### SELECTOR GUIDE

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		СС	ONTR	OL O	ρτιο	NS		м	DUN	ΓING	ΟΡΤΙ	ONS		DEGRE	ES OF	CER	TIFIC	ATIC	ONS		ATER			
Ξ	N	lanua	al						Nobi	le	Stati	onary												
Max. GPM (LPM)	Dual Hand-wheel	Single Hand-wheel	Tiller	Hydraulic	Electric	Wireless (RF)	EXM Tehcnology	Portable	Wheeled Cart	Apparatus	Fixed Installation	Elevated	Integral Ball Valve	Vertical	Horizontal	CE	Class I, Div 1	Class I, Div 2	FM Approved	Brass	Elk-O-Lite <sup>®</sup>	Stainless Steel	MONITOR SERIES	PAGE
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1500 (5678)					•	•	•			•	•			165°	350°						•		Cobra™ EXM 7250	5-4
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25 (94											•			150°	360°	•			٠			•	Giant Python	5-46
3000 (11355)					•	•	•			•	•			135°	350°						•		SkyStream™ EXM	5-8

DIMENSIONAL ABBREVATIONS KEY:

D.L. = Discharge Length

H.H. = Handle Height

H.S.R. = Handle Swing Radius

M.H. = Monitor Height O.H. = Overall Height

O.L. = Overall Length

P.H. = Pivot Height

P.R. = Pivot Radius

W. = Width

### **ADDITIONAL INFORMATION**

• Elkhart has trademarked the Elk-O-Lite' name for our proprietary aluminum alloy (cast alloy #356-A).

### SYMBOLS

### THREADS

GPM • *L* PSI

• Denotes flow or pressure rating

• Throughout the monitor section, all threads – unless otherwise specified – are NHT. Additional thread information may be found on page T-13.

ELKHART BRASS MFG. CO., INC. • 800.346.0250 • 1.574.295.8330 • FAX: 574.293.9914 • www.elkhartbrass.com

### SIDEWINDER® EXM



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# Sidewinder EM

The Sidewinder EXM monitor is specially designed for severe duty cycles. Unique waterway swivel joints utilize stainless steel thrust rods, and axially aligned thrust bearings for unprecedented durability in mining, construction, and wildland firefighting applications. The monitor can be controlled by hardwired input devices via CAN bus J1939, or by an optional Radio Frequency (RF) device. The monitor may be powered with 12 or 24 volts.

- 700 GPM flow
- Sealed to NEMA 4
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum allog
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation
- Integrated water valve control



### SIDEWINDER® EXM

	SPECIFICATIONS
Model	7100
Max Flow	700 GPM (2650 LPM)
Max Pressure	SD: 250 PSI (17.2 bar) continuous duty
	HD: 500 PSI (34.5 bar) continuous duty
Inlet	2.5" NPT, 2.5" BSPT
Outlet	2.5" Male NHT, 2.5" BSPP
Travel	V: -45° to +90° (135°)
	H: L175 to R175 (350°)
Voltage	11-27 VDC
Control	CAN bus (J1939)
Communication	2.4 Ghz digital radio frequency (unlicensed)
Material/Finish	Teflon impregnated, hard anodized Elk-O-Lite®
Swing Radius	SD: 7.92" / HD: 8.38"
Stow Height	13.21″
Weight	SD: 18 lbs. (8.16 kg.)
	HD: 19.5 lbs. (8.84 kg.)



Sidewinder® EXM Mo. 7100 HD

### **Recommended Products**

Panel Mount	Handheld	Joystick	OEM Interface Module	Position Display	6000 Series Nozzle	Light Kit	Quick Connect
	(3)	(4)		(6)	(7)	(8)	(9)

### **Components & Options Chart**

	COMPONE	INTS & OPTIONS	ILLUSTRATION	MODEL
Electric Nozzles	Selectable	15/30/45/60/95/125/150/200/FLUSH GPM	7	6000-200E
Electric Nozzles	Selectable	250/350/500/700/FLUSH GPM	7	6000-700E
	EXM Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM enabled component.	2	7010
Controllers	EXM Handheld Controller Kit	This package includes the panel mount controller (7010), handheld conversion kit (7020), & RF transceiver module (7061). Comes pre-assembled, configured, and ready to use.	3	7015
	EXM Joystick Controller	Joystick operator control unit suitable for connection to an EXM OEM Interface Module.	4	7030
	EXM Position Display Module			7051
Modules	EXM OEM Interface Module (Wireless RF & CAN)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	Not Pictured	7072
	EXM OEM Interface Module (Wired CAN only)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	5	7073
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095
	External RF Antenna	10 ft extension for 7072 OEM Interface module	Not Pictured	7062
Accessories	2.5" Quick Connect	Allows for quick removal of the monitor	9	7150
	Light Kit	150w LED spot/flood from FRC. Operate and position from any Sidewinder EXM control device.	8	7080



COBRA™ EXM

# Cobra™ EM

The Cobra<sup>™</sup> EXM monitor is specially designed to be compact, providing a greatly reduced swing radius. Unique waterway swivel joints utilize stainless steel thrust rods, and axially aligned thrust bearings for unprecented durability in a range of applications. The Cobra<sup>™</sup> EXM utilizes a cast, vaned waterway to minimize large-scale turbulence. The monitor can be controlled by hardwired input devices via CAN bus J1939, or by an optional Radio Frequency (RF) device. The monitor may be powered with 12 or 24 volts.

- Extended Travel Lockout
- 1250 or 1500 GPM flow
- Industry leading 6" swing radius
- Available in standard or heavy duty motor configurations
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation
- Integrated water valve control



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	SPECIFICATIONS							
Model	7200 / 7250							
Max Flow GPM (LPM)	1250 (4731) / 1500 (5678)							
Max Pressure	SD: 250 PSI (17.2 BAR) continuous duty							
	HD: 500 PSI (34.5 BAR) continuous duty							
Inlet	3"-150# Flg, 4"-150# Flg, 3" NPT, 3" BSPT, & DN80-PN16							
Outlet	2.5" / 3.5" Male NHT & BSPP							
Travel	V: -45° to +90° (135°)							
	V: -45° to +120° (165°) with Extended Travel							
	H: L175 to R175 (350°)							
Voltage	11-27 VDC							
Control	CAN bus (J1939)							
Communication	2.4 Ghz digital radio frequency (unlicensed)							
Material/Finish	Teflon impregnated, hard anodized Elk-O-Lite®							
Swing Radius	6" (180°), 8" (360°)							
Stow Height	16.75″							
Weight	31 Lbs.							



<u>Cobra™ EXM</u> Mo. 7250 SD

### **Recommended Products**

Panel Mount	Handheld	Joystick	OEM Interface Module	Position Display	X-Stream Series Nozzle	Light Kit	EXM CAN Stow Module
	(3)	(4)		(6)		(8)	(9)

### **Components & Options Chart**

	COMPONE	INTS & OPTIONS	ILLUSTRATION	MODEL
		2.5" Inlet: 350-1000 GPM (1325-3785 LPM)	7	SM-1000E
Electric Nozzles	X-Stream Series Automatic	2.5" Inlet: 350-1250 GPM (1325-4731 LPM)	7	SM-1250E
	Automatic	3.5" Inlet: 500-1500 GPM (1893-5678 LPM)	7	SM-1500E
	EXM Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM enabled component.	2	7010
Controllers	EXM Handheld Controller Kit	This package includes the panel mount controller (7010), handheld conversion kit (7020), & RF transceiver module (7061). Comes pre-assembled, configured, and ready to use.	3	7015
	EXM Joystick Controller	Joystick operator control unit suitable for connection to an EXM OEM Interface Module.	4	7030
	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	6	7051
Modules	EXM OEM Interface Module (Wireless RF & CAN)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	Not Pictured	7072
	EXM OEM Interface Module (Wired CAN only)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	5	7073
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	9	7095
	External RF Antenna	10 ft extension for 7070 OEM Interface module	Not Pictured	7062
Accessories	Light Kit	150w LED spot/flood from FRC. Operate and position from any Cobra EXM control device.	8	7083

SCORPION® EXM



Scorpion<sup>®</sup> EM

The Scorpion EXM monitor is specially designed for severe duty cycles. Unique waterway swivel joints utilize stainless steel thrust rods, and axially aligned thrust bearings for unprecedented durability in all firefighting applications. With its 3.5" vaned waterway, the Scorpion EXM provides large flow with minimal turbulence. The monitor can be controlled by hardwired input devices via CAN bus J1939, or by an optional Radio Frequency (RF) device. The monitor may be powered with 12 or 24 volts.

