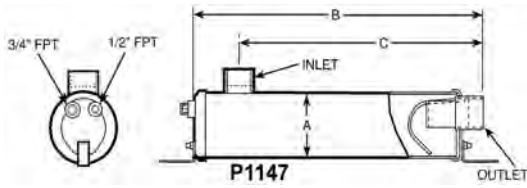


HENRY TECHNOLOGIES - ACCUMULATORS AND MUFFLERS

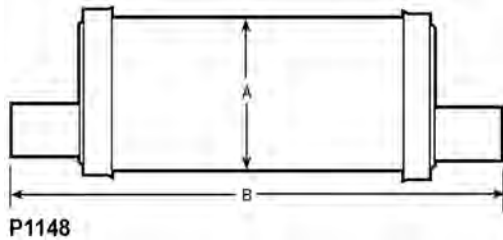
HORIZONTAL ACCUMULATORS



Liquid accumulators of this design should not be used when the temperature of the liquid refrigerant is less than +15°F in the accumulator. These accumulators have a 1/2" FPT connection for liquid injection and a 3/4" FPT connection for hot gas bypass. These connections can also be used for a relief device as required by UL 207.

PART NO	SIZE CONN	DIMENSIONS (in)			REFRIGERANT HOLDING CAP. (lbs 0° F SAT.)			RECOMMENDED TONS OF REFRIGERANT AT SUCTION EVAPORATING TEMPERATURE (°F)								
								R-134a			R-22			R-404A/R-507		
		A	B	C	R-134a	R-22	R-404A/R-507	+40°F	+20°F	+0°F	+40°F	+20°F	+0°F	+40°F	+20°F	+0°F
S-7615	1-5/8 ODS	6	28	21.50	23.3	21.3	19.3	15	10	6.25	29	20	12.5	28.5	19	11.5
S-7621	2-1/8 ODS		36.75	30.25	31.6	29	26.2	28.6	19.5	12.5	50	30	25	49.1	33.2	22.9
S-7625	2-5/8 ODS		50	43.50	46.7	42.6	38.6	50	35	23	95	65	45	93.2	61.7	41.2

DISCHARGE LINE MUFFLERS



Selecting the Size of a Muffler

Select a muffler with a connection size that matches or exceeds the line size of the compressor discharge line. There are no tonnage ratings for mufflers, since the muffler will remove pulsations from the discharge regardless of flow.

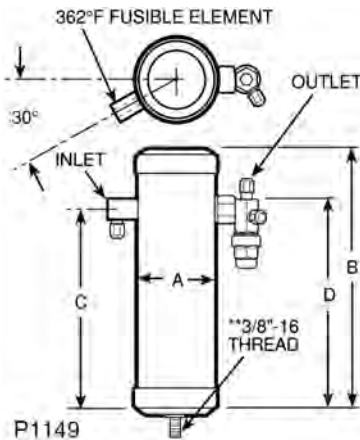
S-6300 Series: Maximum working pressure 500 psig.

S-6400 and S-6600 Series: Maximum working pressure 450 psig.

PART NO	SIZE CONN	DIMENSIONS (in)	
		A	B
S-6304	1/2 ODS	3	7.75
S-6305	5/8 ODS	3	7.75
S-6307	7/8 ODS	3	9.69
S-6311	1-1/8 ODS	3	9.69
S-6405	5/8 ODS	4	6.75
S-6407	7/8 ODS	4	7
S-6411	1-1/8 ODS	4	13.25
S-6413	1-3/8 ODS	4	13.75
S-6415	1-5/8 ODS	4	18.25
S-6621	2-1/8 ODS	6	21
S-6625	2-5/8 ODS	6	21
S-6631	3-1/8 ODS	6	22.38

HENRY TECHNOLOGIES - LIQUID REFRIGERANT RECEIVERS

S-8060 SERIES VERTICAL RECEIVERS



Receivers should be selected based on the operating charge for all system components, including the liquid lines. It is usual to add a small percentage to cover the refrigerant in long runs of suction and discharge lines, etc. It is essential that the maximum operating charge be determined, e.g., winter charge in air cooled condenser having flooded head pressure control, this being much greater than the normal summer charge.

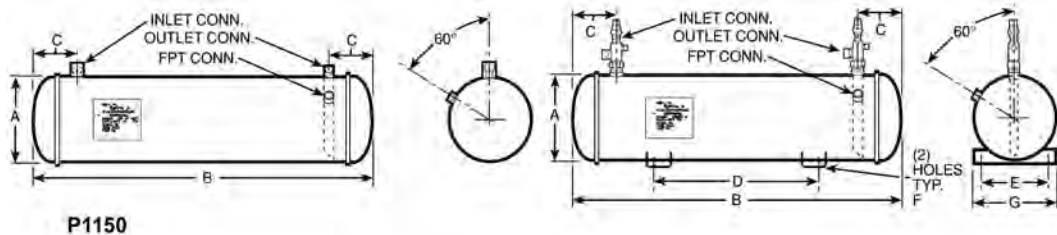
S-8060 SERIES VERTICAL RECEIVERS

PART NO	*PUMP DOWN CAPACITY (lbs)			DIMENSIONS (in)				CONNECTIONS		WT(lb)
	R-134a	R-22	R404A/R-507	A	B	C	D	Inlet	Outlet	
S-8060	2.4	2.4	2.0	3.00	10	7	7	1/4 FLARE	1/4 FLARE	2
S-8061	2.4	2.4	2.1	3.50	7.5	5	5	1/4 FLARE	1/4 FLARE	2
S-8062	3.3	3.3	2.8	3.50	10	7.63	7.63	1/4 FLARE	1/4 FLARE	3
S-8063	4.3	4.2	3.7	4.00	10	7.25	7.25	1/4 FLARE	1/4 FLARE	4
S-8064	6.7	6.6	5.7	5.00	10	6.75	6.75	1/4 FLARE	1/4 FLARE	6
S-8065	11.6	11.5	10.0	6.00	12	8	8	3/8 FLARE	3/8 FLARE	10
S-8066	17.6	17.3	15.0	6.00	18	15	15	3/8 FLARE	1/2 FLARE	16
S-8067	23.5	23.2	20.1	6.00	24	21.25	14.88	1/2 FLARE	1/2 FLARE	21
S-8068	29.4	29.1	25.2	6.00	30	27.25	14.88	5/8 FLARE	5/8 FLARE	26

Maximum WP 450 PS

*All Pump Down Capacities are calculated @ 90% of receiver volume @ 90° F.

S-8600 SERIES HORIZONTAL RECEIVERS



P1150

S-8600 SERIES HORIZONTAL RECEIVERS

PART NO	*PUMP DOWN CAPACITY (lbs)			DIMENSIONS (in)				CONNECTIONS			SHIP WEIGHT (lb)
	R-134a	R-22	R404A/R-507	A	B	C	Inlet	Outlet	FPT		
S-8600	18.8	18.6	16.2	5.00	28	3.00	5/8 ODS	5/8 ODS	3/8	19	
S-8610	24.3	24.0	20.9	5.00	36	3.00	5/8 ODS	5/8 ODS	3/8	25	
S-8620	29.2	28.8	25.0	6.00	30	3.63	5/8 ODS	5/8 ODS	3/8	24	
S-8630	35.0	34.6	30.1	6.00	36	3.63	5/8 ODS	5/8 ODS	3/8	28	

S-8600V SERIES HORIZONTAL RECEIVERS WITH BRACKETS & VALVES

PART NO	*PUMP DOWN CAPACITY (lbs)			DIMENSIONS (in)						CONNECTIONS			SHIP WEIGHT (lb)	
	R-134a	R-22	R404A/R-507	A	B	C	D	E	F	G	Inlet	Outlet		FPT
S-8600V	18.8	18.6	16.2	5.00	28	3.00	14	5.50	.44	7.00	1/2 ODS	1/2 ODS	3/8	19
S-8630V	35.0	34.6	30.1	6.00	36	3.63	18	5.50	.44	7.00	1/2 ODS	1/2 ODS	3/8	28

*Pump Down Capacities are calculated @ 90% of receiver volume @ 90° F.

HENRY TECHNOLOGIES - LIQUID REFRIGERANT RECEIVER ACCESSORIES

LIQUID LEVEL GAUGES

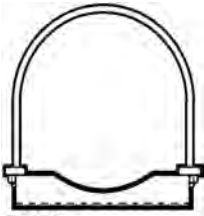


P1165

PART NO	RECEIVER DIA
S-9450	8-5/8
S-9451	10-3/4
S-9452	12-3/4
S-9453	14
S-9454	16
S-9455	18
S-9456	20

Mating flanges for level gauges not included on most receivers.

BRACKET KITS

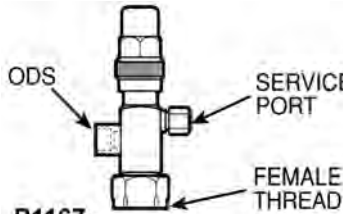


P1166

PART NO	RECEIVER DIA
3-019-908	8-5/8
3-019-910	10-3/4
3-019-912	12-3/4

NOTE: Designed for horizontal mounting use only.

ROTO-LOC VALVES

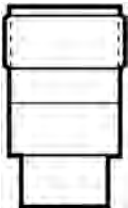


P1167

Includes gasket.

PART NO	THREAD	ODS
3-030-140	1" - 14	1/2
3-030-141	1-1/4" - 12	7/8
3-030-142	1-1/4" - 12	1-1/8
3-030-143	1-3/4" - 12	1-3/8
3-030-150	1" - 14	5/8

ROTO-LOC/ODS ADAPTERS



P1168

PART NO	THREAD	ODS
2-009-037	1" - 14	5/8
3-009-308	1-1/4" - 12	7/8
2-009-046	1-3/4" - 12	1-3/8

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

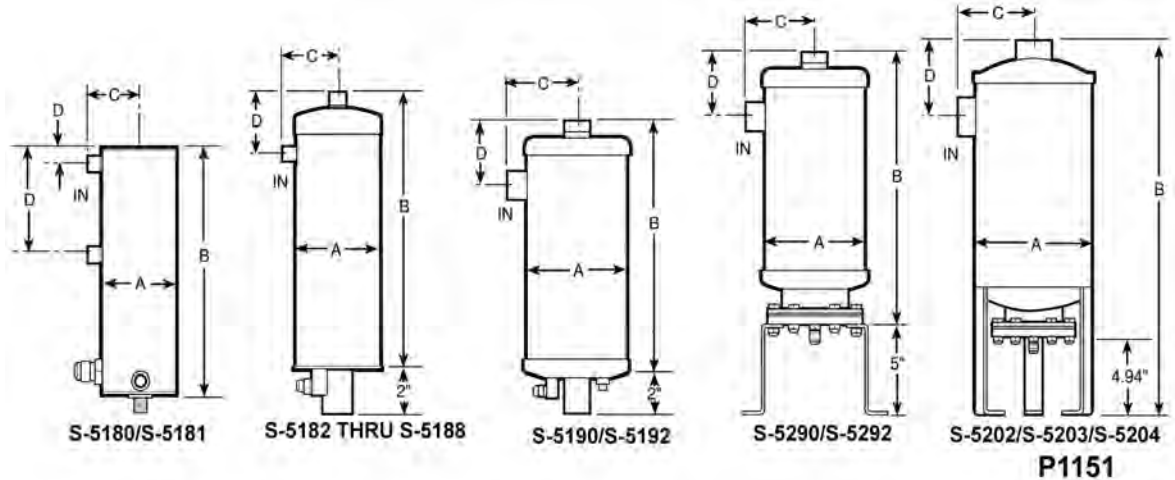
Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration

HENRY TECHNOLOGIES - HELICAL OIL SEPARATORS



The helical oil separator features a centrifugal flow path achieving approximately 99% efficiency of oil separation with low pressure drop.

