SELECTOR GUIDE

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6

		СС	ONTR	OL O	ΡΤΙΟ	NS		мо	DUN	ГING	ΟΡΤΙ	ONS		DEGRI TRA		CERTIFIC	CATIONS		ATER PTIC	RIAL DNS		
Max. GPM (LPM)	Dual Hand-wheel	Single Hand-wheel a	Tiller	Hydraulic	Electric	Wireless (RF)	EXM2 Technology	Portable	Wheeled Cart	Apparatus \overline{\overline{\mathfrak{o}}}	Fixed Installation	Elevated	Integral Ball Valve	Vertical	Horizontal	Œ	FM Approved	Brass	Elk-O-Lite®	Stainless Steel	MONITOR SERIES	PAGE
300 (1200)		01		-	•	•	•			•	•		_	135°	180°		_		•	01	Sidewinder® EXM2 UHP	 5-14
					•					•				135°	334°	•			•		BrushHawk	5-16
500 (2000)			•							•				135°	360°				•		Sidewinder®	5-19
[3] [2]								•						43°	40°	•			•		R.A.M. [®] XD	5-26
750 3000)					•	•	•			•	•			135°	350°				•		Sidewinder® EXM2	5-2
00	•		•								•	•		175°	360°			•			Manual Elevated	5-49
1000 (4000)									•					50°	90°			•			Portable Carts	5-54
					•	•	•			٠	•			165°	350°				•		Cobra [™] EXM2 7200	5-4
		•						•		•				95°	360°	•			•		Stinger [®] 2.0	5-28
2	•		٠							٠	•			135°	360°	•			•		Vulcan™	5-31
1250 (5000)		•								٠	•		•	130°	360°	•	•	•			Stingray®	5-37
(5	•		•							•	•		•	135°	360°	•	•	•			Copperhead	5-40
			٠								•			135°	360°	•	•	٠			Python®	5-43
		•	٠								•			130°	360°	•	•	٠			Hydrant Mount	5-47
1500 (6000)					•	•	•			•	•			165°	350°				•		Cobra [™] EXM2 7250	5-4
					•	•	•			•	•			165°	350°				•		Boa 2000	5-12
2000 (8000)					•					٠	•			135°	347°	•		٠	•		Scorpion [®] Electric	5-21
20 (80	•		٠							•	•			135°	360°	•			•		Scorpion [®]	5-24
	•		•							•	•			135°	360°	•		•			Spit-Fire	5-34
000					•	•	•			٠	•			135°	350°				•		Scorpion® EXM2	5-6
2500 (10000)											•			150°	360°	•	•			٠	Giant Python	5-45
3000 (12000)					•	•	•			•	•			135°	350°				•		SkyStream [™] EXM2	5-8
5000 (20000)					•	•	•			•	•			135°	350°				•		Magnum [™] EXM2	5-10

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

PSI • Denotes flow or pressure rating bar

GPM

LPM

THREADS

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

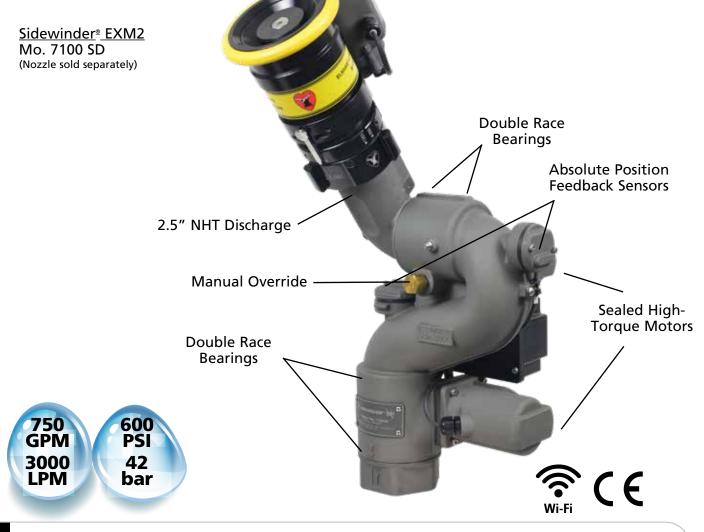
SIDEWINDER® EXM2





The Sidewinder EXM2 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 WiFi device. The monitor may be powered with 12 or 24 volts.

- 750 GPM (3000 LPM) flow
- Available in standard or heavy duty motor configurations
- Sealed to NEMA 4
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow, deploy and oscillation
- 5-2 Integrated water valve control



SIDEWINDER® EXM2

SPECIFICATIONS						
Model:	7100SDX2/7100HDX2					
Max Flow:	750 GPM (3000 LPM)					
Max Pressure:	600 PSI (42 bar)					
Inlet:	2.5" NPT					
Outlet:	2.5" NHT					
Travel:	Vertical: -45° to +90° (135°) Horizontal: L175 to R175 (350°)					
Voltage:	12 or 24 VDC compatible					
Control:	CANbus J1939					
Communication:	915 MHz RF - FCC 868 MHz RF - CE					
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®					
Stow Height	13.2" (335mm)					
Weight:	18 lbs (8.2 kg)					



Sidewinder[®] EXM2 Mo. 7100 HD

Recommended Products

Panel Mount	Handheld	Joystick	Position Display	6000 Series Nozzle	Light Kit	Quick Connect
		(4)	(5)	(6)		(8)

Components & Options Chart

	ILLUSTRATION	MODEL		
Electric Nozzles	Selectable	15/30/45/60/95/125/150/200/FLUSH GPM	6	6000-200E
	Selectable	250/350/500/700/FLUSH GPM	6	6000-700E
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
Controllers	EXM2 Wireless Handheld Controller Kit	Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.	3	7015X2
	EXM2 Joystick Controller	Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.	4	7030X2
Modules	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095
	2.5" Quick Connect	Allows for quick removal of the monitor	8	7150
Accessories	Light Kit	Includes 3500 lumen FRC WorkPro spotlight, mounting bracket and power harness.	7	7091L
	Video Kit	Includes camera and mounting bracket, 7" color monitor and harnesses.	Not Pictured	7091V



COBRA™ EXM2

MONITORS

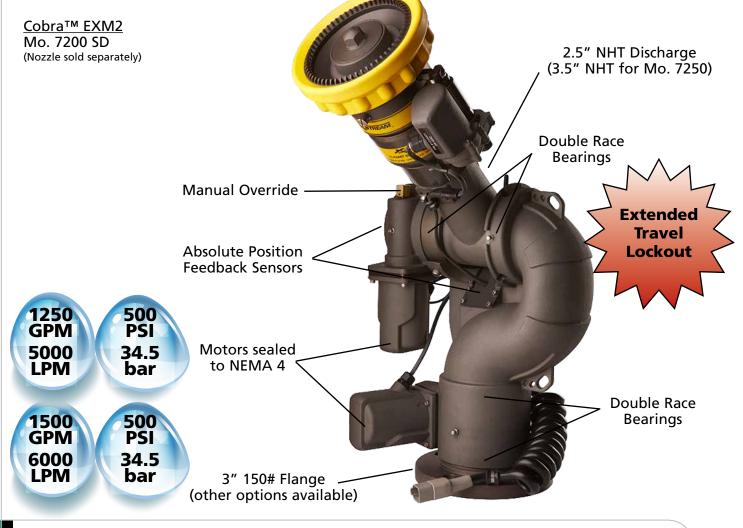
5-4

Cobra-



The Cobra[™] EXM2 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 unprecedented durability in a range of applications. The Cobra[™] EXM2 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 WiFi 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



