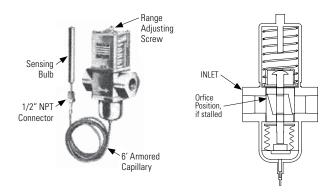
Modulating Water Valves and Bulb Wells

APPLICATION: These modulating valves regulate the flow of water to the heat exchanger to maintain a desired exiting oil temperature. They open automatically when temperature increases at the sensing bulb. **No** external power source is required to actuate the valve. **Not to be** used for salt water service.

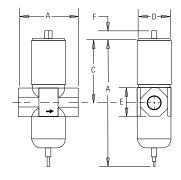


WATER VALVES					BULB WELLS
PART NUMBER	PIPE SIZE (NPT)	RANGE (OPENING POINT)	SENSING BULB SIZE DIAMETER x LENGTH	MAXIMUM WATER FLOW	RECOMMENDED SIZE
65293	1/2"		11/16" x 3-1/4"	25 GPM	L-65140
65127	3/4"	115°F to	11/10 X3-1/4	40 GPM	
65128	1"	180°F	11/16" x 6"	55 GPM	1.05444
65146	1-1/4"		11/10 X0	75 GPM	L-65141
65511	1/2"	11/16" x 10"	25 GPM	1.05000	
65253	3/4"		11/10 X 10	40 GPM	L-65280
65254	1"	75°F to 135°F		55 GPM	
65255	1-1/4"		11/16" x 16-1/4"	75 GPM	L-67438
66100	1-1/2" ASME			90 GPM	
67173	2" ASME	75°F to 115°F	11/16" x 43"	150 GPM	L-67808

Working pressure to 150 PSI Maximum. *For additional protection of the bulb well stem, use the next longer bulb well.

ADJUSTMENT: 1/2" to 1-1/4" valves can be adjusted with a screwdriver, 1-1/2" and 2" have a 1/2" square shaft. Turn the adjusting screw clockwise to **decrease** opening temperature; and counterclockwise to **increase** opening temperature. Valves are not calibrated, so final desired temperature setting must be established experimentally. Valve is fully open 36°F above opening point.

Water Valves



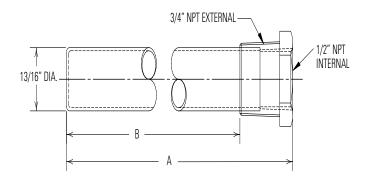
Standard temperature elements are furnished with 6' capillary. Longer capillary lengths not available.
Valve Disc: Buna N in brass disc retainer.

		DIMENSIONS IN INCHES					APPROXIMATE
VALVE SIZE	A	В	C	D	Е	F	SHIP WEIGHT
1/2"	3-1/4	7	3-3/8	1-27/32	1-1/2	13/32	4.3 lbs.
3/4"	3-9/16	7-29/64	3-51/64	2-1/32	1-3/4	13/32	5.8 lbs.
1"	4-27/32	10-13/16	5-31/64		2		10 lbs.
1-1/4"	4-55/64	10-37/64	5-43/64	2-5/8	2-3/8	1/2	12 lbs.
1-1/2"	5-5/16	10-37/04	5-45/04		See Flange	1/2	18 lbs.
2"	6-5/8	12-33/64	6-15/32	3-1/2	Below		27 lbs.

	FLANGE SPECIFICATIONS-INCHES						
VALVE SIZE	# OF BOLT HOLES	BOLT HOLE SIZE	BOLT CIRCLE	FLANGE DIAMETER			
1/2"	4	5/8	3-7/8	5			
2	·	3/4	4-3/4	6			

Modulating Water Valves and Bulb Wells

Bulb Wells



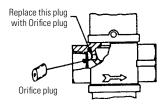
BULB WELL	DIMENSIONS IN INCHES		APPROXIMATE	
PART NUMBER	Α	В	SHIPPING WEIGHT	MATERIALS
65140	4-15/32"	3-15/32"		
65141	7-7/32"	6-7/32"		Tube - Copper
65280	11-7/32"	10-7/32"	1 lb.	Fitting- Brass
67438	17-15/32"	16-15/32"		
67808	44-3/8"	43-3/8"		
			-	

Custom Bulb Well lengths available. Consult factory for additional information.

1.25	1
1.38 DIA.	
65187 Half Coupling - Mount to	3/4" N.P.T. INTERNAL

WATER VALVE PART NUMBER	BY-PASS ORIFICE Diameter	MAXIMUM BULB TEMPERATURE °F	OPENING TEMPERATURE (FACTORY SETTING) °F
65293	.062"		
65127	1	200	405
65128	.093"	200	135
65146	.093		
65511	.062"	155	103

WATER VALVE PART NUMBER	BY-PASS ORIFICE DIAMETER	MAXIMUM BULB TEMPERATURE °F	OPENING TEMPERATURE (FACTORY SETTING) °F
65253	.062"		
65254	.002	200	135
65255	.093"	200	135
66100	აპ		
67173	.125"	155	103



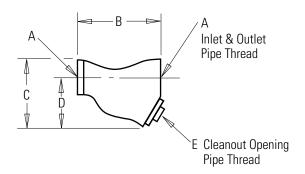
Reservoir. For use with all bulb

wells shown above.