PART NO	SIZE CONN	DIMENSIONS (in.)				MAX. CAPACITY IN TONS OF REFRIGERATION AT EVAPORATOR TEMPERATURE						NOMINAL DISCHARGE CFM	PRE-CHARGED AMOUNT (oz)
						R-134a		R-22		R-404A/R-507			
		A	B	C	D	-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
S-5180	1/4 ODS	2.50	6.38	1.75	.44	.50	.75	.75	1.00	.75	1.00	.75	14
S-5181	3/8 ODS	2.50	7.50	1.75	.50	.75	1.00	1.00	1.50	1.00	1.50	1.00	14
S-5182	1/2 ODS	4	13	2.75	2.44	1.00	1.50	1.50	2.00	1.50	2.00	1.50	14
S-5185	5/8 ODS	4	15	2.75	2.50	3.00	4.00	4.50	5.50	4.00	5.50	4.00	14
S-5187	7/8 ODS	4	17	3	2.94	4.50	5.50	7.00	8.00	6.50	8.50	6.00	14
S-5188	1-1/8 ODS	4	19	3	3.06	6.00	7.50	9.00	10.50	8.50	11.00	8.00	14
S-5190	1-3/8 ODS	6	15	4.25	3.69	8.00	10.00	13.00	14.00	12.00	15.00	11.00	40
S-5192	1-5/8 ODS	6	17	4.25	3.95	11.00	13.00	16.00	18.00	15.00	19.00	14.00	40
S-5194	2-1/8 ODS	6	17	4.38	4.19	18.00	21.00	25.00	30.00	24.00	31.00	22.00	40
S-5290	1-3/8 ODS	6	15	4.25	3.69	8.00	10.00	13.00	14.00	12.00	15.00	11.00	25
S-5292	1-5/8 ODS	6	17	4.25	3.95	11.00	13.00	16.00	18.00	15.00	19.00	14.00	25
S-5294	2-1/8 ODS	6	17	4.38	4.19	18.00	21.00	25.00	30.00	24.00	31.00	22.00	25
S-5202	2-1/8 ODS	8	24	5.38	5.06	22.00	27.00	35.00	39.00	31.00	41.00	29.00	25
S-5203	2-5/8 ODS	10	27	6.50	5.63	46.00	56.00	71.00	80.00	64.00	83.00	60.00	25
S-5204	3-1/8 ODS	12	30	7.75	6.45	72.00	88.00	112.00	127.00	100.00	131.00	94.00	25

S-5100's - Connections are nickel plated steel.

S-5200's - Connections are copper plated steel.

All the capacities shown are based on 100° F condensing.

Minimum tonnage is 33% of rated capacity, oversizing is not acceptable.

HENRY TECHNOLOGIES - CONVENTIONAL OIL SEPARATORS

PART NO	SIZE CONN	CAPACITY IN TONS OF REFRIGERATION AT EVAPORATOR TEMPERATURE (nominal)						MAXIMUM DISCHARGE CFM	PRE-CHARGED AMOUNT (oz)
		R-134a		R-22		R-404A/R-507			
		-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
S-5580	1/4 ODS	.50	.75	.75	1.00	.75	1.00	.75	12
S-5581	3/8 ODS	.75	1.00	1.00	1.50	1.00	1.50	1.00	12
S-5582	1/2 ODS	1.00	1.50	1.50	2.00	1.50	2.00	1.50	12
S-5585	5/8 ODS	3.00	4.00	4.50	5.50	4.00	5.50	4.00	12
S-5587	7/8 ODS	4.50	5.50	7.00	8.00	6.50	8.50	6.00	12
S-5588	1-1/8 ODS	6.00	7.50	9.00	10.50	8.50	11.00	8.00	12
S-5590	1-3/8 ODS	8.00	9.50	11.50	13.50	10.50	14.00	10.00	12
S-5882	1/2 ODS	1.00	1.50	1.50	2.00	1.50	2.00	1.50	12
S-5885	5/8 ODS	3.00	4.00	4.50	5.50	4.00	5.50	4.00	12
S-5887	7/8 ODS	4.50	5.50	7.00	8.00	6.50	8.50	6.00	12
S-5888	1-1/8 ODS	6.00	7.50	9.00	10.50	8.50	11.00	8.00	12
S-5890	1-3/8 ODS	8.00	9.50	11.50	13.50	10.50	14.00	10.00	12
S-5687	7/8 ODS	6	7	9	10	8	10	7.50	30
S-5688	1-1/8 ODS	8	10	11	12	9	13	9.00	30
S-5690	1-3/8 ODS	9	12	13	14	12	15	11.00	30
S-5692	1-5/8 ODS	11	13	16	18	15	19	14.00	30
S-5694	2-1/8 ODS	13	21	25	30	24	31	22.50	30
S-5792	1-5/8 ODS	11	13	16	18	15	19	14.00	20
S-5794	2-1/8 ODS	18	21	25	30	24	31	22.50	20
S-1901	1-5/8 ODS	14	17	20	24	19	25	18.00	20
S-1902	2-1/8 ODS	21	25	30	35	28	37	27.00	20
S-1903	2-5/8 ODS	37	46	50	65	48	68	49.00	20
S-1904	3-1/8 ODS	52	64	75	90	72	94	56.00	20

S-5500's, S-5800's, S-5600's, S-5700's - Connections are nickel plated steel.

S-1900's - Connections are copper plated steel.

Oil Flow Rate @ 175 psi differential = 80 gal/min.

All the capacities shown are based on 100°F condensing temperature and on connection size being the same as the compressor discharge valve we recommend for parallel compressor systems application for our S-5700 and S-1900 series oil separators. For low temperature applications, we recommend our S-1900 series oil separators. If operating horsepower is larger than the systems cooling load, size oil separator to the operating horsepower.

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

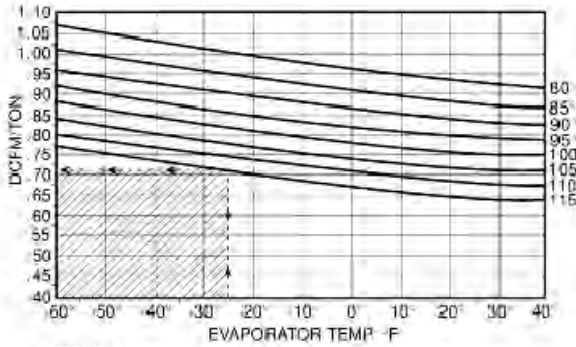
Tools &
Instruments

Refrigeration

HENRY TECHNOLOGIES - CONVENTIONAL OIL SEPARATORS

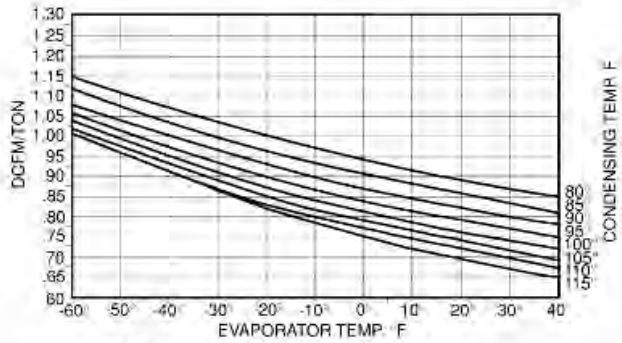
DISCHARGE CFM CHARTS

DCFM CHART - R-22



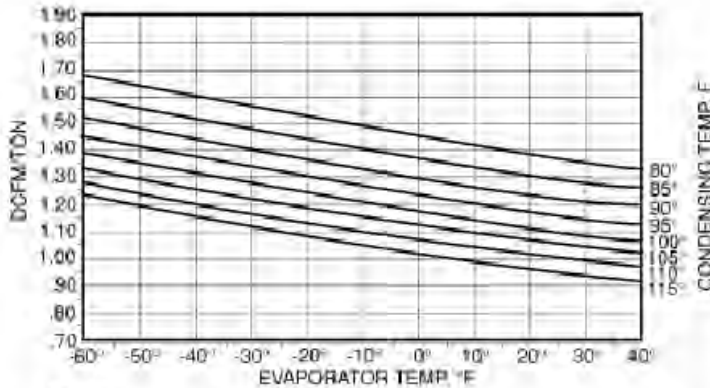
P1153

DCFM CHART - R-404a/R/507



P1155

DCFM CHART - R-134a



P1154

HOW TO CALCULATE DISCHARGE CFM (DCFM)

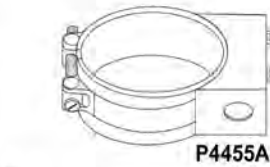
Example: 50 ton R-22 system
 -25° F Evaporator Temp.
 115° F Condensing Temp.
 From the R-22 DCFM Chart, follow the -25° F evaporator temperature line to the intersection of the 115° F condensing temperature line. Extend a line horizontally from this point to the DCFM/ton factor. Multiply the DCFM/ton factor by the total tonnage to calculate the total DCFM.

Example:
.72 DCFM x 50 ton = 36.0 DCF
ton
 Oil Separator Selected: **S-5203**

HENRY TECHNOLOGIES - HEAT ELEMENTS



P4455



P4455A

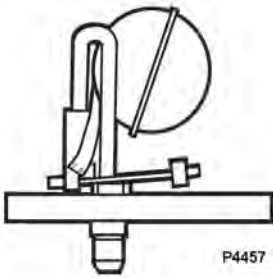


P4456

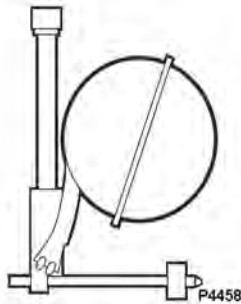
Heat elements add heat to oil separators to prevent migration of refrigerant to the vessel during off cycles of the compressor. Heat elements can also be used on suction line accumulators to warm the oil and allow oil return to the compressor on low temperature applications.