COBRA™ EXM2

SPECIFICATIONS							
Model:	7200X2/7250X2						
Max Flow:	1250 GPM (5000 LPM) / 1500 GPM (6000 LPM)						
Max Pressure:	500 PSI (34.5 bar) Limited Duty						
Inlet:	3"-150# Flg, 4"-150# Flg, 3" NPT, 3" BSPT, & DN80-PN16"						
Outlet:	2.5" / 3.5" Male NHT & BSPP						
Travel:	Vertical: -45° to +120° (165°) w/ Extended Travel Horizontal:						
	L175 to R175 (350°)						
Voltage:	12 or 24 VDC compatible						
Control:	CANbus J1939						
Communication:	915 MHz RF - FCC						
	868 MHz RF - CE						
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®						
Swing Radius:	6" (152mm) 180°, 8" (203mm) 360°						
Stow Height:	16" (406mm)						
Weight:	31 lbs (14 kg) / 32 lbs (14.5 kg)						



Recommended Products

Panel Mount	Handheld	Joystick	Position Display	X-Stream Series Nozzle	Light Kit	EXM CAN Stow Module
	(3)	(4)	(5)	(6)		

Components & Options Chart

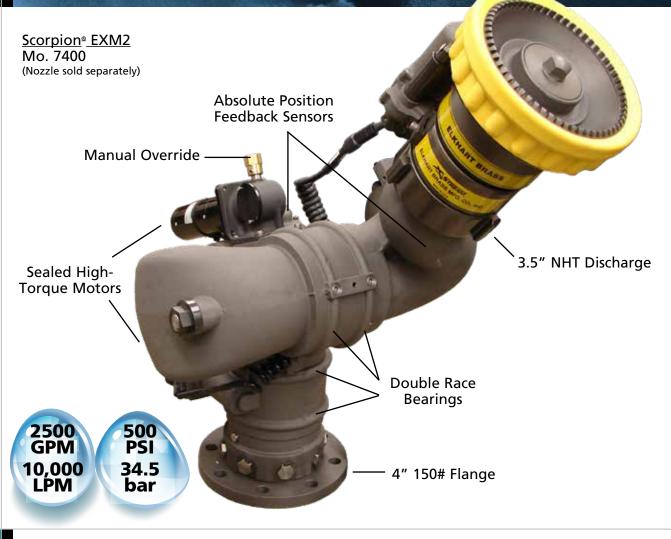
	COMPONE	ILLUSTRATION	MODEL	
		2.5" Inlet: 350-1000 GPM (1325-3785 LPM)	6	SM-1000E
Electric Nozzles	Selectable	2.5" Inlet: 350-1250 GPM (1325-4731 LPM)	6	SM-1250E
		3.5" Inlet: 500-1500 GPM (1893-5678 LPM)	6	SM-1500E
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
Controllers	EXM2 Wireless Handheld Controller Kit	Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.	3	7015X2
	EXM2 Joystick Controller	Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.	4	7030X2
Modules	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	8	7095
Accessories	Light Kit	Includes 3500 lumen FRC WorkPro spotlight, mounting bracket and power harness.	7	7089L
	Video Kit	Includes camera and mounting bracket, 7" color monitor and harnesses.	Not Pictured	7089V

SCORPION® EXM2

Scorpion[®]

The Scorpion EXM2 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.

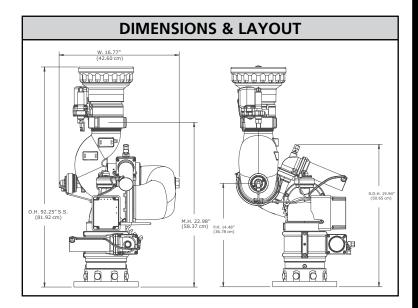
- 2500 GPM flow
- Large range of travel: -45° to +90° vertical & L175° to R175° horizontal (up to -80° or +120° vertical travel achievable with max travel of 135°)
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep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



5-6

SCORPION® EXM2

SPECIFICATIONS					
Model:	7400X2				
Max Flow:	2500 GPM (10,000 LPM)				
Max Pressure:	500 PSI (34.5 bar)				
Inlet:	4" ANSI, DN100				
Outlet:	3.5" Male NHT & BSPP				
Travel:	Vertical: -45° to +90° (135°) Horizontal: L175 to R175 (350°)				
Voltage:	12 or 24 VDC compatible				
Control:	CANbus J1939				
Communication:	915 MHz RF - FCC 868 MHz RF - CE				
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®				
Stow Height:	20" (508mm)				
Weight:	52 lbs (23.6 kg)				



Recommended Products

Panel Mount	Handheld	Joystick	Position Display	X-Stream Series Nozzle	Light Kit
(2)	(3)	(4)	(5)	(6)	

Components & Options Chart

	COMPONENTS & OPTIONS							
Electric Nozzles	X-Stream Series	3.5" Inlet: 350-1250 GPM (1325-4731 LPM)	6	SM-1250E				
Electric NO22les	Automatic	3.5" Inlet: 500-2000 GPM (1893-7571 LPM)	6	SM-2000E				
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2				
Controllers	EXM2 WIreless Handheld Controller Kit	Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.	3	7015X2				
	EXM2 Joystick Controller	Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.	4	7030X2				
Modules	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2				
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095				
Accessories	Light Kit	Includes 3500 lumen FRC WorkPro spotlight, mounting bracket and power harness.	7	7092L				
	Video Kit	Includes camera and mounting bracket, 7" color monitor and harnesses.	Not Pictured	7092V				

SKYSTREAM™ EXM2



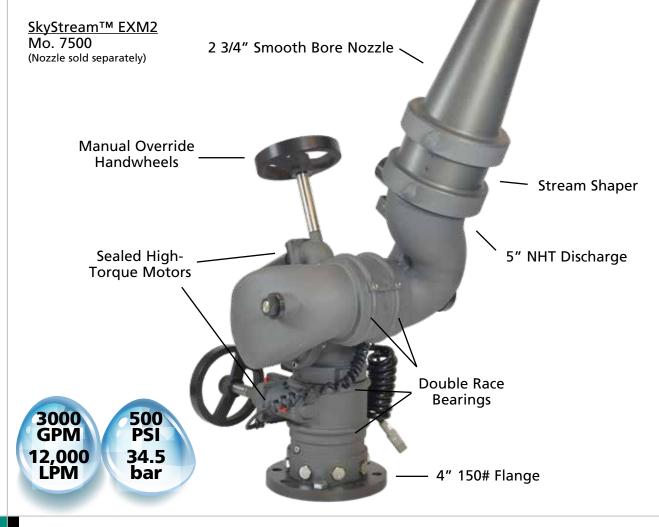
SkyStream™

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

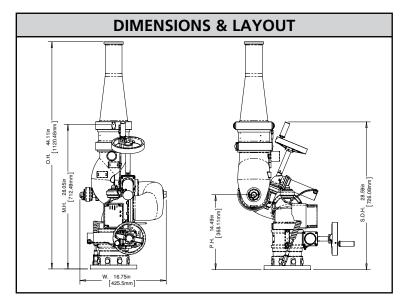
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MONITORS



SKYSTREAM™EXM2

SPECIFICATIONS					
Model:	7500X2				
Max Flow:	3000 GPM (12,000 LPM)				
Max Pressure:	500 PSI (34.5 bar)				
Inlet:	4" ANSI, DN100				
Outlet:	5" Male NHT & BSPP				
Travel:	Vertical: -45° to +90° (135°) Horizontal: L175 to R175 (350°)				
Voltage:	12 or 24 VDC compatible				
Control:	CANbus J1939				
Communication:	915 MHz RF - FCC 868 MHz RF - CE				
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®				
Stow Height:	20" (508mm) without optional handwheel				
Weight:	58 lbs (26.3 kg)				



Recommended Products

Panel Mount	Handheld	Joystick	Position Display	Smooth Bore Nozzle	Light Kit
(2)	(3)	(4)	(5)	(6)	

Components & Options Chart

	COMPONE	ILLUSTRATION	MODEL	
Nozzle	Smooth Bore	17" long, custom 2 3/4" Smooth Bore Nozzle for use with the SkyStream™ EXM2.	6	181-5A
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
Controllers	EXM2 WIreless Handheld Controller Kit Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.		3	7015X2
	EXM2 Joystick Controller CANbus to any EXM2 monitor. Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.		4	7030X2
EXM Position Display Module		Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	Not Pictured	7095
Accessories	Light Kit	Includes 3500 lumen FRC WorkPro spotlight, mounting bracket and power harness.	7	7092L
Accessories	Video Kit	Includes camera and mounting bracket, 7" color monitor and harnesses.	Not Pictured	7092V

MAGNUM™ EXM2



Magnum™

With its large 6" inlet and unique waterway, the 7600 EXM is capable of providing 5000 GPM (18925 LPM) flow where you need it most. Designing the 7600 to be a part of the EXM2 family ensures the same level of quality and durability the industry has come to know. In addition, it has the same programmable EXM features such as 3D travel limits, keep-out zones, travel speeds, stow position, and oscillation.

