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

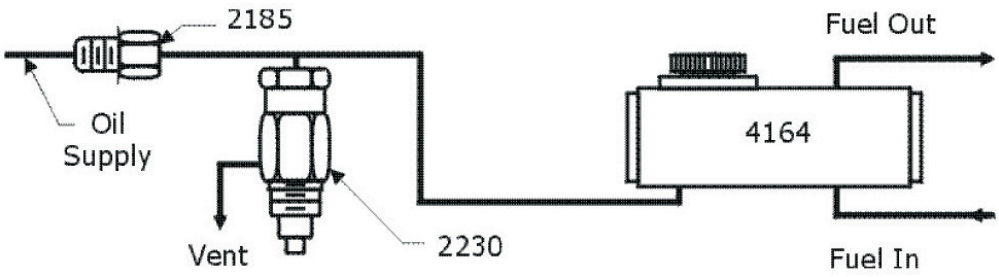
Key benefits

- 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

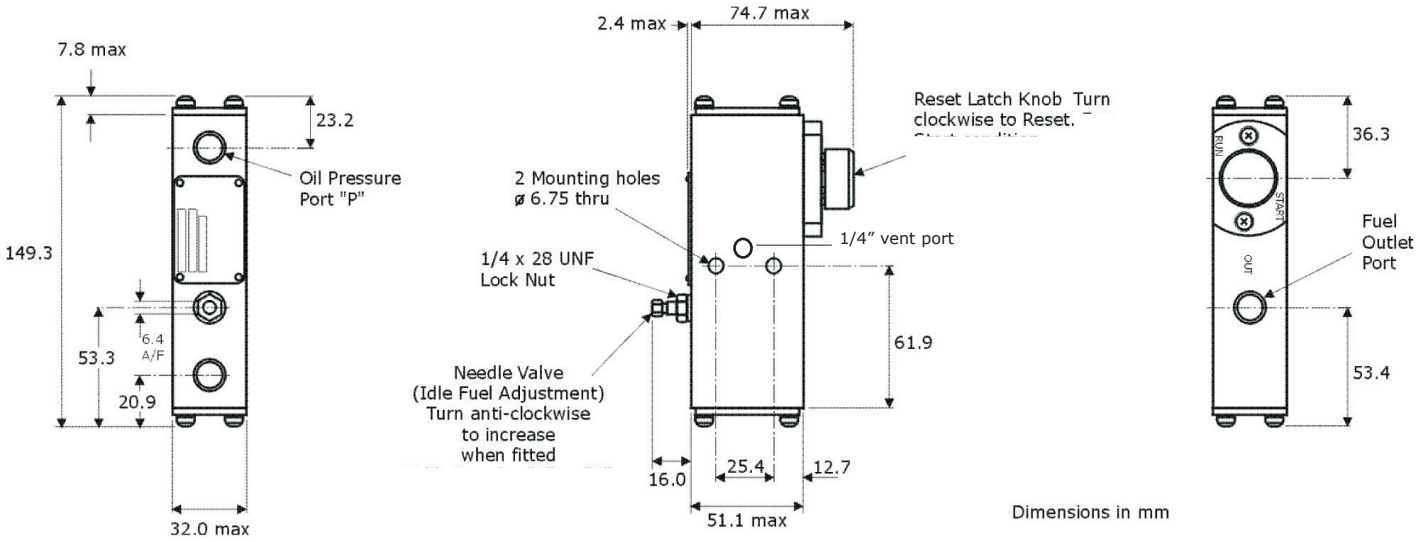
1. Rise of trip setting per 100 psi (6.9 bar) rise of fuel pressure = 2 psi (0.14 bar)
2. Max. working pressure:
   Fuel IN port = 200 psi (20.7 bar)
   Pressure P port = 150 psi (10.34 bar)
3. Reset knob must return to run position after machine starts

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



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		

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⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

www.amot.com