

# VALVES OIL PRESSURE RELIEF

**MODEL:** 1801-OPR  
1802-OPR-UL

Revision: 0

**BULLETIN**  
1801 & 1802

## DESCRIPTION

The **OPR Oil Pressure Relief Valves** are spring controlled units designed to permit a flow when the inlet pressure exceeds the pressure setting. A pressure rise of 30% over the initial start to open point modulates the valve to the full open position.

The fuel oil pressure reducing and relief valves should be installed at each oil pump to bypass excess flow around the pump and maintain a constant oil pressure to the system. They may also be connected to return to the fuel tank.

The relief valve must be selected for the maximum pump capacity and the oil viscosity used. Recommended installation is vertical with spring adjustment in a convenient position.

On initial start up the spring should be adjusted for normal operating line pressures. The valve will then bypass oil flow up to its maximum capacity and prevent over pressure pump damage.



## CAPACITY TABLE

Model Number	Capacities in GPH @ 50 psig Drop and Various SSU Viscosities		
	100	500	2,000
3 OPR 3 OPR-UL	360	160	80
4 OPR 4 OPR-UL	480	210	100
6 OPR 6 OPR-UL	1,100	500	240
8 OPR 8 OPR-UL	1,800	800	400
10 OPR	3,500	1,500	770
12 OPR	5,600	2,500	1,200
16 OPR	10,000	4,500	2,200

Note: UL listed valves supplied with factory set pressures.

## FEATURES

- Rugged cast iron body.
- Spring adjustment from 20 to 100 psig.
- Stainless steel valves and seats.
- Available in 3/8" through 2" pipe sizes.
- UL listed valves have brass bodies.

**CAUTION:** Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.



**pyronics inc.**

COMBUSTION FOR INDUSTRY

17700 MILES ROAD  
CLEVELAND, OH 44128  
www.pyronics.com

Tel: 216-662-8800  
Fax: 216-663-8954  
marketing@pyronics.com

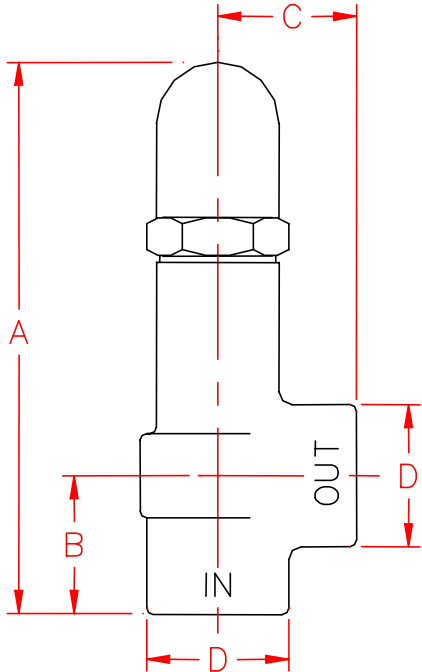
**NOTICE:** PYRONICS practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

# VALVES

## OIL PRESSURE RELIEF

BULLETIN  
1801 & 1802  
PAGE NO.2

### DIMENSIONS

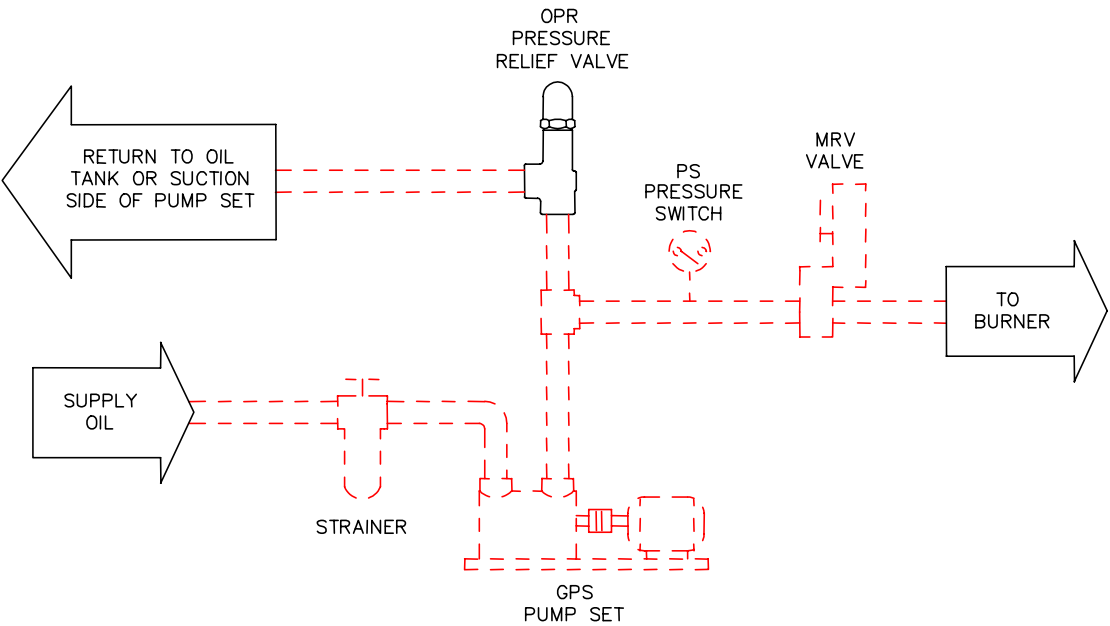


Model No.	Pipe Size	A	B	C	D	WEIGHT LBS.
3 OPR 3 OPR-UL	3/8	5-11/32	1-11/32	1-11/32	1-3/8	1.50
4 OPR 4 OPR-UL	1/2	6-3/16	1-11/16	1-7/16	1-7/16	2.00
6 OPR 6 OPR-UL	3/4	6-15/16	1-15/16	1-13/16	1-11/16	3.00
8 OPR 8 OPR-UL	1	8-7/32	2-9/32	2-9/32	2-1/16	5.00
10 OPR	1-1/4	9-9/16	2-9/16	2-9/16	2-1/2	9.00
12 OPR	1-1/2	11-1/16	2-11/16	2-11/16	2-7/8	13.00
16 OPR	2	13	3	3	3-1/4	20.00

Note: All dimensions are in inches.

### TYPICAL PIPING SYSTEM

Note: Refer to NFPA 31 for recommended installation of pumping system.



### ORDERING INFORMATION

1. Specify Model Number and Quantity.
2. When ordering U.L. listed valves, you must specify working pressure.
3. Shipping Instructions