# **Compressor Solutions**

## Liquid 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.



#### Lube Oil Temperature Control With Integrated Filter Connection

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



## Sensors & Switches

A full range of rugged, field-proven temperature, pressure, vibration and speed sensors and switches that can be used with control and monitoring systems. Often used as an integral part of hydraulic and pneumatic emergency shutdown system

#### • Temperature

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

## Custom Engineered Control & Monitoring Systems

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

## **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

Indicating Relays



## Oil Condition Monitoring

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

### Fuel Engine Shutdown Devices

 Hydromechanical Engine Shutdown

Provides positive shutdown by tripping to shut off the fuel supply. These devices are typically used with AMOT sensors and switches to provide a complete emer-

gency shutdown system.
 Air Start & Fuel Shutoff

#### Valves

Durable, high quality, compact valves with a fast close time, designed to instantly shut off fuel supply to a gas engine in an emergency or overspeed situation. A version is also available to vent upstream fuel in the event of the valve closing.



Bearing Temperature
 pneumatic valves
 hydromechanical valves
 electric switches

#### Pressure

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

• Vibration - pneumatic - electric

- electric - impact

## Speed pneumatic sensing valves hydromechanical sensing

valves - electronic sensing switch



# **Compressor Solutions - Quick Reference Guide**

#### Liquid Temperature Control

•	Internally Sensed 3-Way Valves	
Model	Description	
В	sizes: 1½ - 8″	rates: 68 - 1200 gpm
С	sizes: ½ - 1½"	rates: 6 - 54 gpm
E	sizes: 1¼ - 1½"	rates: 40 - 75 gpm
Н	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 actuatior	ı
	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	
•	Filterstat Valves	
Model	Description	
FJA	w/ filter differential pressure switch	
	Sizes: 1⁄2 & 3⁄4''	rates: 2 - 20 gpm
FET	w/ heat exchange	er relief valve
	Sizes: 11/4 & 11/2"	rates: 40 - 75 gpm
FE	w/ integral filter relief valve	
	Sizes: 11/4 & 11/2"	rates: 40 - 75 gpm
FED	dual filter w/ inte	gral filter relief
	Sizes: 11/4 & 11/5"	rates: 40 - 75 gpm

lizes: 1¼ & 1½" rates: 40 - 75 gpm FMA flanged connections Sizes: 11/4 & 11/2" 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

Form ref: hc02\_comp\_NA/rev0/0907

- advanced PLC and computer applications

#### **Fuel Engine Shutdown Devices**

- Hydromechanical Engine Shutdown Model
- Description 1476 master safety control
- 2800 pressure sensing shutdown valve
  - Air Start & Fuel Shut-off valves

#### Model Description

- 2180E diaphragm operated gas valve 2 & 3" in ductile iron, steel
- 2410 2-way vented valve  $\frac{1}{2}$ " in aluminum 4123
  - air start valve 1" bronze
- 2-way vented high pressure valve 4418 1. 1<sup>1</sup>/<sub>2</sub>. & 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
- stainless 4-way manual or pilot valve 4458

### Indicators

- Model Description 4054 trip indicator
- 4101 pneumatic indicator
- 4229 pneumatic indicator
- 4429 stainless pneumatic indicator
- Indicating Relavs
- Model Description
- 2400D pneumatic indicating relay

2400M space saver pneumatic indicating relay 4400M stainless space saver indicating relay

### **Oil Condition Monitoring**

- **Metal Particle Detectors** Description Model
- 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 Description
- Model 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
- temperature/pressure switch 4140
- 4253 explosion proof, single point temp switch
- 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
- **Bearing Temperature**

#### Model Description

- vent valve (used with 4102) 4095
- 4395 electric trip switch
- 4102 connecting rod detector
- 4102M miniature connnecting rod
- main bearing temperature sensing valve 4103
- miniature main bearing sensing valve 4103M
- 8258 eutectic temperature sensing switch

#### Pressure

Model Description

- pressure sensing valve 1672
- 2340 heavy duty temperature/pressure switch
- 4023 3-way high pressure sensing valve
- 4047 low pressure valve
- differential pressure sensing valve 4064
- pressure/temperature switch 4140
- 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
- IP1 electronic impact transmitter

#### Speed

#### Description Model

- 11408X magnetic pickup
- 4110 overspeed sensing valve
- magnetic pickup with terminal box 8017
- 8210 electronic speed sensing switch

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