- 2500 GPM flow
- Large range of travel: -45° to +90° vertical & L175° to R175° horizontal (up to -80° or +120° vertical travel achievable with max travel of 135°)
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation
- Integrated water valve control



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SPEC	FICATIONS
Model	7400
Max Flow	2500 GPM (9463 LPM)
Max Pressure	500 PSI (34.5 bar)
Inlet	4" ANSI, DN100
Outlet	3.5" Male NHT & BSPP
Travel	V: -45° to +90° (135°)
(Factory Settings)	H: L175 to R175 (350°)
Voltage	11-27 VDC
Control	CAN bus (J1939)
Communication	Digital radio frequency
	(unlicensed)
Material/Finish	Teflon impregnated, hard
	anodized Elk-O-Lite®
Stow Height	20″
Weight	52 Lbs.



### **Recommended Products**

Panel Mount	Handheld	Joystick	OEM Interface Module	Position Display	X-Stream Series Nozzle	Light Kit	External RF Antenna
	(3)	(4)	(5)	(6)	(7)	(8)	

### **Components & Options Chart**

	COMPONE	NTS & OPTIONS	ILLUSTRATION	MODEL
Electric Nozzles	X-Stream Series	3.5" Inlet: 350-1250 GPM (1325-4731 LPM)	7	SM-1250E
Electric Nozzies	Automatic	3.5" Inlet: 500-2000 GPM (1893-7571 LPM)	7	SM-2000E
	EXM Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM enabled component.	2	7010
Controllers	EXM Handheld Controller Kit	This package includes the panel mount controller (7010), handheld conversion kit (7020), & RF transceiver module (7061). Comes pre-assembled, configured, and ready to use.	3	7015
	EXM Joystick Controller	Joystick operator control unit suitable for connection to an EXM OEM Interface Module.	4	7030
	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	6	7051
Modules	EXM OEM Interface Module (Wireless RF & CAN)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	Not Pictured	7072
	EXM OEM Interface Module (Wired CAN only)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	5	7073
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095
	External RF Antenna	10 ft extension for 7070 OEM Interface module	9	7062
Accessories	Light Kit	150w LED spot/flood from FRC. Operate and position from any Scorpion EXM control device.	8	7085

### SKYSTREAM™ EXM



# SkyStream™

Taking the Scorpion EXM to the next level, the SkyStream EXM increases the flow capability to 3000 GPM (11355 LPM). With it's 5" NHT outlet, the SkyStream delivers best in class flow that provides a reach of up to 120 meters, making it ideal for use with fire apparatus, industrial pumper, and aerial vehicles.

- 3000 GPM flow
- Large range of travel: -45° to +90° vertical & L175° to R175° horizontal
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation
- Integrated water valve control



SPEC	FICATIONS
Model	7500
Max Flow	3000 GPM (11355 LPM)
Max Pressure	500 PSI (34.5 bar)
Inlet	4" ANSI, DN100
Outlet	5" Male NHT
Travel	V: -45° to +90° (135°)
(Factory Settings)	H: L175 to R175 (350°)
Voltage	11-27 VDC
Control	CAN bus (J1939)
Communication	Digital radio frequency
	(unlicensed)
Material/Finish	Teflon impregnated, hard
	anodized Elk-O-Lite®
Stow Height	28.6″
Weight	57.7 Lbs.



### **Recommended Products**

Panel Mount	Handheld	Joystick	OEM Interface Module	Position Display	Smooth Bore Nozzle	Light Kit	External RF Antenna
	(3)	(4)				(8)	

### **Components & Options Chart**

	COMPONE	NTS & OPTIONS	ILLUSTRATION	MODEL
Nozzles	Smooth Bore	17″ long, custom 2 3/4″ Smooth Bore Nozzle for use with the SkyStream™ EXM.	7	181-5A
	EXM Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM enabled component.	2	7010
Controllers	EXM Handheld Controller Kit	This package includes the panel mount controller (7010), handheld conversion kit (7020), & RF transceiver module (7061). Comes pre-assembled, configured, and ready to use.	3	7015
	EXM Joystick Controller	Joystick operator control unit suitable for connection to an EXM OEM Interface Module.	4	7030
	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	6	7051
Modules	EXM OEM Interface Module (Wireless RF & CAN)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	Not Pictured	7072
	EXM OEM Interface Module (Wired CAN only)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	5	7073
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095
	External RF Antenna	10 ft extension for 7070 OEM Interface module	9	7062
Accessories	Light Kit	150w LED spot/flood from FRC. Operate and position from any Scorpion EXM control device.	8	7085

SIDEWINDER® EXM UHP



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# Sidewinder EM UHP

Taking the Sidewinder EXM to the next level, Elkhart's 7161 Sidewinder EXM Ultra-High Pressure (UHP) monitor has been designed and developed to meet U.S. Air Force specifications, and is now being offered for all other UHP needs; including Aircraft Rescue & Fire Fighting (ARFF).

- 1500 PSI pressure
- Extreme Torque Motors
- Sealed to NEMA 4
- Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation



SPEC	IFICATIONS
Model	7161
Max Flow	300 GPM (1136 LPM)
Max Pressure	1500 PSI (103 bar)
Inlet	2.5" NPT
Outlet	1.5" NHT
Travel	V: -45° to +90° (135°)
	H: L90 to R90 (180°)
Voltage	11-27 VDC
Control	CAN bus (J1939)
Communication	Digital radio frequency
	(unlicensed)
Material/Finish	Teflon impregnated, hard
	anodized Elk-O-Lite®
Weight	27 Lbs.



### **Recommended Products**

Panel Mount	Handheld	Joystick	OEM Interface Module	Position Display	5000-14E UHP Nozzle	EXM CAN Stow Module
	(3)	(4)		(6)	(7)	

### **Components & Options Chart**

	COMPONE	INTS & OPTIONS	ILLUSTRATION	MODEL
Electric Nozzle	Fixed	60 GPM (227 LPM) with Flush	7	5000-14E UHP
	EXM Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM enabled component.	2	7010
Controllers	EXM Handheld Controller Kit	This package includes the panel mount controller (7010), handheld conversion kit (7020), & RF transceiver module (7061). Comes pre-assembled, configured, and ready to use.	3	7015
	EXM Joystick Controller	Joystick operator control unit suitable for connection to an EXM OEM Interface Module.	4	7030
	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	6	7051
Modules	EXM OEM Interface Module (Wireless RF & CAN)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	Not Pictured	7072
	EXM OEM Interface Module (Wired CAN only)	EXM system interface - allows connection of model 7030 Joystick or other simple OEM supplied electromechanical switches to EXM system.	5	7073
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned mointor.	8	7095
Accessories	External RF Antenna	10 ft extension for 7070 OEM Interface module	Not Pictured	7062



LEGACY RF MONITORS

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# Legacy RF Monitors

The RF series of Elkhart Brass monitors helped pave the way for wireless control of water cannons. This technology allowed operators to control master stream flow from multiple controller locations, including up to a quarter mile away utilizing a handheld controller.

As wireless technology continues to evolve, Elkhart Brass has improved the capabilites of the wireless monitor with the EXM platform. The flexibility of the EXM platform (wireless control and/or hard-wired control via CAN bus) takes what was great about the RF series and adds valve control, improved flow efficiency, and upgraded wireless technology. The EXM system also allows for user programmable 3D Travel Limits, Keep-Out Zones, Travel Speeds, Stow Position, and Multi-axis Oscillation.

As a result of the continued success of the EXM platform, the RF series of monitors shown below are no longer available **for order.** 

Please use the guide on the following page to select the recommended replacement for your RF product.



### RECOMMENDED RF REPLACMENT GUIDE





# Sidewinder<sup>®</sup> Electric

- Allows for more effective use of personnel while reducing the potential risk of injury — controls can be mounted inside vehicle
- Designed for wildland firefighting, de-icing, and dust abatement operations
- Weather-tight connectorized harness
- Epoxy encapsulated control module
- Available in 12V or 24V for DC operation
- Available with either a low-cost toggle box controller or full-sized joystick with integrated water valve trigger
- Double ball races with stainless steel bearings
- Available high speed water valve kit operates from joystick trigger

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### SIDEWINDER® ELECTRIC

SPECIF	ICATIONS		
Max. GPM (LPM)	500 (1893)		
Inlet	Size	Туре	
	2″	NPT (F)	
Outlet	1.5" NHT		
Controls	Electric		
Material/Finish	Elk-O-Lite® w	ith red	
Waterial/Thilisti	urethane enamel		
	26 psi at 500 gpm		
Friction Loss	13 psi at 350 gpm		
	3.9 psi at 200 gpm		
Travel	V -45° to +90	° (135°)	
	H 180° or 334	1°	
Weight	16.5 Lbs.		
Max. Power	3.0 Amps at	12V DC	
Requirement	(24V opt)		
Ratings and	CE		
Certifications			

	KEY CONFIG	URATIONS (AC	CESSORIES)
	TOGGLE CONTROL BOX (9)	JOYSTICK CONTROL BOX (8)	VALVE (4)
-	QUICK CONNECT (10)	CONTROL MODULE (12)	



### ADDITIONAL INFORMATION

Technical Data on monitor performance may be found on page T-11.





