

# Hydromechanical Diesel Fuel Shutoff Valve

---

Model 4164

## Typical applications

- Fuel shutdown or idle valve on diesel or gasoline engines
- Senses pressure drop from a hydraulic system circuit
- Suitable for mining machinery and ideal for other machinery where monitoring is done without electricity

## Key benefits

- Positive fuel shutoff (without needle valve)
- Engine to idle (with needle valve)
- Mounts easily
- Low friction seals
- Excellent repeatability
- Operates on engine oil pressure

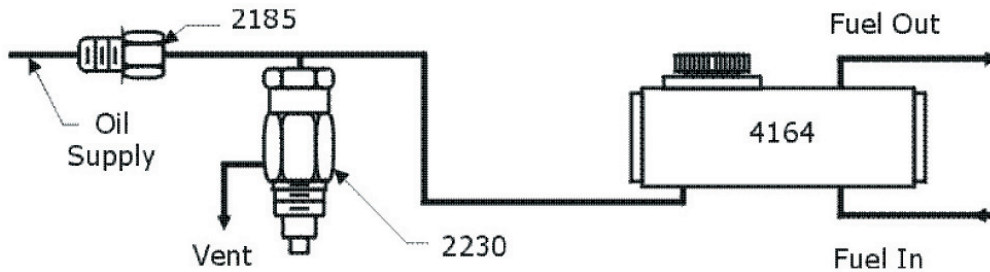


**Model 4164  
Hydromechanical Diesel  
Fuel Shutoff Valve**



# Hydromechanical Diesel Fuel Shutoff Valve - Model 4164

## Operation



**Typical use in Low Oil Pressure / High Water Temperature Shutdown system. Orifice 2185 required to provide fast vent on High Water Temperature fault.**

### Notes

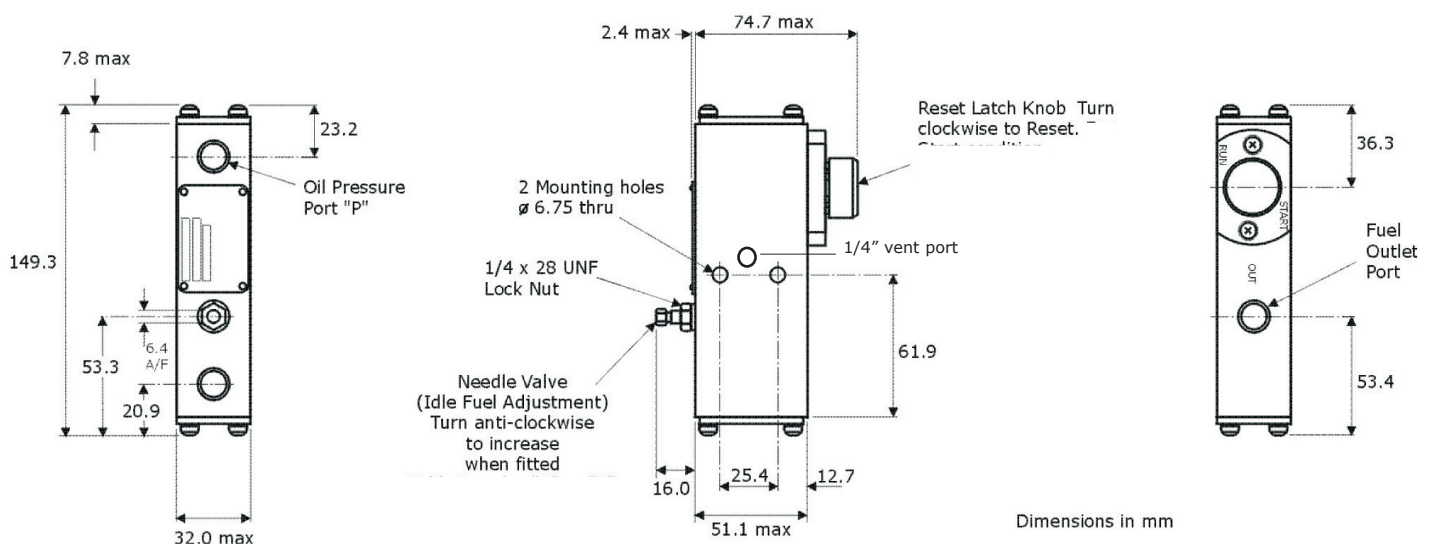
1. Rise of trip setting per 100 psi (6.9 bar) rise of fuel pressure = 2 psi (0.14 bar)
2. Max. working pressure:  
Fuel IN port = 200 psi (20.7 bar)  
Pressure P port = 150 psi (10.34 bar)
3. Reset knob must return to run position after machine starts

To start, the valve reset knob must be set at the 'start' position. After the engine starts the reset knob will automatically go to the run position if the valve is equipped with auto reset latch dropout.

If the valve is not equipped with auto reset latch, the dropout knob must be held in start position until oil pressure builds, then released knob will automatically go to the run position.

Operation of the Model 4164 is entirely mechanical, with lube-oil pressure used as the control medium. This feature eliminates the possibility of safety shutdown system failure due to vibration, corrosion or external (electrical) power failure.

## Dimensions - 4164



# Hydromechanical Diesel Fuel Shutoff Valve - Model 4164

## Specification check list

Use the tables below to select the unique specification of your 4164 fuel valve

Please select one characteristic from each section. Each characteristic is associated with a code that you will need to state when ordering.

Falling pressure setting	Code	✓
5.0 psi (0.34 bar)	tolerance +/- 2 psi (+/- 0.14 bar)	1
10.0 psi (0.7 bar)		2
15.0 psi (1.03 bar)		3
20.0 psi (1.4 bar)		4

Thread and body style	Code	✓
NPT with Needle Valve	A	
BSPTr with Needle Valve	B	
NPT without Needle Valve	C	
BSPTr without Needle Valve	D	

Reset latch dropout	Code	✓
Manual reset - self latching	1	
Manual reset - hold for oil pressure	2	

Special construction	Code	✓
Standard model	-AA	
For any special requirements contact AMOT		

## Americas

---

AMOT USA  
8824 Fallbrook Dr  
Houston  
TX 77064  
USA

Tel: +1 (281) 940 1800  
Fax +1 (713) 559 9419  
Email sales@amotusa.com

## Asia and Australasia

---

AMOT Shanghai  
Rm A308 Building A8  
Jiahua Business Center  
808 Hongqiao Road  
Shanghai 200030  
China

Tel +86 (0) 21 6447 9708  
Fax +86 (0) 21 6447 9718  
Email shanghai@amot.com

AMOT Singapore  
10 Eunos Road 8 #12-06  
Singapore Post Centre  
Singapore 408600

Tel +65 6408 6265  
Fax +65 6293 3307  
Email singapore@amot.com

## Europe and Africa

---

AMOT  
Western Way  
Bury St Edmunds  
Suffolk, IP33 3SZ  
England

Tel +44 (0) 1284 762222  
Fax +44 (0) 1284 760256  
Email info@amot.com

AMOT Controls GmbH  
Rondenbarg 25  
22525 Hamburg  
Germany

Tel +49 (0) 40 8537 1298  
Fax +49 (0) 40 8537 1331  
Email germany@amot.com

AMOT Russia  
#34 Shabolovka Street  
Building 2  
Moscow 115419  
Russia

Tel: +7 495 617 12 93  
Fax: +7 495 913 97 65