sup>™</sup> pressure relief valves are designed for years of dependable, reliable service
- NRCS cost share approved

Size	Pressure Range	Spring Color	Field Set (without Pressure Lock™)	Factory Preset (with Pressure Lock™)
2" Threaded NPT	0-25	Gray	PRV2G	PRV2GA
	10-65	Yellow	PRV2Y	PRV2YA
	45-80	Black	PRV2B	PRV2BA
	80-150	Yellow/Blue*	PRV2YB	PRV2YBA
2.5" Threaded NPT	0-25	Gray	PRV2.5G	PRV2.5GA
	10-65	Yellow	PRV2.5Y	PRV2.5YA
	45-80	Black	PRV2.5B	PRV2.5BA
	80-150	Yellow/Blue*	PRV2.5YB	PRV2.5YBA
3" Threaded NPT	0-25	Gray	PRV3G	PRV3GA
5 Threaded Will	10-65	Yellow	PRV3Y	PRV3YA
	45-80	Black		
	80-150	Yellow/Blue*	PRV3B	PRV3BA
	00-130	reliow/blue	PRV3YB	PRV3YBA
4" Threaded NPT	0-25	Gray	PRV4G	PRV4GA
	10-65	Yellow	PRV4Y	PRV4YA
	45-80	Black	PRV4B	PRV4BA
	80-150	Yellow/Blue*	PRV4YB	PRV4YBA



#### PIPELINE SAFETY PRODUCTS

# Pressure Guard

ISPRV3

#### 3" Internal Spring Pressure Relief Valve

(Internal Spring Surge Plug) 5 per box

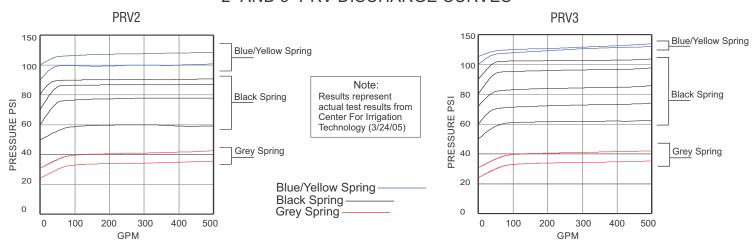
ISPRV3

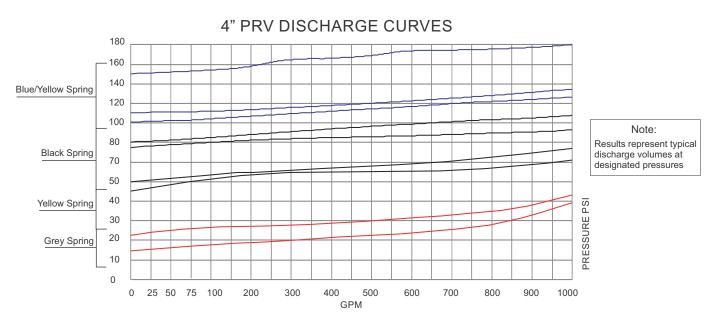
3" NPT, 25 to 100 psi

#### Features

- Only internal spring PRV that is field adjustable without removal
- 1" and 1/4" multiple porting for addition of air vent and/or psi gauge
- Cast iron body with 3" NPT male threading
- PSI range: 25 to 120 psi
- Replaceable rubber seat
- Stainless-steel stem and brass bushings for long life
- Splash guard for ease of adjustment

#### 2" AND 3" PRV DISCHARGE CURVES







1-208-438-9223 Email: xcad@pmt.org xcadusa.com

#### **BRASS BALL VALVES**





BBVFP-1





# BBVFP-2



BBVSP-2

#### **Brass Ball Valves**

#### Full Port

BBVFP-1/4 1/4" Full Port
BBVFP-1/2 1/2" Full Port
BBVFP-3/4 3/4" Full Port
BBVFP-1 1" Full Port
BBVFP-1.25 1.25" Full Port
BBVFP-1.5 1.5" Full Port

BBVFP-2

#### Standard Port

2" Full Port

BBVSP-1/4 1/4" Standard Port
BBVSP-1/2 1/2" Standard Port
BBVSP-3/4 3/4" Standard Port
BBVSP-1 1" Standard Port
BBVSP-1.25 1.25" Standard Port
BBVSP-1.5 1.5" Standard Port
BBVSP-2 2" Standard Port

#### **Features**

- Standard and full port models
- Forged brass body
- Teflon seat and stem packing
- Standard NPT threading

To winterize Seal-Matic ball valves and reduce chance of damaging valve from freezing:

Drain valve and leave 3/4 open, do not leave valve fully open or fully closed





#### SEAL-MATIC® GX-SERIES BUTTERFLY VALVES





#### **Features**

- Double seal seat design eliminates need for flange gaskets
- Two-piece stainless-steel stem design with floating disc
- Drive stem flattened for easy fit actuation
- Streamlined disc for maximum flow
- Locating lugs for easy installation





#### **GX-Series**

#### **Gear-Op Stainless-Steel**

BVGO2	2" Gear Op, Stainless-Steel Disc
BVGO2.5	2.5" Gear Op, Stainless-Steel Disc
BVGO3	3" Gear Op, Stainless-Steel Disc
BVGO4	4" Gear Op, Stainless-Steel Disc
BVGO5	5" Gear Op, Stainless-Steel Disc
BVGO6	6" Gear Op, Stainless-Steel Disc
BVGO8	8" Gear Op, Stainless-Steel Disc
BVGO10	10" Gear Op, Stainless-Steel Disc
BVGO12	12" Gear Op, Stainless-Steel Disc

#### **Lever-Op Stainless-Steel**

BVLO2	2" Lever Op, Stainless-Steel Disc
BVLO2.5	2.5" Lever Op, Stainless-Steel Disc
BVLO3	3" Lever Op, Stainless-Steel Disc
BVLO4	4" Lever Op, Stainless-Steel Disc
BVLO5	5" Lever Op, Stainless-Steel Disc
BVLO6	6" Lever Op, Stainless-Steel Disc
BVLO8	8" Lever Op, Stainless-Steel Disc
BVLO10	10" Lever Op. Stainless-Steel Disc

#### **GX-Series**

#### **Gear-Op Ductile Iron**

DVCO2 DI	2" Caar On Dustila Iran Dias
BVGO2-DI	2" Gear Op Ductile Iron Disc
BVGO2.5-DI	2.5" Gear Op, Ductile Iron Disc
BVGO3-DI	3" Gear Op, Ductile Iron Disc
BVGO4-DI	4" Gear Op, Ductile Iron Disc
BVGO5-DI	5" Gear Op, Ductile Iron Disc
BVGO6-DI	6" Gear Op, Ductile Iron Disc
BVGO8-DI	8" Gear Op, Ductile Iron Disc
BVGO10-DI	10" Gear Op, Ductile Iron Disc
BVGO12-DI	12" Gear Op, Ductile Iron Disc

#### **Lever-Op Ductile Iron**

BVLO2-DI	2" Lever Op, Ductile Iron Disc
BVLO2.5-DI	2.5" Lever Op, Ductile Iron Disc
BVLO3-DI	3" Lever Op, Ductile Iron Disc
BVLO4-DI	4" Lever Op, Ductile Iron Disc
BVLO5-DI	5" Lever Op, Ductile Iron Disc
BVLO6-DI	6" Lever Op, Ductile Iron Disc
BVLO8-DI	8" Lever Op, Ductile Iron Disc
BVLO10-DI	10" Lever Op, Ductile Iron Disc



#### SEAL-MATIC® MONARCH SERIES BUTTERFLY VALVES



MBVLO3-DI

#### **Features**

- Double seal seat design eliminates need for flange gaskets
- Two-piece stainless-steel stem design with floating disc
- Drive stem flattened for easy fit actuation
- Streamlined disc for maximum flow
- Locating lugs for easy installation
- Extension and Gear Head universal with XCAD **GX** Series



#### **Monarch-Series Butterfly Valves**

#### **Lever-Op Ductile Iron Disc**

MBVLO3-DI	3" Lever Op, Ductile Iron Disc
MBVLO4-DI	4" Lever Op, Ductile Iron Disc
MBVLO6-DI	6" Lever Op, Ductile Iron Disc
MBVLO8-DI	8" Lever Op, Ductile Iron Disc
MBVLO10-DI	10" Lever Op, Ductile Iron Disc

#### **Gear-Op Ductile Iron Disc**

MBVGO3-DI	3" Gear Op, Ductile Iron Disc
MBVGO4-DI	4" Gear Op, Ductile Iron Disc
MBVGO6-DI	6" Gear Op, Ductile Iron Disc
MBVGO8-DI	8" Gear Op, Ductile Iron Disc
MBVGO10-DI	10" Gear Op, Ductile Iron Disc
MBVGO12-DI	12" Gear Op, Ductile Iron Disc

#### **Monarch-Series Butterfly Valves**

#### **Lever-Op Stainless-Steel Disc**

MBVLO3-S	3" Lever Op, Stainless Steel Disc
MBVLO4-S	4" Lever Op, Stainless Steel Disc
MBVLO6-S	6" Lever Op, Stainless Steel Disc
MBVLO8-S	8" Lever Op, Stainless Steel Disc
MBVLO10-S	10" Lever Op, Stainless Steel Disc

#### **Gear-Op Stainless-Steel Disc**

MBVGO3-S	3" Gear Op, Stainless Steel Disc
MBVGO4-S	4" Gear Op, Stainless Steel Disc
MBVGO6-S	6" Gear Op, Stainless Steel Disc
MBVGO8-S	8" Gear Op, Stainless Steel Disc
MBVGO10-S	10" Gear Op, Stainless Steel Disc
MBVGO12-S	12" Gear Op, Stainless Steel Disc



#### **BUTTERFLY VALVE PARTS**

#### Fits Both GX and Monarch Series Valves



BVHDL2-6-B BVHDL2-6-G BVHDL8-12-B BVHDL8-12-G

Handle for 2"-6" Butterfly Valves (blue)
Handle for 2"-6" Butterfly Valves (gray)
Handle for 8"-12" Butterfly Valves (blue)
Handle for 8"-12" Butterfly Valves (gray)

**Lever Handle** 





BVLP8

BVLP2-6 BVLP8-12

**Lever Lock Plate** 

Lever lock plate for 2", 2.5", 3", 4", 5" and 6" Lever lock plate for 8", 10" and 12"



**BVBOX8** 



Gear Box

BVBOX2-6-B Gear Box for 2"-6" Butterfly Valves (blue)
BVBOX2-6-G Gear Box for 2"-6" Butterfly Valves (gray)
BVBOX8-12-B Gear Box for 8"-12" Butterfly Valves (blue)
BVBOX8-12-G Gear Box for 8"-12" Butterfly Valves (gray)

BVHW8



# Hand Wheel for 2"-6" Butterfly.

BVHW2-6-B	Hand Wheel for 2"-6" Butterfly Valves (blue)
BVHW2-6-G	Hand Wheel for 2"-6" Butterfly Valves (gray)
BVHW8-12-B	Hand Wheel for 8"-12" Butterfly Valves (blue)
BVHW8-12-G	Hand Wheel for 8"-12" Butterfly Valves (gray)