### SIDEWINDER® ELECTRIC

# MONITORS

### Sidewinder<sup>®</sup> Electric Selector Guide

INLET SIZE / TYPE	OUTLET SIZE	HORIZ TRA		-	ONTAL EED		FICAL EED	CON MOE VOLT	OULE		BASES	CERTIFICATION	MODEL
2.0″ NPT	1.5″	180°	334°	Fast	Slow	Fast	Slow	12V DC	24V DC	2.0″ NPT	2" NPT Quick Connect (Elk-O-Lite®)	CE	
•	•	S	0	0	s	0	S	S	0	s	0	•	8494-01
											10		Illustration

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & C	OPTIONS		ILLUSTRATION	MODEL
	Selectable Gallonage	15/30/45/60/95/125/150/200 GPM	14	6000-200E*
		15, 30, 45 GPM (specify)		5000-04
	Fixed Gallonage	60, 95, 125, 150 GPM (specify)	11	5000-14
Electric Nozzles		175, 200, 250, 350, 400, 475 GPM (specify)		5000-24
	Automatic	20 - 120 GPM	13	SM-10FE
	Toggle Box	With valve on/off control	9	
Operator Controls	Joystick	With toggle for water on/off plus integrated water valve trigger	8	
	Control Module	With 6" power harness. Specify operating voltage (12V or 24 V)	12	
Monitor Control Module Assembly	Monitor to Control Module Harness	1', 5' or 30' length ( <i>specify</i> ) Note: These harnesses may be combined for intermediate length - i.e., 5+5+1=11' length	2	
	Operator (Joystick or Toggle) box to Control Module Harness	12' or 50' length ( <i>specify</i> )	3	
	2" Valve	High speed 2920E 2" valve	4	81181001
	Valve End Caps	Available inlet and outlet options are the same as those offered on the 2920E series of valves, please see page 8-23 (FNPT end caps are standard)		
Valve Kit	Valve Control Module	With 6" power harness. Specify operating voltage (12V or 24 V)	5	
	Valve Control Module to Valve Harness	5', 10', 20', 30', or 40' length ( <i>specify</i> ) Note: These harnesses may be combined for intermediate length – i.e., 5+10=15' length	6	
	Valve Control Module to Operator (Joystick or Toggle) Harness	Optional. 1', 3', 5', 10' or 25' length ( <i>specify</i> )	7	
Dust Cover for Quick Connect Bases		Aluminum 3" x 3" push plug with stainless steel chain and safety tether. Used with either the Quick Connect (to keep contaminants out of the waterway and seal) or the harness connector (to keep contaminants out of the plug assembly).		

\*Only available for use with 12V monitor option

#### **Recommended Products**

5000-14	SM-10FE	281-A	187CAF -	6000-200E*
ELECTRIC NOZZLE	DE-ICING NOZZLE	STREAM SHAPER	SMOOTH BORE	ELECTRIC NOZZLE
(11) Page 6-4	(13) Page 6-4	Page 1-27	Page 1-29	(14)

**SIDEWINDER®** 

# **Sidewinder**<sup>®</sup>

- Compact under 9" wide and requiring just 16" of clearance; perfect for wildland, dust abatement or small apparatus use — anywhere space is at a premium
- Designed specifically for the rigors of wildland and construction use
- 2" fully-vaned waterway
- Customizable gpm and pressure can be customized through nozzle selection
- Fast-action tiller control
- Double-ball races with stainless steel bearings

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### **SIDEWINDER®**

**Ratings and** Certifications

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SPECIF	ICATIONS			
Max. GPM (LPM)	500 (1893)			
Inlet	Size	Туре		
	2″	NPT (F)		
Outlet	1.5" NHT			
Control	Tiller			
Materials/Finishes	Brass or Elk-O-Lite <sup>®</sup> with			
Waterials/Fillisties	red urethane enamel			
	26 psi at 500 gpm			
Friction Loss	14 psi at 350 gpm			
	4 psi at 200 gpm			
Travel	V -45° to +90			
ITavei	H 360° (continuous)			
Weight	Variable			
weight	(see chart for specifics)			

**DIMENSIONS & LAYOUT** 

(see chart for specifics)



### Sidewinder<sup>®</sup> Selector Guide

INLET SIZE/ TYPE	OUTLET SIZE	MA	MATERIALS BASES				MATERIALS			
2.0″ NPT	1.5″	Brass	Elk-O-Lite®	2" NPT	2" NPT Quick Connect (Brass)	2″ NPT Quick Connect (Elk-O-Lite®)	Weight (Lbs.)	MODEL		
•	•		•	s		0	16	8492		
•	•	•		S	0		48	8392		
					2	2		Illustration		

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & OPTIONS						
Dust Cover for Quick Connect Bases	Aluminum 3" x 3" push plug with stainless steel chain and safety tether. Used with either the Quick Connect (to keep contaminants out of the waterway and seal) or the harness connector (to keep contami- nants out of the plug assembly).					

#### **Recommended Products**



#### 5-18

# W. 9.71" (24.66 cm) O.H. 21.87" (55.55 cm) M.H.16.34" (41.50 cm) P.H. 9.34" (23.72 cm) H.S.R. 14.34" (36.42 cm) (1)

### **ADDITIONAL INFORMATION**

Technical Data on monitor performance may be found on page T-11.

### SCORPION® ELECTRIC

# MONITORS

# **Scorpion**<sup>®</sup> Electric

- Allows for more effective use of personnel while reducing the potential risk of injury
- Efficient at high flows 4" fully -vaned waterway
- Extremely reliable system with built-in safety features:
  - Motors and control system components sealed to NEMA 4 rating
  - 10 vertical and 39 horizontal adjustable stop positions in the aluminum construction, while brass construction features 10 vertical and 7 horizontal adjustable stop positions
  - Electronic controls with manual override
- Easy installation monitor comes with:
  - NEMA 4 rated connectors
  - NEMA 4 rated controller
- Optional one-button automatic stow with choice of stow position (up or down) and output signal type (pulse or continuous)

Nine all

Liquid-filled pressure gauge

Shown with optional pressure gauge

Fully-vaned waterway for low friction loss and optimum stream quality

> Choice of corrosion resistant Brass or lightweight Elk-O-Lite® construction

2000 GPM

r F

200 PSI 5-19



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SPECIFICATIONS					
Max. GPM (LPM)	2000 (7570)				
	Size	Туре			
Inlet	4″	150# ANSI Flange			
Outlet	3.5" NHT				
Controls	Electric				
Material/Finish	Brass or Elk-O-Lite® with red urethane enamel				
Friction Loss	39 psi at 2000 gpm				
	15 psi at 1250 gpm				
Travel	V -45°	to +90° (135°)			
Havei	H 347°				
Weight	Variable (see chart for specifics)				
Ratings and Certifications	CE				



**CONTROL (6)** 

**CONTROL (3)** 

HAND HELD **RECEPTACLE (7)** 

6

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#### **ADDITIONAL INFORMATION**

• Marine Brass (85-5-5-5) construction is available. Please inquire with our sales staff.

• Technical Data on monitor performance may be found on page T-11.

#### ELKHART BRASS MFG. CO., INC. • 800.346.0250 • 1.574.295.8330 • FAX: 574.293.9914 • www.elkhartbrass.com

### Scorpion<sup>®</sup> Electric Selector Guide

INLET SIZE/ TYPE	OUTLET SIZE	CONTROL MODULE VOLTAGE	MATERIALS		CERTIFICATION		
4" 150# ANSI Flange	3.5″ NHT	12V DC	Brass	Elk-O-Lite®	CE	WEIGHT (Lbs.)	MODEL
S	•	•		•	•	43	8294-04
			1	1			Illustration

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & OPTIONS	ILLUSTRATION	MODEL	
	Panel Mount Controller	3	81339001
	Panel Mount Controller with Stow – adds stow button	5	81421001
Operator Controls	Aerial Switch Box Controller	2	81340001
	Joy Stick Controller – operator control	4	
	Hand-held remote control (includes receptacle)	6	81309001
Relay Control Box	Allows the monitor to interact with the operator control	9	81480001
Optional Control	Hand held control receptacle	7	81242001
24V Converter	24V to 12V		81093001
Auxiliary Battery Pack	Back-up to truck power (12V)	8	81466001
Companion Flange Kit	4" 150# ANSI steel flange with bolts and gaskets		81317001

### **Recommended Products**

SM-2000E – X-STREAM®	SM-2000BE – X-STREAM®	ST-195 – STACKED TIP	181-3 – DELUGE TIP	284A/B – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
	Ē				<b>Q</b>
Page 6-7	Page 6-7	Page 1-29	Page 1-29	Page 1-27	5-59

### **Product Highlights**

The Scorpion® Electric provides two user selectable settings – stow position and stow signal output.