All stock valves are supplied with a drilled and tapped internal by-pass in the regulator body. A solid plug is installed in this hole for 100% shut-off. A drilled orifice plug is packed in an envelope with each valve for field installation, if continuous minimum flow is required.



Water Strainers





	PART	Α		DIMENSIONS (INCHES)			WEIGHT
ТҮРЕ	NUMBER	NPT	В	C	D	Е	(LBS.)
	65294	3/8	3.08	2.52	1.00	1 /4	.758
BRONZE	65295	1/2	3.08	2.52	1.88	1/4	.738
300 psi Max.	65296	3/4	3.87	3.07	2.32		1.22
20 Mesh	65297	1	4.44	3.77	2.81	3/8	1.80
304 Stainless	65301	1-1/4	5.25	4.32	3.18	3/0	2.87
Steel Wire	65302	1-1/2	6.25	5.10	3.77	1/2	4.05
Screen	65303	2	7.63	6.25	4.65	1/2	6.35

How to Order

Part Number

All shipments FOB Racine, WI USA

Three-Way Thermostatic Valves

1/2", 3/4", 1", 1-1/2" & 2" NPT Ports*

Features

- Self-Contained
- Wide Range of Temperatures
- Rugged Construction
- Non-Adjustable
- Heavy Duty
- Operate in Any Position
- Tamper-Proof
- Replaceable Element
- Compact



Materials

Housing Grey Iron (steel or bronze optional) 125 PSI maximum operating pressure

O-Ring Seals Viton (Buna N optional)

*3", 4" and 6" Flange Models also available.

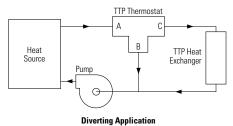
Operation

TTP thermostatic valves use the principle of expanding wax. A self-contained power element activates a stainless steel sliding valve that provides a positive three-way valve action. All temperature settings are factory set. Elements are field replaceable to obtain the same, or a new bypass temperature setting.

On starting, total flow is in the bypass mode. As the fluid temperature rises, some fluid is diverted to the cooling system. As fluid temperature continues to rise, more flow is diverted until the valve is fully stroked. At this point, all the flow is diverted to the cooler. With respect to temperature ranges, the "nominal" temperature represents the "operating temperature." The first figure in the temperature range represents the valve opening point, and the second figure represents the full open point.

Valves are acceptable for oil or water service.

Heat Source Pump B C TTP Thermostat Mixing Application



Applications

Three Way Thermostatic Valves may be installed for either mixing or diverting modes of operation at the preference of the user. They may be mounted in any plane.

When installed as a mixing valve, it is on the cold side of the application, and mixes hot liquid with cooled liquid to discharge the proper temperature fluid to the process.

When installed as a diverting valve, it is on the hot side of the application, and bypasses the cold liquid allowing the system to warm up, then directs the hot liquid to the cooler.

Temperature settings are nominal. 110°F and 140°F are standard. Other settings are available upon request. The valves begin to "shift" (open) about 10°F below the nominal temperature setting and are fully shifted about 10°F above.

