



REMOTE HYDRAULICALLY OPERATED MONITOR 03 RCHM294



Progard remote controlled monitors are engineered to stand guard over chemical plants, refineries, loading docks, tanker berthing, railroad yards, offshore platforms, etc. The instant the monitor is needed for fire protection or actual fire fighting, it can be activated from a remote location where the operator can turn on the water supply; direct the monitor vertically or horizontally; and change the stream pattern of the nozzle; all from a safe distance. There is even an option that the monitor to oscillate automatically, thus freeing the operator to tend to other duties.

The system includes a monitor, nozzle, valve box complete with hydraulic pump/motor/tank unit, and a control box with complete panel of function switches. Both the valves and control box are available in either NEMA 4 stainless steel for unclassified areas or NEMA 4/7 cast aluminium for Class 1, Division 1, Groups B, C & D hazardous areas. Several monitors can be operated from one control station with the option of a secondary control station at another remote location.

Equipment Description:

Monitors are 304SS stainless steel construction, able to offer years of dependable service in all environmental conditions. Horizontal and vertical movements are driven by powerful hydraulic actuators with enough torque to move the monitor even under the most adverse conditions. These actuators, are constructed of materials suitable for saltwater atmosphere, have built-in hydraulic flow controlling and adjusting needle valves. The vertical actuator allows the monitor to travel between 90° above to -60° below the horizontal.

The horizontal actuator is available for rotation of 90°, 180°, 270° or 360° (to specify). All ball races are furnished with bronze balls and have grease zerks for ease of lubrication. Both vertical and horizontal spur gears have safety covers.

Furnished with standard PGM-SM1250-HP automatic gallonage nozzle that flows from 300 to 1,000 gpm. Nozzle stream pattern from straight stream to full fog is controlled by a hydraulic piston that incorporates a flow adjustable needle valve.

These remote controlled monitors are designed for installation at ground or on top of an elevated riser pipe. Finish: Red acrylic/urethane enamel. Width: 17.5" (445 mm). Depth: 23" (584 mm). Height: 27" (686 mm). Weight: 160 lb. (72.7 kgs).

Model	Flow GPM	Discharge Tip	Base Inlet Size
03 RCHM294	300 - 1000	2½" male NHT	4" ANSI 150# FF flange

System Package

Valve Box / Hydraulic Source

Contains three 4-way solenoid activated, hydraulic valves and a hydraulic pump/motor/tank unit to power one monitor. Wired with terminal strips for easy electrical hookup. All hydraulic connections plumbed with 0.375" OD tube fittings. Pump has a 24 vdc electric motor with built-in check valve, relief valve and pressure gauge. Tank consists of 46 cubic inch reservoir. Furnished in NEMA 4X stainless steel enclosure or NEMA 7/4 cast aluminium.

Master Control Box / Panel

Contains controls for monitor (up to 6 monitors) functions. Standard controls include: Standby pilot light, water valve on/off switch with pilot light, monitor left/right and up/down (4-way joystick) and nozzle fog/straight stream switch. Main power is terminated at valve box. Standard power requirement is 220 volts, 50hz. Power from the valve box to control box is 24 vdc. Maximum distance from valve box to control box is 3,000 feet (792m). Wired with electrical terminal strips. Furnished in NEMA 4X stainless steel enclosure or NEMA 7/4 cast aluminium enclosure.

Secondary Control Box / Panel

As an option, a secondary control box can be provided and would be similar in function to the master control panel.