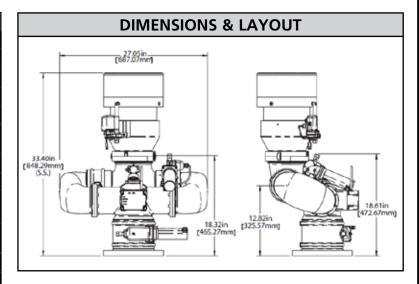
- 5000 GPM flow
- Large range of travel: -60° to +90° vertical & L175° to R175° horizontal
- Patented, elliptical waterway is Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation

MONITORS



MAGNUM™EXM2

SPECIFICATIONS	
Model:	7600X2
Max Flow:	5000 GPM (20,000 LPM)
Max Pressure:	200 PSI (13.8 bar)
Inlet:	6" 150# Flange
Outlet:	6" NHT
Travel:	Vertical: -60° to +90° (150°) Horizontal: L175 to R175 (350°)
Voltage:	12 or 24 VDC compatible
Control:	CANbus J1939
Communication:	915 MHz RF - FCC 868 MHz RF - CE
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®
Stow Height:	18.6" (472mm)
Weight:	115 lbs (52 kg) including nozzle



Recommended Products



Components & Options Chart

	COMPON	ENTS & OPTIONS	ILLUSTRATION	MODEL
		6" Inlet: 3000 GPM (11355 LPM) @ 80 PSI (5.5 BAR)	6	CM-3000E
Electric Nozzles	CM Series Fixed	6" Inlet: 5000 GPM (18925 LPM) @ 100 PSI (6.9 BAR)	6	CM-5000E
		6" Inlet: 3000 GPM (11355 LPM) @ 130 PSI (13.8 BAR)	6	CM-3000EX
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
Controllers	EXM2 WIreless Handheld Controller Kit	Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.	3	7015X2
	EXM2 Joystick Controller Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.		4	7030X2
Modules	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	8	7095
Accessories	Light Kit	Includes 3500 lumen FRC WorkPro spotlight, mounting bracket and power harness.	7	7093L
	Video Kit	Kit Includes camera and mounting bracket, 7" color monitor and harnesses.		7093V

BOA 2000



BOA 2000

The efficient 4" vaned waterway and 3.5" discharge matched with an SM-2000E master stream nozzle delivers an effective stream while the power of the EXM2 provides all of the user-programmable options, including travel limits, oscillation, stow and keep-out zones.

Powered by:

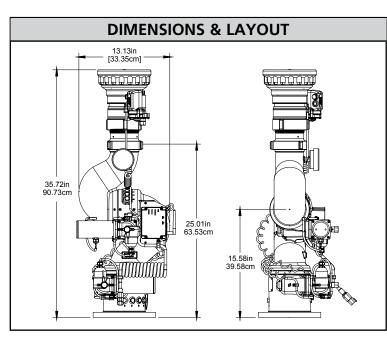


Boa 2000 Mo. 7451 (Nozzle sold separately)



BOA 2000

SPECI	SPECIFICATIONS				
Model	7451				
Max Flow	2000 GPM (7570 LPM)				
Max Pressure	200 PSI (13.8 bar)				
Inlet	4" 150# Flange				
Outlet 3.5" Male NHT					
Travel	V: -45° to +120° (120°)				
(Factory Settings)	H: L175 to R175 (350°)				
Voltage	11-32 VDC				
Control	CAN bus (J1939)				
Communication	Digital radio frequency				
	(unlicensed)				
Material/Finish	Red urethane enamel, hard				
	anodized Elk-O-Lite®				
Stow Height	20″				
Weight	47 Lbs. (21.3 kg)				



Recommended Products

Panel Mount	Handheld	Joystick	Position Display	X-Stream Series Nozzle
	(3)	(4)	(5)	(6)

Components & Options Chart

	COMPONE	NTS & OPTIONS	ILLUSTRATION	MODEL
Electric Nozzles	X-Stream Series	3.5" Inlet: 350-1250 GPM (1325-4731 LPM)	6	SM-1250E
Electric Nozzles	Automatic	3.5" Inlet: 500-2000 GPM (1893-7571 LPM)	6	SM-2000E
	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
Controllers	EXM2 WIreless Handheld Controller Kit Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.		3	7015X2
	EXM2 Joystick Controller	Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.	4	7030X2
Modules	EXM Position Display ModuleMonitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.EXM CAN Stow ModuleConnects to lockout devices to prevent equipment damage due to an improperly positioned monitor.		5	7051X2
			Not Pictured	7095

SIDEWINDER® EXM2 UHP



dis.

MONITORS

Sidewinder **M** UHP

Taking the Sidewinder EXM2 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).

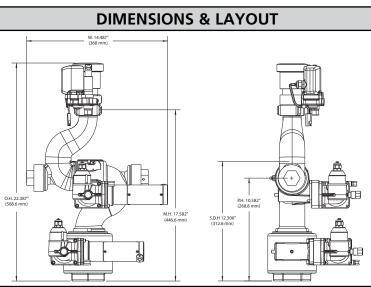
- 1500 PSI pressure
- Extreme Torque Motors
- Sealed to NEMA 4
- Teflon impregnated, hard anodized aluminum alloy
- Programmable travel speeds, 3D travel limits, keep out zones, stow and oscillation

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SIDEWINDER® EXM2 UHP

SPECIFICATIONS	SPECIFICATIONS				
Model: 7161X2					
Max Flow:	300 GPM (1200 LPM)				
Max Pressure:	1500 PSI (105 bar)				
Inlet:	2.5" NPT				
Outlet: 1.5" NHT					
Travel:	Vertical: -45° to +90° (135°) Horizontal: L90 to R90 (180°)				
Voltage:	12 or 24 VDC compatible				
Control:	CANbus J1939				
Communication: 915 MHz RF - FCC 868 MHz RF - CE					
Material/Finish:	Teflon impregnated, hard anodized Elk-O-Lite®				
Stow Height:	12.3" (313 mm)				
Weight:	27 lbs (12.2 kg)				



Recommended Products

Panel Mount	Handheld	Joystick	Position Display	5000-14E UHP Nozzle	EXM CAN Stow Module
	(3)	(4)	(5)	(6)	

Components & Options Chart

	COMPON	ILLUSTRATION	MODEL	
Electric Nozzle	Fixed	60 GPM (227 LPM) with Flush	6	5000-14E UHP
Controllers	EXM2 Panel Mount Controller	Complete panel mount operator control suitable for 2-wire connection to any EXM2 enabled component.	2	7010X2
	EXM2 Wireless Handheld Controller Kit	Wireless remote control with powered docking station. Built-in charging circuit charges the remote whenever it is placed in the docking station.	uit charges the remote 3	
	EXM2 Joystick Controller	Proportional joystick with integrated CANbus communication. Hardwire joystick direct via CANbus to any EXM2 monitor.	4	7030X2
Modules	EXM Position Display Module	Monitor vertical and horizontal position display unit suitable for 2-wire connection to any EXM enabled component.	5	7051X2
	EXM CAN Stow Module	Connects to lockout devices to prevent equipment damage due to an improperly positioned monitor.	7	7095