Typical Installation

Hydraulic Power Units Diverting mode 110°F

Air Compressors Mixing mode 140°F

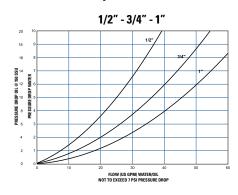
Mobile Oil Coolers Diverting mode 110°F

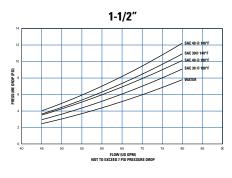
Radiators Diverting mode 190°F

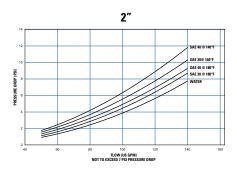


Three-Way Thermostatic Valves

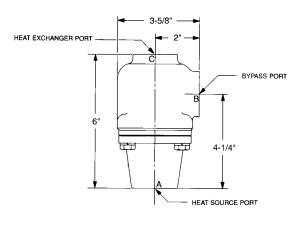
Pressure Drop Curves



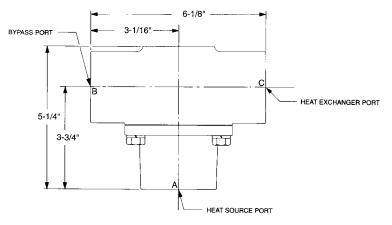




Dimensions and Part Numbers



66037-110°F
66037-140°F
66038-110°F
6038-140°F
66039-110°F
6039-140°F
37365-110°F
7365-140°F



PORT SIZE	PART NUMBER
1-1/2" NPT	66040-110°F
1-1/2" NPT	66040-140°F
#24 SAE	67760-110°F

		HEAT EXCHANGER PORT
	→ 3-9/16" →	2-7/8"-
	13/16" C	
BYPASS PORT — —	В	
9-3/4	,	- L
-		HEAT SOURCE PORT

PORT SIZE	PART NUMBER
2" NPT	66041-105°F
2" NPT	66041-140°F

NOTE: All three ports on any one valve have the same thread size.

Three-Way Thermostatic Valves

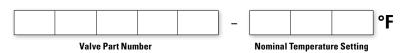
Special Temperature Ranges

1/2"- 3/4"- 1" NPT PART NUMBERS	1 1/2" NPT Part Numbers	2" NPT Part numbers
65974	65977	65978
65975	66040	66041
65976	67760	
66037	(#24 SAE)	
66038		
66039		
67365		
(#16 SAE)		

	1/2"- 3/4"- 1" NPT		1 1/2" NPT	2" NPT		
NOMINAL	TEMPERATURE RANGE (°F)	NOMINAL	NOMINAL TEMPERATURE RANGE (°F)		TEMPERATURE RANGE (°F)	
80	77-88	80	70-88	75	70-85	
90	80-100	90	80-100	90	85-105	
110	100-120	110	100-120	105	100-116	
120	110-130	120	110-130	120	110-130	
130	120-140	130	120-140	130	124-140	
140	130-150	140	130-150	140	135-150	
150	140-160	150	140-160	150	145-160	
160	150-170	160	150-170	155	150-165	
170	163-180	170	163-180	160	155-172	
185	175-190	175	170-185	165	160-175	
195	185-200	180	175-190	170	165-180	
200	190-210	190	185-200	180	175-190	
		200	190-210	195	188-208	
				210	200-215	

EXAMPLE: 1" NPT, Part Number 66039-90 indicates the 1" NPT valve with a nominal shift temperature of 90°F. The actual operating temperature range in this example is 80-100°F. The valve begins to open at 80°F, and is fully open at 100°F.

How to Order Consult factory for pricing and lead time





Thermal Bypass Assembly

This thermal bypass valve is ideally suited for hydrostatic drive circuits which require fast warm-up, controlled fluid temperature, and low return line back pressure. When installed in the return line of a hydraulic circuit that employs and oil cooler, this device will modulate fluid temperature by either shifting

return line flow through the cooler, or bypassing directly to the reservoir. In addition, a built-in pressure relief function automatically relieves excess pressure to the reservoir should the cooler become restricted and resultant pressure drop become too high for the cooler circuit.

Features

1. Operating Characteristics

- A. Mode #1: At temperatures below the shift temperature oil flows from inlet to tank port.
- B. Mode #2: At temperatures between the start of shift and full shift the flow from the inlet port is divided between the cooler and tank ports.
- C. Mode #3: At temperatures above the full shift temperature inlet flow is through the cooler port.
- **D.** Mode #4: At temperatures above the full shift temperature the excess pressure is relieved through the tank port.

2. Standard Shift Temperatures

100°F (38°C) 120°F (49°C) 140°F (60°C) 160°F (71°C)

- Full Shift (Cooler Port Open) Temperatures
 Shift temperature plus 25°F (14°C)
- Relief Valve Setting 65 psi (4.5 bar)
 Consult factory for other pressure settings.
- 5. Maximum Operating Pressure 250 psi (17 bar)
- 6. Proof Pressure 300 psi (21 bar)

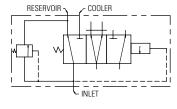
7. Minimum Burst Pressure

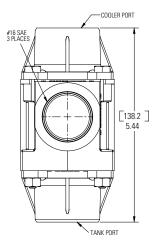
- A. Up to the full shift temperature: 325 psi (22 bar).
- B. Above the full shift temperature: 600 psi (41 bar).
- 8. Minimum Operating Temperature -30°F (-34°C)
- Maximum Operating Temperature Shift temperature plus 75°F (24°C)
- 10. Maximum Flow Rating 60 gpm (227 l/m)

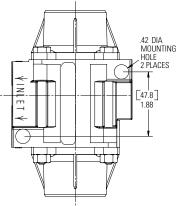
11. Leakage @ 250 psi (17 bar) and 60 gpm (227 l/m) Inlet Flow