PART NO	DIAMETER (in)	WATTAGE	VOLTS
S-9112J	6	50W	240V
S-9113J	4	25W	120V
S-9114J	4	25W	240V
S-9115J	2-1/2	25W	120V
S-9101	4	25W	110V
S-9111	4	25W	220V
S-9112	6	50W	220V

HENRY TECHNOLOGIES - OIL SEPARATORS - REPLACEMENT COMPONENTS



P4457



P4458

The **A-1900-30** Replacement Float Assembly is used on the S-5200 & S-1900 series Oil Separators, and the A-5700-30 is used on the S-5700 series Oil Separators. Both Replacement Assemblies include the gasket which can also be ordered separately (Part Number **2-023-001**). The S-5700 series screen cartridge can also be ordered as a replacement part (Part Number **3-010-301**). A 3/8" ODS oil return connection is available by ordering with an "X" suffix (i.e. A-1900-30X).

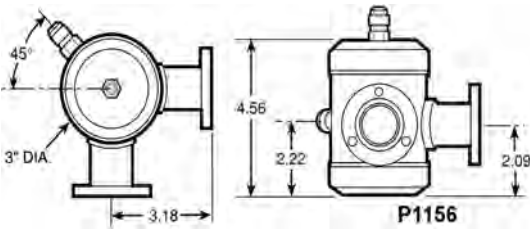
The **A-5000-30** Replacement Float Assembly is used on the S-5800 series Oil Separators. The Replacement Assembly includes the gasket (Part Number **2-023-001**).

Part No
A-1900-30
A-5700-30
A-5000-30

HENRY TECHNOLOGIES - OIL LEVEL REGULATORS (CONVENTIONAL)

The oil level regulator controls the oil level in the compressor crankcase with a float operated valve. Oil level regulators are designed to attach directly to the sight glass housing on compressor crankcases. Adapter kits are available for compressors that have a different sight glass configuration. The sight glass from the compressor or supplied with an adapter kit, bolts to the second regulator flange for visual observation of the oil level.

S-9010 FIXED LEVEL REGULATOR



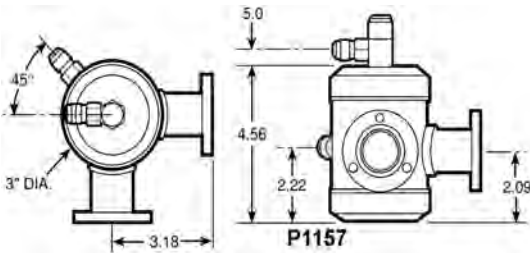
The S-9010 regulator maintains the oil level in the compressor crankcase at 1/8-in. sight glass. The S-9010 maintains the level at any pressure differential* between 5 and 30 psi.

The S-9010 oil level regulator is designed to bolt directly to the 3 bolt sight glass housing found on many compressor crankcases. Do not use on Satellite Compressor.

Part No

S-9010

S-9090 ADJUSTABLE REGULATOR



One oil level regulator for all applications

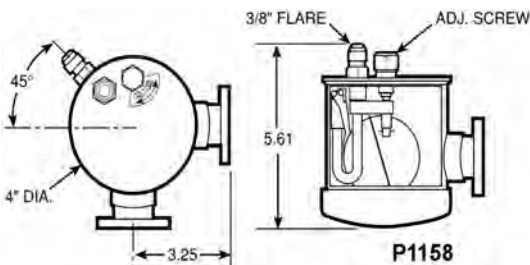
The S-9090 regulator allows the oil level in the compressor crankcase to be maintained at any level between 1/4 and 1/2 sight glass.

The S-9090 maintains the level at any pressure differential* between 5 and 90 psi. If the oil level in the crankcase is too high or too low, the level can be adjusted by turning the adjustment screw on top of the regulator. This can be done while the system is in operation. Our exclusive design eliminates the need of shutting down the system and disconnecting the oil feed lines in order to adjust the regulator.

Part No

S-9090

S-9130 ADJUSTABLE REGULATOR



The S-9130 regulator allows the oil level in the compressor crankcase to be maintained at any level between 1/4 and 1/2 sight glass.

The S-9130 maintains the level at any pressure differential* between 5 and 90 psi. If the oil level in the crankcase is too high or too low, the level can be adjusted by turning the adjustment screw on top of the regulator. This can be done while the system is in operation. Our exclusive design eliminates the need of shutting down the system and disconnecting the oil feed lines in order to adjust the regulator.

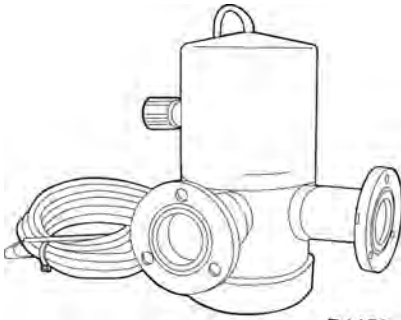
Part No

S-9130

***Operating Pressure Differential** — The difference between the oil fed to the oil regulator and its compressor crankcase, where the regulator is controlling oil level.

HENRY TECHNOLOGIES - ELECTRO-MECHANICAL OIL LEVEL REGULATORS

S-9030 Adjustable Regulator



P4459

The Electro-Mechanical Oil Level Regulator S-9030 provide a simplistic means for controlling oil level for hermetic, semi-hermetic, reciprocating and scroll compressors, through the use of a float switch and solenoid valve. A magnetic reed float switch closes upon the reduction of oil level in the oil regulator body. This action energizes the solenoid valve thereby feeding oil into the regulator body.

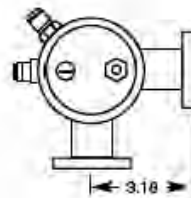
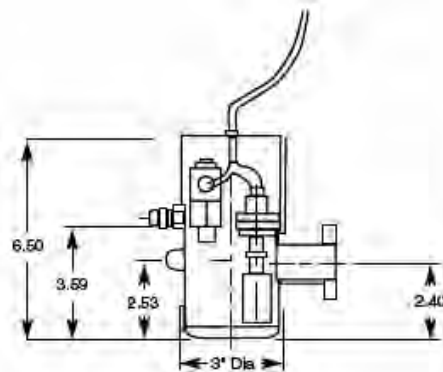
The oil level is adjustable by loosening the compression nut and manually adjusting the position of the float switch. A low level alarm is also provided, for oil safety on hermetic and scroll compressors. If the oil level drops 1/8" below the set point, a second magnetic reed switch closes activating a customer supplied alarm. This alarm circuit may also be used to disconnect power from the compressor. While the regulator is in alarm the solenoid valve remains open trying to re-establish the oil level.

FEATURES:

- Complete oil level control without variations in pressure drop.
- 3/8" Flare normally closed solenoid valve.
- Adjustable between 1/4" and 1/2" glass.
- Low level alarm circuit.
- 24 VAC .25 amp. No UL considerations.
- Equalization connection 3/8" Flare.
- Operating differential 5 to 300 psig.
- Reliable float switch operation, 20 VA pilot duty.
- All major components replaceable.
- One oil level regulator for all applications

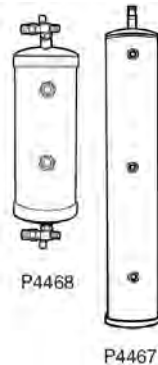
S-9030 Adjustable Regulator

The S-9030 Oil Level Regulator is designed to bolt directly to the three bolt sight glass housing found on many compressor crankcases. Adapter kits are available for compressors that have a different sight glass configuration. The sight glass from the compressor or supplied with an adapter kit, bolts to the second regulator flange for visual observation of the oil level.



P4460

HENRY TECHNOLOGIES - OIL RESERVOIR



Due to system design, loads & defrost cycles, varying amounts of oil can be returned by the oil separator. Because of this, a safety reserve of oil is required for the operation of our oil control system. The oil reservoir is the holding vessel for this stand-by oil. It has sight glass ports to observe the oil level inside the vessel. The valve on top of the Oil Reservoir receives oil from the Oil Separator, and the bottom valve distributes oil to the Oil Level Regulators. The valves are backseating and have a 1/4" flare connection, allowing the addition or removal of oil from the reservoir. High pressure gas returns with the oil from the Oil Separator to the Oil Reservoir. Pressure could build up in the Oil....

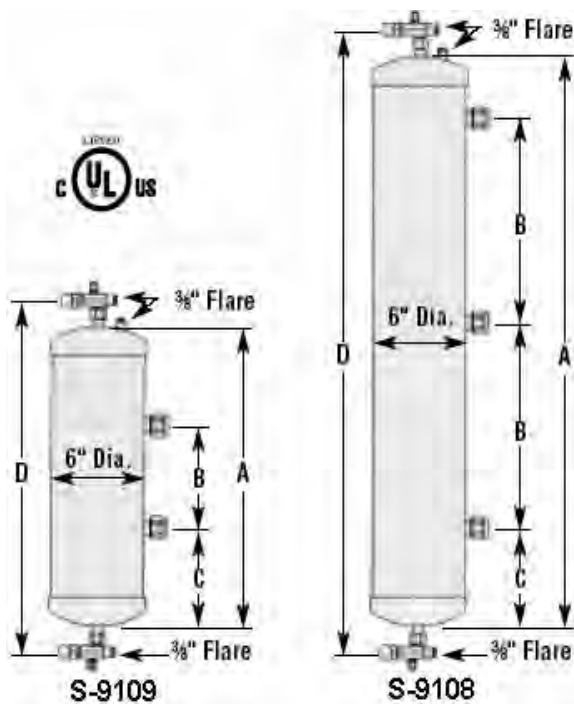
....Reservoir to adversely affect the Oil Regulators. To prevent this, a vent line is installed from the top of the Oil Reservoir to the suction line. This line permits the pressure in the Oil Reservoir to be approximately the same as the suction line and the compressor crankcases. The 4 gallon model Cat. No. S-9108 should be used on very large systems, or systems with excessive oil charges, long line runs or any case where suction oil return may be impeded.

New System Start-Up

On system start-up of a new parallel system, oil should be added to the OIL RESERVOIR to the upper sight glass port, NOT ABOVE IT. It is commonly accepted that in a new refrigeration system, some oil will be absorbed by the refrigerant as the system becomes balanced out. After two hours of operation, the OIL RESERVOIR, if necessary, should again be filled to the upper sight glass, and also after two days, by which time the entire refrigeration system should be balanced out. Then the OIL RESERVOIR must be observed on each service call. No oil should be added again until the oil level falls below the lower sight glass port.