#### **Extensions**

BVEXT24.2-6	24" extension for 2" to 6" valves
BVEXT24.8-12	24" extension for 8" to 12" valves
BVEXT36.2-6	36" extension for 2" to 6" valves
BVEXT36.8-12	36" extension for 8" to 12" valves
BVEXT48.2-6	48" extension for 2" to 6" valves
BVEXT48.8-12	48" extension for 8" to 12" valves
BVEXT60.2-6	60" extension for 2" to 6" valves
BVEXT60.8-12	60" extension for 8" to 12" valves
BVEXT72.2-6	72" extension for 2" to 6" valves
BVEXT72.8-12	72" extension for 8" to 12" valves



#### WELD ON REDUCER CONES

# **Heavy Duty Steel Weld Cones**

#### 5MM, 7 Gauge, OD



WCIPS8X10-7

2" X 3" OD STEEL WELD ON REDUCER CONE WCOD2X3-7 WCOD3X4-7 3" X 4" OD STEEL WELD ON REDUCER CONE WCOD4X5-7 4" X 5" OD STEEL WELD ON REDUCER CONE 4" X 6" OD STEEL WELD ON REDUCER CONE WCOD4X6-7 5" X 6" OD STEEL WELD ON REDUCER CONE WCOD5X6-7 6" X 8" OD STEEL WELD ON REDUCER CONE WCOD6X8-7 8" X 10" OD STEEL WELD ON REDUCER CONE WCOD8X10-7 WCOD10X12-7 10" X 12" OD STEEL WELD ON REDUCER CONE WCOD12X14-7 12" X 14" OD STEEL WELD ON REDUCER CONE WCOD14X16-7 14" X 16" OD STEEL WELD ON REDUCER CONE WCOD16X18-7 16" X 18" OD STEEL WELD ON REDUCER CONE

#### 5MM, 7 Gauge, IPS

WCIPS3X4-7	3" X 4" IPS STEEL WELD ON REDUCER CONE
WCIPS4X6-7	4" X 6" IPS STEEL WELD ON REDUCER CONE
WCIPS6X8-7	6" X 8" IPS STEEL WELD ON REDUCER CONE
WCIPS8X10-7	8" X 10" IPS STEEL WELD ON REDUCER CONE
WCIPS10X12-7	10" X 12" IPS STEEL WELD ON REDUCER CONE

#### 3.5MM, 10 Gauge, OD

WCOD2X3-10	2" X 3" OD STEEL WELD ON REDUCER CONE
WCOD3X4-10	3" X 4" OD STEEL WELD ON REDUCER CONE
WCOD4X5-10	4" X 5" OD STEEL WELD ON REDUCER CONE
WCOD4X6-10	4" X 6" OD STEEL WELD ON REDUCER CONE
WCOD5X6-10	5" X 6" OD STEEL WELD ON REDUCER CONE
WCOD6X8-10	6" X 8" OD STEEL WELD ON REDUCER CONE
WCOD8X10-10	$8\ensuremath{^{"}}$ X 10 $\ensuremath{^{"}}$ OD STEEL WELD ON REDUCER CONE
WCOD10X12-10	10" X 12" OD STEEL WELD ON REDUCER CONE

# 3.5MM, 10 Gauge, IPS

WCIPS3X4-10	3" X 4" IPS STEEL WELD ON REDUCER CONE
WCIPS4X6-10	4" X 6" IPS STEEL WELD ON REDUCER CONE
WCIPS6X8-10	6" X 8" IPS STEEL WELD ON REDUCER CONE
WCIPS8X10-10	8" X 10" IPS STEEL WELD ON REDUCER CONE
WCIPS10X12-10	10" X 12" IPS STEEL WELD ON REDUCER CONE



#### **TOGGLE GATES**

# **Toggle Gates**

Bolts Included with CP Style

#### **CP Style**

#### Galvanized w/ Stainless Steel Slide

Fits Concrete Pipe

TG4-CPG	4" TOGGLE GATE, CP STYLE, GALVANIZED
TG6-CPG	6" TOGGLE GATE, CP STYLE, GALVANIZED
TG8-CPG	8" TOGGLE GATE, CP STYLE, GALVANIZED
TG10-CPG	10" TOGGLE GATE, CP STYLE, GALVANIZED
TG12-CPG	12" TOGGLE GATE, CP STYLE, GALVANIZED

#### **Stainless Steel**

TG4-CPS	4" TOGGLE GATE, CP STYLE, STAINLESS STEEL
TG6-CPS	6" TOGGLE GATE, CP STYLE, STAINLESS STEEL
TG8-CPS	8" TOGGLE GATE, CP STYLE, STAINLESS STEEL
TG10-CPS	10" TOGGLE GATE, CP STYLE, STAINLESS STEEL
TG12-CPS	12" TOGGLE GATE. CP STYLE. STAINLESS STEEL



TG12-ODG

#### **Features**

- CP Style for concrete pipe
- OD Style for attachment to OD pipe
- All gates have full Stainless Steel slides
- Galvanized type are Hot Dipped with Stainless Steel slide

#### **OD Style**

#### Galvanized w/ Stainless Steel Slide

TG4-ODG	4" TOGGLE GATE, OD STYLE, GALVANIZED
TG6-ODG	6" TOGGLE GATE, OD STYLE, GALVANIZED
TG8-ODG	8" TOGGLE GATE, OD STYLE, GALVANIZED
TG10-ODG	10" TOGGLE GATE, OD STYLE, GALVANIZED
TG12-ODG	12" TOGGLE GATE, OD STYLE, GALVANIZED

#### **Stainless Steel**

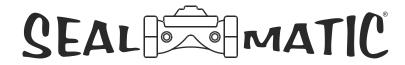
TG4-ODS	4" TOGGLE GATE, OD STYLE, STAINLESS STEEL
TG6-ODS	6" TOGGLE GATE, OD STYLE, STAINLESS STEEL
TG8-ODS	8" TOGGLE GATE, OD STYLE, STAINLESS STEEL
TG10-ODS	10" TOGGLE GATE, OD STYLE, STAINLESS STEEL
TG12-ODS	12" TOGGLE GATE, OD STYLE, STAINLESS STEEL

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#### **CONTROL VALVES**





3-Year Diaphragm Guarantee

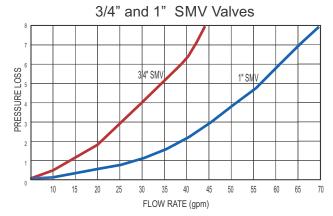
# Seal Matic 3/4", 1", 1 1/4" and 1 1/2"

Pivot Auxillary & Corner Control Valve Raven Smart™ Diaphragm Technology

#### **Features**

- Fully galvanized, ductile iron body and bonnet
- Brass auto-drain included with PEG model
- One diaphragm for all working pressures
- 200 psi max working pressure
- · Highly efficient high-flow, low head loss design
- Easy in-place maintenance
- Pressure reducing and pressure sustaining valves come with P-6000 brass pilot

SMV75PEG



Seal Matic\* valves are only guaranteed to perform optimally in accordance with the size and model of each valve's performance chart in standard irrigation use and practices.

Graphs Represent Results From CIT

#### Seal Matic Pivot End Gun Valve

SMV75PEG 3/4" w/Auto-Drain and Plug SMV1PEG 1" w/Auto-Drain and Plug SMV1.25PEG 1 1/4" w/Auto-Drain and Plug SMV1.5PEG 1 1/2" w/Auto-Drain and Plug

#### Seal Matic Basic Valve

SMV75B 3/4" w/Plugs SMV1B 1" w/Plugs SMV1.25B 1 1/4" w/Plugs SMV1.5B 1 1/2" w/Plugs

#### Seal Matic Electric On/Off Valve

SMV75WS 3/4" w/Solenoid SMV1WS 1" w/Solenoid SMV1.25WS 1 1/4" w/Solenoid SMV1.5WS 1 1/2" w/Solenoid

# Seal Matic Manual Pressure Reducing Valve

SMV75MPR 3/4" w/P-6000 Pilot SMV1MPR 1" w/P-6000 Pilot SMV1.25MPR 1 1/4" w/P-6000 Pilot SMV1.5MPR 1 1/2" w/P-6000 Pilot

# Seal Matic Electric Pressure Reducing Valve

 SMV75EPR
 3/4" w/P-6000 Pilot/Solenoid

 SMV1EPR
 1" w/P-6000 Pilot/Solenoid

 SMV1.25EPR
 1 1/4" w/P-6000 Pilot/Solenoid

 SMV1.5EPR
 1 1/2" w/P-6000 Pilot/Solenoid

# Seal Matic Manual Pressure Sustaining Valve

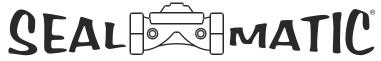
SMV75MPS 3/4" w/P-6000 Pilot SMV1MPS 1" w/P-6000 Pilot SMV1.25MPS 1 1/4" w/P-6000 Pilot SMV1.5MPS 1 1/2" w/P-6000 Pilot

> For SMV Installation Guide see page 87 For SMV Dimensions see page 90



#### **CONTROL VALVES**





3-Year Diaphragm Guarantee

from domestic and foreign parts

#### Seal Matic 2" Pivot End Gun Valve

Raven Smart™ Diaphragm Technology

#### **Features**

- Fully galvanized, ductile iron body and bonnet
- Brass auto-drain included with PEG model
- One diaphragm for all working pressures
- 200 psi max working pressure
- Easy in-place maintenance
- Pressure sustaining and pressure reducing valves come with P-6000 pilot
- SMVX100PEG works with Aqua Burst<sup>®</sup> X100 and Nelson<sup>™</sup> SR100 and SR75



SMVX100PEG



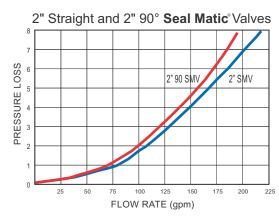




SMV902PEG



SMV3B



Cv = 2" 90° = 110 Cv = 2" Str = 90 (control vented to atmosphere)

Seal Matic\* valves are only guaranteed to perform optimally in accordance with the size and model of each valve's performance chart in standard irrigation use and practices.

Graphs Represent Results From CIT

#### Seal Matic Pivot End Gun Valve

SMV2PEG 2" w/Auto-Drain and Plug SMV902PEG 2" 90° w/Auto-Drain and Plug SMVX100PEG 2" X-100 End Gun Valve

#### Seal Matic Basic Valve

SMV2B 2" Basic w/Plugs SMV902B 2" 90° Basic w/Plugs SMV3B 3" Basic w/Plugs

#### Seal Matic Electric On/Off Valve

SMV2WS 2" w/Solenoid SMV902WS 2" 90° w/Solenoid

SMVX100WS 2" X-100 End Gun Valve w/Solenoid

SMV3WS 3" w/Solenoid

# Seal Matic Manual Pressure Reducing Valve

SMV2MPR 2" w/P-6000 Pilot SMV902MPR 2" 90° w/P-6000 Pilot SMV3MPR 3" w/P-6000 Pilot

# Seal Matic Electric Pressure Reducing Valve

SMV2EPR 2" w/P-6000 Pilot/Solenoid
SMV902EPR 2" 90° w/P-6000 Pilot/Solenoid
SMV3EPR 3" w/P-6000 Pilot/Solenoid

# Seal Matic Manual Pressure Sustaining Valve

SMV2MPS 2" w/P-6000 Pilot SMV902MPS 2" 90° w/P-6000 Pilot SMV3MPS 3" w/P-6000 Pilot

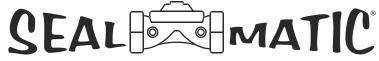
> For SMV Installation Guide see page 87 For SMV Dimensions see page 90

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#### **CONTROL VALVES**

# Assembled in the USA



3-Year Diaphragm Guarantee

from domestic and foreign parts

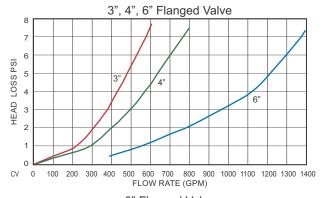
Raven Smart<sup>™</sup> Diaphragm Technology

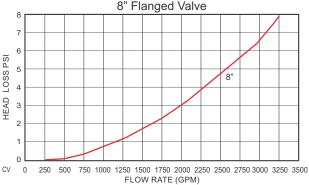
#### **Features**

- New Super Flow design, available in 4", 6", 8"
- Fully galvanized, ductile iron body and bonnet
- One diaphragm for all pressures
- Easy in-place maintenance
- Fully open at 5 psi
- CIT tested flow rates
- Pilot Control Options: Pressure reducing, pressure sustaining, pressure relief
- Pressure reducing and pressure sustaining valves come with P-6000 brass pilot
- Solenoid available in 12v DC, 24v AC, 24v DC or 120v AC

SMV6MPR 6" Dual-X<sup>™</sup> Control Valve

SMV4WS





Seal Matic\* valves are only guaranteed to perform optimally in accordance with the size and model of each valve's performance chart in standard irrigation use and practices.

