

Turbine Solutions

Lube Oil Temperature Control

● Self Contained

- Internally Sensed 3-Way Valves
- Externally Sensed 2-Way Valves

Simple, rugged valves with integral temperature sensing elements. These valves are low maintenance and may be installed in a variety of environments.

● Actuated

- Externally Sensed 3-Way Valves

Electrically or pneumatically actuated, fast response 3-way temperature control valves. For tighter temperature control, remote temperature sensing and low pressure drop applications, these valves use PID-based controllers for easy system integration and positioning.



Integrated Lube Oil Temperature & Pressure Control With Filter Connection

● Manifold Valves

Combines temperature control, pressure control, relief valve and filter connections into a single compact manifold valve.

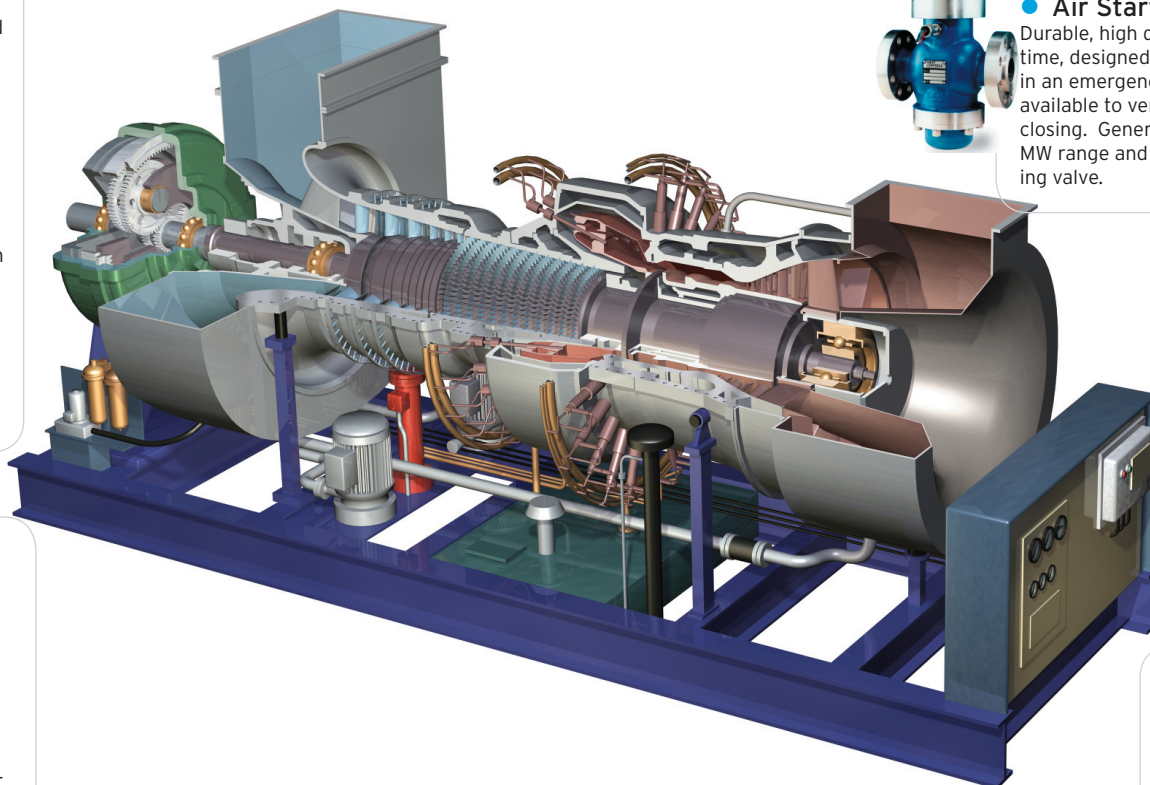
● Filterstat Valves

Combines temperature control, filter connection and relief capability into a single compact unit for smaller applications.



Custom Engineered Control & Monitoring Systems

Specialists in creating leading industry, hazardous area control and safety solutions based on industry-standard PLCs, field sensors and instrumentation.



Fuel Gas Control & Shut-off Valves

● Fuel Metering Control Valves

Balanced rotary valves with an electric stepper-motor actuator. Used for accurate gas fuel control and metering in industrial and aeroderivative gas turbines.

● Air Start & Fuel Shut-off Valves

Durable, high quality, compact valves with a fast close time, designed to instantly shut off fuel supply to a turbine in an emergency or overspeed situation. A version is also available to vent upstream fuel in the event of the valve closing. Generally used with gas turbines in the 10 to 30 MW range and often combined with the AMOT gas metering valve.



Pneumatic Panel Components

For use in hydraulic and pneumatic control systems, offering versatility in a wide variety of operating requirements. This includes superior performance in extreme or highly corrosive environments.

- 3 & 4-way Valves
- Indicators
- Indicating Relays



Oil Condition Monitoring

● Metal Particle Detectors

Detect presence of metal particles in non-conductive lubrication fluids.



Sensors & Switches

A full range of rugged, field-proven temperature, pressure and vibration sensors and switches that can be used with AMOT or third party control and monitoring systems. Often used as an integral part of hydraulic and pneumatic systems for steam pressure management, over-pressure protection and vibration monitoring to protect an operator's significant investment in turbine technology.