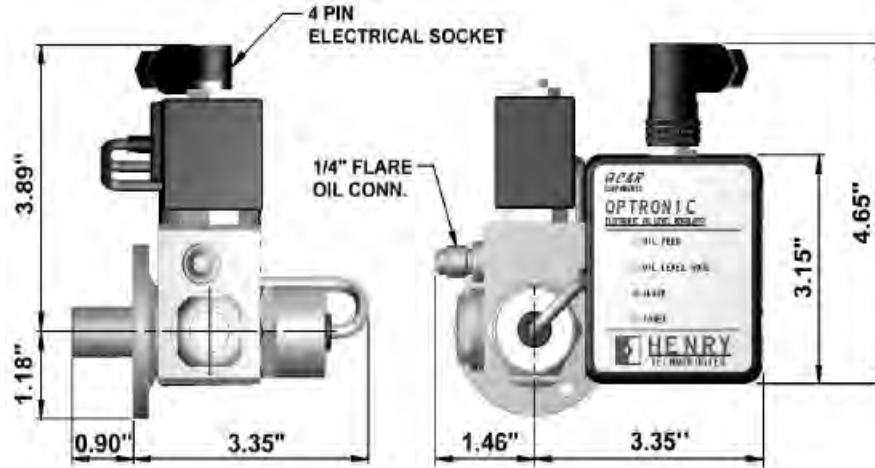
Existing System Start-Up

When installing this OIL CONTROL SYSTEM, on a parallel system that has been in operation for some time, the amount of oil should be added cautiously. With the efficiency of the new OIL SEPARATOR, the oil return could likely be sufficient to fill the OIL RESERVOIR to the lower sight glass port only. Observe for one day. After the second day, if the oil level has not risen to the upper sight glass, add oil. If the oil level has risen above the upper sight glass port, remove the excess oil from the OIL RESERVOIR.



PART NO	NO OF SIGHT GLASSES	CAPACITY (IN GALLONS)			DIMENSIONS (in) D
		A	B	C	
S-9108	3	4	2.5	3/4	37.94
S-9108U	2	3	1-3/4	3/4	28.94
S-9109	2	2	1-1/4	3/4	19.94

HENRY TECHNOLOGIES - ELECTRONIC OIL LEVEL CONTROL



The Optronc Oil Level Regulator* is designed to control the oil level in the compressor crankcase using proven optical sensor technology.

The stand alone regulator is suitable for both high pressure and low pressure oil management control systems. The oil is regulated at 1/2 Sight Glass using a pulse timer. When a low condition is detected, there is a 15 second time delay prior to oil feed to ensure stability and prevent overfill. Oil is then pulsed into the compressor at 3 second on/off intervals. If demand is not satisfied after 2 minutes of continuous oil feed, a low level alarm is initiated by means of a fail-safe electrical contact. During the alarm condition the regulator will continue to pulse feed oil. The alarm will reset automatically if the oil returns to 1/2 glass. The alarm contact may be used to shut down the compressor in the event of a low level condition.

The Optronc Regulator is fitted to the sight glass housing of the compressor and has an internal sight glass that allows the visual inspection of the crankcase oil level.

*Utilizing patented technology-Patent #5,278,426.

Part No.	OPTRONIC OP-02
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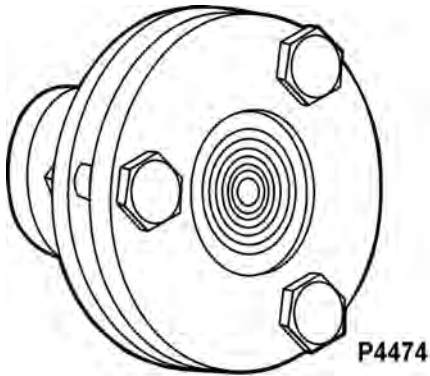
SPECIFICATIONS

Max Working Pressure	500 PSIG
Max Differential Pressure	350 PSIG
Max Ambient Temp	113°F
Max Fluid Temp	176°F
Supply Voltage (Conns 1 & 2)	24V AC 50 / 60 HZ
Rated Operating Current	0.5 Amps
Alarm contacts (Conns 3 & 4)	Volt Free, N/O
Alarm Contact Rating	24V DC@ 2A, 120V AC@2A
Electrical Connection	4 Pin M12 Circular, IEC60947-5-2
Protection Class	IP54
Status LED's	4
Oil Supply Line	1/4" FLARE
Weight	2.6 LBS
Approved Refrigerants/Oils	HFC/POE

(For other refrigerant/Oil combinations contact Henry Technologies)

The Optronc Regulator meets the requirements of UL and bears the UR symbol. The regulator is CE marked in accordance with the EMC directive.

HENRY TECHNOLOGIES - OIL LEVEL REGULATOR ADAPTER KIT



All kits include necessary hardware, gaskets and sight glasses to mount Oil Level Regulators to various compressors shown in this table.

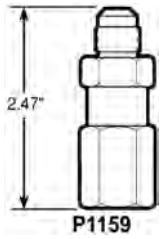
***KIT 3-033-201 INCLUDED WITH ALL OIL LEVEL REGULATORS**

NOTE: For compressors not listed above, a universal adapter kit is available Part No. 3-033-217. This adapter kit has a 3-hole flange to mount to the regulator. The compressor end of the kit is a 1-1/4" OD steel tube. The existing compressor sight glass gland or flange must be bored out or bushed down to accept the 1-1/4" tube. The tube is then brazed or welded to the reworked gland or flange and installed on the compressor.

ADAPTER KIT PART NO	SIGHT GLASS OIL LEVEL	COMPRESSOR MANUFACTURER	SIGHT GLASS CONFIGURATION
3-033-201*	1/2	Dunham-Bush Big 4	3 Bolt 1-7/8 B.C.
3-033-201*	1/2	Trane	3 Bolt 1-7/8 B.C.
3-033-201*	1/2	York	3 Bolt 1-7/8 B.C.
3-033-201*	1/4	Carrier (models EA & ER)	3 Bolt 1-7/8 B.C.
3-033-201*	1/4	Copeland (over 5 tons)	3 Bolt 1-7/8 B.C.
3-033-202	1/2	Copeland (under 5 tons)	1-1/8 - 12 Thread
3-033-202	1/2	Prestcold (model "K")	1-1/8 - 12 Thread
3-033-203	1/2	Dunham-Bush (model "D")	4 Bolt 2-1/8 B.C.
3-033-204	1/4	Carrier (DA,DR,5F,5H & 06D)	1-1/2 - 18 Thread
3-033-205	1/2	Schnacke-Grasso	2" x 16 Thread
3-033-206	1/2	Trane	5 Bolt 2-1/2 B.C.
3-033-207	1/4	Copeland (older model)	4 Bolt 2-1/8 B.C.
3-033-208	1/2	Vilter	1-1/2 NPT Thread
3-033-209	1/2	Vilter	2" NPT Thread
3-033-212	1/4	Copeland (model "8R")	3 Bolt 1-7/8 B.C.
3-033-218	1/2	Prestcold (C,E,R,L, & LG)	42mm Thread
3-033-218	1/2	Trane (model "K")	3/4 NPT Thread
3-033-219	1/2	Schancke-Grasso	1-1/4 NPT Thread
3-033-228	1/2	Grasso Thermtrol	1" NPT Thread
3-033-242	1/2	Bristol	15/16 - 20 Thread
3-033-244	1/2	Bock	4 Bolt 1-31/32 B.C.
3-033-246	1/2	Maneurop	1-1/8 - 18 thread
3-033-253	1/2	Bitzer	4 Bolt 2" B.C.

HENRY TECHNOLOGIES - OIL LEVEL CONTROL COMPONENTS

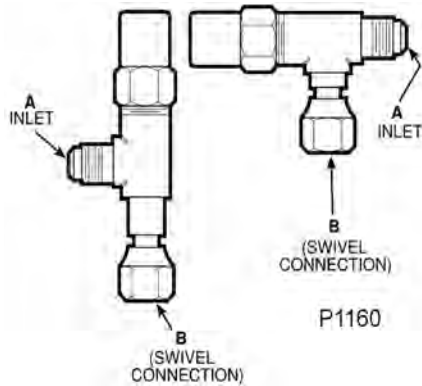
PRESSURE VALVE



PART NO	PRESSURE SETTING	SIZE CONNECTION
S-9104	5 lbs	3/8" Female x 3/8" Male Flare
S-9104H	20 lbs	3/8" Female x 3/8" Male Flare

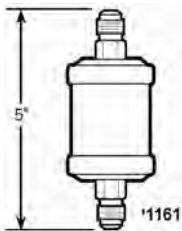
Used with oil reservoir.

SHUT-OFF BRASS VALVES



PART NO	A	B	TYPE
S-9106H	3/8" Flare	3/8" Fem. Flare	Vertical
S-9106V	3/8" Flare	3/8" Fem. Flare	Horizontal

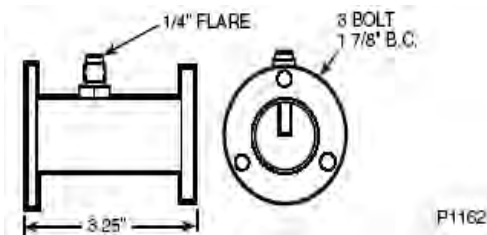
OIL LINE STRAINER



Used to protect oil regulators by removing foreign matter.
3/8" ODS connections available by ordering with an "X" suffix (i.e., S-9105X)

PART NO	SIZE CONNECTION	SCREEN DATA
S-9105	3/8" Flare	100 Mesh x 11 sq. in.

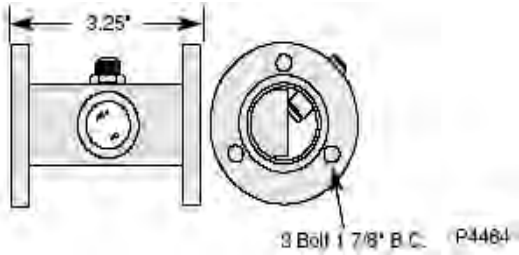
EQUALIZATION ADAPTER KIT



PART NO
3-033-226

HENRY TECHNOLOGIES - ELECTRONIC OIL LEVEL CONTROL AND ACCESSORIES

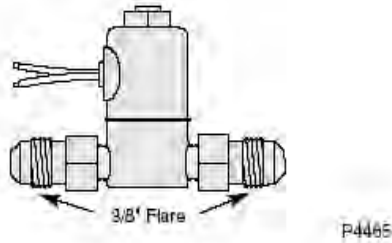
3-033-245 Sight Glass Adapter Kit



Sight Glass Adapter Kit is for compressors with only one crank-case sight glass. The 3-Bolt flange Oil Level Transducer (S-9330) does not allow for a visual observation of the oil level in compressors. This adapter kit provides an additional sight glass and a 1/4" flare equalization/oil fill connection.