Graphs Represent Results From CIT

#### Seal Matic Electric On/Off Valve

SMV4WS 4" w/Solenoid SMV6WS 6" w/Solenoid SMV8WS 8" w/Solenoid

#### Seal Matic Basic Valve

SMV4B 4" Basic w/Plugs SMV6B 6" Basic w/Plugs SMV8B 8" Basic w/Plugs

# Seal Matic Manual Pressure Reducing Valve

SMV4MPR 4" w/P-6000 Pilot SMV6MPR 6" w/P-6000 Pilot SMV8MPR 8" w/P-6000 Pilot

# Seal Matic Electric Pressure Reducing Valve

SMV4EPR 4" w/P-6000 Pilot/Solenoid SMV6EPR 6" w/P-6000 Pilot/Solenoid SMV8EPR 8" w/P-6000 Pilot/Solenoid

#### Seal Matic Manual Pressure Sustaining Valve

SMV4MPS 4" w/P-6000 Pilot SMV6MPS 6" w/P-6000 Pilot SMV8MPS 8" w/P-6000 Pilot

For SMV Installation Guide see page 89
For SMV Dimensions see page 92



2025 / 2026

#### **CONTROL VALVES**

# Assembled in the USA from domestic and foreign parts

# X-Max Valve

Where Function and Efficiency Meet

High-Flow Design

#### **Features**

- Five-Year Diaphragm Warranty
- Hot dipped galvanized and oven baked powder coatings
- Pilot control options: pressure reducing, pressure sustaining and pressure relief
- Electric on/off with Parker solenoid and manual three-way controller
- Solenoid available in 12v DC, 24v DC, 24v AC or 120v AC
- Available with P-6000 brass pilot
- Bolt Kit Included



XMAX4WS



XMAX6II-WS SuperMax



XMAX8WS

#### X-MAX Electric On/Off Valve

XMAX4WS 4" w/Solenoid XMAX6II-WS 6" w/Solenoid XMAX8-WS 8" w/Solenoid

#### X-MAX Basic Valve

XMAX4B 4" Basic w/Plugs XMAX6II-B 6" Basic w/Plugs XMAX8B 8" Basic w/Plugs

#### X-MAX Manual Pressure Reducing Valve

XMAX4MPR 4" w/P-6000 Pilot XMAX6II-MPR 6" w/P-6000 Pilot XMAX8MPR 8" w/P-6000 Pilot

# X-MAX Electric On/Off Pressure Reducing Valve

XMAX4EPR 4" w/P-6000 Pilot/Solenoid XMAX6II-EPR 6" w/P-6000 Pilot/Solenoid XMAX8EPR 8" w/P-6000 Pilot/Solenoid

# X-MAX Manual Pressure Sustaining Valve

XMAX4MPS 4" w/P-6000 Pilot XMAX6II-MPS 6" w/P-6000 Pilot XMAX8MPS 8" w/P-6000 Pilot

See Performance Charts (Pg. 69)

Designed and engineered to out-flow and out-control all other hydraulic control valves.

X-MAX6II = 1150 gpm @ 1.0 cv



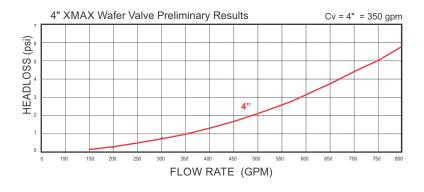
#### **CONTROL VALVES**

#### **Assembled** in the USA from domestic and foreign parts

# X-Max Valve

Where Function and Efficiency Meet

**High-Flow** Design



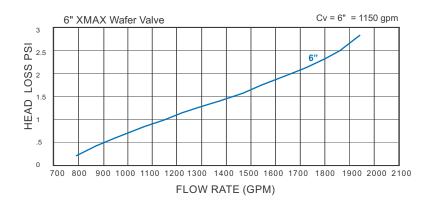
#### **XCON/XMAX Bolt Kits**

XMAX4-BK 8 - 5/8" x 10 1/2" bolts, 16 - 5/8" nuts

8 - 3/4" x 14" bolts, 16 - 3/4" nuts

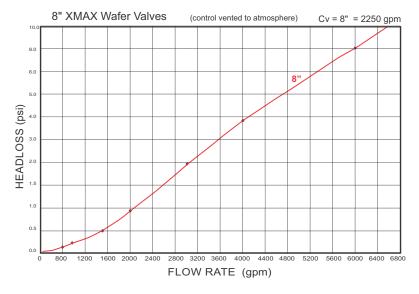
XMAX6-BK

8 - 3/4" x 16" bolts, 16 - 3/4" nuts XMAX8-BK



#### **Replacement Valve Diaphragms**

XMAX4DIA For 4" XMAX Valve XMAX6DIA For 6" XMAX Valve **XMAX8DIA** For 8" XMAX Valve For 4" XCON Valve XCON4DIA XCON6DIA For 6" XCON Valve XCON8DIA For 8" XCON Valve SMV1.5DIA For 1.25"/1.5" SMV Valve SMV75-1DIA For .75"/1" SMV Valve SMV2DIA For 2" SMV Valve For 3"/4"/6" SMV Valve SMV346DIA For 8" SMV Valve SMV8DIA



#### **Replacement End Cap O-rings**

XMAX4OR	For 4" XMAX End Cap
XMAX6OR	For 6" XMAX End Cap
XMAX8OR	For 8" XMAX End Cap
SMV3OR	For 3" SMV End Cap
SMV4OR	For 4" SMV End Cap
SMV6OR	For 6" SMV End Cap
SMV8OR	For 8" SMV End Cap

#### VALVE ACCESSORIES



#### XCAD Pressure Control Pilot P-6000 Series

P-6000-H Pressure Control Pilot
High: 30-120 psi/Medium: 30-60 psi/
Low: 10-40 psi

P-6000-L Includes vent and fittings

P6MPR-H Manual Pressure Reduction Kit
High: 30-120 psi/Medium: 30-60 psi/
Low: 10-40 psi

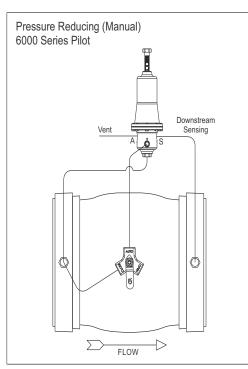
P6MPR-L Includes pilot and fittings

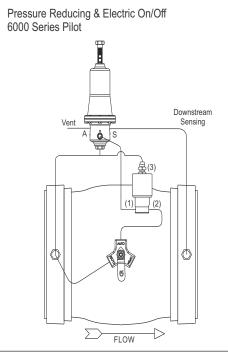
P6EPR-H Electric On-Off Pressure Reduction Kit High: 30-120 psi/Medium: 30-60 psi/Low: 10-40 psi Includes pilot, solenoid, 3-way selector and fittings

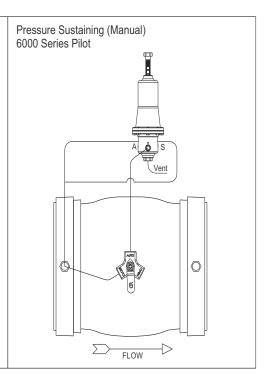
P6MPS-H Manual Pressure Sustaining/Relief Kit High: 30-120 psi/Medium: 30-60 psi/

P6MPS-M Low: 10-40 psi Includes pilot and fittings

- Maintenance free stainless-steel control springs (No greasing required)
- Calibrated pressure control (low and high)
- Both sustaining/relief and reducing function
- · No pressure drop required to regulate
- Easy valve mounting bracket
- Universal design works with most control valves





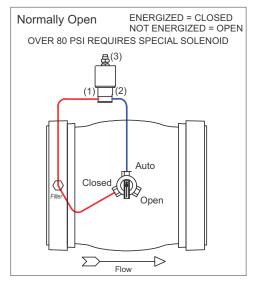


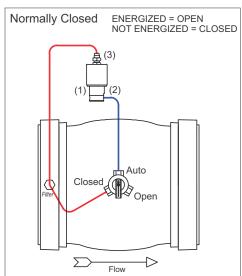
Upstream and downstream sensing should be placed 24 inches away from valve.

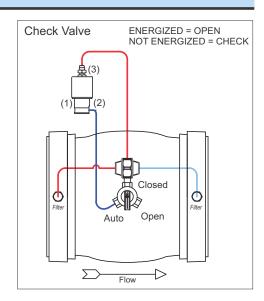


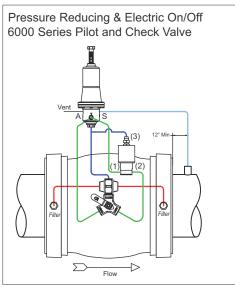
1-208-438-9223 Email: xcad@pmt.org xcadusa.com

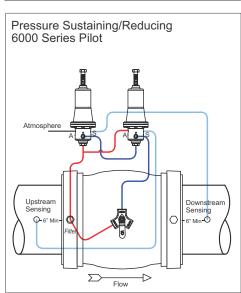
### PILOT PLUMBING CHARTS

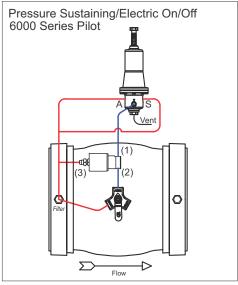


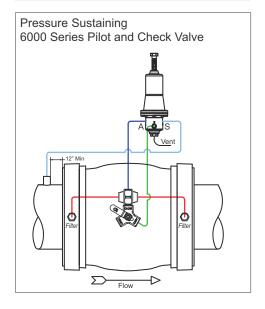












### **VALVE ACCESSORIES**





PKSOL-120AC





PKPOT-120AC

### 3-Way Solenoids

PKSOL-120UN 120v AC Solenoid, Unpotted PKSOL-120AC 120v AC Solenoid, Potted PKSOL-24DC 24v DC Solenoid, Unpotted PKSOL-24AC 24v AC Solenoid, Unpotted PKSOL-12DC 12v DC Solenoid, Unpotted PKSOL-12DCL 12v DC Latching Solenoid PKSOL-LO120AC 120v AC 5/32" Orifice Solenoid PKSOL-LO24AC 24v AC 5/32" Orifice Solenoid