● Temperature

- RTD and thermocouples
- pneumatic switches
- hydromechanical switches
- electric switches
- eutectic switches



● Pressure

- pressure and low pressure
- differential pressure
- pneumatic switches
- hydromechanical switches
- electric switches



● Vibration

- pneumatic
- electric
- impact



Turbine Solutions - Quick Reference Guide

Lube Oil Temperature Control

Internally Sensed 3-Way Valves

Model	Description
B	sizes: 1½ - 8" rates: 68 - 1200 gpm
C	sizes: ½ - 1½" rates: 6 - 54 gpm
E	sizes: 1¼ - 1½" rates: 40 - 75 gpm
H	sizes: 4 - 6" rates: 345 - 1350 gpm
J	sizes: ¾" rates: 2 - 23 gpm
R	sizes: ¾ - 2½" rates: 40 - 75 gpm

Externally Sensed 2-Way Valves

Model	Description
2470	sizes: 1" rates: 10 - 35 gpm

Actuated 3-Way Valves

Model	Description
GE	electric actuation Sizes: 2 - 18" rates: 37 - 8300 gpm
GP	pneumatic actuation Sizes: 2 - 18" rates: 37 - 8300 gpm
8060	RTD temperature sensor - NEMA 4
8064	electronic-pneumatic (I/P) Converter
8071	panel mount PID controller
8072	wall mount PID controller
8073	solid state relay module
SG80	pneumatic controller

Integrated Lube Oil Temperature & Pressure Control w/ Integrated Filter

Manifold Valves

Model	Description
4500	temperature / pressure / relief size: 4" rates: 280 - 500 gpm
4501	temperature / pressure / filter / relief size: 2" rates: 63 - 120 gpm
4504	temperature / pressure / filter / relief size: 3" rates: 120 - 250 gpm

Filterstat Valves

Model	Description
FJA	w/ filter differential pressure switch Sizes: ½ & ¾" rates: 2 - 20 gpm
FET	w/ heat exchanger relief valve Sizes: 1¼ & 1½" rates: 40 - 75 gpm
FE	w/ integral filter relief valve Sizes: 1¼ & 1½" rates: 40 - 75 gpm
FED	dual filter w/ integral filter relief Sizes: 1¼ & 1½" rates: 40 - 75 gpm
FMA	flanged connections Sizes: 1¼ & 1½" rates: 40 - 75 gpm

Custom Engineered Control & Monitoring Systems

AMOT has over 40 years experience and the expertise required in electrical and mechanical engineering to design, manufacture and commission hazardous area control and monitoring systems.

- relay systems
- marshalling cabinets
- pneumatic control and shutdown
- electronic control and shutdown
- advanced PLC and computer applications

Fuel Gas Control & Shut-off Valves

Fuel Metering Control Valves

Model	Description
8402	gas fuel control valve sizes: 1, 2, & 3"

Air Start & Fuel Shut-off valves

Model	Description
2180E	diaphragm operated gas valve 2 & 3" in ductile iron, steel
2410	2-way vented valve ½" in aluminum
4418	2-way vented high pressure valve 1, 1½, & 2" stainless steel
4320	turbine fuel shutoff valve 2 & 3" cast steel
4420	turbine fuel shutoff valve 2 & 3" stainless steel

Pneumatic Panel Components

3 & 4 Way Valves

Model	Description
4057	aluminum 3-way manual or pilot valve
4457	stainless 3-way manual or pilot valve
4058	aluminum 4-way manual or pilot valve
4458	stainless 4-way manual or pilot valve

Indicators

Model	Description
4054	trip indicator
4101	pneumatic indicator
4229	pneumatic indicator
4429	stainless pneumatic indicator

Indicating Relays

Model	Description
2400D	pneumatic indicating relay
2400M	space saver pneumatic indicating relay
4400M	stainless space saver indicating relay

Oil Condition Monitoring

Metal Particle Detectors

Model	Description
MPD1C	industrial metal particle detector
MPD1P	high pressure metal particle detector
MPD1R	stainless steel metal particle detector
8545B	metal particle detector controller

Sensors & Switches

Temperature

Model	Description
2230	2-way temperature sensing valve
2340	heavy duty temperature/pressure switch
4021	3-way temperature sensing valve
4075	2-way high temperature sensing valve
4140	temperature/pressure switch
4253	explosion proof, single point temp switch
4270	thermocouple & RTD - 316SS
4271	thermocouple & RTD - spring loaded
4303	eutectic temperature switch
4330	temperature sensing switch
4375	high temperature switch
8060	RTD temperature sensor - NEMA 4
8253	vibration resistant temperature switch
8254	vibration resistant hi temperature switch

Pressure

Model	Description
1672	pressure sensing valve
2340	heavy duty temperature/pressure switch
4023	3-way high pressure sensing valve
4047	low pressure valve
4064	differential pressure sensing valve
4140	pressure/temperature switch
4143	differential pressure valve
4343	differential pressure switch
4364	differential pressure sensing switch
4372	pressure sensing switch
4423	3-way SS high pressure sensing valve
8252	vibration resistant pressure switch
8255	high pressure switch
8256	differential low pressure/vacuum switch

Vibration

Model	Description
4109	vibration switch - pneumatic or electric
4121	vibration switch - pneumatic or electric
4294	vibration switch - hazardous area
8590	2-wire vibration transmitter
8591	2-wire indicating vibration transmitter
IP1	electronic impact transmitter

Americas

AMOT USA
8824 Fallbrook Dr
Houston, TX 77064, USA

Tel +1 (281) 940 1800
Email general inquiries: info@amotusa.com
orders: orders@amotusa.com
customer service: cs@amotusa.com
quotes: quotes@amotusa.com

Asia and Australasia

AMOT Shanghai
808 Hongqiao Road
Shanghai 200030, China

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

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

Tel +65 6293 4320
Email singapore@amot.com

Europe, Middle East and Africa

AMOT
Western Way
Bury St Edmunds, England

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

AMOT Controls GmbH
Rondenbarg 25
22525 Hamburg, Germany

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

AMOT Russia
#34 Shabolovka Street
Moscow 115419, Russia

Tel +7 495 617 1293/94/95/96
Email russia@amot.com

amot

www.amot.com