MONITORS

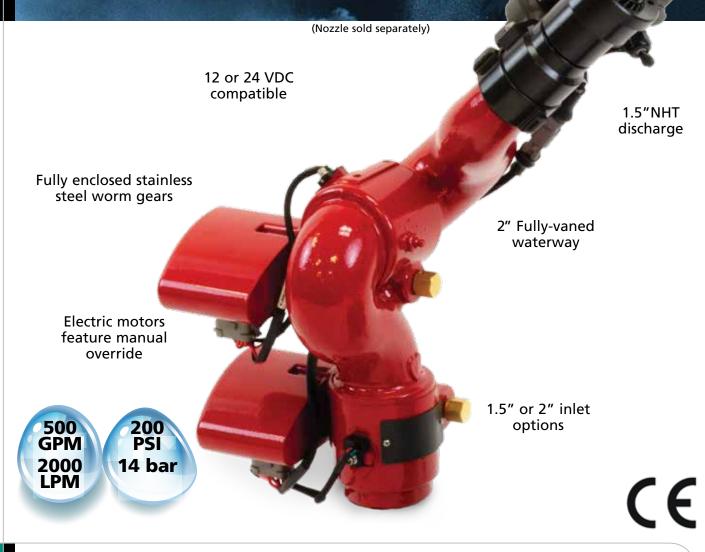
BRUSHHAWK™



MONITORS

BrushHawk[™]

- Allows for more effective use of personnel while reducing the potential risk of injury — controls can be mounted inside vehicle
- Double ball races with stainless steel bearings



BRUSHHAWK[™]

SPECIFICATIONS					
Max Flow	500 GPM (2000 LPM)				
Inlet	Size	Туре			
	1.5" or 2"	NPT (F)			
Outlet	1.5" NHT				
Controls	Electric				
Material/Finish	Elk-O-Lite® w	ith red			
waterial/rimsn	urethane enamel				
	26 psi at 500 gpm				
Friction Loss	13 psi at 350 gpm				
	3.9 psi at 200 gpm				
Travel	V 30°/+90° or				
	H L90°/R90°	or L175°/R175°			
Weight	13.5 lbs. (6.1				
Max. Power	3.0 Amps at 12V DC				
Requirement	(24V opt)				
Ratings and	CE				
Certifications					

KEY CONFIGURATIONS (ACCESSORIES)

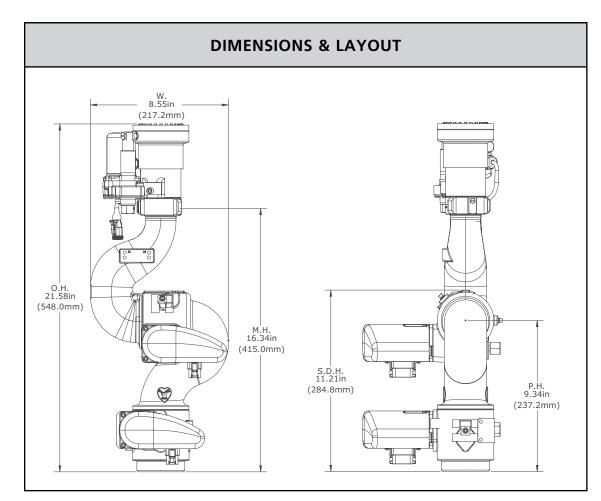


CONTROL BOX (8)





QUICK CONNECT (10)



ADDITIONAL INFORMATION

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

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MONITORS



Sidewinder[®] Electric Selector Guide

INL SIZE /		OUTLET SIZE	HORIZ TRA		BASES		CERTIFICATION	MODEL
1.5″ NPT	2.0″ NPT	1.5″	180°	334°	2.0″ NPT	1.5" or 2" NPT Quick Connect (Elk-O-Lite®)	CE	
0	0	•	S	0	s	0	•	8495

KEY s = standard o = option

Components & Options Chart

COMPONENTS & C	MODEL		
	Selectable Gallonage	15/30/45/60/95/125/150/200 GPM	6000-200E
		15, 30, 45 GPM (specify)	5000-04
Electric Nozzles	Fixed Gallonage	60, 95, 125, 150 GPM (specify)	5000-14
		175, 200, 250, 350, 400, 475 GPM (specify)	5000-24
	Automatic	20 - 120 GPM	SM-10FE
Operator Controls	Joystick	With toggle for water on/off plus integrated water valve trigger	
	Harness - Joystick to monitor	2', 10', 15', 20', 30 or 40' length (specify)	
Valve Kit 1", 2" or 2.5"	Harness - Joystick to valve	2', 10', 15', 20', 30 or 40' length (specify)	
	Harness - Valve to monitor	2', 10', 15', 20', 30 or 40' length (specify)	

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) Fage 6-4	Page 1-27	Page 1-26	(14)

SIDEWINDER®

Sidewinder[®]

- 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

MONITORS





SPECIFICATIONS Max Flow 500 GPM (2000 LPM)

	500 C (20)	s s =:,		
Inlet	Size	Туре		
innet	2″	NPT (F)		
Outlet	1.5" NHT			
Control	Tiller			
Materials/Finishes	Brass or Elk-C	D-Lite [®] with		
waterials/Timsties	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° (135°)			
Ilavei	H 360° (continuous)			
Weight	Variable			
Weight	(see chart for specifics)			
Ratings and				
Certifications				

DIMENSIONS & LAYOUT



Sidewinder® Selector Guide

INLET SIZE/ TYPE	OUTLET SIZE	MA	MATERIALS BASES					
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
•	•	٠		s	0		48	8392
					2	2		Illustration

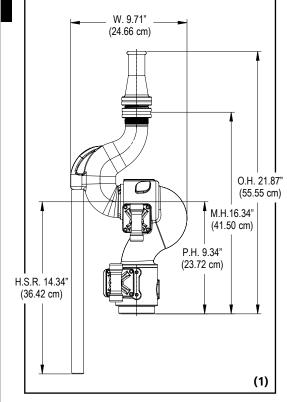
KEY s = standard o = option

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





ADDITIONAL INFORMATION

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

SCORPION® ELECTRIC

Scorpion[®] 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
 - 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)
- Liquid-filled pressure gauge





RECEPTACLE (7)

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SPECIFICATIONS						
Max. GPM (LPM)	2000 (7570)					
	Size	Туре				
Inlet	4″	150# ANSI Flange				
Outlet	3.5″ N	HT				
Controls	Electric					
Material/Finish	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°)					
	H 347°					
Weight	Variable (see chart for specifics)					
Ratings and Certifications	CE					

KEY CONFIGURATIONS (ACCESSORIES) TOGGLE CONTROL BOX (2) JOYSTICK CONTROL BOX (4) PANEL MOUNT HAND HELD HAND HELD

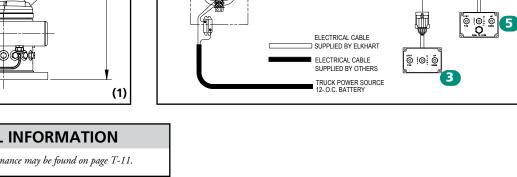
CONTROL (6)

DIMENSIONS & LAYOUT CONTROL COMPONENTS CONFIGURATION W. 13.13" (33.35 cm) 1 E RELAY CONTROL BO 的唱 BI 9 ₿∏]÷ 8 ō 0 ó Ø O.H. 36.65" (93.09 cm) 杰 Y M.H. 25.00" (63.50 cm) ∄ P.H. 15.58" (39.57 cm) ELECTRICAL CABLE SUPPLIED BY ELKHART ELECTRICAL CABLE SUPPLIED BY OTHERS <u>ö</u> 101 <u>ö</u> TRUCK POWER SOURCE 12-.O.C. BATTERY (1)

ADDITIONAL INFORMATION

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





CONTROL (3)