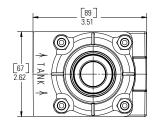
- A. Cooler Port:
 - 1. 0.5 gpm (2 l/m) maximum up to 5°F (3°C) before shift temp.
 - 2. 1.0 gpm (4 l/m) maximum from 5°F (3°C) before shift to shift.
- **B.** Tank Port: 0.10 gpm (0.4 l/m) maximum
- 12. Operating Fluid Mineral base hydraulic fluids
- **13. Construction** Aluminum die-cast housing

Graphic Symbol



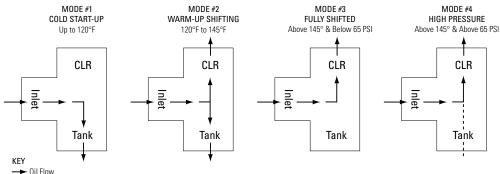






For 120° F Shift Temperature

- - - Excess pressurized oil

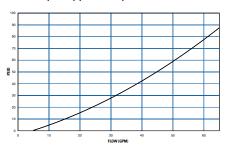


NOTE: If the temperature drops below 145°F the valve will shift back to modes 2 or 1.

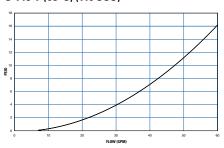
Thermal Bypass Assembly

Pressure Drop (Mobile DTE 26 OIL)

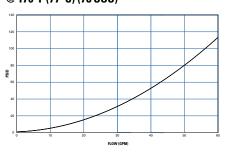
Inlet Port Thru Tank Port @ 100°F (38°C) (300 SUS)



Inlet Port Thru Cooler Port @ 145°F (63°C) (110 SUS)



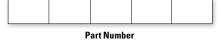
Inlet Port Over Integral Relief Valve @ 170°F (77°C) (78 SUS)



NOTE: Pressure drop shown is added to relief valve crack pressure for total pressure drop.

PART NUMBER	SHIFT TEMPERATURE
65654	100°F (38°C)
65655	120°F (49°C)
65656	140°F (60°C)
65657	160°F (71°C)

How to Order Consult factory for pricing and lead time



Pressure Setting

Thermal Bypass Assembly

65 = Standard, 65 PSI Optional pressure settings available in 5 PSI increments, up to 85 PSI.



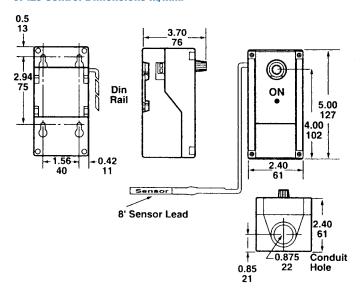
Electronic Temperature Control & Bulb Well Assembly (AC)

Part Number 86816

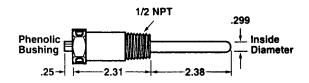
This is a line voltage single-stage electronic temperature control with single-pole, double-throw relay output and LED indication. It is designed with heating or cooling modes of operation, adjustable differential, and an interchangeable temperature sensor. The control couples electronic accuracy with remote sensing capability in a NEMA 1 high-impact plastic enclosure suitable for surface or DIN-rail mounting.

Pilot Duty Relay needed for 460V not offered by Thermal Transfer Products.

67428 Control Dimensions In/mm.



67429 Bulb Well Dimensions



Specifications

Product	Electronic Temperature Control					
Setpoint Range	100°F to 220°F (38°C to 105°C)					
Differential Range	1°F to 30°F (0.5°C to 17°C)					
Input Voltage	120 or 208/240 VAC, 50/60 Hz					
Current Draw	1.8 VA					
Relay Electrical Ratings	SPDT	120V	280V	240V		
		NO (NC)	NO (NC)	NO (NC)		
	Horsepower:	1 (0.25) hp	1 (0.33) hp	1 (0.5) hp		
	Full Load Amps:	16 (5.8) A	9.2 (4.0) A	8.0 (4.9) A		
	Locked Rotor Amps:	96 (3) A	55 (24) A	48 (29) A		
	Non-Inductive Amps:	15 (10) A	10 (10) A	10 (10) A		
	Pilot Duty: 125 VA (NO) @ 24-240 VAC, 125 VA (NC) @ 120-240 VAC, 50 VA (NC) @ 24 VAC					
Sensor Type	Replaceable Thermistor with Reference Resist	tance of 2.25 K ohms at 77°F (25°C)				
Control Ambient	Operating: -30°F to 140°F (-34°C to 60°C)					
Temperature	Shipping: -40°F to 185°F (-40°C to 85°C)					
Ambient Humidity	0 to 95% RH Non-Condensing, Maximum Dew Point: 85°F (29°C)					
Control Material	Case and Cover: NEMA 1 High Impact Lexan 950® Plastic.					
Aganay Listings	UL Listed: File E27734, Guide XAPX (Temperature Indicating and Regulating Equipment)					
Agency Listings	CSA Approved File LR948 Class 4813-02					

Lexan 950 is a registered trademark of the General Electric Company. The performance specifications are nominal.