### **Solenoid Coils**

**PKHS** Coil Housing (pot) PKCOIL-120AC 120v AC Coil Only PKPOT-120AC 120v AC Potted Coil PKCOIL-24DC 24v DC Coil Only PKCOIL-24AC 24v AC Coil Only PKCOIL-12DC 12v DC Coil Only



PKCOIL-12DC

3WSEL



SVB-4



**PLTVENT** 

### **Selector Valves**

(Large Ports)

3WSEL 1/4"x1/8"x1/8"x1/8" 3-way Selector 1/4" Brass Shuttle Valve SVB-4

**PLTVENT** Pilot Restrictor Vent



LBF25



SBF25



**EXTFP** 



SMVBD-AV

**Brass Filters and Drains** 

LBF25 1/4"x1/4" Internal Brass Filter, Long SBF25 1/4"x1/4" Internal Brass Filter, Short **EXTFP** 1/4"x1/4" External Plastic Filter 1/4" Internal Brass Drain SMVBD-AV



### **CONTROL VALVE PARTS**

-					Brass Valve Fittings Plated Brass
			DELINIO O	BHN2-2	1/8" NPT x 1/8" NPT Hex Nipple
BHN2-2	BHN4-2	BHN4-4	BFHN2-2	BHN4-2	1/4" NPT x 1/8" NPT Hex Nipple
		411	(III) F armin	BHN4-4	1/4" NPT x 1/4" NPT Hex Nipple
			(III talente	BFHN2-2	1/8" Female NPT x 1/8" Female NPT Brass Hex Nipple
BFHN4-	4 SHH4-4	SSN4-2	SSN4-4	BFHN4-4	1/4" Female NPT x 1/4" Female NPT Brass Hex Nipple
				SHH4-4	1/4" Hose x1/4" Hose Swivel Connector
				SHH516	5/16" Hose x 5/16" Hose Swivel Connector
SSN516	-2 SSN516-4	SSN38-4	SSN12-4	SSN4-2	1/4" Hose x 1/8" NPT Swivel Straight Nipple
				SSN4-4	1/4" Hose x 1/4" NPT Swivel Straight Nipple
				SSN516-2	5/16" Hose x 1/8" NPT Swivel Straight Nipple
W.		H		SSN516-4	5/16" Hose x 1/4" NPT Swivel Straight Nipple
SE4-2	SE4-4	SE516-2	SE516-4	SSN38-4	3/8" Hose x 1/4" NPT Swivel Straight Nipple
SE38-4 SBT516-2		_	-	SSN12-4	1/2" Hose x 1/4" NPT Swivel Straight Nipple
				SE4-2	1/4" Hose x 1/8" NPT Swivel Elbow
				SE4-4	1/4" Hose x 1/4" NPT Swivel Elbow
0500	****	ODT4 0	ODT4 4	SE516-2	5/16" Hose x 1/8" NPT Swivel Elbow
SE38-4	\$ SE12-4	SBT4-2	SBT4-4	SE516-4	5/16" Hose x 1/4" NPT Swivel Elbow
	1		(011)	SE38-4	3/8" Hose x 1/4" NPT Swivel Elbow
AUTTY -				SE12-4	1/2" Hose x 1/4" NPT Swivel Elbow
			all a service	SBT4-2	1/4" Hose x 1/8" NPT Swivel Branch Tee
				SBT4-4	1/4" Hose x 1/4" NPT Swivel Branch Tee
SBT516	-2 SBT516-4	4 SBT38-4	SBT12-4	SBT516-2	5/16" Hose x 1/8" NPT Swivel Branch Tee
				SBT516-4	5/16" Hose x 1/4" NPT Swivel Branch Tee
		W		SBT38-4	3/8" Hose x 1/4" NPT Swivel Branch Tee
		W		SBT12-4	1/2" Hose x 1/4" NPT Swivel Branch Tee
	SRT4-2	SRT4-4 SRT	516-2	SRT4-2	1/4" Hose x 1/8" NPT Swivel Run Tee
				SRT4-4	1/4" Hose x 1/4" NPT Swivel Run Tee
				SRT516-2	5/16" Hose x 1/8" NPT Swivel Run Tee
				SRT516-4	5/16" Hose x 1/4" NPT Swivel Run Tee
	SRT516-4	SRT38-4		SRT38-4	3/8" Hose x 1/4" NPT Swivel Run Tee
				SRT12-4	1/2" Hose x 1/4" NPT Swivel Run Tee (not shown)



### **CONTROL VALVE PARTS**

BVT12

# Brass Valve Fittings Plated Brass











SYC4-2	1/4" Hose x 1/8" NPT Swivel Divider Tee
SYC4-4	1/4" Hose x 1/4" NPT Swivel Divider Tee
SYC-4	1/4" x 1/4" x 1/4" Hose Swivel Divider Tee
SC-4	1/4" x 1/4" x 1/4" Hoes Swivel Tee
SC-516	5/16" x 5/16" x 5/16" Hose Swivel Tee
SC-38	3/8" x 3/8" x 3/8" Hose Swivel Tee
SURT4-4	1/4" M x 1/4" F x 1/4" F NPT Brass Union Run Tee
SUT2-2	1/8" x 1/8" x 1/8" NPT (Female) Brass Union Tee
SUT4-4	1/4" x 1/4" x 1/4" NPT (Female) Brass Union Tee
SSC4-2	1/4" Hose x 1/8" NPT Swivel Speed Control
SSC4-4	1/4" Hose x 1/4" NPT Swivel Speed Control
SST4-2	1/4" Hose x 1/8" NPT Swivel Splitter Tee
SST4-4	1/4" Hose x 1/4" NPT Swivel Splitter Tee
SST516-2	5/16" Hose x 1/8" NPT Swivel Splitter Tee
FRED4-2	1/4" Female NPT x 1/8" Female NPT Hex Reducer
RED4-2	1/4" Male NPT x 1/8" Female NPT Hex Reducer
UEF2-2	1/8" Female NPT x 1/8" Female NPT Union Elbow
BVT14	Heavy Duty Nylon 1/4" Valve Tubing, per foot
BVT516	Heavy Duty Nylon 5/16" Valve Tubing, per foot
BVT38	Heavy Duty Nylon 3/8" Valve Tubing, per foot

Heavy Duty Nylon 1/2" Valve Tubing, per foot



### CONTROL VALVE PARTS

NE4-4

NHH4-4

NSC-38

NSC-4

NSBT38-4

NSBT4-2

NSBT4-4

NSE38-4

NSE4-2

NSE4-4

NHHE4-4

**NSRT12-4** 

**NSRT38-4** 

NSRT4-2

NSRT4-4

NSSN4-2

NSSN4-4

NSSN12-4

**NSSN38-4** 

NSYC-4

NSYC4-2

NSYC4-4

NSSC4-2

NSSC4-4

### **Nylon Valve Fittings**

1/4" Hose x 1/4" NPT Elbow

1/4" Hose x 1/4" Hose Swivel Straight Nipple

3/8" x 3/8" x 3/8" Hose Swivel Connector Tee

1/4" x 1/4" x 1/4" Hose Swivel Connector Tee

3/8" Hose x 1/4" NPT Swivel Branch Tee

1/4" Hose x 1/8" NPT Swivel Branch Tee

1/4" Hose x 1/4" NPT Swivel Branch Tee

3/8" Hose x 1/4" NPT Swivel Elbow

1/4" Hose x 1/8" NPT Swivel Elbow

1/4" Hose x 1/4" NPT Swivel Elbow

1/4" Hose x 1/4" Hose Swivel Elbow

3/8" Hose x 1/4" NPT Swivel Run Tee

1/4" Hose x 1/8" NPT Swivel Run Tee

1/4" Hose x 1/4" NPT Swivel Run Tee

1/4" Hose x 1/8" NPT Swivel Straight Nipple

1/4" Hose x 1/4" NPT Swivel Straight Nipple

1/2" Hose x 1/4" NPT Swivel Straight Nipple

3/8" Hose x 1/4" NPT Swivel Straight Nipple

1/4" x 1/4" x 1/4" Hose Swivel Divider Tee

1/4" Hose x 1/8" NPT Swivel Divider Tee

1/4" Hose x 1/4" NPT Swivel Divider Tee

1/4" Hose x 1/8" NPT Swivel Speed Control/Needle Valve

1/4" Hose x 1/4" NPT Swivel Speed Control/Needle Valve

1/2" Hose x 1/4" NPT Swivel Run Tee (not shown)

Nylon and Plated Brass



NE4-4



**NHH4-4** 



NSC-38









NSC-4







**NSBT38-4** 

NSBT4-2

NSBT4-4



NSE38-4



NSE4-2





NSE4-4

NHHE4-4







NSRT38-4

NSRT4-2

NSRT4-4









NSSN4-2

NSSN4-4











NSYC-4

NSYC4-2

NSYC4-4





NSSC4-2

NSSC4-4



### OIL DRIPPER

### **Turbine Oil Dripper**





UNVOD Brass Universal Oil Dripper 1/8" NPT

UEF2-2

1/8" Female NPT x 1/8" Female NPT Union Elbow

UNVOD

UEF2-2



### X-GATE LOW HEAD CANAL GATE PARTS

# **X-GATE**

### **Super Heavy-Duty**

#### **Features**

- Heavy-duty galvanized 3" x 5" head rails and 2 1/2" guide rails standard
- Spigot back or flat back frame
- Two stainless steel stem configurations:
   X-type, left and right-hand thread
- Stainless-steel stems standard
- Bronze lift nuts standard
- Standard Sizes 8", 10", 12", 15", 18", 21", 24", 30", and 36"

See chart for maximum frame lengths

Extension stem adapters for all sizes

All **X-GATE**<sup>™</sup> Canal Gates are available in two stem configurations

Please specify desired stem package when ordering gates (X-Type left-hand thread standard)

X-Type, Left Hand Thread

X-Type, Right Hand Thread

X-GATE<sup>™</sup> Low Head Canal Gates are designed to XCAD's highest specifications. Frames, covers and wedges are not interchangeable with other brands.