Scorpion[®] Electric Selector Guide

INLET SIZE/ TYPE	OUTLET SIZE	CONTROL MODULE VOLTAGE	MATERIALS	CERTIFICATIONS		
4" 150# ANSI Flange	3.5″ NHT	12V DC	Elk-O-Lite®	CE	WEIGHT (Lbs.)	MODEL
S	•	•	•	•	43	8294-04
			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∘	ST-195 – STACKED TIP	181-3 – DELUGE TIP	284A – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
		A		J
Page 6-7	Page 1-26	Page 1-26	Page 1-27	5-51

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

- Lightweight Elk-O-Lite[®] 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 stationary
 - 10 vertical and 39 horizontal adjustable stop positions
 - Tiller, in the "Big Stick[®]" 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
- 5-24 Liquid-filled pressure gauge

(Nozzle sold separately)

2000

GPM

8,000

LPM

Pressure gauge

Steel worm gears

200 PSI

14 bar

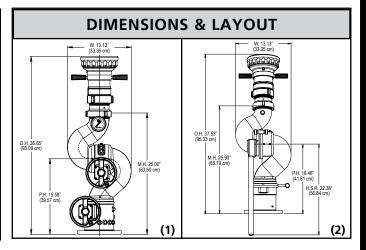
Choice of manual controls — dual hand-wheel or tiller

Fully vaned waterway

CE

SCORPION®

SPECIFICATIONS						
Max. GPM (LPM)	2000 (8000)					
	Size	Туре				
Inlet	4″	150# ANSI Flange				
Outlet	3.5″ N	HT				
Controls	Dual hand-wheel					
	"Big Stick®"					
Material/Finish	Elk-O-l	Lite [®] with red urethane enamel				
Friction Loss		at 2000 gpm				
	15 psi at 1250 gpm					
Travel	V -45° to +90° (135°)					
	H 360°					
Weight	38 Lbs.					
Ratings and Certifications	CE					



Scorpion[®] 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®	CSW-L – SELECT-O-FLOW®	284-A – STREAM SHAPER	181-3A – DELUGE TIP	84 – BUTTERFLY WAFER VALVE
					2
6-16	Page 6-7	6-13	Page 1-27	Page 1-26	5-51

ADDITIONAL INFORMATION

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

MONITORS

RAPID ATTACK MONITOR – R.A.M.®



RANX

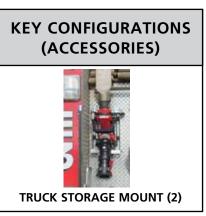
- Easily deployed and operated by a single firefighter
- Patent pending hydraulic stability system harnesses reaction force to stabilize the monitor
- Four fold-out forged aluminum legs with carbide-tipped ground spikes extend to the largest footprint in its class for exceptional stability
- Rear ground 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



5-26

RAPID ATTACK MONITOR – R.A.M.®

SPECIFICATIONS						
Max Flow	500 GPM (1893 I	.PM)				
Inlet	Size	Туре				
iniet	2.5″	NHT (F)				
Outlet Size	2.5" NHT					
Controls	Manual					
Material/Finish	Elk-O-Lite [®] with	red urethane enamel				
Friction Loss	9.5 psi at 500 gp	m				
	5.8 psi at 400 gp	m				
	V +14° to +51° (I	manned)				
Travel	V +35° to +51° (unmanned)				
	H 20° in both directions (40°)					
Weight	19.25 (Lbs.)					
Ratings and Certifications	CE					



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 1-26	Page 1-26	Page 1-27	6-16	

Components & Options Chart

	COMPONENTS & OPTIONS					
	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 Stack Tip	Outlets: 1", 1 ¼", & 1 ½"	4	ST-197-A		
Smooth Bore Nozzle	Triple Stack Tip	Outlets: 1 ¼", 1 ⅛", & 1 ½"	4	ST-197-A		
NOZZIE	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.®, the monitor automatically raises increasing the down force for additional stability - to prevent

ADDITIONAL INFORMATION

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



MON TORS

5-28



Stinger[®] 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 3³8" 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



SPECIFICATIONS								
		Portab	le		Deck Mount			
Max Flow	1	250 GPM (50	00 LPM)		1250 GPM (5000 LF	M)		
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 ure [.]	thane enamel	Elk-O-Lite [®] 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° (continuous)				
Weight	29 Lbs. (wit	h 2 x 2.5" in	lets)	22 Lbs.				

Stinger[®] 2.0 Selector Guide

INLET SIZES / TYPES						OUTLET SIZE		
SINGLE DUA					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	0	0	о	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.





ADDITIONAL INFORMATION

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

5-29

At a cele

STINGER[®] 2.0

KEY CONFIGURATIONS (ACCESSORIES)



Components & Options Chart

COMPONENTS & OPTION	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



Product Highlights

The Stinger[®] (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.



VULCAN™

Vulcan[™]

- Efficient design creates the most cost effective monitor in its flow class
- Low friction loss due to 3 ³/₈" patented elliptical waterway with vaned interior
- Small footprint less than 15" wide and requiring just 16" of clearance makes it ideal for tight spaces
- Lightweight Elk-O-Lite[®] construction is compatible with aerial platform applications 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



5-31



SPECIFICATIONS							
Max Flow	1250 G	iPM (5000 LPM)					
	Sizes	Types					
	4″	150# ANSI					
Inlets	7	Flange					
	3″	150# ANSI					
	5	Flange	NPT (F)				
Outlet	2.5″ N	HT					
	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°)					
Travel	H 360°	(continuous)					
Weight	Variable (see chart for specifics)						
Ratings and Certifications	CE						



HAND WHEEL (1)

TILLER BAR (2)

5-32 Vulcan[™] Selector Guide

IN	LET SIZES /	TYPES	OUTLET		CONTROL	5	CERTIFICATION		
NPT	150# AN	SI 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

Recommended Products

SM-1000HF – SELF-EDUCTING	SM-1250 – X-STREAM◎	ST-194 – QUAD STACKED TIPS	282-A – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
			Thing the second	J)
6-16	Page 6-7	Page 1-26	Page 1-27	5-51

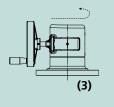
Components & Options

COMPONENTS & O	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

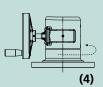
VULCAN™

Product Highlights

The Vulcan[™] 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.

ADDITIONAL INFORMATION

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

5-33

SPIT-FIRE



MONITORS

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[®]" 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
- 5-34 Liquid-filled pressure gauge



SPIT-FIRE

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SPECIFICATIONS							
Max Flow	2000 GPM (8000 LPM)						
	Size Types						
Inlets	4″	150# ANSI Flange	NPT				
Outlet Size	3.5″ NF	IT					
Controls	Dual hand-wheel						
	"Big Stick®" 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°)						
ITavei	H 360°						
Weight	126 Lbs.						
Ratings and Certifications	CE, FM Approved						



HAND WHEEL (1)

TILLER (BIG STICK®) (2)

8394-04 (3)

Spit-Fire Selector Guide

	INLET SIZES/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	FM Approved	WODEL
	0	S	•	•			•	•	8394-02
	о	s	•		•		•	•	8394-121
		s	•			•			8394-04
[1	2	3			Illustration

KEY s = standard o = option

Recommended Products (8394-021 & 8394-121)

SM-2000HF - SELF-EDUCTING	SM-2000B - SELECT-O-MATIC°	CSW-LB - SELECT-O-FLOW®	SM-2000BE - X-STREAM®		ENDED PR 8394-04)	D PRODUCTS -04)		
						1		
Page 6-16	Page 6-7 84 - BUTTERFLY	Page 6-13 284-B STREAM	Page 6-7	TOGGLE CONTROL E	BOX JOYSTIC	K CONTROL BOX		
TIP	WAFER VALVE	SHAPER	WPO-2000					
Ā	7				1			
Page 1-26	Page 5-51	Page 1-27	Page 5-53	PANEL MOUNT F	HAND HELD CONTROL	HAND HELD RECEPTACLE		



Water Powered Monitor Oscillator (8394-121)

Inlet	Max Operating Pressure	Speed	Arc of Oscillation	Material	Certification	MODEL	WPO-2000
4.0″	200 PSI (14 BAR)	0-30°/sec oscillating speed range - 24°/sec max @ 100 PSI (7 BAR)	15° to 120°	316 stainless steel		WPO-2000	
							No.

