

MONITORS



COPPERHEAD

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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 it ideal for tight spaces

5-40

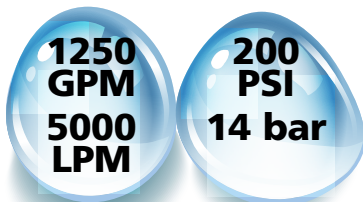
Copperhead
Mo. 8593IV
(Nozzle sold separately)

All surfaces sealed
against moisture, sand,
and particle penetration

Utilizes Unibody
Valve technology
with a stainless
steel, quarter-turn,
full-flow ball

Full 360° rotation

Single bolt change-
out rotates valve
handle position in
45° increments



SPECIFICATIONS			
Max Flow	1250 GPM (5000 LPM)		
Inlets	4"	150# ANSI Flange	
	3"	150# ANSI Flange	NPT (F)
	2.5" NHT		
Outlet	2.5" NHT		
Controls	Tiller		
	Dual hand-wheel – rotating base		
	Dual hand-wheel – fixed base		
Material/Finish	Brass with red urethane enamel		
Friction Loss Copperhead	16 psi at 1250 gpm		
Friction Loss Copperhead IV	12 psi at 1000 gpm		
Travel	21 psi at 1250 gpm		
	16 psi at 1000 gpm		
	V -45° to +90° (135°)		
Weight	V -49° to +86° (135°)		
	H 360° (continuous)		
	Variable (see chart for specifics)		
Ratings and Certifications	CE, FM Approved		



INTEGRATED VALVE (1)



TILLER BAR (3)



HAND WHEEL (4)

Copperhead Selector Guide

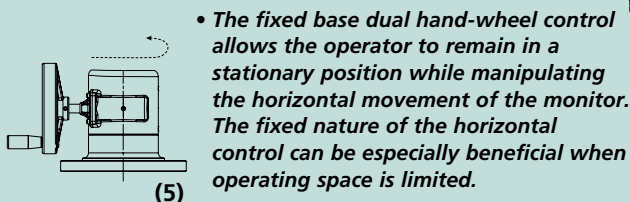
INLET SIZES / TYPES			OUTLET SIZE	CONTROLS				VERTICAL TRAVEL		INTEGRAL COMPONENTS		CERTIFICATION		MODEL	
NPT	150# ANSI Flange			Hand-wheels	Tillers		-45 to +90° (135°)	-49 to +86° (135°)	3" Ball Valve		Pressure Gauge	CE	FM Approved		
3"	3"	4"	Fixed Base (68 Lbs.)		Rotating Base (68 Lbs.)	Copperhead Bar (58 Lbs.)			Copperhead IV Bar (87 Lbs.)	Hand-wheel				Tiller	Illustration
o	s*	o*	•			s		•			o	•	•	3	8593-02
o	s	o	•		s			•			o	•	•	4,6	8593-03/ 294-11rev.06
o	s	o	•	s				•			o	•	•	4,5	8593-03X/ 294-11rev.06x
		s	•			s			•	o	s	o	•	1,2	8593IV
				4,5	4,6	3				2	1				Illustration

KEY s = standard o = option

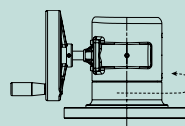
*NOTE: 8593-02 with 3" & 4" 150# ANSI Flange are made from 85 Brass.

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:



- 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 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.




Recommended Products

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

Components & Options Chart

COMPONENTS & OPTIONS		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

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	

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.