

McDonnell & Miller, Inc.

Safety Devices for Steam and Hot Water Heating Boilers . . . Liquid Level Controls
3500 North Spaulding Ave., Chicago 18, Illinois

Doing One Thing Well

The McDonnell line consists of (1) boiler water feeders, low water fuel cut-offs and combined feeders and cut-offs for low pressure steam boilers of all sizes and types, hand-fired or automatically fired; (2) pump controls, low water fuel cut-offs and low water alarms for steam boilers of any size or type with pressures up to 150 lbs; (3) boiler water feeders and low water fuel cut-offs for hot water

heating boilers; (4) pressure relief valves for hot water heating boilers and domestic hot water heaters, and temperature relief valves and combination T & P relief valves for hot water heaters; (5) make-up water feeders for receiving tanks and other liquid level controls for special applications; (6) water level controls for humidity pans of warm air furnaces.

Service Recommendations SAFETY FEEDERS FOR STEAM BOILERS

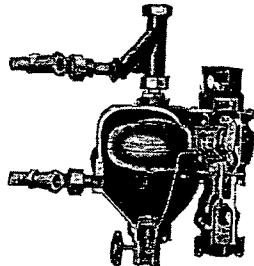
Boiler Size	Maximum Steam Pressure	McDonnell product to use
HAND FIRED JOBS		
Up to 5000 sq ft	25 lbs	No. 47 Boiler Water Feeder
Above 5000 sq ft	35 lbs	No. 51 Boiler Water Feeder
Any size	75 lbs	No. 53 Boiler Water Feeder

AUTOMATICALLY FIRED JOBS

Boiler Water Feeder—Low Water Cut-off Combinations

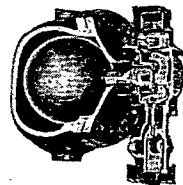
Up to 5000 sq ft	25 lbs	No. 47-2 Feeder Cut-off Combination
Above 5000 sq ft	35 lbs	No. 51-2 Feeder Cut-off Combination
Any size	75 lbs	No. 53-2 Feeder Cut-off Combination

Boiler water feeders, feeder-cut-off combinations, and low water cut-offs . . . for low and moderate pressure steam boilers



McDonnell No. 47-2

McDonnell No. 47-2 Feeds water when necessary to maintain safe water level in boiler. If water falls to 1/4 in. in gage glass, cut-off switch cuts burner current until emergency has passed. Has "Quick - Hook - Up" for installation in gage glass tappings; "cool" feed valve; extra-deep sediment chamber; ASME-approved blow-off valve. Also available for hand fired without No. 2 switch, as No. 47 Feeder.



McDonnell No. 51-2

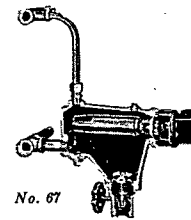
McDonnell No. 51-2 is same as No. 47-2, except it has greater feeding capacity for larger boilers, and is installed with 1 in. equalizing pipes instead of "Quick-Hook-Up." Also available for hand fired boilers without No. 2 switch, as No. 51 Feeder.

For boilers operating at higher pressures, from 35 to 75 lbs, use McDonnell No. 53-2 (or No. 53, without switch).

Service Recommendations

CUT-OFFS FOR STEAM BOILERS

Boiler size	Maximum Steam Pressure	McDonnell Product to use
Any size	20 lbs	No. 67 Low Water Fuel Cut-off
Any size	50 lbs (Steam or Water)	No. 63 Low Water Fuel Cut-off
Any size	150 lbs	No. 150 or No. 157 Low Water Fuel Cut-off



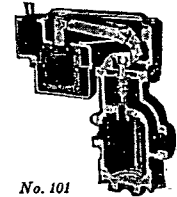
No. 67

McDonnell No. 67 Low Water Cut-off
For automatically fired steam boilers of any size
Maximum steam pressure, 20 lbs.

Has McDonnell "Quick-Hook-Up" for installation in gage glass tappings; deep sediment chamber with large opening blow-off valve; packless non-binding construction; adjustable terminal box; snap-action twin switches. One switch can sound low water alarm, or control McDonnell No. 101 Electric Water Feeder; second switch cuts burner current if water level drops to 1/4 in. in gage glass.

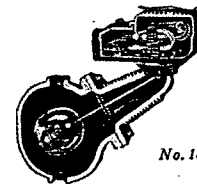
McDonnell No. 101 Electric Boiler Water Feeder
for boilers up to 5000 sq ft capacity.

For use with No. 67 Low Water Cut-off or with McDonnell "built-in" Low-Water Cut-offs which are standard equipment on many modern heating boilers. Its use converts cut-off into feeder cut-off combination.



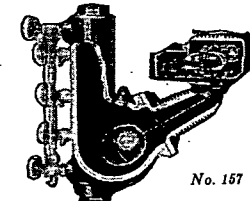
No. 101

McDonnell Pump Control, Low Water Fuel Cut-off and Alarm Switch
for steam boilers of any size; maximum steam pressure, 150 lbs.



No. 150

The McDonnell No. 150 Pump Control, Cut-off and Alarm switch for high pressure and temperature. Has two switches; one controls electric feed pump or electric valve in line to steam pump; second stops burner on greater float drop and completes alarm circuit. Underwriters' Laboratories approved. No. 150 has automatic reset; for manual reset order No. 150-M.



No. 157

No. 157 is same as No. 150, but has integral water column which simplifies installation, assures ideal reproduction of boiler water level in float chamber, and provides effective direct blow-down. No. 157 has automatic reset; for manual reset order No. 157-M.