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 on select products)
- Fully enclosed gearcase
- Cast brass swivel joints
- #316 stainless steel balls in all swivel joints
- Grease zerks for easy lubrication

MONITORS

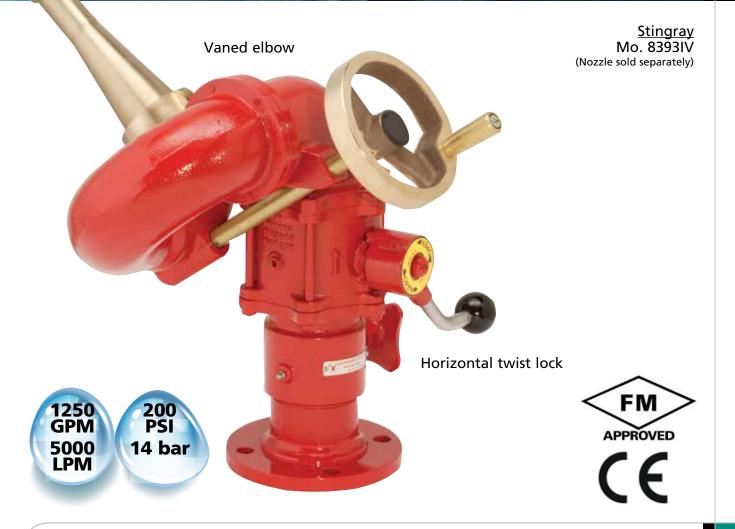
ADDITIONAL INFORMATION

- 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.

STINGRAY®

Stingray[®]

- 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[®] 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® IV) from a full flow 3" ball valve





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SPECIFICATIONS									
Max Flow	1250 GPM	1250 GPM (5000 LPM)							
	Sizes	Sizes Types							
Inlets	4″	150# ANSI Flange							
iniets	3″	150# ANSI Flange	NPT (F)						
Outlet Size	2.5" NHT								
Control	Single han	d-wheel							
Material/Finish	Brass or Ell	<-O-Lite [®] with red ureth	ane enamel						
Friction Loss	27 psi at 12	250 gpm							
	17 psi at 10	000 gpm							
	9 psi at 75) gpm							
Travel	V -60° to +	90° (150°)							
llavei	H 360° (coi	ntinuous)							
Weight	Varies (See	specification chart)							
Ratings and Certifications	CE and FM	Approved							

KEY CONFIGURATIONS (ACCESSORIES)								
	0 -							
PRESSURE GAUGE (3)	BALL VALVE (4)							
	PRESSURE							

Stingray[®] Selector Guide

	ET SIZ Types		OUTLET SIZE	VERT TRA	ical Vel	INTEC COMPO		MATERIAL		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		MATERIALS		CERTIFICATIONS		CERTIFICATIONS		DIMENSIONS			DIMENSIONS				_	
NPT	150 #	Flange	2.5″	-60° to +70°	-60° to +90°	Ball Valve	essure auge	ass	:-O-Lite®		proved	dth .)	pth .)	ight .)	eight bs.)	USTRATION	MODEL																																					
3"	3″	4″	NHT	(130°)	(150°)	3″	Pre Ga	Brä	EIK	Ë	FM Appi	Wi (In.	De (In.	He (In	(Lb We	ILL	мо																																					
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

Recommended Products

SM-1000HF – SELF-EDUCTING	IMS-500 SELECT-O-STREAM®	J- MYSTERY◎	282B STREAM SHAPER	181- SMOOTH BORE	SM-1250B X-STREAM◎
U					
Page 6-16	Page 6-12	Page 6-14	Page 1-27	Page 1-26	Page 6-7

Components & Options Chart

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

STINGRAY®

Product Highlights

Our Stingray[®] 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

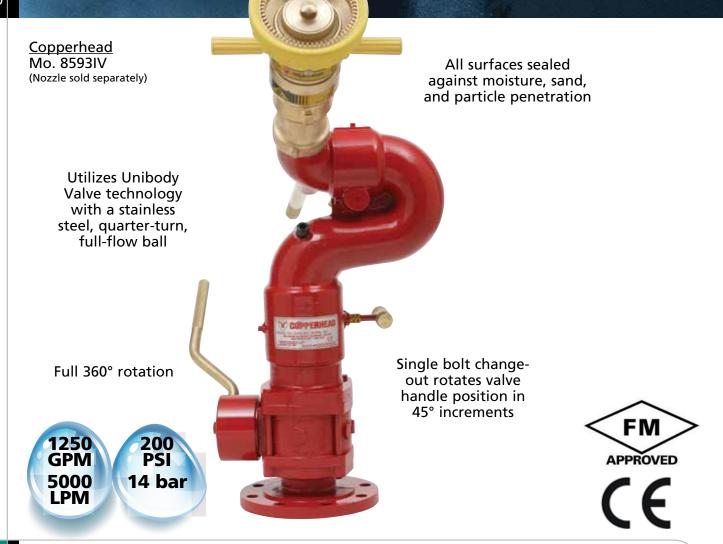
ADDITIONAL INFORMATION

- 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.



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 3³/₈" patented vaned elliptical waterway
- Small footprint less than 15" wide and requires just 16" of clearance makes ideal for tight spaces



COPPERHEAD

S	
r	
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HAND WHEEL (4)

5-41

SPE	SPECIFICATIONS								
Max Flow	1250 0	GPM (5000 LPM)							
	Sizes	Туре	5						
Inlets	4″	150# ANSI Flange							
iniets	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	le (see chart for s	specifics)						
Ratings and Certifications	CE, FN	1 Approved							



INTEGRATED VALVE (1)

TILLER BAR (3)

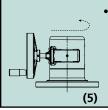
Copperhead Selector Guide

INL	ET SIZES	/ TYPES	OUTLET		CONTROLS		VERT TRA	TCAL VEL		EGRAL		CER CAT				
NPT	150# AN	ISI Flange	SIZE	Hand	wheels	Ti	llers	45 to +90°	49 to +86°	3″ Ball	Valve	auge		oved	u	MODEL
			2.5″	Fixed Base	Rotating Base	Copperhead Bar	Copperhead IV Bar	'		Hand-	Tiller	ressure G		Approved	Illustratio	MODEL
3″	3″	4″		(68 Lbs.)	(68 Lbs.)	(58 Lbs.)	(87 Lbs.)	(135°)	(135°)	wheel	Tiller	Pres	E	FM	snlli	
0	s*	0*	•			S		•				0	•	•	3	8593-02
ο	s	ο	•		s			•				ο	•	•	4,6	8593-03/ 294-11rev.06
ο	s	ο	•	S				•				ο	•	•	4,5	8593-03X/ 294-11rev.06x
		s	•				S		•	0	s	0		٠	1,2	8593IV
				4,5	4,6	3				2	1					Illustration

KEY s = standard o = option

*NOTE: 8593-02 with 3" & 4" 150# ANSI Flange are made from 85 Brass.

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:



• 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.

PRODUCT HIGHLIGHTS



• 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.

COPPERHEAD

Recommended Products

SM-1000HF – SELF-EDUCTING	SM-1250B – X-STREAM®	CSW-LB – SELECT-O-FLOW®	181 – DELUGE TIP
Page 6-16	Page 6-7	Page 6-13	Page 1-26
282B – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE	CJB – SELECT-O-STREAM®	IMS – SELECT-O-STREAM®
	J.		
Page 1-27	Page 5-51	Page 6-12	Page 6-12

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

Water Powered Monitor Oscillator (8593-02)

Inlet	Max Operating Pressure	Speed	Arc of Oscillation	Material	Certification	MODEL	WPO-2000
4.0″	200 PSI (13.8 BAR)	0-30°/sec oscillating speed range - 24°/sec max @ 100 PSI (6.9 BAR)	15° to 120°	316 stainless steel		WPO-2000	
							No. IN.



