



## DESCRIPTION

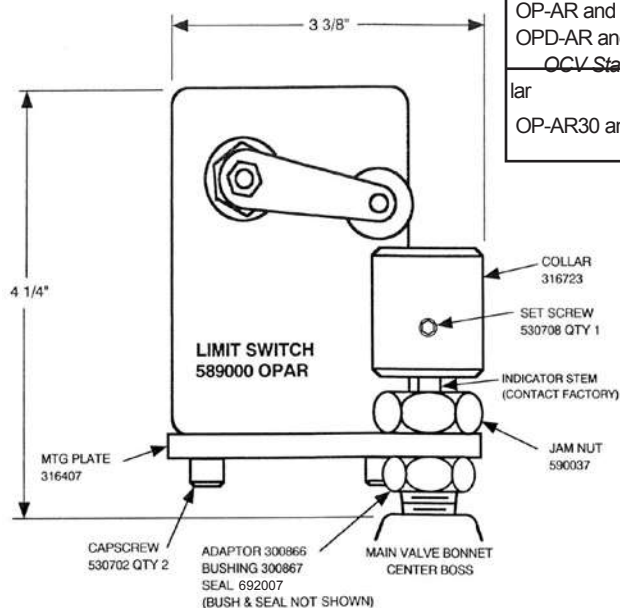
### MODEL 31 LIMIT SWITCH ASSEMBLY

- Provides electrical indication of valve position.
- Adjustable to any point of valve travel.
- Heavy-duty stem seal.
- Installed without disassembly of valve.
- Available in weatherproof or explosion-proof enclosures.
- SPDT contacts (standard) DPDT (optional)

The Model 31 Limit Switch Assembly is a device that uses movement of the valve stem to make or break electrical contacts at designated points in the valve travel. It consists of an adaptor threaded into the center port of the valve bonnet, a rod threaded into the main valve stem, a heavy-duty stem seal, an actuating collar, and the switch unit. It may be installed on virtually any OCV control valve, and can be done so without any disassembly of the valve itself.

WHERE USED - Standard on Series 125/126 Pump Control Valves.  
Optional on all other series control valves.

## MODEL 31 ASSY MATRIX



SWITCH TYPE	VALVE CLOSED	VALVE OPEN
OP-AR and EX-AR (SPDT)	N.C. contact(s) closed	N.C. contact(s) open
OPD-AR and EXD-AR-3 (DPDT)	N.O. contact(s) open	N.O. contact(s) closed
OCV Standard Configuration	Switch roller OFF collar	Switch roller ON collar
OP-AR30 and EX-AR30 (SPDT)	N.C. contact(s) open	N.C. contact(s) closed

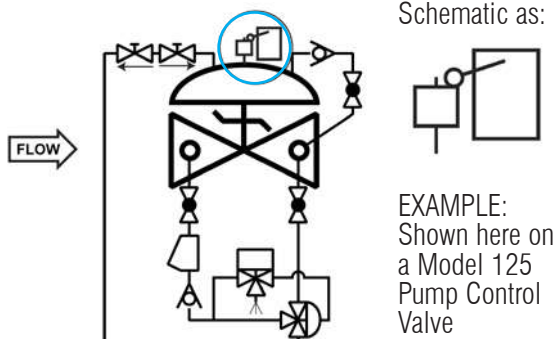
VALVE SIZE	PART NUMBER OP-AR (SPDT) Weatherproof	PART NUMBER EX-AR (SPDT) Explosion proof
1 1/4" - 1 1/2"	Consult factory	Consult factory
2" - 4"	252710	252413
6" - 8"	252720	252423
10 - 12"	252730	Consult factory
14" - 16"	252740	Consult factory

These part numbers include Buna-N stem seal. Consult Factory for part numbers on DPDT, other stem seals, and all model 31 switches shown in the Actuation matrix.

NOTE: Factory recommended valve installation should allow for indicator rod to be in the vertical position.

## SCHEMATIC SYMBOL

The Model 31 is shown on OCV Valve Schematic as:



## ELECTRICAL RATING

SPDT: 15 amps @ 125-480 VAC  
1/2 amp @ 125 VDC, 1/4 amp @ 250 VDC  
DPDT: 10 amps @ 125-250 VAC  
0.3 amp @ 125 VDC, 0.15 amp @ 250 VDC

## ENCLOSURES

OP Switches Weatherproof NEMA 4  
EX Switches Explosion Proof NEMA 7, 9

## MATERIALS

Indicator Rod: Stainless Steel  
Adapter: Stainless Steel  
Collars: Stainless Steel

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Limit Switch Assembly 31