
No. 27

### McDONNELL No. 27 Make-up Water Feeder for Receivers

Teams up with McDonnell No. 150 or No. 157—assures an adequate minimum supply of water in receiver at all times. Features large feeding capacity, well-guided valve action, all-brass construction of valve assembly. Models also available without float bowl for mounting right inside of receiver. Maximum receiver pressure, 35 lbs; maximum supply pressure, 100 lbs.

## 3 HOT WATER SPACE HEATING BOILERS

### Service Recommendations

**Boiler Water Feeders and Feeder Cut-off Combinations**

| Boiler Size (Btu/hr Output) | | | Maximum Boiler Pressure | McDonnell Product to Use | |
|---|---|---|---|---|---|
| Differential Pressure 10 lbs* | Differential Pressure 20 lbs* | Differential Pressure 30 lbs* | | For Automatically Fired Jobs | For Hand Fired Jobs |
| 1,000,000 | 1,400,000 | 1,800,000 | 30 lbs | No. 247-2 | No. 247 |
| 2,000,000 | 3,000,000 | 3,750,000 | 35 lbs | No. 51-2 | No. 51 |
| 2,100,000 | 2,800,000 | 3,300,000 | 75 lbs | No. 53-2 | No. 53 |

* Differential Pressure equals water supply pressure less boiler pressure.

**Low Water Fuel Cut-off (only) (*for Automatically Fired Jobs*)**

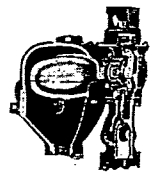
McDonnell No. 63. For boilers of any size. Maximum Boiler Pressure, 50 lbs.

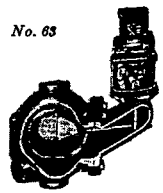
***ASME* Safety Pressure Relief Valves**

| Boiler Size (Btu/hr Output) | Opening Pressure | McDonnell Product to Use |
|---|---|---|
| 303,000 | 30 lbs | No. 230 ¾ In. |
| 743,400 | 30 lbs | No. 230 1 In. |
| 1,025,100 | 30 lbs | No. 230 1½ In. |
| 1,488,000 | 30 lbs | No. 230-M1 |
| 1,928,400 | 30 lbs | No. 230-M2 |
| 2,150,400 | 30 lbs | No. 230-M3 |

### McDONNELL Boiler Water Feeders and Feeder Cut-off Combinations

Experience has shown that hot water heating boilers, just like steam boilers, can run into low water trouble—as a result of leakage in the system, prolonged discharge from pressure relief valves, or simple negligence. Best answer is a McDonnell feeder cut-off combination for automatically fired boilers, and a boiler water feeder for hand fired jobs. No. 247-2 is a modification of the dependable 47-2, but without "Quick-Hook-Up." No. 51-2 and No. 53-2 are larger capacity and higher pressure feeder cut-off combinations. (No. 47-2, 51-2 and 53-2 are described under "Low Pressure Steam Boilers.")


No. 247-2

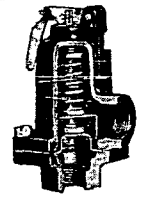

No. 63

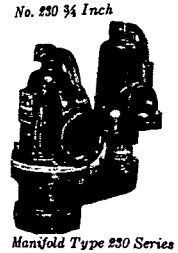
### McDONNELL No. 63 Low Water Fuel Cut-off

Suitable for boiler pressures to 50 lbs, the No. 63 is ideal for cut-off service on hot water boilers. Has time-tested No. 2 low water cut-off switch, center pivoted bellows construction. *Underwriter's* approved. Can also be used on steam boilers.






No. 230 ¾ Inch


Manifold Type 230 Series

### McDONNELL 230 Series *ASME* Pressure Relief Valves for Hot Water Space Heating Boilers

The 230 Series was developed to provide dependable protection against over pressure at a moderate price. Each valve in the series conforms to *ASME* Boiler Code in every respect, and has been certified, and Btu-rated by the *National Board*. All operating parts are of noncorrosive materials. Valve seat is brass, valve disc of silicone. Testing lever is independent of valve action, cannot interfere even if tied down. All connections are internal tappings.

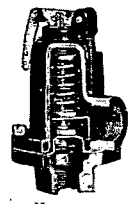
Six sizes are available, three individual valves and three manifold valves. These manifold valves offer two units, set to open at progressively higher pressures, on a common manifold; they have the advantage of keeping discharge from larger boilers in step with the actual need, avoiding water waste when only a small discharge to take care of thermal expansion is required.

## 4 DOMESTIC HOT WATER TANKS AND HEATERS

### Service Recommendations

***ASME* Safety Pressure Relief Valves**

| Opening Pressure | Capacity Btu/hr | McDonnell Product to Use |
|---|---|---|
| 75 lbs | 502,000 | No. 230-75 |
| 100 lbs | 640,000 | No. 230-100 |
| 125 lbs | 783,000 | No. 230-125 |
| 150 lbs | 925,000 | No. 230-150 |


No. 230-75

### McDONNELL 230 Series Pressure Relief Valves For Hot Water Tanks and Heaters

Used to guard against dangerous over-pressure, the McDonnell 230 Series valves conform to the *ASME* Boiler Code and have been tested and Btu-rated by the *National Board*. Available with four standard opening pressures. Construction features non-corrosive materials for all operating parts, independent action test lever, internal tappings for connections. For larger hot water tanks, two and three valve assemblies are available, up to 125 lbs maximum pressure.

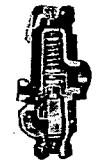
### McDONNELL No. 201 Temperature Relief Valve

Safeguards hot water tanks and heaters against excessive temperature. *A.G.A.* listed for heat input to 1,200,000 Btu/hr. Vernatherm element provides positive operation, drip tight reseating. Extra connection for fixture flow simplifies pipe hook-up, improves operation. In regular or dip tube models.


No. 201

### McDONNELL No. 202 Combination T & P Relief Valve

Combines working mechanism of 230 Series and No. 201—safeguards hot water tanks against both pressure and temperature. Pressure side is steam rated at 644,000 Btu/hr. Temperature side *A.G.A.* listed for heat input to 725,000 Btu/hr. In regular or dip tube models.


No. 202