ADDITIONAL INFORMATION

- Weights are approximate and will vary by selected inlet.
- Technical Data on monitor performance may be found on page *T-11*.
- LA style handles available on the Copperhead.

PYTHON®

Python[®]

- 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 (5000)									
	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 (F)						
Outlet Size	2.5" NHT									
Controls	Steering wheel									
controls	Tiller									
Material/Finish	Brass with re	ed urethane enamel o	r chrome-plated							
	24 psi at 1250 gpm									
Friction Loss	18 psi at 100	00 gpm								
	11 psi at 750) gpm								
Travel	V -45° to +9	0° (135°)								
Ilavei	H 360° (continuous)									
Weight	45.00 Lbs. (S	ee specification chart)							
Ratings and Certifications	FM Approve	ed, CE								



Python[®] Selector Guide

	INLETS OUTLET SIZE				MAX. (LP	GPM M)		CONT	ROLS	CEI	RT.		DIMEN	ISIONS		FINIS	HES							
SIZES (INC							SIZE / TYPE (IN.)	1250	750	Gauge	Wheel		ar proved (In.) (In.)		(In.)		(Lbs.)	thane						
	NPT					NHT	(4/32)	(2839)	ssur	Steering	er Baı		Approv	dth	epth (In	Height (I	eight (d Uret	-ome-	MODEL				
2.5	3	4	2.5	3	4	6	2.5	3	4	2.5			Pre	Ste	Tille	E	FM	Wid	Del	Hei	We	Rec	chi	Σ
0	0	0	0	0	s	0	0	0	0	•	•			0	s	•	•	18.0	31.5	17.5	45.0	•		299-11
													3	2	1									Illustration

KEY s = standard o = option * Swivel

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
					D
Page 6-7	Page 6-12	Page 6-16	Page 1-27	Page 1-26	Page 5-51

Components & Options Chart

COMPONENTS	5 & OPTIONS	MODEL
Companion	3" 150# ANSI steel flange includes bolts and gaskets	81315001
Flange Kits	4" 150# ANSI steel flange includes bolts and gaskets	81317001
Drain Valve	Automatic ball drip drain valve	702

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.
- The Python' is also available in a hydrant mount version. Please see page 5-50 for details.

GIANT PYTHON®

Giant Python^{**}

- 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

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

Giant Python Mo. 299-20 (Nozzle sold separately)

FM

APPROVED

MONITORS

5-45

2500

GPM

10,000

LPM

Red urethane finish

> 3.5" flow-efficient waterway

> > 200 PSI

14 bar



GIANT PYTHON®

Giant Python® Selector Guide

		INL	et size	ES / TY	PES			OUTLET SIZE	CERT	TIFICATIONS		
N	РТ	150#	ANSI F	lange	300#	ANSI F	lange	2.5%	cr.		MODEL	
3″	4″	3″	4″	6″	3″	4″	6″	3.5″	CE	FM Approved		
0	0	0	s	0	0	0	0	•	•	•	299-20	
			1								Illustration	

KEY s = standard o = option

Recommended Products

CJK – MYSTERY®	SM-2000B – X-STREAM®	SM-2000HF – SELF-EDUCTING	181-3 – DELUGE TIP	284B – STREAM SHAPER	84 – BUTTERFLY WAFER VALVE
					D
Page 6-14	Page 6-7	Page 6-16	Page 1-26	Page 1-27	Page 5-51

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

		SPECIFICATION	S					
Max Flow	2500 GPM (10,000 LPM)						
	Sizes							
Inlets	6″	150# ANSI Flange	300# ANSI Flange					
mets	4″	150# ANSI Flange	300# ANSI Flange	NPT (F)				
	3″	150# ANSI Flange	300# ANSI Flange	NPT (F)				
Outlet Size	3.5" NHT							
Controls	Dual hand-v	vheel						
Material/Finish	Stainless ste	el with red urethane en	amel and brass trim					
Friction Loss	18 psi at 2500 gpm							
	6 psi at 125	0 gpm						
Travel	V -60° to +9	0° (150°)						
Ildvei	H 360° (con	tinuous)						
Weight	126.00 Lbs.							
Ratings and Certifications	FM Approve	ed, CE						

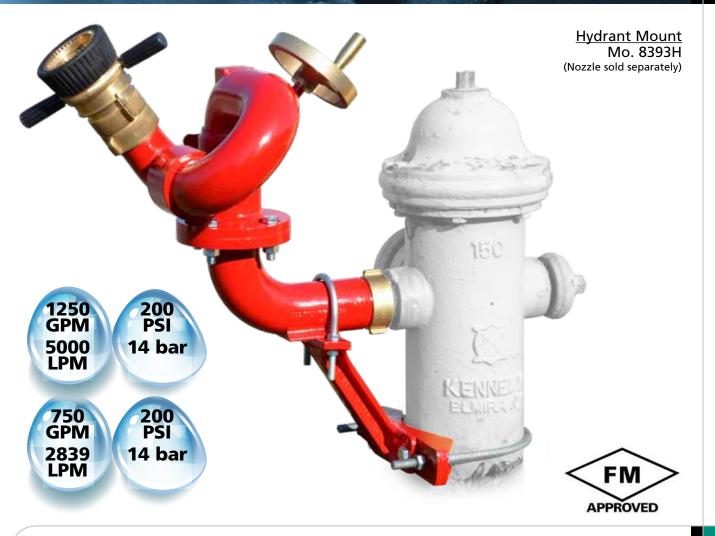
ADDITIONAL INFORMATION

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.

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





5-48

	SPECIFICATION	S
	8393H	299-11H
Max Flow	1250 GPM (5000 LPM)	750 GPM (2839 LPM)
Inlets	2.5" NHT (F)	2.5" NHT (F)
Outlet Size	2.5" NHT	2.5" NHT
Controls	Single hand-wheel	
Controls		Tiller
Material/Finish	Brass with red urethane enamel	Brass with red urethane enamel
	27 psi at 1250 gpm	11 psi at 750 gpm
Friction Loss	17 psi at 1000 gpm	
	9 psi at 750 gpm	
Travel	V -60° to +70° (130°)	V -60° to +70° (130°)
Havei	H 360° (continuous)	H 360° (continuous)
Weight Varies	85 lbs.	61 lbs
Ratings and Certifications	CE and FM Approved	CE and FM Approved

Hydrant Mount Selector Guide

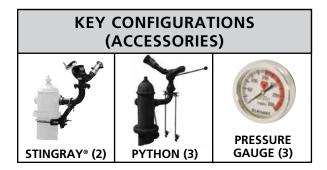
ADDITIONAL INFORMATION

- For 8393H, 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)

,							_									
INLET	OUTLET	MAX. (LPI		VERTICAL TRAVEL			CONNECTION TYPE			CERTIFIC	CATIONS	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	•	•	14.75	37.5	85.0	2	8393H
S	٠		•	S		•	•		0	•	•	17.75	25.5	61	3	299-11H
									3							Illustration

Recommended Products

HF-500 – HYDRO-FOAM	CJN-B – SELECT-O-STREAM®	J – MYSTERY®	181 – DELUGE TIP	282B – STREAM SHAPER
		Ĭ		
Page 6-16	Page 6-12	Page 6-14	Page 1-26	Page 1-27



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



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MONITORS

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

MANUAL ELEVATED

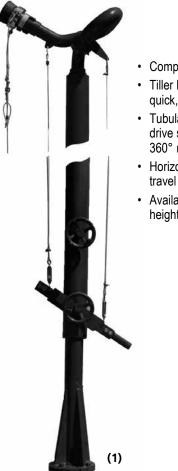
MONITORS

SPECIFICATIONS									
		299-11EL*		8394-02RC					
Max Flow		750	1000						
		Sizes / Types	/pes Size / T						
	6″	150# ANSI Flange							
Inlet	4″	150# ANSI Flange	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 ps	at 500 gpm	6 psi at 750 gpm						
Travel	V -37° to +45° (78°)			V -45° to +90° (135°)					
Traver		0° (continuous)	H 360° (continuous)						
Elevation Height	Min.	10′	Min. 0'						
	Max	. 40′	Max. 34'						
Weight	300	Lbs.	140 L	bs.					