- The programmable options for the stow position are: 1) discharge up and 2) discharge down.
- The programmable options for stow signal output are: 1) no output until sequence is complete (for use as aerial interlock) and 2) flashing on/off signal during travel with steady signal when complete (for in-cab notification).



# Scorpion<sup>®</sup>

- Lightweight Elk-O-Lite<sup>®</sup> construction makes this monitor perfect for aerial applications
- Efficient at high flows 4" fully vaned waterway
- Choice of manual controls
  - Dual hand-wheel style delivers:
    - Full 360° horizontal rotation while allowing the lower hand-wheel to remain stationar
    - 10 vertical and 39 horizontal adjustable stop positions
  - Tiller, in the "Big Stick<sup>®</sup>" style, allows vertical and horizontal travel to be conveniently controlled with one handle
- Low maintenance
  - Stainless steel balls in all swivel joints with grease fittings
  - Fully enclosed gearcase
  - Steel worm gears
- 5-22 Liquid-filled pressure gauge

Pressure gauge

Steel worm gears

Choice of manual controls — dual hand-wheel or tiller

Fully vaned waterway





### **SCORPION®**

SPECIFICATIONS					
Max. GPM (LPM)	2000 (7				
	Size	Туре			
Inlet	4″	150# ANSI Flange			
Outlet	3.5″ N				
Controls	Dual hand-wheel				
	"Big Stick®"				
Material/Finish	-	ite <sup>®</sup> with red urethane enamel			
Friction Loss		at 2000 gpm			
		at 1250 gpm			
Travel	V -45° to +90° (135°)				
	H 360°				
Weight	38 Lbs.				
Ratings and Certifications	CE				



### Scorpion<sup>®</sup> Selector Guide

INLET SIZE/ TYPE	OUTLET SIZE	CONTROLS		CERTIFICATION	MODEL
4" 150# ANSI Flange	3.5″ NHT	Dual Big Stick® Hand-wheel (Tiller)		CE	
s	•	•		•	8294-02
s	•		•	•	8294-131
		1	2		Illustration

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & OPTIONS	MODEL	
Companion Flange Kits	4" 150# ANSI steel flange with bolts and gaskets	81317001

# CONFIGURATIONS (ACCESSORIES)

KEY

(TILLER) "BIG STICK®" (2) STYLE

**Recommended Products** 

SM-2000HF – SELF-EDUCTING	SM-1250 – X-STREAM <sup>®</sup>	CSW-L – SELECT-O-FLOW <sup>®</sup>	284-A – STREAM SHAPER	181-3A – DELUGE TIP	84 – BUTTERFLY WAFER VALVE
					<b>P</b>
6-16	Page 6-7	6-13	Page 1-27	Page 1-29	5-59

### **ADDITIONAL INFORMATION**

Technical Data on monitor performance may be found on page T-11.

**RAPID ATTACK MONITOR – R.A.M.®** 



# R.A.M.<sup>®</sup>

- Easily deployed and operated by a single firefighter
- Patent pending hydraulic stability system harnesses reaction force to stabilize the monitor
- Four fold-out forged aluminum legs with carbide-tipped ground spikes extend to the largest footprint in its class for exceptional stability
- Rear ground spikes are angled to help carbide tips grip the surface
- Lock pin holds valve in a closed position to prevent accidental opening. allowing the R.A.M. to be carried attached to a charged line
- Patent pending design lowers friction loss and produces consistent stream quality in all ranges of motion
- Can be stored pre-connected
- Ergonomic U-shaped valve handle
- Attached safety strap includes storage pouch



5-24

### RAPID ATTACK MONITOR – R.A.M.®

SPECIFICATIONS						
Max. GPM (LPM)	500 (1893)					
Inlet	Size	Туре				
iniet	2.5″	NHT (F)				
Outlet Size	2.5" NHT					
Controls	Manual					
Material/Finish	Elk-O-Lite <sup>®</sup> with red urethane enamel					
Friction Loss	9.5 psi at 500 gpm					
	5.8 psi at 400 gpm					
	V +20° to +63° (4	l3° – manned)				
Travel	V +35° to +63° (2	28° – unmanned)				
	H 20° in both directions (40°)					
Weight	17 (Lbs.)					
Ratings and Certifications	CE					





#### **ADDITIONAL INFORMATION**

- Technical Data on monitor performance may be found on page T-11.
- Please inquire with our sales staff for additional thread options.



### **Recommended Products**

R.A.N.™	ST-197A STACKED TIP	181-A DELUGE TIP	282-A - MINI STREAM SHAPER	HF-500A HYDRO FOAM	Oscillating R.A.N.™
(3)		(5)	(6)		(8)
Page 6-5	Page 1-29	Page 1-29	Page 1-27	6-16	

### **Components & Options Chart**

	ILLUSTRATION	MODEL		
	Fixed	500 GPM (1893 LPM)	3	3896
R.A.N.™ Nozzle	Selectable	250/350/500 GPM (946/1325/1893 LPM)	3	3895
	Oscillating	500 GPM (1893 LPM)	8	3890
Self-Educting Nozzle	Fixed	500 GPM (1893 LPM) with configurable $\frac{1}{2}$ , 1, or 3% foam proportioning.	7	HF-500A
	Triple Steels Tip	Outlets: 1", 1 ¼", & 1 ½"	4	ST-197-A
Smooth Bore Nozzle	Triple Stack Tip	Outlets: 1 ¼", 1 ¾", & 1 ½"	4	ST-197-A
NOLLIC	Deluge Tip	Outlet: 1 3/8"	5	181-A
	Mini Stream Shaper	For use with R.A.M. smooth bore nozzles	6	282-A Mini
Accessories	Mounting Bracket	Truck storage mounting bracket for R.A.M.	2	8296-MB

### **Product Highlights**

### **ACTIVE SAFETY SYSTEM**

 Should a firefighter stumble, slip or otherwise lose his grip on the R.A.M.<sup>®</sup>, the monitor automatically raises – increasing the down force for additional stability – to prevent the monitor from moving.



### **R.A.M.®** Selector Guide

INLET SIZE	OUTLET SIZE	CERTIFICATIONS	MODEL
2.5" NHT	2.5″ NHT	CE	
•	•	•	8296
			Illustration

# Stinger<sup>®</sup> 2.0

- Dual purpose break-apart monitor for use as a deck gun or portable monitor
- Numerous truck adapter and portable base options available to suit every need
- In portable mode, five forged aluminum legs with self-adjusting carbide-tipped ground spikes increase stability
- Rotation lock mechanism provides positive left-right lock with visual position indication
- By-passable safety stop at 35° above horizontal
- Safety strap for additional stability
- Lightweight for its class
- Most flow efficient in its class with a friction loss reducing 3<sup>3</sup>/<sub>8</sub>" vaned waterway
- Patented monitor to base latching mechanism is user-friendly and provides visual indication of status
- Fully enclosed stainless steel worm gear
- Liquid filled pressure gauge
- Two carrying handles



5-27



SPECIFICATIONS							
Portable Deck Mount							
Max. GPM (LPM)		1250 (473	32)		1250 (4732)		
Inlets	Sizes		Types	Sizes	Types		
	2 x 2.5″	NHT	(1000 GPM)	1 x 3″	NPT	(1250 GPM)	
	1 x 4.5″	NHT	(1250 GPM)	1 x 3″	150# ANSI Flange	(1250 GPM)	
	1 x 4″	NHT	(1250 GPM)	2 x 2.5″	NHT	(1000 GPM)	
	1 x 3.5″	NHT	(1250 GPM)				
	1 x 5.0″	Storz	(1250 GPM)				
	1 x 4.0″	Storz	(1250 GPM)				
Outlet Sizes	2.5″	NHT		2.5″	NHT		
Control	Single hand	l-wheel		Single hand-wheel			
Material/Finish	Elk-O-Lite®	with red uret	hane enamel	Elk-O-Lite <sup>®</sup> with red urethane enamel			
Friction Loss	27 psi at 12	50 gpm		25 psi at 1250 gpm			
	16 psi at 10	00 gpm		16 psi at 1000 gpm			
Travel	V +35° to +	75° (40°)		V -15° to	+75° (95°)		
	H L45° to R	45° (90°)		H 360° (c	ontinuous)		
Weight	29 Lbs. (with 2 x 2.5" inlets)			22 Lbs.			
Ratings and Certifications							





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### STINGER<sup>®</sup> 2.0

### Stinger<sup>®</sup> 2.0 Selector Guide

INLET SIZES / TYPES						OUTLET SIZE		
SINGLE DU				DUAL		ILLUSTRATION	MODEL	
3.5″ NHT	4.0" NHT	4.5″ NHT	4.0" STORZ	5.0" STORZ	2.5″ NHT	2.5″		
0	0	о	0	0	S	•	1	8297-2.0*
0	0	0	0	0	S	•	2	8397-2.0
				6	7			Illustration

KEY s = standard o = option

\* For the Break-a-Part version, the upper and lower unit may be purchased separately.