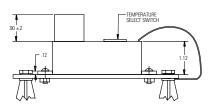
Thermostatic Temperature Controller (DC)

Features

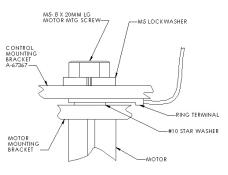
- 12 or 24 volt operation
- Temperature sensor provided
- Mounting hardware included
- For use with 1 or 2 fan models (Relay needed for 2 fan models — not offered by Thermal Transfer Products)
- Wiring provided for remote manual override
- Adjustable temperature settings range from 100°F thru 210°F in 20°F increments

This controller was designed to mount on the cooler without requiring extensive wiring or plumbing. It provides accurate temperature control by cycling the cooling fan(s) to maintain desired oil temperature.

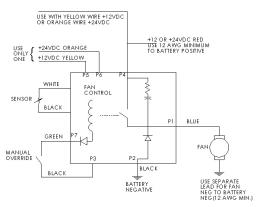
Connection Assembly



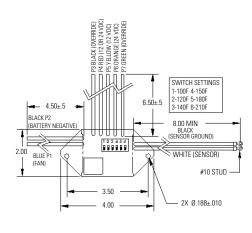
Control Dimensions



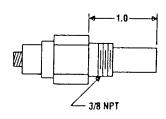
Electrical Schematic



Wiring Diagrams



SENSOR WIRE WHITE INSTALL IN THIS ORDER: HEX NUT LOCKWASHER FLATWASHER RING TERMINAL INSULATING WASHER TEMPERATURE SEMSOR



Sensor Dimensions

NOTE: This switch should be fused to prevent damage if ground is lost.

A 30 Amp Fuse is required in the power supply.

B-67699

If manual override switch is not used, insulate P3 Black and P7 Green individually.

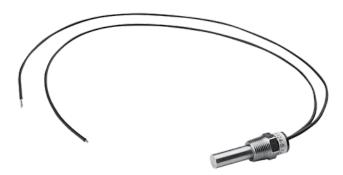
How to Order





Temperature Sensors

Normally Open (Closed on temperature rise)



Contact Rating 6 AMPS AT 120 VAC

4 AMPS AT 240 VAC

Voltage 0.1 to 240 volts AC or 12 VDC

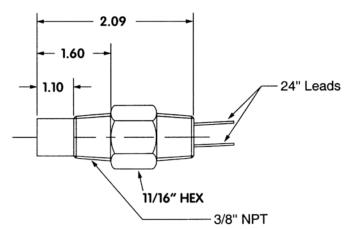
8 AMPS, 24 VDC 4 AMPS

Pressure 1,000 PSI operating

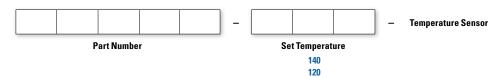
Material 303 Stainless Steel Housing

PART NUMBER	SET TEMPERATURE (°F)
65769	140
65769	120

^{*}Switching temperature ranges from one (1) to six (6) °F. Other temperature settings are available. Consult factory for options. For DC applications, do NOT wire directly to motor. (Relay needed.)



How to Order Consult factory for pricing and lead time



All shipments FOB Racine, WI USA

Electronic Temperature Sensors

Electronic temperature sensor

- Process connection: 1/4" NPT
- 2 switching outputs complementary hysteresis adjustable
- Measuring range of -13 284 °F (-25 140 °C)

Function

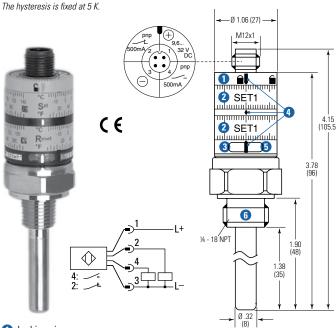
The unit generates 2 output signals: $1 \times NO + 1 \times NC$ with separately adjustable switch points (SET 1) and (SET 2).

0UT1

- With rising temperature OUT1 closes when the set value (SET1) is reached.
- With falling temperature OUT1 opens when the value (SET1) minus hysteresis is reached.

0UT2

- With rising temperature OUT2 opens when the set value (SET2) is reached.
- With falling temperature OUT2 closes when the value (SET2) minus hysteresis is reached.