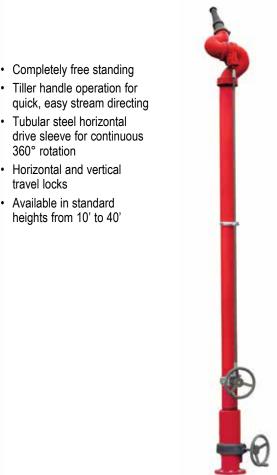
*All data supplied for 299-11EL assumes 10' riser pipe. Other lengths will change the data.

5-50

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
- · 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	T SIZES	CONT	ROLS			ELEVATIO	N HEIGHT			
150# /	ANSI*	Nł	łT	ial Hand-wheel	er Handle	Galvanized Waterway	er pplies			Max Flow Limit @ Max Height	USTRATION	
4″	6″	2.5″	3.5″	Du	Tiller	Ка Ка	Riser Supp	Min.	Max.	GPM (LPM)	⊒	MODEL
S	0	•			•	0	0	10′	40′	750 (2839)	1	299-11EL*
s			•	•				0′	34′	500 (1893)	2	8394-02RC

KEY: s = standard o = option Specify length when ordering.

* Per client installation

Components & Options Chart

COMPONENTS & O	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			
External Supply Iter	External Supply Items						
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.

90° INTAKE BASE

- Used with 299-11EL & 8394-02RC monitors
- Carbon steel construction
- 6"-150# & 6"-300# flange inlet
- 4"-150#, 6"-150#, & 6"-300# flange outlet
- Full 4" waterway
- Red epoxy finish

ACCESSORIES

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

Available with secondary panel mounted controller.

Components & Options Chart

COMPONENTS	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		

Manual Extender - 8599

18" or 12" rise

- Raises stream to prevent damage to apparatus equipment
- More ergonomic operating position
- Monitor operates in raised or lowered position
- Full 360° rotation in either position
- Automatically locks in up/down position
- Cannot be accidentally unlocked
- Prevents unintended extension under pressure
- Prevents unintended collapse when extended Built-in sensor for connection to cab indicator light
- Notifies personnel when Extender is NOT stowed and locked
- 3" waterway
- · Capable of 1250 gpm flow

Mounting Options

- Dual bracket
- Plate and saddle bracket
 Inlet Options
- 3" Victaulic
- 3" NPT
- 3" NPT with 150# Flange*
- **Outlet Options**
- 3" NPT
- 3" NPT with 150# Flange* *Flange sold separately



Easy-op latch design for safe and simple deployment

Packages

Available in 18" or 12" rise

PACKAGE 1	PACKAGE 2	
Manual Extender	Manual Extender	()
3" MNPT inlet	3" Victaulic inlet	
3" MNPT outlet	3" MNPT outlet	
Dual saddle brackets	Dual saddle brackets	
PACKAGE 3	PACKAGE 4	
Manual Extender	Manual Extender	Î
3" MNPT inlet	3" Victaulic inlet	
3" MNPT outlet	3" MNPT outlet	
Plate and saddle bracket	Plate and saddle bracket	ť.



MONITORS

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 NPT 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"
- Not recommended for salt water application



90° INTAKE BASE FOR ELEVATED MONITORS

- Used with 299-11EL & 8394-02RC monitors
- Carbon steel construction
- 6"-150# & 6"-300# flange inlet
- 4"-150#, 6"-150#, & 6"-300# flange outlet
- Full 4" waterway
- · Red epoxy finish

WPO-2000 WATER POWERED MONITOR OSCILLATOR

- Compatible for use with Elkhart Brass Manual Copperhead w/tiller bar or Manual Spitfire w/tiller bar monitors:
 - WPO-2000 (W/5.25" CLAMP) for the 8593-02 w/4"-150# FF flange
- WPO-2000 (W/6.5" CLAMP) for the 8394-121 w/4"-150# FF flange
- 4" Inlet
- 200 PSI (13.8 BAR) max operating pressure
- 0-30°/sec oscillating speed range
- Arc of oscillation 15° to 120°
- Brass & 316 stainless steel construction



0# 5-53

PORTABLE CARTS



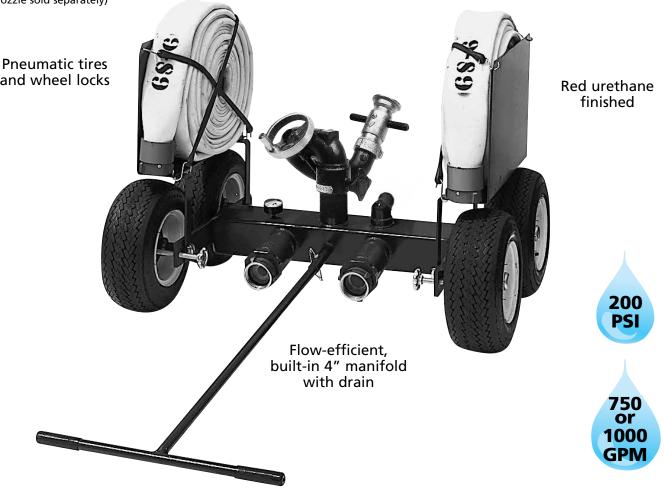
5-54

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 20° above horizontal
- Cart specific highlights include:
 - The two wheel cart attaches with a 1%" or 2" coupler; to the vehicle for extra stability during flow; two hose beds each capable of holding two (2) 50' sections of 21/2" 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 $2\frac{1}{2}$ " hose
- Liquid-filled pressure gauge

(Nozzle sold separately)

and wheel locks



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' (8393 series) details.

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

(2)

8393TW

SPE	SPECIFICATIONS									
Max. GPM (LPM)	(See selector guide for specifics)									
	2 x 2.5" NHT (F)								
	Optional Add	itional 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)									
navei	H L45° to R45° (90°)									
Weight	See selection	chart for specifics								

P

*8393-TW only																		
Portable	ortable Cart Selector Guide																	
INLET OPTIONS OUT- LET CART FEATURES VERTICAL TRAVEL CONTROLS DIMENSIONS																		
		*	*1	r*	*1				Gauge		(50°)	_		Inches)		NO	
Cart Type/ GPM (LPM)	5	.5″ NHT	.5" NHT Storz	5" NH ⁻ torz	*THN "3	NHT	dle	er		Beds	70°	wheel			Ţ	it (Lbs.)	USTRATION	
	Monitor	2 X 2.5	2 × 2.5 +4" S	2 x 2.5' +5" St	4 x 2.5"	2.5″ N	T Handle	Coupler	Pressure	Hose I	+20° to	Single Hand-1	Width	Depth	Height	Weight	ILLUST	MODEL
2-Wheel/ 1000 (3875)	Stingray 8393	s	ο	ο	0	•		⊗	s	s	•	S	67.00	72.00	34.00	310.0	1	8393TW
4-Wheel/ 750 (2839)	Stingray 8393	s	ο	ο	0	•	s		s	ο	•	S	67.00	72.00	34.00	230.0	2	8393FW

KEY s = standard o = option

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

Storz inlet carts have 2.0" coupler - 2 x 2.5" & 4 x 2.5"NHT have 1.875" coupler

Recommended Products

SM-1000HF – SELF-EDUCTING	IMS-500 – SELECT-O-STREAM®	J – MYSTERY®	181 – DELUGE TIP	282B – STREAM SHAPER
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MONITORS