### **Components & Options Chart**

COMPONENTS & OPTIONS	ILLUSTRATION	MODEL	
	1 x 3" NPT Female (without Flange)	5	8298 P 2.0
Truck Mount Adapters	1 x 3" - 150# ANSI	4	8298 F 2.0
(8297-2.0)	2 x 2.5" Deck Mount	8	8299
Storage Bracket	Truck storage mounting bracket for portable base or complete monitor	3	8297 MB
The PIPE™ (8297-2.0)	Increases the height of a deck mounted Stinger® 2.0 by 18 inches – constructed of Elk-O-Lite® (approximately 10 Lbs.)	9	8298 EX 2.0
Storage Bracket	Mounting bracket for storing the PIPE™ 2.0		8298 EX MB 2.0
Caution Light	For use with the PIPE™ – visual confirmation that The PIPE™ is attached		81258001
Anchor Kit	For portable monitors		81460001
Companion Flange Kit	3" 150# ANSI steel flange with bolts and gasket		81315001
Protective Cover	A shaped polymer covering for deck-mounted or portable mounted bases, designed to protect the swivel bearing and/or ring gear. Attached tether for securing the cover.	10	

### **Recommended Products**

SM-1000HF – SELF-EDUCTING	SM-1250 – X-STREAM®	282-A – STREAM SHAPER	ST-194 – QUAD STACKED TIPS
6-16	Page 6-7	Page 1-27	Page 1-29

### **Product Highlights**

The Stinger<sup>®</sup> (8297 2.0) adds excellent value as the "breakapart" capability makes it two monitors in one – both a deck mount and a portable unit.

### Safety Aspects

Latch pin includes a visual position indicator which allows you to confirm, at a glance, that the pins are in the latched position.



### **ADDITIONAL INFORMATION**

• Technical Data on monitor performance may be found on page T-11.

• Please inquire with our sales staff for additional thread options.

Vulcan®

**VULCAN®** 



# MONITORS

5-30

Small footprint — less than 15" wide and requiring just 16" of clearance — makes it ideal for tight spaces
Lightweight Elk-O-Lite<sup>®</sup> construction is compatible with aerial platform applications

• Low friction loss due to 3 <sup>9/</sup>/<sub>8</sub>" patented elliptical waterway with vaned interior

Efficient design creates the most cost effective monitor in its flow class

- or any other use where a lightweight, highly flow-efficient monitor is needed
- Several control options are available, allowing customization for your needs:
  - Tiller control option allows for faster controls
  - Dual hand-wheel control features fully enclosed stainless steel worm gears and are available with either fixed or rotating base hand-wheel controls
- Liquid filled pressure gauge with bumper guard

Patented waterway Patented waterway Store continuous rotation Patented waterway Pate

### **VULCAN®**

SPECIFICATIONS						
Max. GPM (LPM)	1250 (4	4732)				
	Sizes	Types				
Inlets	4″	150# ANSI Flange				
	3″	150# ANSI Flange	NPT (F)			
Outlet	2.5″ N	нт				
	Tiller					
Controls	Dual hand-wheel – rotating base					
	Dual hand-wheel – fixed base					
Material/Finish	Elk-O-l	ite® with red ure	thane enamel			
Friction Loss	16 psi at 1250 gpm					
	12 psi at 1000 gpm					
Travel	V -45°	to +90° (135°)				
Indver	H 360° (continuous)					
Weight	Variable (see chart for specifics)					
Ratings and Certifications	CE					





#### **ADDITIONAL INFORMATION**

Weights are approximate and will vary by selected inlet.Technical Data on monitor performance may be found on page T-11.



### **VULCAN®**

# MONITORS

### Vulcan<sup>®</sup> Selector Guide

INI	LET SIZES /	TYPES	OUTLET	CONTROLS		CERTIFICATION			
NPT	NPT 150# ANSI Flange		SIZE	Hand-	wheels	Tillers			MODEL
3″	3″	4″	2.5″ NHT	Fixed Base	Rotating Base	Bar	CE	Weight (Lbs.)	MODEL
0	s	0	•			S	•	18	8500-02
0	S	0	•		S			22	8500-03
0	S	0	•	S				22	8500-03X
				3	1,4	2			Illustration

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & O	ILLUSTRATION	MODEL	
Companion Flange Kits	3" 150# ANSI steel flange with bolts and gaskets		81315001
	4" 150# ANSI steel flange with bolts and gaskets		81317001

### **Recommended Products**

SM-1000HF – SELF-EDUCTING	SM-1250 – X-STREAM◎	ST-194 – QUAD STACKED TIPS	282-A – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
				<b>D</b>
6-16	Page 6-7	Page 1-29	Page 1-27	5-59

### **Product Highlights**

The Vulcan<sup>®</sup> offers a several control options including the dual hand-wheel which features a choice of two base configurations – fixed base or a rotating base.



• The fixed base dual hand-wheel control allows the operator to remain in a stationary position while manipulating the horizontal movement of the monitor. The fixed nature of the horizontal control can be especially beneficial when operating space is limited.



• When using the rotating base dual hand-wheel control, the operator moves in tandem with the monitor while managing the monitor's horizontal travel. The rotating base allows the operator to maintain visual contact with the monitor's water direction.

SPIT-FIRE

# **Spit-Fire**

- Efficient at high flows 4" fully vaned waterway
- Choice of manual controls
  - Dual hand-wheel style delivers:
    - Full 360° horizontal rotation while allowing the lower hand-wheel to remain stationary
    - 10 vertical and 7 horizontal adjustable stop positions
  - Tiller, in the "Big Stick<sup>®</sup>" style, allows vertical and horizontal travel to be conveniently controlled with one handle
- Corrosion resistant brass construction
- Low maintenance
  - Fully enclosed gearcase
  - Steel worm gears
  - #316 stainless steel balls in all swivel joints with grease fittings
- Liquid-filled pressure gauge





### **SPIT-FIRE**

5-34

SPECIFICATIONS							
Max. GPM (LPM)	2000 (7570)						
	Size	Types					
Inlets	4″	150# ANSI Flange	NPT				
Outlet Size	3.5" NHT						
Controls	Dual hand-wheel						
	"Big Stick <sup>®</sup> " Tiller						
Material/Finish	Brass with red urethane enamel						
Friction Loss	39 psi at 2000 gpm						
	15 psi at 1250 gpm						
Travel	V -45° to +90° (135°)						
Indvei	H 360°						
Weight	126 Lbs.						
Ratings and Certifications	CE						





#### **ADDITIONAL INFORMATION**

• Technical Data on monitor performance may be found on page T-11. • Marine Brass (85-5-5-5) construction is available. Please inquire with our sales staff.

### SPIT-FIRE

### **Spit-Fire Selector Guide**

INLET SIZ	ES/TYPES	OUTLET SIZE	CONTROLS		CERTIFICATION	MODEL	
4″ NPT	4" 150# ANSI Flange	3.5″ NHT	Dual Hand-wheel	Tiller (Big Stick®)	Electric Operation 12V	CE	WODEL
0	S	•	•			•	8394-021
0	S	•		•		•	8394-121
	S	•			•		8394-04
			1	2	See 5-20		Illustration

KEY s = standard o = option

### **Components & Options Chart**

COMPONENTS & OPTIONS		ILLUSTRATION	MODEL
Companion Flange Kits	4" 150# ANSI steel flange with bolts and gaskets		81317001

### Recommended Products (8394-021 & 8394-121)



#### **Product Highlights**

All construction features designed to minimize maintenance needs for increased industrial reliability:

- Corrosion resistant brass construction (85-5-5-5 "Marine Brass" available)
- Fully enclosed gearcase
- Cast brass swivel joints
- #316 stainless steel balls in all swivel joints
- Grease zerks for easy lubrication



# **Stingray**<sup>®</sup>

- Flow efficient 3" waterway allows for flows up to 1250 gpm
- All construction features designed to minimize maintenance needs
  - Choice of corrosion resistant brass or lightweight Elk-O-Lite<sup>®</sup> construction
  - Fully enclosed gearcase with stainless steel worm
  - Bronze balls in all swivel joints
  - Grease zerks for easy lubrication
- Flexible installation options include numerous base options and a hydrant mounting choice
- Compact size 16" high or 21" high is extremely versatile, allowing the monitor to serve a variety of real-world needs
- Built-in shut-off capabilities (with the Stingray<sup>®</sup> IV) from a full flow 3" ball valve

5-36


	SPECI	FICATIONS									
Max. GPM (LPM)	1250 (4732)										
	Sizes	Туре	s								
Inlets	4″	150# ANSI Flange									
iniets	3″	150# ANSI Flange	NPT (F)								
Outlet Size	2.5" NHT										
Control	Single hand-wheel										
Material/Finish	Brass or Elk-O-Lite <sup>®</sup> with red urethane enamel										
Friction Loss	27 psi at 1250 gpm										
Thedon Loss	17 psi at 1000 gpm										
	9 psi at 75	0 gpm									
Travel	V -60° to +	90° (150°)									
liavei	H 360° (coi	ntinuous)									
Weight	Varies (See specification chart)										
Ratings and Certifications	CE and FM	Approved									



NOTE: Ball valve cannot be ordered separate from monitor as a stand alone part.