PART NO
3-033-245

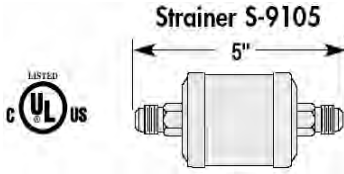
3-044-001 Solenoid Valve



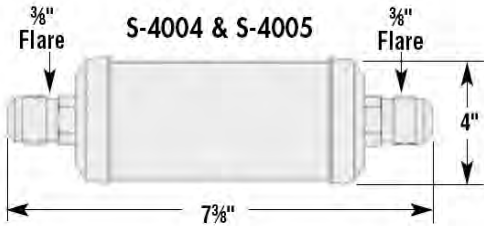
Solenoid Valve is used with the S-9310 Electronic Oil Level Controller. The 3-044-001 solenoid valve is piped directly in the oil return line to the compressor.

PART NO
3-044-001

HENRY TECHNOLOGIES - OIL FILTER — POE OIL FILTER-DRIER



Our Oil Line Strainer protects the Oil Level Regulator by removing foreign matter such as dirt, metal chips, etc. so the foreign material will not plug the small orifice of the Oil Level Regulator. It will also prevent foreign material from entering the compressor. The strainer's 100 mesh screen provides adequate straining with low pressure drop.



PART NO
S-4004
S-4005

Our S-4004 Oil Filter removes foreign material from the oil as it passes through the filter. The filter easily captures any debris that may be in the system, such as dirt, metal chips, etc. (particle retention 10 micron). The S-4004 is required on all Electronic Oil Level Controllers to protect the solenoid manifold.

S-4005 POE Oil Filter & Drier for POE oil return on systems using Oil Separators and Oil Control Systems. This is not a refrigerant Filter Drier. It is designed to operate at a very low pressure drop in a 100% oil environment.

S-4005 POE Oil Filter & Drier was designed to clean and dry POE oil as it is returned to the compressor crankcase or Oil Reservoir in parallel systems. Clean and dry POE oil assures the proper operation of the float assemblies in the Oil Separator and the Oil Level Regulators.

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

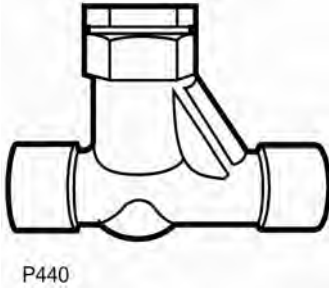
Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration

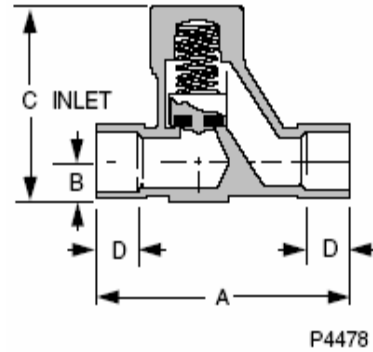
HENRY TECHNOLOGIES - CHECK VALVES (Globe Design)

FORGED BRASS BODY — TYPE 116



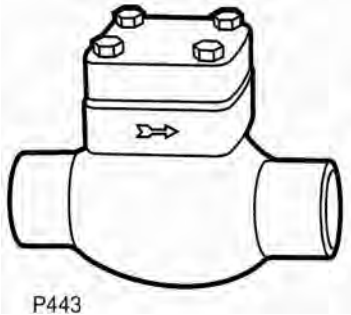
- Temperature rating -40°F to $+300^{\circ}\text{F}$
- Maximum working pressure 500 psi

Teflon® synthetic seat, with fully guided piston and stainless steel spring. Will operate in any position except bonnet down. Internal parts can be easily removed to prevent damage when soldering valve into line. Suitable for highside or lowside installation and hot gas applications, refrigerants and other industrial fluids, non-corrosive to brass and steel.

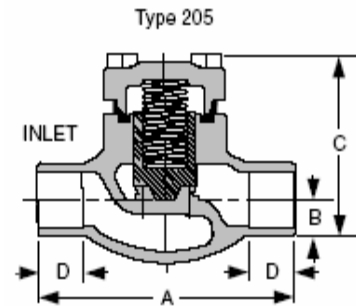


PART NO	SIZE CONN	DIMENSIONS (in)				WT(lb)
		A	B	C	D	
116003	3/8 ODS	2.94	.41	2.06	.31	.53
116004	1/2 ODS	2.94	.14	2.06	.38	.51
116005	5/8 ODS	2.94	.14	2.06	.50	.48
116007	7/8 ODS	3.88	.63	2.94	.88	2.04

FORGED BRASS BODY — TYPE 205



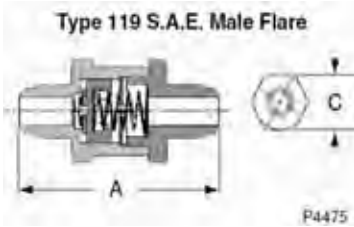
- Maximum working pressure 500 psi
- Temperature rating -20°F to $+300^{\circ}\text{F}$



PART NO	SIZE CONN	DIMENSIONS (in)				WT(lb)
		A	B	C	D	
205-7/8	7/8	4.25	.97	3.16	.75	2.73
205-1-1/8	1-1/8	4.88	1.14	3.88	.94	4.41
205-1-3/8	1-3/8	5.38	1.25	4.25	1.00	6.04
205-1-5/8	1-5/8	6.50	1.50	5.06	1.13	9.32
205-2-1/8	2-1/8	8.50	2.00	5.88	1.50	17.10
205-2-5/8	2-5/8	11.00	2.25	6.88	1.69	27.43

HENRY TECHNOLOGIES - CHECK VALVES (Straight Through Design)

BRASS BODY — TYPE 119

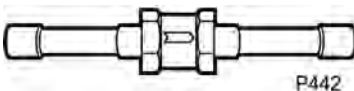


- Brass Construction with Synthetic Rubber Seat
- Complete Piston Guidance
- Stainless Steel Spring
- Operates in Any Position
- Temperature Rating -20°F to $+200^{\circ}\text{F}$
- Maximum Working Pressure 500 PSI

Compact, sturdy and noiseless in operation, with minimum pressure drop.

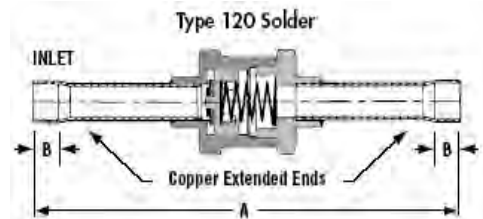
PART NO	SIZE CONN	DIMENSIONS (in)			WT(lb)
		A	B	C	
119-1/4	1/4 FL	2.26	—	.81	.22
119-3/8	3/8 FL	2.51	—	.81	.26

BRASS BODY — TYPE 120



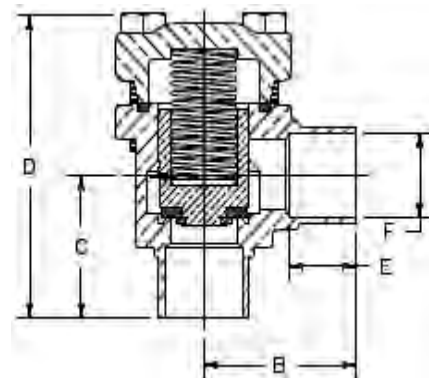
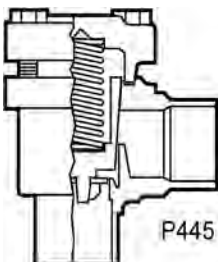
- Brass construction with synthetic rubber seat
- Complete Piston Guidance
- Stainless Steel Spring
- Operates in any position
- Temperature Rating -20°F to 200°F
- Maximum Working Pressure 500 PSI

Compact, sturdy and noiseless in operation, with minimum pressure drop.



PART NO	SIZE CONN	DIMENSIONS (in)			WT(lb)
		A	B	C	
120-3/8	3/8 ODS	5.25	.31	.81	.28
120-1/2	1/2 ODS	6.34	.38	1.25	.57
120-5/8	5/8 ODS	6.28	.50	1.25	.64
120-7/8	7/8 ODS	6.44	.75	1.50	1.06

HENRY TECHNOLOGIES - ANGLE CHECK VALVES

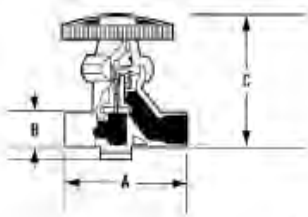


PART NO	SIZE CONN	DIMENSIONS (in)		
		Center to Bottom	Center to Side	Center to Height
215-7/8	7/8 ODS	1-1/2	1-3/4	3-3/16
215-1-1/8	1-1/8 ODS	1-3/4	2-3/16	3-7/16
215-1-3/8	1-3/8 ODS	1-15/16	2-7/16	4-3/8
215-1-5/8	1-5/8 ODS	2-5/32	2-3/4	5-1/16

HENRY TECHNOLOGIES - PACKLESS VALVES — Standard Type

- Forged Brass Cored Body and Bonnet
- Recommended for vacuum applications and service pressures up to 500 PSI
- Non-Directional Flow
- Backseating lower stem
- Diaphragms are changeable under line pressure
- Temperature Rating -20°F to +275°F

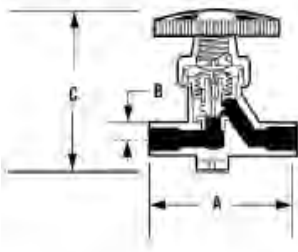
Standard Globe Valves — O.D. Solder



P4479

PART NO	SIZE CONN	DIMENSIONS (in)				Mtg Hole Ctrs	WT(lb)
		A	B	C			
6261N	1/4 ODS	2.63	.63	3.38	1.63	1.00	
6263N	3/8 ODS	2.63	.63	3.38	1.63	1.00	
6264N	1/2 ODS	3.13	.63	3.63	1.75	1.25	
6265N	5/8 ODS	3.50	.75	3.75	2.00	1.13	
6266N	3/4 ODS	4.38	.75	5.00	2.25	2.75	
6267N	7/8 ODS	4.88	.75	5.38	2.50	3.25	
6268N	1-1/8 ODS	6.00	1.00	6.50	3.25	5.50	