Additional Charge For Non-Standard Gate Lengths or Gates Over 120" in length





### X-GATE LOW HEAD CANAL GATE PARTS

### FLAT BACK FRAME

#### Standard Sizes

### SPIGOT BACK FRAME

CG8FB24	8" x 24"
CG8FB36	8" x 36"
CG8FB48	8" x 48"
CG8FB60	8" x 60"
CG8FB72	8" x 72"
CG8FB84	8" x 84"
CG8FB96	8" x 96"
CG8FB108	8" x 108"
CG8FB120	8" x 120"
CG10FB24	10" x 24"
CG10FB36	10" x 36"
CG10FB48	10" x 48"
CG10FB60	10" x 60"
CG10FB72	10" x 72"
CG10FB84	10" x 84"
CG10FB96	10" x 96"
CG10FB108	10" x 108"
CG10FB120	10" x 120"
CG12FB24	12" x 24"
CG12FB36	12" x 36"
CG12FB48	12" x 48"
CG12FB60	12" x 60"
CG12FB72	12" x 72"
CG12FB84	12" x 84"
CG12FB96	12" x 96"
CG12FB108	12" x 108"
CG12FB120	12" x 120"
CG15FB36	15" X 36"
CG15FB48	15" X 48"
CG15FB60	15" X 60"
CG15FB72	15" X 72"

CG15FB84	15" x 84"
CG15FB96	15" x 96"
CG15FB108	15" x 108"
CG15FB120	15" x 120"
CG18FB36	18" x 36"
CG18FB48	18" x 48"
CG18FB60	18" x 60"
CG18FB72	18" x 72"
CG18FB84	18" x 84"
CG18FB96	18" x 96"
CG18FB108	18" x 108"
CG18FB120	18" x 120"
CG24FB48	24" x 48"
CG24FB60	24" x 60"
CG24FB72	24" x 72"
CG24FB84	24" x 84"
CG24FB96	24" x 96"
CG24FB108	24" x 108"
CG24FB120	24" x 120"
CG30FB60	30" x 60"
CG30FB72	30" x 72"
CG30FB84	30" x 84"
CG30FB96	30" x 96"
CG30FB108	30" x 108"
CG30FB120	30" x 120"
CG36FB 72	36" x 72"
CG36FB84	36" x 84"
CG36FB96	36" x 96"
CG36FB108	36" x 108"
CG36FB120	36" x 120"

CG8SB24	8" x 24"
CG8SB36	8" x 36"
CG8SB48	8" x 48"
CG8SB60	8" x 60"
CG8SB72	8" x 72"
CG8SB84	8" x 84"
CG8SB96	8" x 96"
CG8SB108	8" x 108"
CG8SB120	8" x 120"
CG10SB24	10" x 24"
CG10SB36	10" x 36"
CG10SB48	10" x 48"
CG10SB60	10" x 60"
CG10SB72	10" x 72"
CG10SB84	10" x 84"
CG10SB96	10" x 96"
CG10SB108	10" x 108"
CG10SB120	10" x 120"
CG12SB24	12" x 24"
CG12SB36	12" x 36"
CG12SB48	12" x 48"
CG12SB60	12" x 60"
CG12SB72	12" x 72"
CG12SB84	12" x 84"
CG12SB96	12" x 96"
CG12SB108	12" x 108"
CG12SB120	12" x 120"
CG15SB36	15" X 36"
CG15SB48	15" X 48"
CG15SB60	15" X 60"
CG15SB72	15" X 72"

CG15SB84	15" x 84"
CG15SB96	15" x 96"
CG15SB108	15" x 108"
CG15SB120	15" x 120"
CG18SB36	18" x 36"
CG18SB48	18" x 48"
CG18SB60	18" x 60"
CG18SB72	18" x 72"
CG18SB84	18" x 84"
CG18SB96	18" x 96"
CG18SB108	18" x 108"
CG18SB120	18" x 120"
CG24SB48	24" x 48"
CG24SB60	24" x 60"
CG24SB72	24" x 72"
CG24SB84	24" x 84"
CG24SB96	24" x 96"
CG24SB108	24" x 108"
CG24SB120	24" x 120"
CG30SB60	30" x 60"
CG30SB72	30" x 72"
CG30SB84	30" x 84"
CG30SB96	30" x 96"
CG30SB108	30" x 108"
CG30SB120	30" x 120"
CG36SB72	36" x 72"
CG36SB84	36" x 84"
CG36SB96	36" x 96"
CG36SB108	36" x 108"
CG36SB120	36" x 120"

### FLAT BACK FRAME

#### Standard Sizes

Gate Size	Gate Length
8", 10," 12"	24", 36", 48", 60", 72", 84", 96", 108", 120"
15", 18"	36", 48", 60", 72", 84", 96", 108", 120"
24"	48", 60", 72", 84", 96", 108", 120"
30"	60", 72", 84", 96", 108", 120"
36"	72", 84", 96", 108", 120"

### SPIGOT BACK FRAME

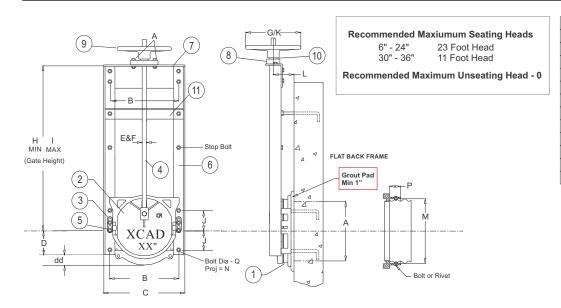
Standard Sizes

Gate Size	Gate Length
8", 10," 12"	24", 36", 48", 60", 72", 84", 96", 108", 120"
15", 18"	36", 48", 60", 72", 84", 96", 108", 120"
24"	48", 60", 72", 84", 96", 108", 120"
30"	60", 72", 84", 96", 108", 120"
36"	72", 84", 96", 108", 120"

**XCAD**USA®

1-208-438-9223 Email: xcad@pmt.org xcadusa.com

### X-GATE LOW HEAD CANAL GATES



	Parts List & Standard Features											
No.	Description	Qty.	Material									
1	Frame	1	Cast Iron									
2	Cover	1	Ductile Iron									
3	Wedge (Rt. & Lft)	1 ea	Cast Iron									
4	Stem	1	Stainless Steel									
5	Wedge Bolts	4	Zinc Plated									
6	Guide Rail	2	Galv. Structural Steel									
7	Head Rail	1	Galv. Structural Steel									
8	Lift Collar	1	Cast Iron									
9	Handwheel	1	Cast Iron									
10	Lift Nut	1	Bronze									
11	Stem Support	1-2	Galv. Structural Steel									

Cover: Cast Iron ASTM A 126 class B Frame: Ductile Iron ASTM 65-45-120

Nut: Bronze ASTM B-584 Stem: Stainless Steel Fasteners/Hardware: Zinc Plated

Railing: Galvanized

Flat Back for Headwall and Flange Mounting

Spigot Back for Mounting to Corrugated Pipe

#### Dimensions For X-GATE™ Low-Head Canal Gates

(All Measurements in Inches)

Α	В	С	D	dd	E	F Fresno	G XCAD	H	   Max	J	K Fresno	L	М	Ν	Р	Q
8"	10"	13"	4"	7/8"	7/8" (.875)	7/8" (.875)	10"	25 1/2"	121 1/2"	3"	10"	2.5"	9 1/8" (9.125)	3.5"	2.25"	1/2" x 12"
10"	12"	14 7/8" (14.875)	4 1/2"	1 1/2"	7/8" (.875)	7/8" (.875)	10"	26 1/4"	122 1/4"	3.5"	10"	2.5"	11 1/4" (11.25)	3.5"	2.25"	1/2" x 12"
12"	14"	16 7/8" (16.875)	5"	2"	7/8" (.875)	7/8" (.875)	10"	26 3/4"	122 3/4"	4"	10"	3"	13 1/8" (13.125)	4"	2.25"	1/2" x 12"
15"	17"	18 7/8" (18.875)	6"	2 1/2"	7/8" (.875)	7/8" (.875)	10"	39 1/2"	123 1/2"	5"	10"	3.5"	16"	4"	2.25"	1/2" x 12"
18"	21"	22 7/8" (22.875)	7"	3 1/2"	1"	1 1/8" (1.125)	12"	40 1/4"	124 1/4"	6"	14"	4.25"	19 1/8" (19.125)	4.5"	2.25"	5/8" x 12"
24"	27 1/4" (27.25)	29 1/8" (29.125)	9"	4 3/4"	1"	1 1/8" (1.125)	12"	53 1/2"	125 1/2"	8"	14"	4.125"	25"	4.5"	2.25"	5/8" x 12"
30"	33 3/4" (33.75)	36 1/8" (36.125)	11"	6 3/4"	1 1/8" (1.125)	1 1/8" (1.125)	15"	67 1/2"	127 1/2"	10"	14"	4.5"	31 1/2" (31.5)	6"	2.25"	3/4" x 12"
36"	39 3/4" (39.75)	42 1/8" (42.125)	13"	7 1/2"	1 1/8" (1.125)	1 1/8" (1.125)	15"	80 1/4"	128 1/4"	12"	14"	5.375"	37"	6"	2.25"	3/4" x 12"

Gate Size	<b>≪</b> Min.		Gate Heights														Max.
8	24"		36"		48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"
10	24"		36"		48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"
12	24"		36"		48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"
15	36"		48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"		
18	36"		48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"		
24	48"		60"		72"	78"	84"	90"	96"	102"	108"	114"	120"				
30	60"		72"	78"	84"	90"	96"	102"	108"	114"	120"			1			
36	72"	78"	84"	90"	96"	102"	108"	114"	120"								



2025 / 2026

### X-GATE LOW HEAD CANAL GATE PARTS

#### WEDGE SET (2pcs)

X-Type

X8-15WEDGE 8"-15" gate
X18-24WEDGE 18"-24" gate
X30-36WEDGE 30"-36" gate

Fresno-Type

F6-15WEDGE 6"-15" gate F18-36WEDGE 18"-36" gate

#### **LIFT NUT**

#### X-Type Left-Hand Thread

 XL78BNUT
 Fits 7/8" Stem

 XL1BNUT
 Fits 1" Stem

 XL118BNUT
 Fits 1 1/8" Stem

#### X-Type Right-Hand Thread

 XR78BNUT
 Fits 7/8" Stem

 XR1BNUT
 Fits 1" Stem

 XR118BNUT
 Fits 1 1/8" Stem

 Fresno-Type
 Fresno-Type

FL78NUT Fits 7/8" Stem
FL118NUT Fits 1 1/8" Stem

#### PLASTIC RING GASKET

CGGSKT8-15 Fits 7/8" Stem
CGGSKT18-24 Fits 1" Stem
CGGSKT30-36 Fits 1 1/8" Stem

#### **WELD ON COUPLER**

XL78WOC Fits 7/8" Stem
XL1WOC Fits 1" Stem
XL118WOC Fits 1 1/8" Stem

#### Replacement Parts

Wedges, Lift Collars, Bronze Lift Nuts, Stainless Steel Stems and Hand Wheels
Available for X-GATE<sup>™</sup> and Fresno® Brand Gates

#### STEEL EXTENSION COUPLER

CGEC8-15 7/8" for 8"-15" gate
CGEC18-24 1" for 18"-24" gate
CGEC30-36 1 1/8" for 30"-36" gate

#### **HAND WHEELS**

X-Type

X8-15WHL 8"-15" gate X18-24WHL 18"-24" gate X30-36WHL 30"-36" gate

Fresno-Type

F10WHL 6"-15" gate F14WHL 15"-36" gate

#### **RING / LIFT COLLAR**

X-Type

X8-15RING Fits 7/8" Stem
X18-24RING Fits 1" Stem
X30-36RING Fits 1 1/8" Stem

Fresno-Type

F-RING Fits 7/8" and 1 1/8" Stem

#### STAINLESS STEEL STEM

Stems Sold per Foot

X-Type Left-Hand Thread Stem

XL78ST 7/8" XL1ST 1" XL118ST 1 1/8"

X-Type Right-Hand Thread Stem

XR78ST 7/8" XR1ST 1" XR118ST 1 1/8"

Fresno-Type Left-Hand Thread Stem

FL78ST 7/8" FL118ST 1 1/8"