- setting rings (manually adjustable after unlocking)
- 3 LED yellow: lights if OUT1 = ON, temperature > [SET1]
- 4 setting marks
- 5 LED yellow: lights if OUT2 = ON, temperature < [SET2]
- 6 process connection G1/2 A

Pin 4 = OUT1 / Pin2 = OUT2

To obtain the setting accuracy, set both rings to minimum values, and then set desired values. All dimensions in inches (millimeters), unless noted otherwise.

Sensor Port Adapters

Part Number	Description
51627	#8SAE TO 1/2" BSPP
51653	#8 SAE TO 1/4" NPT
51654	#8 SAE TO 1/2" NPT

Technical Data	
Application	Liquid and Gases
Electrical Design	DC PNP
Output	Normally open/closed complementary
Operating voltage (V)	9.6 - 321
Current rating (mA)	500
Short-circuit protection	Yes (non-latching)
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop	<2
Current consumption	< 30
Setting Range	
Set point, SP	3 - 284 / 37 - 543 °F (-16 - 140 / 3 - 284 °C)
Reset point, rP	-4 - 277 /25 - 531 °F (-20 - 136 / -4 - 277 °C)
Adjustment of the switch point	Shims
Accuracy	
Setting accuracy	± 3 K
Repeatability	± 0.1 K
Temperature drift	0.1 / 10 K
Power-on delay time	0.5 s
Measuring element	1 x Pt 1000, to DIN EN 60751, class B
Dynamic response T05 / T09	1/3 s*
Minimum installation depth	.59 inches (15 mm)
Medium temperature	-13 - 257 °F (-25 - 125 °C) 293 °F (145 °C) max. 1 h
Ambient temperature	-13 - 158 °F (-25 - 70 °C)
Storage temperature	-40 - 257 °F (-40 - 212 °C)
Protection	IP 67, III
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6:20 g (10 - 2000 Hz)
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 Kv EN 61000-4-6 HF conducted: 10V
Housing materials	Stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan); FPM (Viton)
Materials (wetted parts)	Stainless steel 316L / 1.4404
Display	Power: LED green; Switching status: LED yellow
Connection	M12 connector; gold-plated contacts
Weight	0.229 lbs (0.104 kg)

¹ Operating voltage "supply class 2" to cULus.

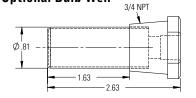
* According to DIN EN 60751

The values for accuracy apply to flowing water.

Thermal Transfer Part Number	Description			
55857	Temperature Sensor, dual PNP outputs, 1/2 BSPP			
55858	Cover, Protective, PK			
55859	4-wire Micro DC cordset, straight connector			
51661**	Bulb Well			

^{**}Optional

Optional Bulb Well





Electronic Temperature Sensors

Immersion thermostat, measuring temperature with a liquid filled sensing element. SPDT contacts, complete with waterproof protection pocket. Used to measure temperature on the primary heating pipe circuit, it is particularly suitable for automatic adjustment pumps.

■ Contacts rating: 10(2,5)A/250V~

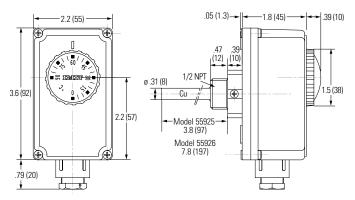
Contacts: switching or closing contact for temperature increase

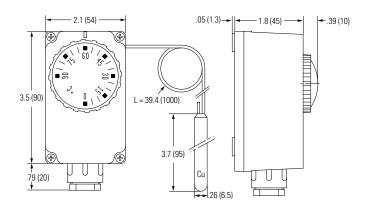
Maximum head temperature: 176°F (80°C)
 Maximum bulb temperature: 257°F (125°C)

■ Temperature rate of change: 1° K/min

Protection degree: IP40







All dimensions in inches (millimeters), unless noted otherwise.

Part Number	Temperature Range	Differential	Maximum Bulb Temperature	Capillary Length	Protection Pocket 1/2" NPT	Copper Bulb
55925	0°/194°F (0°/90°C)	$\Delta t = 4 \pm 1K$	266°F (130°C)	NA	.27x.31x4" (7x8x100 mm)	NA
55926	0°/194°F (0°/90°C)	$\Delta t = 4 \pm 1 K$	266°F (130°C)	NA	.27x.31x8" (7x8x200 mm)	NA
55927	0°/194°F (0°/90°C)	$\Delta t = 4 \pm 1K$	266°F (130°C)	39" (1000 mm)	NA	Ø .26x3.7" (6.5x95mm)

PB2P Fan Controller

Compact Programmable Temperature Sensor Part Number 55959

This combined sensor and controller is designed to mount directly to the Heat Exchanger. It provides accurate temperature control by cycling the electric cooling fan to maintain desired oil temperature. The single housing reduces wiring and mechanical installation. A push-button and set of LEDS is provided to indicate and select the oil temperature setting.