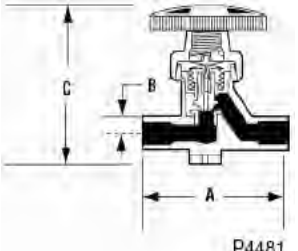
Standard Angle Valves — O.D. Solder



P4480

PART NO	SIZE CONN	DIMENSIONS (in)			WT(lb)
		A	B	C	
6471N	1/4 ODS	1.38	1.13	3.50	.75
6473N	3/8 ODS	1.38	1.13	3.50	.75
6474N	1/2 ODS	1.50	1.25	3.50	1.00
6475N	5/8 ODS	1.50	1.38	3.88	1.25
6476N	3/4 ODS	1.88	1.50	4.88	2.25
6477N	7/8 ODS	2.13	1.88	5.38	3.75
6478N	1-1/8 ODS	2.50	2.25	6.50	4.25

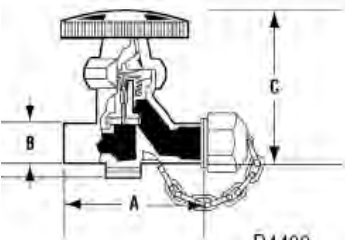
Hand Expansion Valves — Standard Type



P4481

PART NO	SIZE CONN	Ori Dia	DIMENSIONS (in)				Mtg Hole Ctrs	WT(lb)
			A	B	C			
6291N	1/4 ODS	.22	2.63	.63	3.38	1.63	1.00	
6293N	3/8 ODS	.22	2.63	.63	3.38	1.63	1.00	
6294N	1/2 ODS	.22	2.63	.63	3.38	1.63	1.00	
6295N	5/8 ODS	.28	3.38	.63	3.50	1.75	1.25	
6296N	3/4 ODS	.34	3.88	.75	3.75	2.00	1.38	
6297N	7/8 ODS	.38	4.38	.75	5.00	2.25	2.75	
6298N	1-1/8 ODS	.44	4.88	.75	5.38	2.50	1.00	

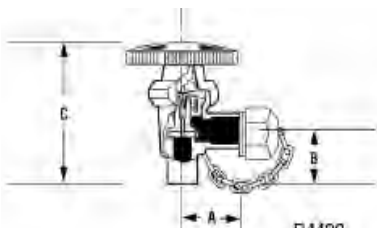
Charging and Purging Valves — Globe Standard Type



P4482

PART NO	SIZE CONN	DIMENSIONS (in)			WT(lb)
		A	B	C	
6231N	1/2 ODS x 1/4 Flare	2.63	.63	3.38	1.00
6232N	3/8 ODS x 3/8 Flare	2.63	.63	3.38	1.25
6233N	1/2 ODS x 1/2 Flare	3.25	.63	3.63	1.38
6234N	5/8 ODS x 5/8 Flare	3.75	--	3.75	--

Charging and Purging Valves — Single Standard Type

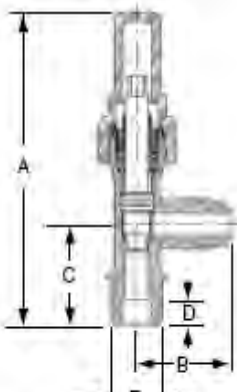


P4483

PART NO	SIZE CONN (in)		DIMENSIONS (in)			WT(lb)
	Bottom	Side	A	B	C	
6432N	3/8 ODS	3/8 Flare	1.38	1.13	3.38	.75

HENRY TECHNOLOGIES - RECEIVER VALVES — Packed, Angle Type

Forged Brass — Non-Back-Seating



P4485

ANGLE VALVE
NON-BACK-SEATING
TYPE 776-B

- Temperature Rating: -20° F to +300° F
- 500 PSI Maximum Working Pressure
- Forged Brass Body

PART NO	SIZE CONN (in)		DIMENSIONS IN INCHES					WT (Lb)
	BOTTOM	Side	A	B	C	D	E	

Forged Brass — Non-Back-Seating

7761-B	1/4 MPT	1/4 FL	3.80	1.25	1.25	.31	1/4 ODS	.35
7771-B	1/4 MPT	1/4 FPT	3.80	1.25	1.25	.31	5/16 ODS	.35
7763-B	1/4 MPT	3/8 FL	3.80	1.25	1.25	.31	5/16 ODS	.35
7764-B	3/8 MPT	1/4 FL	3.80	1.25	1.25	.31	3/8 ODS	.35
7766-B	3/8 MPT	3/8 FL	3.80	1.25	1.25	.31	3/8 ODS	.35
7767-B	3/8 MPT	1/2 FL	3.80	1.25	1.25	.31	3/8 ODS	.40
7768-AB	1/2 MPT	3/8 FL	3.94	1.25	1.38	.31	1/2 ODS	.59
7768-B	1/2 MPT	5/8 FL	4.56	1.62	1.38	.31	1/2 ODS	.91

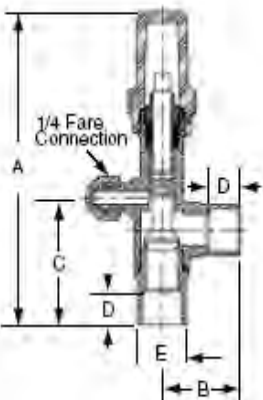
Forged Brass — Back-Seating

7792-B	1/2 MPT	1/2 FL	4.88	1.28	1.69	.38	1/2	.62
7793-B	1/2 MPT	5/8 FL	4.88	1.53	1.69	.38	1/2	.69

Forged Brass — Back-Seating*

7830	3/8 ODS	4.34	1.28	1.16	.31	—	.54	
7831	1/2 ODS	4.47	1.28	1.25	.38	—	.54	
7832	5/8 ODS	4.58	1.25	1.41	.50	—	.54	
7833	7/8 ODS	5.44	1.75	1.69	.75	—	1.06	
7834	1-1/8 ODS	7.10	1.75	2.00	.94	—	1.83	
7835	1-3/8 ODS	7.42	2.00	2.25	1.00	—	2.40	
7836	1-5/8 ODS	9.14	2.13	2.44	1.09	—	3.53	

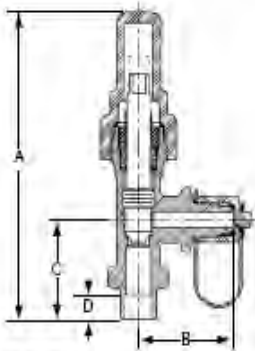
*Furnished with 1/4-in. flare capped charging and testing connection above back-seat.



P4484

ANGLE VALVE
BACK-SEATING
TYPE 779-B, TYPE 783

HENRY TECHNOLOGIES - PACKED ANGLE TYPE, CHARGING AND PURGING



P4486

TYPE 927
NON-BACKSEATING

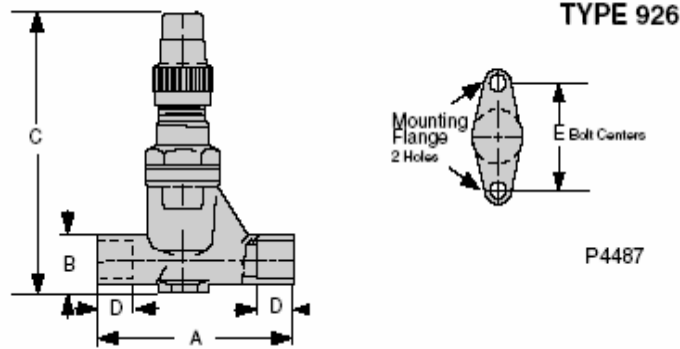
- Forged Brass Body, Plated Black Oxided Steel Stem and Molded Valox Seal Cap, Brass Flare Caps.
- Temperature Rating: -20° F (-29° C) to +300° F (+149° C).
- Maximum Working Pressure: 500 PSI, (35 Kg/cm²)
- Valves Furnished Disassembled to Avoid Excessive Heating of Internal Parts During Brazing.

PART NO	SIZE CONN (in)		DIMENSIONS (in)				WT(lb)
	Bottom	Side	A	B	C	D	
9270	1/4 ODS	1/4 Flare	3.88	1.25	1.25	.31	.40
9271	3/8 ODS	1/4 Flare	3.88	1.25	1.25	.31	.40
9272	3/8 ODS	3/8 Flare	3.88	1.25	1.25	.31	.46
9273	1/2 ODS	1/4 Flare	3.88	1.25	1.25	.38	.40
9274	1/2 ODS	3/8 Flare	3.88	1.25	1.25	.38	.46

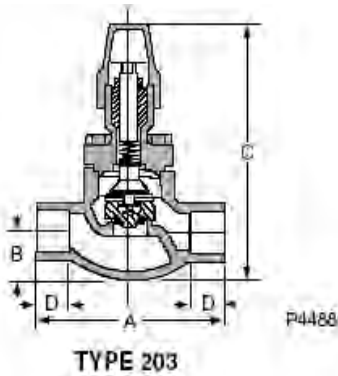
HENRY TECHNOLOGIES - SEAL CAP VALVES — Backseating Design

- Forged Brass Body with Integral Mounting Flange, Plated Steel Stem; Brass Bonnet and Molded Valox Seal Cap.
- Backseating: Can Be Repacked Under Pressure.
- Temperature Rating: -20° F (-29° C) to $+300^{\circ}\text{ F}$ ($+149^{\circ}\text{ C}$)
- Maximum Working Pressure: 500 PSI, (35 Kg/cm²)
- Recommended for Hot Gas Service or Other High Temperature Applications.

PART NO	SIZE CONN	DIMENSIONS (in)						WT(lb)
		A	B	C	D	E	F	
9261	1/4 ODS	2.69	.66	4.35	.31	1.63	.28	.79
9263	3/8 ODS	3.00	.66	4.35	.38	1.63	.28	.81
9264	1/2 ODS	3.19	.66	4.35	.44	1.63	.28	.80
9265	5/8 ODS	3.19	.66	4.35	.52	1.63	.28	.79



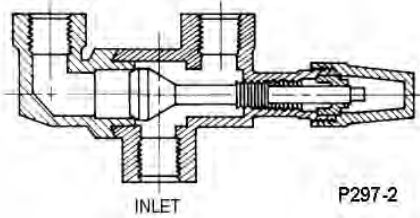
HENRY TECHNOLOGIES - SEAL CAP VALVES — GLOBE DESIGN



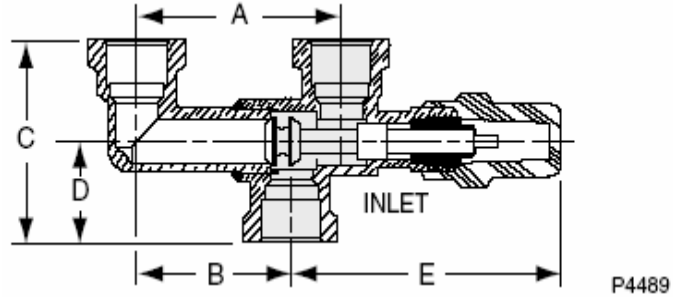
- Valve Bodies: Cast Bronze.
- Backseating: Can Be Repacked Under Pressure.
- Temperature Rating: -40° F (-40° C) to $+325^{\circ}\text{ F}$ ($+163^{\circ}\text{ C}$)
- Maximum Working Pressure: 450 PSI, (31 Kg/cm²).