F-RING



F6-15WEDGE



X8-15RING CGEC8-15 X8-15WEDGE



XL78BNUT



FL118BNUT

Contact XCAD USA® for Additional Replacement Part Pricing and Availability

#### STANDARD RAILING AND STEM LENGTHS

All Stems Are Stainless Steel Unless Otherwise Specified

#### Gate Size

(Rail Color Code)		8" (Red)		1 1		12" (Green)			15" (Yellow)		18" (Black)		24" (Brown)		30" (White)		6"
H,I Gate Height (In)	H,I Gate Height (Ft)	H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)		H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)	Stem Length	H,I +D Total Rail Length (In)	Stem Length
	"D" = "dd" =	(4") (7/8")		(4 1/2") (1 1/2")		(5") (2")		(6") (2 1/2")		(7") (3 1/2")		(9") (4 3/4")		(11") (6 3/4")		(13") (7 1/2")	
24"	2'	28 7/8"	30"	30"	30"	31"	30"										
36"	3'	40 7/8"	42"	42"	42"	43"	42"	44 1/2"	42"	46 1/2"	42"						
48"	4'	52 7/8"	54"	54"	54"	55"	54"	56 1/2"	54"	58 1/2"	54"	61 3/4"	54"				
60"	5'	64 7/8"	66"	66"	66"	67"	66"	68 1/2"	66"	70 1/2"	66"	73 3/4"	66"	77 3/4"	66"		
72"	6'	76 7/8"	78"	78"	78"	79"	78"	80 1/2"	78"	82 1/2"	78"	85 3/4"	78"	89 3/4"	78"	92 1/2"	78"
84"	7'	88 7/8"	90"	90"	90"	91"	90"	92 1/2"	90"	94 1/2"	90"	97 3/4"	90"	101 3/4"	90"	104 1/2"	90"
96"	8'	100 7/8"	102"	102"	102"	103"	102"	104 1/2"	102"	106 1/2"	102"	109 3/4"	102"	113 3/4"	102"	116 1/2"	102"
108"	9'	112 7/8"	114"	114"	114"	115"	114"	116 1/2"	114"	118 1/2"	114"	121 3/4"	114"	125 3/4"	114"	128 1/2"	114"
120"	10'	124 7/8"	126"	126"	126"	127"	126"	128 1/2"	126"	130 1/2"	126"	133 3/4"	126"	137 3/4"	126"	140 1/2"	126"

CAD

1-208-438-9223 Email: xcad@pmt.org xcadusa.com

### X-GATE LOW HEAD CANAL GATES

### Low Head Flat Back Gate

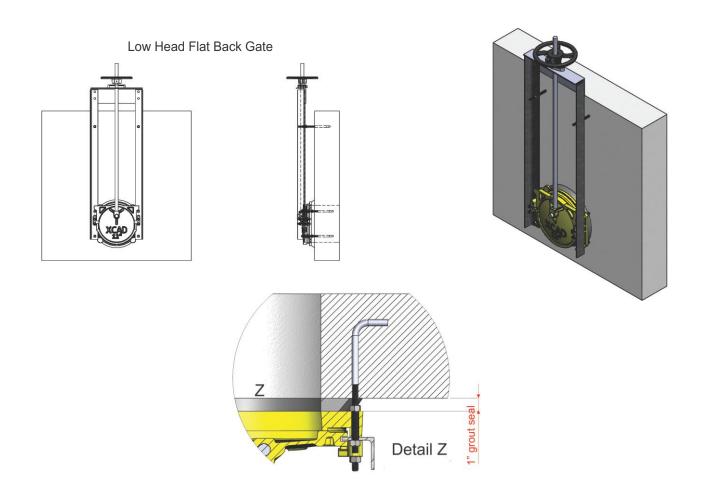
#### Installation Guide for Attaching Flat Back Gate to Concrete Headwall

- 1 Secure all specified anchor bolts in their proper position in concrete form, checking to see that anchor bolts, projections, perpendicular and horizontal alignments are all correct. Extra care is needed in this initial procedure to ensure that all bolts are properly set. Improperly set bolts will cause gate warpage and excess leakage between the seat surfaces. Do Not Force Gate Onto Misaligned or Improperly Set Anchor Bolts.
- 2 Each anchor bolt needs to be supplied with two nuts to properly mount gate to headwall. It is also recommended that you provide sufficient access to the back side of the gate to allow for easy adjustment of the back nuts. Sufficient grout space must be left for adjustment of back nuts and proper alignment of gate.
- 3 After the concrete has been poured and forms stripped, place one nut on each anchor bolt and run them down so they are 1" from the headwall (See Detail Z). Carefully place the closed gate onto the anchor bolts. Do Not Force Gate onto Misaligned Anchor Bolts. Place the second nut on each anchor bolt and bring front and back nuts into finger-tight contact with the gate frame, then align gate as necessary.

At this point of the installation, check all clearances between seating surfaces with a .004" feeler gauge. If there is proper seating at this point the gauge will not admit. In the event that the gate is not seated properly, check to see if the gate has been warped. If so, readjust nuts on anchor bolts to flatten gate. Adjustment of the wedges may also be necessary.

- 4 After the gate is seated properly, carefully dry pack or grout in the 1" gap between frame ring and concrete headwall using a non-shrink material. Check voids and fill as necessary.
- 5 Lightly tighten all exposed anchor bolt nuts uniformly so as not to warp gate to uneven surfaces.
- 6 Gate is now ready for operation.

NOTE: Gates and Pipe Are Heavy! Use Care and Good Working Practice in Assembly and Installation. WARNING: Do Not Bolt Flat Back Gate Directly Against Head Wall. Leave 1" Space for Grouting.



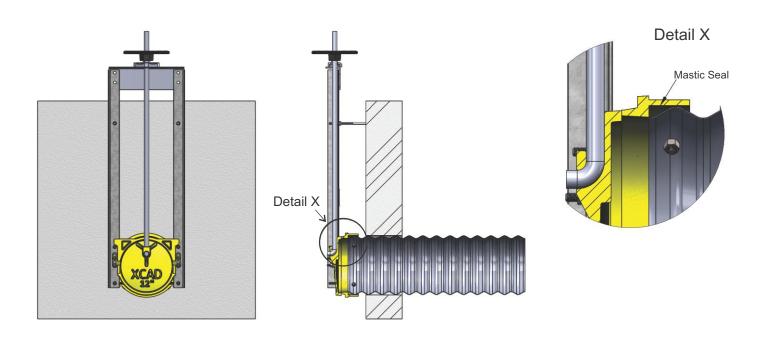
### X-GATE LOW HEAD CANAL GATES

### Low Head Spigot Back Gate

Installation Guide for Spigot Back Gate to Corrugated Pipe

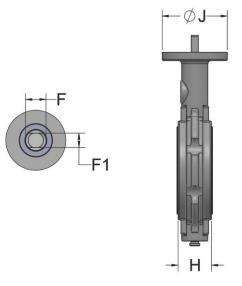
- 1 Place spigot back gate over corrugated pipe, making sure the pipe and gate are perpendicular.
- 2 Drill holes through corrugated pipe using holes in spigot back gate as a template (13/32" or 7/16" drill bit).
- 3 Secure the gate to corrugated pipe using either galvanized Grade 5 steel bolts or stainless 304 bolts and nuts. Forcing Bolt May Cause Damage to Gate.
- 4 Apply a mastic sealant to joint in between corrugated pipe and gate (See Detail X).
- 5 Brace both pipe and gate as necessary. Deflection and distortion of corrugated pipe may cause the gate to leak.
- 6 Place braced coupled gate and corrugated pipe into ditch or trench, then back fill or pour as required ensuring that gate is vertical from the centerline opening.
- 7 Remove bracing, check and clean gate seat to make sure proper full periphery seating is achieved. (Use .004 feeler gauge.)
- 8 Check the gate for any type of damage or irregularities.
- 9 Gate is now ready for operation.

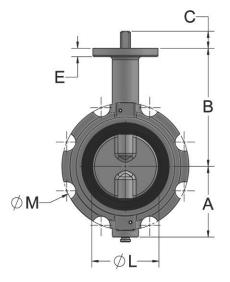
NOTE: Gates and Pipe Are Heavy! Use Care and Good Working Practice in Assembly and Installation.

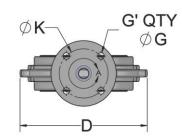




### **GX SERIES BUTTERFLY VALVE DIMENSIONS**







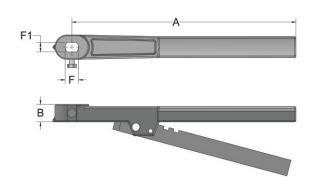
VALVE SIZE	А	В	С	D	E	F	F1	G'	G	Н	J	K	L	M
2"	2.78	5.80	1.08	5.09	.54	.56	.44	4	.41	1.69	4	3	2.21	4.75
2.5"	3.03	6.30	1.06	5.73	.54	.56	.44	4	.41	1.81	4	3	2.67	5.50
3"	3.34	6.50	1.06	6.20	.54	.56	.44	4	.41	1.80	4	3	3.17	6.00
4"	4.32	7.25	1.16	7.78	.54	.64	.44	4	.41	2.06	4	3	4.18	7.50
5"	5.40	7.58	1.10	8.83	.54	.89	.44	4	.41	2.17	4	3	5.16	8.50
6"	5.60	8.38	1.06	9.38	.54	1.00	.44	4	.41	2.18	4	3	6.04	9.50
8"	7.65	9.63	1.63	11.90	.75	1.13	.75	4	.53	2.37	6	5	8.06	11.75
10"	9.03	11.05	1.63	14.69	.75	1.13	.75	4	.53	2.68	6	5	10.05	14.25
12"	10.30	12.50	1.63	17.19	.75	1.13	.75	4	.53	3.02	6	5	12.07	17.00

### **Material Specifications GX Series**

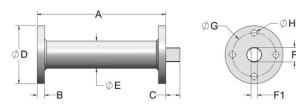
Part	Material
Body	Cast Iron
Seat	Phenolic Back Cartridge w/Buna-N Seat
Disc 2"-24"	Stainless-Steel
Disc 2"-24"	Ductile Iron
Stem Top/Bottom	Stainless-Steel
Spring Pin	Stainless-Steel
Top/Bottom Bearing	Nylon
O-Rings	Buna-N



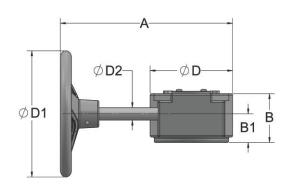
### GX SERIES BUTTERFLY VALVE DIMENSIONS

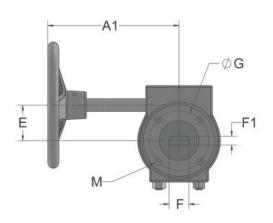


Valve Size	А	В	F	F1
2"-3"	9	.86	.56	.44
4"	11	.86	.64	.44
5"	11	.86	.88	.44
6"	11	.86	1.00	.44
8"-11"	15	1.15	1.13	.75



Valve Size	Extension Length A	В	С	D	E	F	F1	G	Н
2" - 6"	24,36,48,60,72	.54	1.00	4	1.88	1.00	.44	3	.41
8" - 12"	24,36,48,60,72	.75	1.50	6	2.38	1.13	.75	5	.53