#### **ADDITIONAL INFORMATION**

- All flanges specified with the monitor are flat. Raised flanges are available with some inlet sizes. Please inquire with our sales staff.
- Marine Brass (85-5-5-5) construction is available on some models. Please inquire with our sales staff.
- Technical Data on monitor performance may be found on page T-11.
- The Stingray is also available in a portable cart version. Please see page 5-56 for details.
- The Stingray is also available in a hydrant mount version. Please see page 5-50 for details.

MONITORS



#### **STINGRAY®**

#### Stingray<sup>®</sup> Selector Guide

	ET SIZI TYPES		OUTLET SIZE	VERT TRA		INTEC COMPO		MATE	RIALS	CERTIFI	CATIONS		DIMENSIONS				
NPT	150 #	່ວ່	2.5"	-60° to +70°	-60° to +90°	Ball Valve	essure auge	SSE	:-O-Lite®		M vpproved	Width (In.)	epth n.)	eight n.)	Weight (Lbs.)	USTRATION	MODEL
3″	3″	4"	NHT	(130°)	(150°)	3″	Pre Ga	Bra	EIk	E	FM Api	Wi (In	De (In	He (In	(Lb We		Ψ
0	0	s	•	0	s	s		•		•		14.75	15.75	20.375	68.25	1	8393IV
0	0	s	•	S	0		0	•		•	•	14.75	15.75	15.75	47.5	2	8393
0	0	s	•	S	0		0		•	•		14.75	15.75	15.75	16.0	2	8393-A
						4	3										Illustration

KEY s = standard o = option

#### **Components & Options Chart**

COMPONENTS & OPTIONS	ILLUSTRATION	MODEL	
Companion Flange Kits	3" 150# ANSI steel flange with bolts and gaskets		81315001
Companion Flange Kits	4" 150# ANSI steel flange with bolts and gaskets		81317001

#### **Recommended Products**

SM-1000HF – SELF-EDUCTING	IMS-500 SELECT-O-STREAM®	J- MYSTERY®	282B STREAM SHAPER	181- SMOOTH BORE	SM-1250B X-STREAM◎
				Ĩ	
Page 6-16	Page 6-12	Page 6-14	Page 1-27	Page 1-29	Page 6-7

#### **Product Highlights**

Our Stingray<sup>®</sup> IV features a 3" integral quarter-turn full flow ball valve. The integrated valve eliminates the need for a separate valve; it is both easier to install and more reliable than a separate wafer valve. The benefits of the integrated valve include:

- 1) better total monitor efficiency as the friction loss between the traditional separate monitor and valve is reduced
- 2) a turn-key package created by integrating the valve into the monitor

Highlights of the Stingray® IV valve include:

- Hydraulically balanced acetal ball
- Teflon impregnated seats
- Full flow ball valve

COPPERHEAD

# Copperhead

- Rugged, corrosion resistant brass construction is ideal for use in refineries, chemical plants, off shore installations and for shipboard use
- Specific industrial reliability/maintenance-free features of the Copperhead IV include:
  - Sealed grease bearings with a built-in, one way, pressure release
  - Enclosed, stainless steel locking mechanism
  - Environmentally-sealed valve actuator
- Efficient design creates the most cost effective brass monitor in its flow class
- Low friction loss due to 3<sup>3</sup>/<sub>8</sub>" patented vaned elliptical waterway
- Small footprint less than 15" wide and requires just 16" of clearance makes it ideal for tight spaces



MONITORS



#### COPPERHEAD

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SP	ECIFIC/	ATIONS									
Max. GPM (LPM)	1250 (	4732)									
	Sizes	Туре	Types								
Inlets	4"	150# ANSI Flange									
inets	3″	150# ANSI Flange	NPT (F)								
Outlet	2.5″ N	HT									
	Tiller										
Controls	Dual hand-wheel – rotating base										
	Dual h	and-wheel – fixe	d base								
Material/Finish	Brass v	with red urethane	e enamel								
Friction Loss	16 psi	at 1250 gpm									
Copperhead	12 psi	at 1000 gpm									
Friction Loss	21 psi	at 1250 gpm									
Copperhead IV	16 psi	at 1000 gpm									
	V -45°	to +90° (135°)									
Travel	V -49°	° to +86° (135°)									
	H 360°	° (continuous)									
Weight	Variab	ariable (see chart for specifics)									
Ratings and		Approved									







- Weights are approximate and will vary by selected inlet.
- Marine Brass (85-5-5-5) construction is available on the Copperhead. Please inquire with our sales staff.
- Technical Data on monitor performance may be found on page

• LA style handles available on the Copperhead. Please inquire with our sales staff.

#### COPPERHEAD



#### **Copperhead Selector Guide**

INL	ET SIZES	/ TYPES	OUTLET		CON	TROLS		VERT TRA	(ICAL		EGRAL	ГS	CER CAT			
NPT	150# AN	ISI Flange	SIZE	Hand	wheels	Tillers		45 to +90°	to 5°	3″ Ball	Valve	al		oved	uo	MODEL
			2.5%	Fixed Base	Rotating Base	Copperhead Bar	Copperhead IV Bar	-45 +9(	-49 to +86°	Hand-	<b>T</b> <sup>1</sup>	sure G		Approved	ati	MODEL
3″	3″	4″	2.5″ NHT	(68 Lbs.)	(68 Lbs.)	(58 Lbs.)	(87 Lbs.)	(135°)	(135°)	wheel	Tiller	Pressure	CE	FM	Illustra	
0	s	0	•			S		•				0	•	•	3	8593-02
0	s	0	•			S		•				0	•	•	3	8593-02N
ο	s	о	•		s			•				0	•	•	4,6	8593-03/ 294-11rev.06
ο	s	о	•	S				•				0	•	•	4,5	8593-03X/ 294-11rev.06x
		S	•				S		•	0	S	0		•	1,2	8593IV
				4,5	4,6	3				2	1					Illustration

KEY s = standard o = option

#### **Components & Options Chart**

COMPONENTS & C	OPTIONS	ILLUSTRATION	MODEL
Companion	3" 150# ANSI steel flange with bolts and gaskets		81315001
Flange Kits	4" 150# ANSI steel flange with bolts and gaskets		81317001

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#### COPPERHEAD

#### **Recommended Products**



#### **PRODUCT HIGHLIGHTS**

In addition to offering the only brass dual hand-wheel monitor of this size on the market, Elkhart's Copperhead monitor boasts a choice of base configurations:



• When using the rotating base dual hand-wheel control, the operator moves in tandem with the monitor while managing the monitor's horizontal travel. The rotating base allows the operator to maintain visual contact with the monitor's stream direction.

In most industrial settings where the traditional- 294-11 is currently used, the Copperhead would be an appropriate replacement. The Copperhead offers a choice of control styles as well as higher flow capacity.

MONITORS

 • The fixed base dual hand-wheel control allows the operator to remain in a stationary position while manipulating the horizontal movement of the monitor. The fixed nature of the horizontal control can be especially beneficial when operating space is limited.

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**PYTHON®** 

# **Python**<sup>®</sup>

- Seamless brass 2.5" waterway for flows up to 1250 gpm
- Flexible installation options
  - Extensive base options
  - Two choices in manual controls tiller or steering wheel
  - Hydrant mounting option
- All construction features designed to minimize maintenance needs
  - Corrosion resistant brass construction
  - Cast brass swivel joints
  - Bronze balls in all swivel joints
  - Stainless steel handles
  - Grease zerks for easy lubrication
- Positive twist locks for both vertical and horizontal movement





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	S	PECIFICATIONS	5								
Max. GPM (LPM)	1250 (4732)										
	Sizes		Types								
	6″	150# ANSI Flange									
Inlets	4″	150# ANSI Flange	300# ANSI Flange	NPT (F)							
	3″	150# ANSI Flange	300# ANSI Flange	NPT (F)							
	2.5″	150# ANSI Flange 300# ANSI Flange NPT (									
Outlet Size	2.5" NHT										
Controls	Steering wheel										
Controis	Tiller										
Material/Finish	Brass with re	ed urethane enamel o	or chrome-plated								
	24 psi at 125	50 gpm									
Friction Loss	18 psi at 100	)0 gpm									
	11 psi at 750	) gpm									
Travel	V -45° to +9	0° (135°)									
Ilavei	H 360° (cont	ntinuous)									
Weight	45.00 Lbs. (S	(See specification chart)									
Ratings and		d CE									
Certifications	FM Approve	a, CE									