PART NO	SIZE CONN	DIMENSIONS (in)				WT(lb)
		A	B	C	D	
2030-AA	7/8 ODS	4.25	.97	5.62	.75	3.00
2030-BA	1-1/8 ODS	4.88	1.14	5.88	.94	4.68
2031	1-3/8 ODS	5.38	1.25	8.75	1.00	7.35
2032	1-5/8 ODS	6.50	1.50	9.94	1.13	10.40
2033	2-1/8 ODS	8.50	2.00	10.63	1.50	16.69
2034	2-5/8 ODS	11.00	2.25	11.94	1.69	28.12
2035	3-1/8 ODS	12.00	2.63	13.25	1.75	44.00

HENRY TECHNOLOGIES - THREE-WAY DUAL SHUT-OFF VALVES



- Bodies: 92 Series: Forged Brass; 802 Series: Forged Steel; Painted.
- Maximum Working Pressure: 450 PSIG (31.5 Kg/Cm²)
- Temperature Rating: -20° F (-29° C) to +300° F (+149° C)
- Recommended for Use with Relief Valve Types.
- 802A Series is Suitable for Refrigerants Including Ammonia and Other Industrial Fluids Non-Corrosive to Steel.



PART NO	SIZE CONNECTIONS (in)	DIMENSIONS (in)					WT (Lb)
		A	B	C	D	E	
923	3/8 NPTF	2.75	2.06	2.50	1.25	3.60	1.15
925	1/2 NPTF	2.75	2.06	2.50	1.25	3.60	1.05
927	3/4 NPTF	2.75	2.06	2.81	1.40	3.88	1.67
8021A	1/2 NPTF	3.63	2.31	3.88	1.75	5.75	3.21
8022A	3/4 NPTF	3.63	2.31	3.88	1.75	5.75	3.00
8024	1 NPTF	5.81	3.68	3.88	2.00	7.50	7.87
8025	1-1/4 NPTF	5.81	3.68	3.88	2.00	7.50	6.92

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration

HENRY TECHNOLOGIES - PRESSURE RELIEF VALVES — Atmospheric, Angle & Straight-Thru Types

ATMOSPHERIC RELIEF VALVES

FEATURES

- **Brass Construction Set and Sealed at the Factory;** All NPTF Connections are American Standard Dryseal Tapered Pipe Threads.
- **Valves are Stamped** with Catalog Number, Size, Pressure Setting, Capacity and ASME-UV National Board Symbol; CRN Number and Flow Arrow.
- **All NPTF Connections** are American Standard Dryseal Tapered Pipe Threads
- **Positive Pressure Relief**
- **Consistent operation** at marked pressure setting
- **These relief valves are designed with HENRY's new "Center Leading Pivot" concept allowing the piston to reseal squarely to the body seat, thus reducing the possibilities of leakage.**
- **Suitable** for Refrigerants 12, 22, 500, 502, 12, 134a, and other Industrial Fluids Non-Corrosive to Brass, Monel, Steel and Teflon
- **Temperature Rating:** -40°F (-40°C) to +225°F (+107°C)
- **Orders Must Specify** Catalog Number, Pressure Setting, and Type of Refrigerant or Fluid with which the Valve is to be used; UV/NB Certified Setting Range 150-450 PSI. Contact Henry for Non-Certified Setting Range Information.

Selection of Relief Valves. Most states and municipalities which have refrigeration safety codes conform to the "American Standard Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15)." This code provides for a relief valve setting not to exceed the design working pressure of the vessel on which the relief valve is installed. The discharge capacity required is based on the size of the vessel and the refrigerant used. The discharge capacity of relief valves varies with the pressure setting. The capacities of Henry Relief Valves at various pressure settings are shown on Data Sheet No. AE 1303, copies of which are available by calling the Engineering and Technical Assistance line 1-800-627-5148. Whenever conditions permit it is advisable to have the relief valve pressure setting (which must not exceed the design working pressure of the vessel) at least 25% higher than the normal maximum operating pressure for the refrigerant used.

- **Standard Settings Are:** 235 PSI, 300 PSI, 350 PSI, 400 PSI, 425 PSI, 450 PSI

Important: Orders must specify pressure setting

Certification: Available if requested on purchase order

- Bodies: 5600 Series, Ductile Iron; 5300 Series, Stainless Steel; 5200 Series, Brass
- Cap: Steel
- Seat inserts, seat discs and main guides, piston Stainless steel
- Seat material: Teflon® or Neoprene where "N"
- Connections: (NPTF) pipe threaded
- Other component metal parts are steel
- Set and sealed at the factory and furnished with nameplates stamped with catalog no., size, pressure setting, capacity and ASME-UV National Board symbol.
- Temp. rating: -20°F (-28°C) to +275°F (+135°C)
- Protective lacquer finish
- Suitable for ammonia, HFC's and CFC's, refrigerants and other industrial fluids non-corrosive to steel and Teflon as indicated.
- Each valve has unique serialization for tagging requirements

Relief Valves in the types and sizes shown are constructed in accordance with the requirements of the ASME. These valves are also approved by many local refrigeration and air conditioning codes in the USA and Canada for relief of excess pressure. In addition, these valves are stamped with ASME-UV symbol & NB to indicate National Board certification of capacities between 150 P.S.I. and 450 P.S.I. Whenever conditions permit, it is advisable to have the relief valve pressure setting (which must not exceed the design working pressure of the vessel) at least 25 percent higher than the normal maximum operating pressure for the refrigerant used.

HENRY TECHNOLOGIES - PRESSURE RELIEF VALVES — Atmospheric, Angle & Straight-Thru Types

ATMOSPHERIC RELIEF VALVES

Relief Valve Capacity Ratings (#air/min.)															
PART No	Standard Pressure Setting - PSIG														
	90	140	150	170	190	200	235	250	280	300	325	350	360	400	450
5220N															
5221N	2.9	4.3	4.6	5.2	5.7	6.0	7.0	7.4	8.2	8.8	9.5	10.2	10.5	11.6	13.0
5223N															
526E															
5230	3.2	4.7	5.0	5.6	6.3	6.6	7.6	8.1	9.0	9.6	10.4	11.2	11.5	12.7	14.3
5231AN															
5231BN	5.6	8.2	8.8	9.9	10.9	11.5	13.4	14.2	15.8	16.8	18.2	19.5	20.4	22.2	24.9
527E															
5232	8.0	11.8	12.6	14.1	15.7	16.4	19.1	20.3	22.6	24.2	26.1	28.0	28.8	31.9	35.7
5240N1/2															
5242N3/4															
5340N1/2	8.3	12.2	13.1	14.7	16.3	17.1	19.9	21.1	23.5	25.1	27.1	29.2	30.0	33.2	37.2
5342N3/4*															
5244N1															
5344N1*	13.9	20.7	22.0	24.7	27.4	28.8	33.5	35.5	39.5	42.2	45.6	49.0	50.3	55.7	62.5
5244-1															
5344-1*	21.0	31.2	33.2	37.3	41.4	43.4	50.5	53.6	59.7	63.8	68.8	79.9	76.0	84.1	94.3
5246N1															
5246N1-1/4	28.2	41.8	44.6	50.0	55.5	58.2	67.8	71.9	80.0	85.5	92.3	99.1	101.9	112.8	126.4
5345N*															
5346N1-1/4*															
5611N*															
5612N*	9.3	13.9	14.8	16.6	18.4	19.3	22.4	23.8	26.5	28.3	30.6	32.8	33.7	37.3	41.8
5601*															
5602*	22.7	33.6	35.8	40.2	44.6	46.8	54.4	57.7	64.3	68.7	74.2	79.6	81.8	90.6	101.6
5603*	33.8	50.1	53.4	59.9	66.4	69.7	81.1	86.0	95.8	102.4	110.5	118.7	122.0	135.0	151.4
5614N*	45.6	67.6	72.0	80.8	89.6	94.1	109.5	116.1	129.3	138.1	149.2	160.2	164.6	182.2	204.3
5604*	23.7	35.2	37.5	42.1	46.6	48.9	57.0	60.4	67.3	71.9	77.6	83.3	85.6	94.8	106.3

* Valves suitable for Ammonia use

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

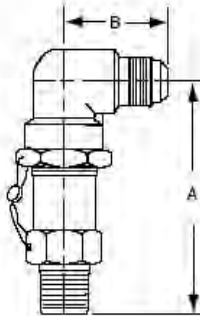
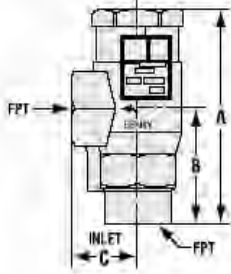
Accessories, Supplies
& Commodities

Tools &
Instruments

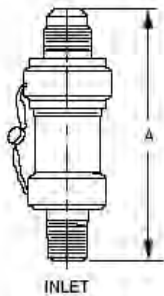
Refrigeration

HENRY TECHNOLOGIES - PRESSURE RELIEF VALVES — Atmospheric, Angle & Straight-Thru Types

ANGLE RELIEF VALVES



INLET
Type 52 Angle



INLET
Type 523 & 524
Straight Thru

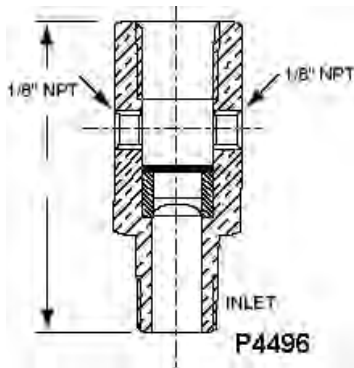
ASME NB
National
Board
Certified

Atmospheric Relief Valves							
PART NO	Connection Size		Dimension (in)			Orifice Dia. (in)	Weight Lbs.
	Inlet	Outlet	A	B	C		
5221N	1/4" NPT Male	-	2.5	-	-	0.188	.033
5223N	3/8" NPT Male	-		-	-		