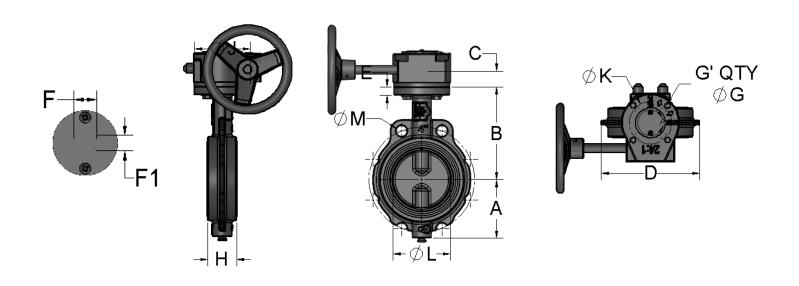




Valve Size	Α	A1	В	B1	D	D1	D2	Е	F	F1	G	М
2" - 3"	9.75	7.69	2.44	1.42	4.13	5.75	.63	1.88	1.00	.44	3	3/8"-16
4" - 6"	9.25	7.19	2.44	1.42	4.13	7.5	.63	1.88	1.00	.44	3	3/8"-16
8" - 12"	12.75	9.70	2.82	1.44	6.10	11.5	.75	2.63	1.13	.75	5	1/2"-13



### MONARCH BUTTERFLY VALVE DIMENSIONS



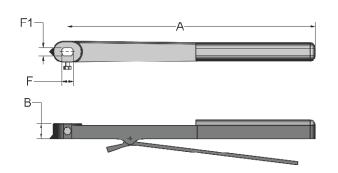
VALVE SIZE	А	В	С	D	Е	F	F1	G'	G	Н	J	K	L	М
3"	3.5	5.0	1.1	5.4	0.50	0.56	0.44	4	0.41	1.8	4	3	3.2	6.00
4"	4.1	6.6	1.1	6.9	0.50	0.64	0.44	4	0.41	2.1	4	3	4.2	7.50
6"	5.1	7.0	1.1	8.8	0.50	1.00	0.44	4	0.41	2.2	4	3	6.0	9.50
8"	6.4	9.6	1.6	10.9	0.68	1.13	0.75	4	0.53	2.4	6	5	8.1	11.75
10"	7.7	11.0	1.6	13.4	0.75	1.13	0.75	4	0.53	2.7	6	5	10.1	14.25
12"	9.3	12.0	1.6	16.2	0.75	1.13	0.75	4	0.53	3.0	6	5	12.1	17.00

### **Material Specifications Monarch Series**

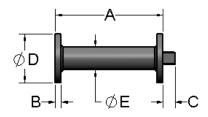
Part	Material
Body	Cast Iron
Seat	Phenolic Back Cartridge w/Buna-N Seat
Disc 2"-24"	Stainless-Steel
Disc 2"-24"	Ductile Iron
Stem Top/Bottom	Stainless-Steel
Spring Pin	Stainless-Steel
Top/Bottom Bearing	Nylon
O-Rings	Buna-N

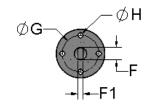


### MONARCH BUTTERFLY VALVE DIMENSIONS

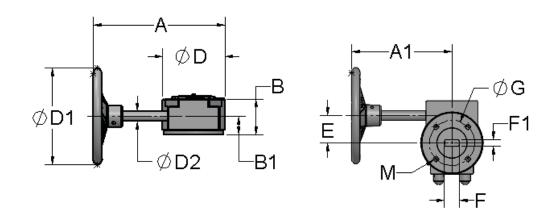


Valve Size	А	В	F	F1	
3"-6"	11.75	1.00	0.87	0.44	
8"-12"	13.75	1.15	1.13	0.75	





Valve Size	Extension Length A	В	С	D	Е	F	F1	G	Н
2" - 6"	24,36,48,60,72	.54	1.00	4	1.88	1.00	.44	3	.41
8" - 12"	24,36,48,60,72	.75	1.50	6	2.38	1.13	.75	5	.53



Valve Size	Α	A1	В	B1	D	D1	D2	Е	F	F1	G	М
2"-6"	7.8	5.7	2.5	1.40	4.1	7.25	0.63	1.88	1.00	0.44	3	3/8"-16
8"-12"	11.2	8.1	3.0	1.65	6.1	11.25	0.75	3.00	1.13	0.75	5	1/2"-13



Email: xcad@pmt.org xcadusa.com

### INSTALLATION AND STORAGE GUIDELINES

### **CEAL** MATIC Control Valves

- Always flush pipelines before installation of the valve as debris may plug and/or damage valve.
- Arrow on valve housing must match actual flow direction. If there is no arrow on valve, make sure line filter is upstream in pipeline.
- Seal-Matic® valves can be mounted either vertically or horizontally, but they must be mounted to allow the control chamber to be drained in freezing conditions.

#### **TIGHTEN FLANGE BOLTS TO 30 FT LBS TORQUE**

Tighten bolts alternately 180° apart. Repeat 3 times in a star pattern.

- If the valve is to be installed and operated in ambient temperatures below freezing, consult with your nearest **XCAD USA**° distributor.
- If valve is shut down during cold or freezing weather, the valve control space and control system must be drained.
- Connect solenoid control and pressure switch to control circuit according to local electrical codes.

### **Optimal Flow Rate for Electric On/Off Valves - GPM**

2" 90° Seal-Matic - 25 to 175 3/4" Seal-Matic - 5 to 40 100 to 500 1" Seal-Matic - 5 to 70 3" Seal-Matic

olimits and the search of th 1 1/4" Seal-Matic - 15 to 120 4" Seal-Matic

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disconnected the search of the sea 200 to 800 1 1/2" Seal-Matic - 18 to 135 6" Seal-Matic® - 400 to 1400 25 to 175 2" Seal-Matic® 8" Seal-Matic® 1000 to 3500

**Specifications:** Fixed Diaphragm Style.

Mounts between all standard flanges.

Max Pressure: 125 psi

Water Temp Range: 33°F to 130°F

**Valve Length** (End to End) – (Flange to Flange)

- 11 7/8" 3/4" and 1" - 5 1/8"  $1 \frac{1}{4}$  and  $1 \frac{1}{2}$  —  $6 \frac{1}{2}$ " - 12 1/4" -73/4" -123/8"



SMV4WS Super Flow



### INSTALLATION AND STORAGE GUIDELINES

### X-MAX Inline Control Valves

- Always flush pipelines before installation of the valve as debris may plug and/or damage valve.
- Arrow on valve housing must match actual flow direction. If there is no arrow on valve, make sure line filter is upstream in pipeline.
- Tighten bolts to the recommended torque for specific size and model of valve.

4" X-MAX Inline Wafer Valve – 15 Ft. Lbs. Torque

6" X-MAX Inline Wafer Valve - 20 Ft. Lbs. Torque

8" X-MAX Inline Wafer Valve – 20 Ft. Lbs. Torque

Tighten bolts alternately 180° apart. Repeat 3 times in a star pattern.

- If the valve is to be installed and operated in ambient temperatures below freezing, consult with your nearest **XCAD USA** distributor.
- If valve is shut down during cold or freezing weather, the valve control space and control system must be drained.
- Connect solenoid control and pressure switch to control circuit according to local electrical codes.

### **Optimal Flow Rate for Electric On/Off Valves - GPM**

4" XMAX Inline Wafer Valve -- 200 - 800

6" XMAX Inline Wafer Valve -- 500 - 2250

8" XMAX Inline Wafer Valve -- 1200 - 4000

### **Specifications:**

Wafer Style.

Mounts between all standard flanges.

ANSI B16,1 125 and 250

Valve Length 4" - 7 5/8"

6" - 10 1/4"

8" - 12 1/4"

Max Pressure: 140 psi

Water Temp Range: 33°F to 130°F



XMAX6WS SuperMax



### **CONTROL VALVE SIZING**

### **Reactive Control Valve Sizing**

Pressure Reducing and Sustaining

Choosing the correct valve size is critical when designing a pressure reducing or sustaining reactive control valve system. Valves must be sized corrrectly for the reactive control function to work properly. Control valve system designers need to avoid the most common problems while designing and sizing a control valve system.

**Problem #1** – "Over-Sizing The Valve". An over-sized reactive pressure regulating control valve may lead to severe problems such as pressure cycling, cavitation and water hammering. Valves at the same diameter as the pipe may allow for simplified installaton, however they often lead to severe throttling problems.

**Problem #2 – Size Selection.** When selecting the size of the reactive control valve from valve flow graph minimum and maximum rates, keep in mind that such graphs do not take into account pressure drop across the valve. Since both rate of flow and pressure drop determine the diaphragm/sleeve position, both must be taken into account for proper reactive valve sizing. In order to make the control valve react correctly, the diaphragm/sleeve position should be in the middle of the fully-open and fully-closed positions.

### **Installation Suggestions for Reactive Valve Control**

To Improve Reactive Control Accuracy

- 1 Avoid installing a pressure trap in a turbulent flow area
- 2 Avoid air in system
- 3 For pressure reducing control, installing the downstream pressure trap at the end of a 24" to 30" long straight pipe will help the accuracy of the reactive control
- 4 To be the most effective, the upstream and downstream pipe length should be a minimum of five pipe diameters long

### Minimum optimal flow for reactive/piloted control valve sizing (Pressure reducing/sustaining)

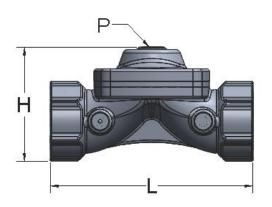
	Seal-	Matic		XM	IAX
3/4"	25 gpm	2" 90°	125 gpm	4"	450 gpm
1"	28 gpm	3"	400 gpm	6"	800 gpm
1 1/4"	43 gpm	4"	500 gpm	8"	2250 gpm
1 1/2"	45 gpm	6"	800 gpm		
2"	125 gpm	8"	1500 gpm		

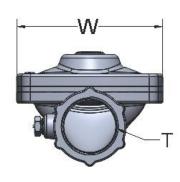


SMV6MPR Super Flow



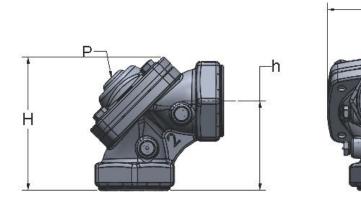
### **SMV DIMENSIONS**

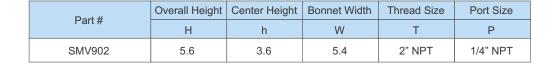




-W-

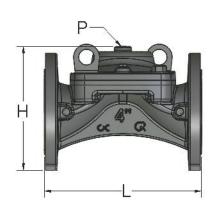
Dort #	Length	Height	Bonnet Width	Thread Size	Port Size
Part #	L	Н	W	T	Р
SMV75	5.1	2.7	4.0	3/4" NPT	1/4" NPT
SMV1	5.1	2.7	4.0	1" NPT	1/4" NPT
SMV1.25	6.5	3.7	4.7	1-1/4" NPT	1/4" NPT
SMV1.5	6.5	3.7	4.7	1-1/2" NPT	1/4" NPT
SMV2	7.3	4.2	5.4	2" NPT	1/4" NPT

