

# MONITORS



MANUAL ELEVATED

MONITORS

## Manual Elevated

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



5-55



Available free  
standing up to 40'

200  
PSI

1000  
GPM

SPECIFICATIONS							
	294-11CW			299-11EL*		8394-02RC	
Max. GPM (LPM)	1000			750		1000	
Inlets	Size / Type			Sizes / Types		Size / Type	
	4"	150# ANSI Flange	NPT (F)	6"	150# ANSI Flange	4"	150# ANSI Flange
Outlet	2.5" NHT			2.5" NHT		3.5" NHT	
Controls	Dual chainwheel			Tiller with locks		Dual hand-wheel	
Material/Finish	Brass with red urethane enamel			Brass and steel with red urethane enamel		Brass with red urethane enamel	
Friction Loss (excludes head loss)	17 psi at 1000 gpm			13 psi at 750 gpm		10 psi at 1000 gpm	
	11 psi at 750 gpm			8 psi at 500 gpm		6 psi at 750 gpm	
Travel	V -60° to +90° (150°)			V -37° to +45° (78°)		V -45° to +90° (135°)	
	H 360° (continuous)			H 360° (continuous)		H 360° (continuous)	
Elevation Height	Per client Installation			Min. 10'		Min. 0'	
				Max. 40'		Max. 34'	
Weight	139 Lbs.			300 Lbs.		140 Lbs.	
Ratings and Certifications							

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

### 294-11CW



(2)

- For mounting on customer supplied riser
- 360° continuous rotation
- Non-sparking, aluminum chainwheels and rollers
- Swivel joints furnished with grease zerks
- Chrome-plated worm gears
- Standard style aluminum chain not included



## MANUAL ELEVATED

**299-11EL**



(1)

- Completely free standing
- Tiller handle operation for quick, easy stream directing
- Tubular steel horizontal drive sleeve for continuous 360° rotation
- Horizontal and vertical travel locks
- Available in standard heights from 10' to 40'

### 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.

**8394-02RC**



(3)

- 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
- 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		CONTROLS			Galvanized Waterway	Riser Supplies	ELEVATION HEIGHT		Max Flow Limit @ Max Height	ILLUSTRATION	MODEL
NPT	150# ANSI*		NHT		Dual Hand-wheel	Dual Chainwheel	Tiller Handle			Min.	Max.			
4"	4"	6"	2.5"	3.5"	•	•	•	o	o	10'	40'	750	1	299-11EL*
o	s		•		•	•				*	*	750	2	294-11CW
	s			•	•	•				0'	34'	500	3	8394-02RC

KEY s = standard o = option  
Specify length when ordering.  
\* Per client installation

### Components & Options Chart

COMPONENTS & OPTIONS			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 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		
Operating Chain	294-11CW	0.25" non-magnetic aluminum chain for chainwheel (suggest McMaster-Carr part #3620T21)		

### Recommended Products

CJ-B-RC – SELECT-O-STREAM®	283B – STREAM SHAPER	181 – DELUGE TIP
		
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### 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)