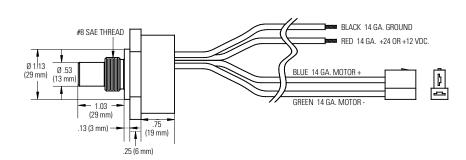
Features

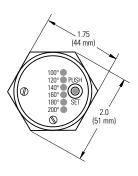
- 12 or 24 volt DC operation up to 25 amps.
- Temperature sensor and controller in single aluminum housing.
- Select from 6 temperature settings from 100 to 200° F (38 to 93° C)
- Mounts directly to the cooler.
- Connector to fan is included and pre-wired.
- Solid-state design, no moving parts, fully sealed.
- Manual override feature built-in.









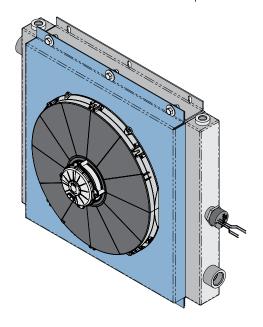


Specifications

Operating Voltage	12 or 24 VDC Systems
Min/Max Voltage	9 VDC / 32 VDC
Current Rating	25 AMPS
Switch Type	Normally open, Low side
Ambient Operating Temperature	-40° to +185° F (-40° to +85° C)
Measurement Temperature Range	-40° to +239° F (-40° to +115° C)
Current Draw	20 mA
Setpoint Selections	100°, 120°, 140°, 160°, 180°, 200° F
Selection method	Pushbutton and LEDS
Enclosure Rating	IP69K
Sealed Housing	High-grade Automotive Potting Compound
Housing Material	Anodized Aluminum
Weight	Approx 8 oz. (.23 kg) incl. wire
Mounting	#8 SAE Thread
Fan Connector	2 Conductor Receptacle

Installation

- 1. Insert controller sensor into #8 SAE sensor port on cooler.
- 2. Connect controller to DC fan (see wire diagram above).
- 3. Connect DC power to controller (see wire diagram above).
- 4. Push button to set controller to desired temperature.





Compressed Air Separators



S-50 and S-100 Models

Two Models:

One with a built-in automatic float style drain, the second with a 1/8" NPT connection with manual shut off valve. Rugged cast zinc housing. Equipped with quick disconnect bowls for easy service.



S-200 thru S-1700 Models

Four models to fit most applications. Unique high efficiency design provides wide SCFM capacity range without loss in performance. Sturdy, lightweight aluminum construction for long dependable service. NPT threaded drain connection for installation of an electronic, manual or automatic float style drain. Low differential pressure at maximum flow ratings. Externally and internally epoxy painted for maximum corrosion protection.



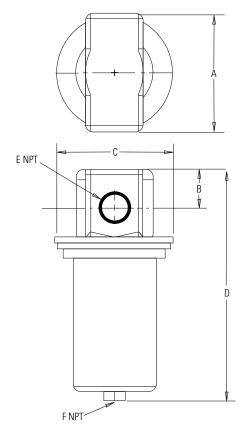
Model S-2600-M/S-2600-4F

1500 thru 3500 SCFM capacity. Consult factory for details on larger models thru 16,000 SCFM. (S-2600-4F shown above.)

MAINTENANCE

- 1. Depressurize unit before removing bowl.
- A. If unit is equipped with a manual petcock, drain bowl at least once per workshift. More frequent draining may be required
 - B. If unit is equipped with an automatic float drain attached to the bowl, clean by turning bowl upside down, tapping on table top, and blow clean with airblow gun.
- 3. If bowl seal is cracked, damaged, or deteriorated, replace with approved seal.

Compressed Air Separators



Dimensions

MODEL NUMBER	A	В	С	D	E (NPT)	F (NPT)	WEIGHT LBS.
S-50 M	3.25	0.98	3.25	7.20	1/2"	1/8"	2.9
S-50 AD	3.25	0.98	3.25	7.35	1/2"	1/8"	3.1
S-100 M	4.62	1.00	4.75	10.00	1"	1/8"*	6.0
S-100 AD	4.62	1.00	4.75	10.00	1"	1/8"	6.0
S-200 M	5.10	1.60	4.38	10.80	1″	1/2"	4.8
S-300 M	6.70	2.00	4.38	17.00	1-1/2"	1/2"	11.2
S-600 M	6.70	2.00	6.00	17.00	2"	1/2"	11.2
S-1700 M	8.10	2.40	7.75	19.90	3"	1/2"	22.00
S-2600 M	13.75	7.25	8.62	30.50	4"	3/4"	85
S-2600 4F	16.75	7.25	8.62	30.50	4" Flg	3/4"	100

^{*}Supplied with manual shut off valve.