#### **PYTHON**®

#### Python<sup>®</sup> Selector Guide

					INL	ETS					OUTLET SIZE	MAX. (LP	GPM M)		CONT	ROLS	CEI	RT.		DIMEN	ISIONS		FINIS	HES	
						' TYI HES					SIZE / TYPE (IN.)	1250	750	Gauge	Wheel			oved	(In.)	(·r	(In.)	(Lbs.)	thane	plated	
	N	IPT				AN: NGE			)# A .AN(		NHT	(4732)	(2839)	ssure	Steering	er Bar		Approv	Width (Ir	Depth (In.	Height (I	Weight (	d Uret	rome-	MODEL
2.	5	3	4	2.5	3	4	6	2.5	3	4	2.5			Pre	Ste	Tille	U	FΜ	Ň	De	Hei	N N	Rec	Ŀ	M
c	, ,	0	0	0	ο	s	0	ο	ο	0	•	•		0	0	s	•	•	18.0	31.5	17.5	45.0	•		299-11
C		0	0	0	0	s	0	0	0	0	•	•		0	0	S		•	18.0	31.5	17.5	45.0		•	299-11P
														3	2	1									Illustration

 $\mathsf{KEY} \ \ \mathsf{s} = \mathsf{standard} \quad \mathsf{o} = \mathsf{option}$ 

\* Swivel

#### **Components & Options Chart**

<b>COMPONENTS &amp; OPTIONS</b>	COMPONENTS & OPTIONS						
Companion Flange Kits	3" 150# ANSI steel flange includes bolts and gaskets		81315001				
	4" 150# ANSI steel flange includes bolts and gaskets		81317001				
Drain Valve	Automatic ball drip drain valve.		702				

#### **Recommended Products**

SM-1250B – X-STREAM®	CJN-B – SELECT-O-STREAM®	SM-1000HF – SELF-EDUCTING	282B - STREAM SHAPER	181 - DELUGE TIP	84 - BUTTERFLY WATER VALVE
					<b>D</b>
Page 6-7	Page 6-12	Page 6-16	Page 1-27	Page 1-29	Page 5-59

MONITORS



# **Giant Python**<sup>®</sup>

- 2500 gpm flow capacity 3.5" waterway with seamless tube construction
- Double hand-wheel control for ease of operation and positive lock in any position
- All construction features designed to minimize maintenance needs
  - #304 stainless steel construction
  - Cast stainless swivel joints
  - Stainless steel balls in all swivel joints
  - Hand-wheel driven worm gears
- Liquid-filled pressure gauge

MONITORS

Red urethane finish

3.5" flow-efficient waterway



2500 GPM



Hand-wheel rotates with monitor for continuous 360° horizontal travel

a data ta ta ta

#### **GIANT PYTHON®**

SPECIFICATIONS										
Max. GPM (LPM)	2500 (9463)									
	Sizes	Types								
Inlets	6″	150# ANSI Flange	300# ANSI Flange							
	4″	150# ANSI Flange	300# ANSI Flange	NPT (F)						
	3″	150# ANSI Flange	300# ANSI Flange	NPT (F)						
Outlet Size	3.5″ NHT	3.5″ NHT								
Controls	Dual hand-v	Dual hand-wheel								
Material/Finish	Stainless ste	el with red urethane er	namel and brass trim							
Friction Loss	18 psi at 2500 gpm									
Theorem Loss	6 psi at 1250 gpm									
Travel	V -60° to +9	0° (150°)								
Ilavei	H 360° (continuous)									
Weight	126.00 Lbs.									
Ratings and Certifications	FM Approve	ed, CE								



ADDITIONAL INFORMATION • All flanges specified with

- the monitor are flat faced. Raised face flanges are available with some inlet sizes. Please inquire with our sales staff.
- Technical Data on monitor performance may be found on page T-11.



#### **GIANT PYTHON®**

#### **Giant Python® Selector Guide**

		INL	et size	ES / TY	PES			OUTLET SIZE	CERT	IFICATIONS		
N	РТ	150#	ANSI F	lange	300#	ANSI F	lange	2 5%	CT.	ENA American	MODEL	
3″	4″	3″	4″	6″	3″	4″	6″	3.5″	CE	CE FM Approved		
0	0	0	s	0	0	0	0	•	•	•	299-20	
			1								Illustration	

KEY s = standard o = option

#### **Components & Options Chart**

COMPONENTS & C	PTIONS	ILLUSTRATION	MODEL
Companion	3" 150# ANSI steel flange with bolts and gaskets		81315001
Flange Kits	4" 150# ANSI steel flange with bolts and gaskets		81317001

#### **Recommended Products**

MONITORS

CJK – MYSTERY®	SM-2000B – X-STREAM®	SM-2000HF – SELF-EDUCTING	181-3 – DELUGE TIP	284B – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
					<b>J</b>
Page 6-14	Page 6-7	Page 6-16	Page 1-29	Page 1-27	Page 5-59

#### HYDRANT MOUNT

# **Hydrant Mount**

- Several available size and flow options
- All construction features designed to minimize maintenance needs
  - Corrosion resistant brass construction
  - Bronze balls in all swivel joints
  - Grease zerks for easy lubrication
- Two choices in manual controls tiller or hand-wheel







	SPEC	CIFICATIONS	
	8393H	299-11H	292-6H
Max. GPM (LPM)	1250 (4732)	750 (2839)	750 (2839)
Inlets	2.5" NHT (F)	2.5" NHT (F)	2.5" NHT (F)
Outlet Size	2.5" NHT	2.5" NHT	2.5″ NHT
Controls	Single hand-wheel		Single hand-wheel
Controis		Tiller	Tiller
Material/Finish	Brass with red urethane enamel	Brass with red urethane enamel	Brass with red urethane enamel
	27 psi at 1250 gpm	11 psi at 750 gpm	32 psi at 750 gpm
Friction Loss	17 psi at 1000 gpm		14 psi at 500 gpm
	9 psi at 750 gpm		
Travel	V -60° to +70° (130°)	V -60°	to +70° (130°)
Ilavei	H 360° (continuous)	H 360'	° (continuous)
Weight Varies	85 lbs.	61 lbs	(See chart for specifics)
Ratings and Certifications	CE and FM Approved	CE and FM Approved	CE and FM Approved

MONITORS

#### KEY CONFIGURATIONS (ACCESSORIES)



#### Hydrant Mount Selector Guide

INLET	OUTLET	MAX. (LPI		VERTICAL TRAVEL	CONT	ROLS		ection 'Pe		CERTIFIC	ATIONS	DI	MENSION	S		
NHT 2.5"	NHT 2.5"	1250 (4732)	750 (2839)	-60° to +70° (130)	Hand wheel	Tiller Bar	Nipple	Swivel	Pressure Gauge	CE	FM Approved	Width (In.)	Height (In.)	Weight (Lb.)	ILLUSTRATION	MODEL
s	•	•		s	•			•	0	٠	•	14.75	37.5	85.0	2	8393H
s	•		•	S		•	•		0	٠	•	17.75	25.5	61	3	299-11H
s	•		•	S		•		•		٠	•	18.5	13.75	64		292-6H
									3							Illustration

#### **Recommended Products**

HF-500 – HYDRO-FOAM	CJN-B – SELECT-O-STREAM®	J – MYSTERY®	181 – DELUGE TIP	282B – STREAM SHAPER
Page 6-16	Page 6-12	Page 6-14	Page 1-29	Page 1-27

#### ADDITIONAL INFORMATION

- For 8593H, the hydrant connection fits up to a 10.875" hydrant barrel and includes U-bolts, with nuts, in 10" and 8" sizes
- On all other hydrant mount monitors, the hydrant swivel connection attached to 2.5" hydrant nipple (includes elbow assembly and support rods)

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#### MANUAL ELEVATED

# **Manual Elevated**

- Free standing or riser mounted
- Designed to have the horizontal and vertical movement controlled at ground level
- Control options:
  - Lever/tiller
  - Gear Driven

Available free standing up to 40'



1000 GPM

# All and a

#### MANUAL ELEVATED

	SPECIFICATIONS									
		299-11EL*		8394-02RC						
Max. GPM (LPM)		750		1000						
		Sizes / Types		Size / Type						
	6″	150# ANSI Flange								
Inlet	4″	150# ANSI Flange	4″	150# ANSI Flange						
Outlet		2.5″ NHT	3.5″ NHT							
Controls	Tille	r with locks	Dual hand-wheel							
Material/Finish		s and steel with urethane enamel	Brass with red urethane enamel							
Friction Loss	13 p	si at 750 gpm	10 psi at 1000 gpm							
(excludes head loss)	8 psi	at 500 gpm	6 psi a	at 750 gpm						
Travel	V -3	7° to +45° (78°)	V -45°	° to +90° (135°)						
Haver	H 36	0° (continuous)	H 360	° (continuous)						
Elevation Height	Min.	10′	Min. (	)'						
cievation neight	Max	. 40′	Max. 34'							
Weight	300	Lbs.	140 L	OS.						