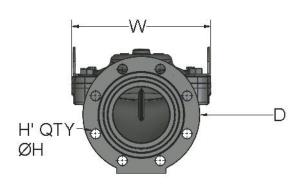


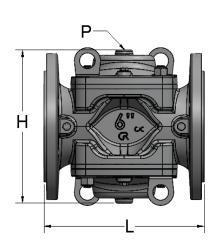


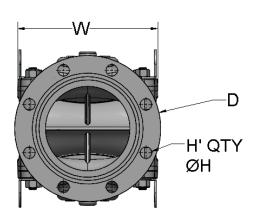


### **SMV DIMENSIONS**





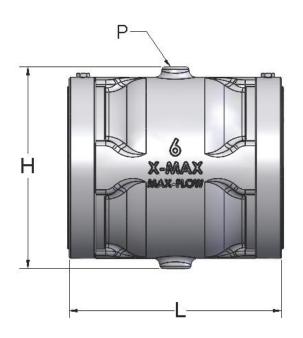


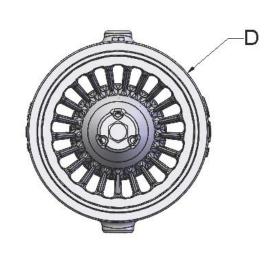


Part #	Length	Height	Bonnet Width	Flange Diameter	Bolt Qty	Bolt Hole Dia	Port Size
	L	Н	W	D	H'	ОН	Р
SMV3	11.7	8.4	10.6	7.8	4	3/4"	1/4" NPT
SMV4	11.9	9.4	10.6	9.0	8	3/4"	1/4" NPT
SMV6	12.1	11.8	10.6	11.0	8	7/8"	1/4" NPT
SMV8	14.0	15.7	12.0	13.5	8	7/8"	1/4" NPT



### X-MAX DIMENSIONS





Part #	Length	Height	Diameter	Port Size
Part #	L	Н	D	Р
XMAX4	7.8	7.2	6.5	1/4" NPT
XMAX6	10.1	9.6	8.6	1/4" NPT
XMAX8	12.1	11.9	10.9	1/4" NPT

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2025 / 2026

### 2025 POLICY AND CONDITIONS OF SALE

This statement of Policy and Conditions of Sales supersedes all previous Policy and Conditions as stated by **XCAD USA**\*, hereinafter collectively and individually referred to as the "Company". This will apply to all XCAD, Aqua Burst, Pressure Guard, X-Gate, Seal Matic and OEM made products sold by XCAD unless otherwise stated in writing.

#### Prices, Terms and Specifications

PRICING: Prices listed in our catalog are recommended list prices F.O.B. the "Company". Prices are subject to change without notice and shall be those in effect at time of shipment. All prices are in U.S. dollars.

DEALERS: Sales are made through authorized distributors, OEM's and/or dealers only. Possession of our catalog does not constitute an offer to sell our product. All orders are subject to acceptance by the "Company".

TAXES: The purchaser shall reimburse the seller for any sales, use, occupation, excise, or other taxes in connection with the sale, which will be charged by invoice. The purchaser will not be invoiced for tax on items that are exempt with an appropriate tax exemption certificate.

TERMS: All orders are subject to the approval and conditions of the "Company's" credit department. Payment terms are net 30 days unless otherwise specified in writing. Cash discounts, if applicable, will be stated on the invoice. Freight or other net priced items are not subject to further discount. Interest may be charged on all past due invoices at the current rate allowed by law. Any check returned for non-sufficient funds will be subject to a \$100.00 handling charge.

SPECIFICATIONS: The "Company" policy is one of continuous improvement. The "Company" reserves the right to make changes to designs or specifications without notice or incurring obligation.

CANCELLATION: Standard items may only be cancelled if request is made prior to shipment. Special or custom-made items may not be cancelled unless cancellation precedes the item being in the process of manufacture. Such cancellations will only be allowed after full costs expended in the process of manufacture have been fully reimbursed.

SECURITY INTEREST: Buyer acknowledges that the "Company" will retain a purchase money security interest in the goods sold until the purchase price has been paid in full and all other conditions of sale fully performed.

#### Freight, Returns and Delivery

DEALER FREIGHT ALLOWANCE: On orders equaling \$10,000 net or more, freight will be prepaid on domestic shipments (excluding X-Gate products and butterfly valves) to the first destination in the continental United States. The "Company" reserves the right to select the carrier and method of delivery. **Dealer only, does not apply to authorized distributors or OEM's**.

DAMAGE CLAIMS / SHORTAGES: Freight shortages and damage claims due to transportation shall be made directly to the transportation provider. Shipments should be carefully examined upon arrival, prior to delivery receipt being signed. If any loss or damage is evident, it should be noted on the delivery receipt. Have the driver initial such exceptions. The contents of all packages should be examined within 48 hours for concealed damage. Contact the carrier to arrange for the prompt inspection of any damaged goods. If replacement for damaged or lost items is needed, the purchaser will give the seller a new order marked "replacement for the same". The purchaser shall pay the invoices for such replacement and request a duplicate receipt to be filed with his claim against the carrier. All claims for shortages must be made within 10 days of receipt of shipment. Claims need to identify item, quantity, package list number, invoice number, and date of shipment.

RETURNS: The return of current catalog merchandise in saleable condition may be subject to a 25% restocking charge. All returns must be accompanied by a "Company" approved Return Authorization. Specials, non-current catalog items, custom fabricated or modified items will not be accepted for return. Items not listed in the current "Company" catalog or items purchased more than one year prior to the request date will not receive authorization. All returns must be shipped freight prepaid unless otherwise specified on the Return Authorization. Return parts may be subject to a rework charge. All returned merchandise will be credited to the purchaser's account unless otherwise specified on the Return Authorization.

DELIVERY: The "Company" accepts no liability for delay in delivery caused by circumstances arising beyond the control of the "Company". These circumstances include but are not limited to delays of carriers or suppliers.

#### Manufacturers Limited Warranty

All products sold and/or manufactured by the "Company" are warranted to be free of defects in material and workmanship for a period of one year from the date of delivery unless otherwise specified. Specific product line warranties may supercede this warranty. No warranty will extend beyond the description of goods sold on the "Company" invoice. Except as expressly provided herein, all warranties expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose or use, are hereby excluded and disclaimed. The buyer assumes all risk and liability resulting from use of products purchased. Any misuse, neglect, modifications or use for purposes not approved by the "Company" shall completely void any warranty claim. The "Company" at it's sole discretion shall have the option to repair or replace, part or all of the defective product or provide full or partial refunds for same. Any warranty claim must be made in writing within the applicable warranty period and postmarked within 30 days after the discovery of the defect. Warranty does not include any installation, attorney fees or transportation costs, which must be borne by the purchaser. "Company" reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.



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### 2025 POLICY AND CONDITIONS OF SALE

#### XCAD USA® Standard Warranty & Disclaimer

XCAD USA\* products are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working conditions and specifications for which the product was designed and under normal use and service. The XCAD USA\* /company assumes no responsibility for installation, removal or unauthorized repair. The company liability under this warranty is limited only to replacement or repair of defective parts, product or part of product. The manufacturer will not be liable for any crop loss or other consequential damages resulting from any defects in design or breach of warranty. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness for particular purposes and of all other obligations or liabilities of manufacturers. No agent, employee or representative of the company has authority to waive, alter or add to the provisions of warranty, nor to make representations or warranty not contained herein. XCAD USA\* /Company reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.

## XCAD USA\* Extended Warranty & Disclaimer Aqua Burst\* Brass Impact 3-Year Bearing Warranty on Select Models AL30, HF-30, HF30AL

Select Aqua Burst® Brass Impact Sprinklers carry a three-year bearing limited warranty. This warranty applies to the Aqua-Burst® brass impact sprinkler bearings and bearing components which are installed as specified and used for normal irrigation purposes. This warranty applies only to cataloged brass impact sprinkler bearings which have not been altered, converted, damaged, misused or misapplied. This warranty does not cover products adversely affected by the system into which the sprinkler bearings are incorporated; including system failure, improperly designed, installed, operated or maintained systems, or systems using water containing corrosive chemicals, electrolytes, sand, dirt, silt, rust, oil, petroleum or hard water deposits. This warranty does not cover component failures caused by use of additional lubricants such as oil, grease, anti-seize, pipe dope or any other petroleum or non-petroleum based lubricant. This warranty does not cover failure caused by lightning strikes, electrical surges, freezing or any 'Acts of God". Bearings on, or intended for all other Aqua Burst® brass, plastic and zinc sprinklers are not included in this extended warranty. The **XCAD USA**® reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.

### Aqua Burst™ X-Series Full/Part Circle Brass Impact 2-Year Warranty on Select Models X25ED, X25EDS, X35ED, X65ED, X65EDS, X85ED18, X85ED24, X75 Black Bird™

Select Aqua Burst X-Series Full/Part Circle Brass Impact Sprinklers carry a two-year extended limited warranty. This warranty applies only to X-Series Full/Part Circle sprinklers listed above which are installed as specified and are used for normal irrigation uses and purposes. This warranty does not cover products adversely affected by the system into which the sprinklers are incorporated including, system failure, improperly designed, installed, operated or maintained systems, or systems using water containing corrosive chemicals, electrolytes, sand, dirt, rust, oil, petroleum or hard water. This warranty does not cover component failures caused by use of additional lubricants such as but not limited to oil, grease, anti-seize, pipe dope or any other petroleum or non-petroleum lubricant. This warranty does not cover failure caused by lightning strikes, wind damage, electrical surge, pivot and wheel line crashes, industrial accidents, freezing or any "Acts of God". The XCAD USA\* reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.

#### Seal-Matic® Warranty and 3-Year Limited Warranty

All Seal Matic\* valves and Seal Matic\* OEM name plate valves are warrantied to be free of defects in materials and workmanship for a period of one year or one season whichever is less from the date of delivery unless otherwise specified in writing. Specific OEM warranties may supersede this warranty. No warranty will extend beyond the description of goods sold on the "Company" invoice except as expressly provided herein. All warranties express or implied, including any implied warranty of mechanical ability or suitability for a particular purpose or use, are hereby excluded and disclaimed. The Buyer assumes all risk and liability resulting from use of "Company" products purchased. Any misuse, neglect, modifications or use for purposes not approved by standard practice of the "Company" shall be completely void of any warranty claims. The "Company" at it's sole discretion shall have the option to determine whether to warranty, repair or replace, part or all of the defective product or provide full or partial refund for same. Any warranty claim must be made in writing within the applicable warranty period and postmarked within 30 days after the discovery of the defect. Warranty does not under any circumstances include any installation, attorney fees, or transportation costs which must be borne by the purchaser of "Company" product. Seal-Matic\* valve diaphragms have a limited warranty for three years for replacement diaphragms only. The XCAD USA\* reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.

Aqua Burst® X100 End Gun® and SX100 End Gun® One-Year limited Warranty with Two-Year Service Plan XCAD USA®/Aqua Burst® X100 End Gun® and SX100 End Gun® sprinklers are warrantied for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and intended and under normal use and service. This warranty includes an additional three (3) year service plan from the date of purchase for repair of any non-functioning X100 End Gun® and/or SX100 End Gun® due to defective materials and workmanship or excessive wear when used in normal working conditions. Dated receipt with serial number required as proof of purchase. The manufacturer's liability under this warranty is limited solely to repair of defective parts and labor and the manufacturer will not be liable for any freight, crop loss or other consequential damages resulting from defects, excessive wear or breach of warranty. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and or liabilities of the manufacturer. No agent, employee or representative of the manufacturer has the authority to waive, alter or add to the provisions of this warranty, nor make any representations or warranty not contained herein. The XCAD USA® reserves the right to define this warranty or any other warranty of the "Company" as it sees fit.

Address all warranty claims to:

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P.O. BOX 578
PAUL, ID 83347
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Irrigation Innovation Through Design, Engineering and Experience™

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Market Valve

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AXIS-SKY

End of Pivot Sprinkler

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GX Series<sup>™</sup> Butterfly Valves

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