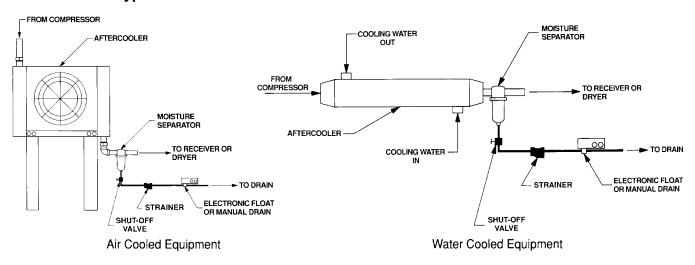
Specifications

MODEL NUMBER		RANGE PSIG MAX	△P AT MAX SCFM	PSI MAX	TEMP °F MAX	BOWL TYPE	DRAIN Type
S-50 M	5	50	0.5			Cast Zinc	Manual
S-50 AD	5	50	0.5		475	Cast Zinc	Automatic with Internal Float
S-100 M	11	120	0.5	200	175	Cast Zinc	Manual
S-100 AD	11	120	0.5				Automatic with Internal Float
S-200 M	11	233	0.7			Aluminum	Manual
S-300 M	60	472	1.0	232	176	Aluminum	Manual
S-600 M	100	742	1.3	232	232 1/6		Manual
S-1700 M	260	1700	1.0			Aluminum	Manual
S-2600 M	1500	3500	1.5	150	350	Carbon Steel	Manual
S-2600 4F	1300	3300	1.5	130	330	Carbon Steel	Manual

MINIMUM OPERATING TEMPERATURE - 35°F

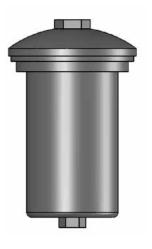
Specifications and dimensions subject to change without notice.

Recommended Typical Installation



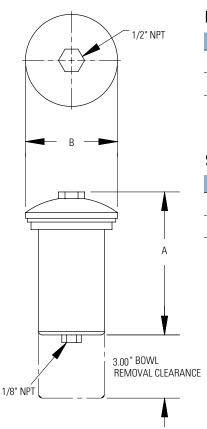


Automatic Float Drain



FD-25 and FD-50 Models

Two Models to fit most applications. Rugged zinc cast housing. Equipped with quick disconnect bowls for easy servicing. Economical cost.



Dimensions

MODEL NUMBER	A	В
FD-25	4.75	3.06
FD-50	8.50	4.75

Specifications

MODEL NUMBER	PART NUMBER	PSI MAX	TEMP °F MAX	WEIGHT LBS (APPROX)	
FD-25	66278	200	175	2.0	
FD-50	66279	200	1/3	5.0	

Flexible Metal Hose



Features

Designed to isolate damaging vibration, dampen noise and absorb thermal expansion from pumps and compressors to other related equipment. Hose is of corrosion resistant type 304 stainless steel. Connectors are carbon steel schedule 40 external NPT with hex nut attachments on both ends for easy installation. Couplings are welded to assure dependable leak free operation.

Specifications & Dimensions

PART	CONNECTIONS	HOSE	OVERALL	RALL WORKING PRESSURE PSI		FITTING LENGTH	SHIPPING	
NUMBER	NPT	INSIDE DIAMETER	ER LENGTH	AT 70°	AT 300°	AT 400°	(EACH END)	WT (APPROX)
67492	.5	.5	10	1000	900	863	2.00	2.0
66271	1.0	1.0	12	525	460	435	1.75	2.0
66272	1.5	1.5	16	450	395	370	2.00	3.0
66273	2.0	2.0	18	400	350	330	2.00	4.5
66274	2.5	2.5	20	285	250	235	2.50	8.5
67442	3.0	3.0	22	265	230	220	3.00	12.5
66275	4.0	4.0	24	260	225	215	4.00	14.5

All dimensions are inches. Maximum operating temperature 1500°F. Other sizes and lengths available—consult factory.

Dimensions

PART NUMBER	DESCRIPTION
67492	.5 x 10 Flex Hose
66271	1 x 12 Flex Hose
66272	1.5 x 16 Flex Hose
66273	2 x 18 Flex Hose
66274	2.5 x 20 Flex Hose
67442	3 x 22 Flex Hose
66275	4 x 24 Flex Hose

All shipments FOB Racine, WI USA

Installation

The satisfactory performance of flexible hoses is dependent upon certain precautions which must be taken at the time of installation.

- 1. Install the flexible hose directly on the pump, compressor or other equipment. If this is not practical, install as close as possible to the source of vibration.
- 2. **Do not** compress, twist or stretch during installation. Premature failure will result.
- 3. Flexible hoses must be installed so that its length is perpendicular to the direction of the vibration.
- 3. Support piping as needed to eliminate stress to the flexible hose. It must support only its own weight.