\*All data supplied for 299-11EL assumes 10' riser pipe. Other lengths will change the data.

5-52

#### 299-11EL



#### 8394-02RC



- Base and upper that can be fabricated to any height (up to 34') with customer supplied intermediate pipe
- Lower base unit features chrome-plated brass worm gear and drive shaft
- Upper monitor unit features hardened steel worm gear, fully enclosed gear housing and stainless steel worm shaft
- · Free standing to
  - 10' at 1000 gpm
  - 15' at 750 gpm
  - 20' at 500 gpm
- Up to 34' and/or higher flow requires use of support bearing
- 9" chrome hand-wheels

(2)

- Grease zerks furnished at swivel joints for easy lubrication
- Intermediate pipe attaches to upper monitor and base sections via NPT threads
- Intermediate pipe (4" schedule 40) and vertical drive rod (5/8") not included

#### **Elevated Monitor Selector Guide**

INLET	SIZES	OUTLET SIZES		OUTLET SIZES CONTR		CONTROLS		ELEVATIO	N HEIGHT			
150# /	ANSI*	Nł	łT	al Hand-wheel	er Handle	Galvanized Waterway	iser upplies			Max Flow Limit @ Max Height	USTRATION	
4″	6″	2.5″	3.5″	Dual	Tiller	8 ga	Riser Supp	Min.	Max.	GPM		MODEL
S	0	•			•	0	0	10′	40′	750	1	299-11EL*
S			•	•				0′	34′	500	2	8394-02RC

KEY: s = standard o = option

Specify length when ordering.

\* Per client installation

#### **Components & Options Chart**

COMPONENTS & OF	PTIONS		ILLUSTRATION	MODEL
Support Bearing	8394-02RC	For monitor support when overall height exceeds monitor limits (for use with 500 GPM flowed at 20'; 750 GPM flowed at 15'; or 1000 GPM flowed at 10')	4	295
Companion Flange		4"150# ANSI Steel flange with bolts and gaskets		81317001
External Supply Iter	ms			
Riser Pipe	8394-02RC	4" intermediate riser pipe		
Drive Rod	8394-02RC	0.625" brass or stainless steel drive rod for linking the vertical drive unit to the monitor		

#### **Recommended Products**



#### **ADDITIONAL INFORMATION**

- Marine Brass (85-5-5-5) construction is available on some models. Please inquire with our sales staff.
- Other bases may be available on some models. Please inquire with our sales staff.
- Technical Data on monitor performance may be found on page T-11.
- Nozzle Reaction Force x Height (in feet) of monitor = torque (Foot Pounds) at base of monitor.

#### OPTIONS

#### **295 SUPPORT BEARING**



#### Designed so that 4" waterway and vertical control rod can rotate inside of bearing. 3" NPT female for attaching to adjacent support

- Finish: red urethane enamel
- Weight: 31.5 lbs.

#### **COMPANION FLANGE**

- 150# ANSI cast steel flanges, supplied with bolts and gasket. Specify:
- 3" (P/N 81315001)
- 4" (P/N 81317001)





#### The Extender - 8598

For use with the Elkhart monitors and a range of other compact monitors, the Extender is designed to provide better clearance for the monitor which allows for a wider coverage range and addresses firefighter safety concerns. It is compatible with monitor and nozzle flow ratings of 1250 gpm (max) with 100 psi nozzle pressure (max inlet pressure rating of 200 psi).

The Extender deploys in 10 seconds and extends a full 18 inches. The Extender is designed to flow in both the full up and full down positions.

Safety features of the Extender include:

- An in-cab warning light to alert the driver to incomplete retraction
- Pressure switch to limit the movement when internal pressure exceeds 10 psi

The Extender is electrically actuated through a pump panel pushbutton control pad with actuator rated for a static load of up to 2500 pounds. The chassis 12VDC electrical system provides power for the Extender.

The Extender is compliant with applicable 2003 NFPA #1901 standards.

All mounting and wiring materials are included in the Extender package.

The Extender 8598 is available with the following options:

#### Inlet / Oulet

- 3" VIC / 3" MNPT
- 3" MNPT / 3" MNPT
- 3" VIC / 3" 150# Flange
- 3" MNPT / 3" 150# Flange
- 3" 150# Flange / 3" 150# Flange



#### **Components & Options Chart**

COMPONENTS & C	MODEL			
Controller	with position indicator	81385101		
	for primary/secondary controller	36824000		
Harnesses	for caution lamp	36838000		
	to chassis (power)	36792000		
	5 ft	36793300		
Power Sensor	10 ft	36793500		
Harness	20 ft	36793600		
(select one)	30 ft	36793700		
	40 ft	36793800		

#### ACCESSORIES



#### **ANCHOR KIT**

- Portable monitor (P/N 81460001)
  - Heavy duty spike
  - Mallet
  - Self-contained portable bag.



#### 702 AUTOMATIC BALL DRIP DRAIN VALVE

- Drains at a rate of 2/3 gpm for up to 20' head of water when pressure drops below 10 psi
- 0.75" male inlet and outlet
- Mounts horizontally
- Cast brass construction
- Good for saltwater applications
- · Length: 3"
- Weight: 0.778 lbs.



#### **84 BUTTERFLY WAFER VALVE**

- Cast iron body with #316 stainless steel upper and lower stems
- · Pressure rated at 250 psi
- Seat/seal is EPDM
- Standard handle features 10 locking positions
- Optional handle is gear operated
- Size: 3" (11.3 lbs.) or 4" (14.3 lbs.) (specify)
- Thickness: 2"

#### PORTABLE CARTS



# **Portable Carts**

- Portable wheeled carts come furnished with a flow-efficient, built-in 4" manifold
- Wheels feature pneumatic tires and wheel locks
- The monitors have stop positions at 45° on either side of center and 25° above horizontal
- Cart specific highlights include:
  - The two wheel cart attaches with a 1%" or 2" coupler (please specify); to the vehicle for extra stability during flow; two hose beds each capable of holding two (2) 50' sections of 2%" or 3" hose
  - The four wheel cart has a detachable "tee" handle, optional hose racks above the wheels —
    each capable of holding a 50' "donut roll" of 2<sup>1</sup>/<sub>2</sub>" hose, and an optional 1<sup>1</sup>/<sub>2</sub>" gated
- Liquid-filled pressure gauge

outlet



#### PORTABLE CARTS

KEY CONFIGURATIONS (ACCESSORIES)

(1) 8393FW

ADDITIONAL INFORMATION • These monitor types are also available in monitor only and hydrant versions.

• Please see page 5-35 for Stingray<sup>\*</sup> (8393 series) details.

• When flowing 1000 gpm, the cart must be attached to vehicle for safety.

(2)

8393TW

SPECIFICATIONS							
Max. GPM (LPM)	1000 (3785) (See table for specifics)						
	2 x 2.5" NHT (F)						
	Optional Additional Cart Inlets						
Inlet Sizes/Types	1 x 5" Storz						
	1 x 4" Storz						
	2 x 2.5" NHT (F) (Swivel)						
Outlet Size	2.5" NHT						
Controls	Single hand-wheel						
Material/Finish	Brass with red urethane enamel						
	GPM	Stingray® Carts (8393)					
Friction Loss	1000	56 psi					
	750	34 psi					
	500	12 psi					
Travel	V Variable (see chart for specifics)						
IIdvei	H L45° to R45° (90°)						
Weight	See selection chart for specifics						

#### Portable Cart Selector Guide

		INLE	т орт	IONS		OUT- LET	CA	RT FE	ATUR	ES	VERTICAL TRAVEL							
Cart Type/ GPM (LPM)	Monitor	2 x 2.5″ NHT*	2 x 2.5" NHT* +4" Storz	2 x 2.5" NHT* +5" Storz	4 x 2.5" NHT*	2.5″ NHT	T Handle	1.875" Hitch	Pressure Gauge	Hose Beds	+20° to 70° (50°)	Single Hand-wheel	Width	(Inches) Depth	Height	Weight (Lbs.)	ILLUSTRATION	MODEL
2-Wheel/ 1000 (3875)	Stingray 8393	s	ο	о	ο	•		s	s	s	•	S	67.00	72.00	34.00	310.0	1	8393TW
4-Wheel/ 750 (2839)	Stingray 8393	s	ο	о	ο	•	s		s		•	S	67.00	72.00	34.00	230.0	2	8393FW
										1								Illustration

KEY s = standard o = option

\* Clappered female swivel inlets. \*\* This feature will change the height of the end product.

#### **Recommended Products**

SM-1000HF – SELF-EDUCTING	IMS-500 – SELECT-O-STREAM®	J – MYSTERY®	181 – DELUGE TIP	282B – STREAM SHAPER
Page 6-16	Page 6-12	Page 6-14	Page 1-29	Page 1-27

# TABLE CARTS