Straight Through Relief Valves							
PART NO	Connection Size		Dimension (in)			Orifice Dia. (in)	Weight Lbs.
	Inlet	Outlet	A	B	C		
5230	1/4" NPT Male	3/8" Flare	3.16	-	-	0.25	.038
5231	3/8" NPT Male	1/2" Flare	3.28	-	-		.039
5231AN	3/8" NPT Male	1/2" Flare	3.28	-	-		.041
5231BN	3/8" NPT Male	5/8" Flare	3.58	-	-	0.44	.085
5232	3/8" NPT Male	5/8" Flare	3.94	-	-		
5240N1/2	1/2" NPT Male	3/4" NPT Female	3.74	-	-	0.312	.095
5242N3/4	3/4" NPT Male	3/4" NPT Female	-	-	-	0.375	1.03
5244N1	1" NPT Male	1" NPT Female	4.16	-	-		1.46
5244-1	1" NPT Male	1" NPT Female	-	-	-	0.5	1.46
5246N1	1" NPT Male	1-1/4" NPT Female	5.7	-	-	0.531	2.5
5340N1/2	1/2" NPT Male	3/4" NPT Female	3.74	-	-	0.312	0.95
5342N3/4	3/4" NPT Male	3/4" NPT Female	-	-	-		1.03
5344-1	1" NPT Male	1" NPT Female	4.16	-	-	0.5	1.46

Angeled Relief Valves							
PART NO	Connection Size		Dimension (in)			Orifice Dia. (in)	Weight Lbs.
	Inlet	Outlet	A	B	C		
526E	3/8" NPT Male	3/8" Flare	2.96	1.41	-	0.25	.06
527E	1/2" NPT Male	5/8" Flare	3.81	1.72	-	0.44	1.25
5600	1/2" NPT Female	3/4" NPT Female	4.97	2.69	1.63	.05	3
5601	1/2" NPT Female	1" NPT Female					
5602	3/4" NPT Female						
5603	1/2" NPT Female	1/4" NPT Female	5.53	2.88	2.00	.07	4.75
5604	1-1/4" NPT Female	1-1/2" NPT Female	7.38	4.13	2.31		6.50

HENRY TECHNOLOGIES - RUPTURE DISC ASSEMBLIES



FEATURES

- 5525 & 5526 brass series; 5626, 5627, 5628 & 5629 stainless steel series.
- Tested, certified & 'UD' stamped to ASME Section VIII Div I.
- Certified to conform to the PED 97/23/EC and bears the CE mark.
- Prevent leakage or weeping of fluids through the relief Valve.
- Extra gauge part for installation of a pressure switch to warn of a refrigerant release caused by a system malfunction
- A non- fragmenting rupture disc

NOTES:

The ASME Code, Section VIII, Division I guidelines for the application of Rupture Disc Devices in combination with pressure relief valves. The following excerpt is from the ASME Code, Section VIII, and Division I UG 127.

A Rupture disc devices may be installed between a pressure relief and the vessel provided:

The combination of the spring loaded safety relief valve and the rapture disc device is ample in capacity to prevent the pressure in the vessel from rising more than 10% above its design pressure. Since the capacity of a relief device pressure of the vessel.

Use of a Rapture disc device in combination with a safety relief valve shall be carefully evaluated to ensure that the media being handled & the vales operational characteristics will result in pop action of the Relief Valve coincident with the busing of Rupture Disc.

The stamped capacity of a spring loaded safety valve when installed with a rupture disc device between the inlet of the valve and the vessel shall be multiplied by a factor 0.90 of the rated relieving capacity of the Relief Valve alone.

The space between capacity a Rupture Disc Device and a safety valve shall be provided with a pressure gauge, or suitable Telltale Indicator. This arrangement permits detection of Disc rupture or leakage. Be warned that a Rupture Disc will not burst at its design pressure if back up in the space between the disc and the safety relief valve which will occur should leakage develop in the Rupture Disc due to corrosion or other causes.

PART NO	Size Conn.		Dimensions in Inches			Orifice C	Wt. Lbs.
	A Inlet	B Outlet	D	E	F		
5525	3/8	3/8	2.55	0.77	1.25 AF	0.38	0.61
5526	1/2	1/2	2.85	0.89	1.25 AF	0.50	0.44
5626	1/2	1/2	2.86	0.90	1.13	0.50	0.44
5627	3/4	3/4	3.19	1.13	1.50	0.75	0.76
5628	1	1	3.67	1.25	1.75	1.00	1.24
5629	1 1/4	1 1/4	3.75	1.31	2.00 AF	1.312	1.6



The "Sentry" Rupture Disc Assembly/Relief Valve Combination is shown in its Normal operating condition with System Pressure only under the Rupture Disc [See top pressure gauge].

The "Sentry" Rupture Disc Assembly/Relief Valve is shown with the Disc ruptured by High System Pressure. Note the System Pressure in the Chamber beneath the Relief Valve. (See bottom pressure gauge).

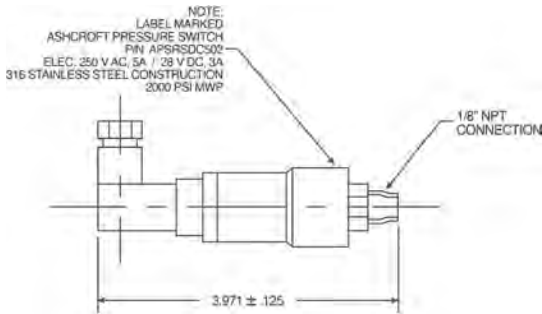
The Relief Valve has discharged but reclosed, preventing the entire refrigerant charge from escaping into the atmosphere.

Note: Relief valve, pressure gauge and pipe plug not included with "SENTRY" Rupture Disc Assembly.

PART NO	Size Conn.		D	Rupture Disc Setting 72°F PSI	Wt. Lbs.
	Inlet M.P.T	Outlet F.P.T			
5525-235-CE	3/8	3/8	2.55	235	.61
5525-300-CE	3/8	3/8	2.55	300	.61
5525-350-CE	3/8	3/8	2.55	350	.61
5525-400-CE	3/8	3/8	2.55	400	.61
5525-450-CE	3/8	3/8	2.55	450	.61
5526-150-CE	1/2	1/2	2.85	150	.44
5526-250-CE	1/2	1/2	2.85	250	.44
5526-300-CE	1/2	1/2	2.85	300	.44
5526-350-CE	1/2	1/2	2.86	350	.44
5526-375-CE	1/2	1/2	2.86	375	.44
5526-400-CE	1/2	1/2	2.86	400	.44
5526-450-CE	1/2	1/2	2.86	450	.44
5527-150-CE	3/4	3/4	3.19	150	.76
5527-250-CE	3/4	3/4	3.19	250	.76
5527-300-CE	3/4	3/4	3.19	300	.76
5527-350-CE	3/4	3/4	3.19	350	.76
5527-400-CE	3/4	3/4	3.19	400	.76
5527-450-CE	3/4	3/4	3.19	450	.76
5528-150-CE	1	1	3.67	150	1.24
5528-250-CE	1	1	3.67	250	1.24
5528-300-CE	1	1	3.67	300	1.24
5528-350-CE	1	1	3.67	350	1.24
5529-150-CE	1 1/4	1 1/4	3.75	150	1.6
5529-175-CE	1 1/4	1 1/4	3.75	175	1.6
5529-250-CE	1 1/4	1 1/4	3.75	250	1.6
5529-300-CE	1 1/4	1 1/4	3.75	300	1.6

HENRY TECHNOLOGIES - RUPTURE ASSEMBLY PRESSURE SWITCH

Pressure Switch SW57



FEATURES:

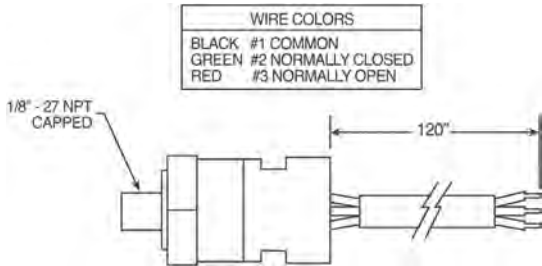
- **Type:** Direct action blade contact
- **Contacts:** Silver alloy, gold plated
- **Set point:** Factory set and sealed
- **Pressure Setting:** 5 PSI
- **Switch Burst Pressure:** 750 PSI
- **Ratings:** 4 AMP- 24 VAC
- **Diaphragm:** Teflon
- **Temperature Range:** -40°F to +250°F
- **Connector:** 1/8-27 NPT male thread
- **Terminals:** Metri-Pack. 1/4" blade
- **Circuitry:** Normally opened
- **Base:** Steel
- **Cover:** Glass reinforced polyester

NOTES:

The addition of the Pressure Switch provides inexpensive means of providing an electrical signal to warn of a refrigerant please caused by a system modification. An extra gauge part is provided on our Sentry Rupture Disc Assembly for the Pressure Switch.

Furnished with Metri-Pack Connector and 10 ft. of wire

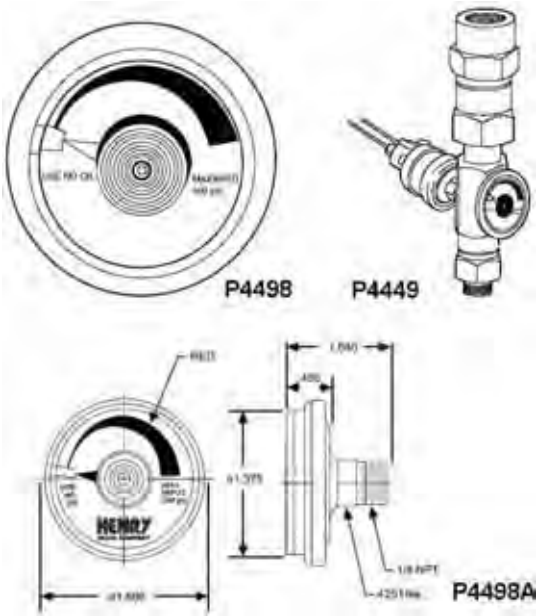
Pressure Switch SW58



FEATURES:

- **Type:** Single pole double throw
- **Contacts:** General Purpose
- **Set Point:** Factory set & sealed
- **Pressure setting:** 5 PSI
- **Switch Burst Pressure:** 9000 PSI
- **Ratings:** 5AMP-12/24 VDC and 120/240 VAC
- **Diaphragm:** Neoprene
- **Temperature Range:** -40°F to +176°F
- **Connector:** 1/8-27 NPT male thread
- **Terminals:** 1/4" blade
- **Circuitry:** Normally opened
- **Base:** Stainless-steel
- **Cover:** Glass reinforced polyester
- **Furnished with** 10 ft. of wire

HENRY TECHNOLOGIES - RUPTURE ASSEMBLY PRESSURE INDICATOR



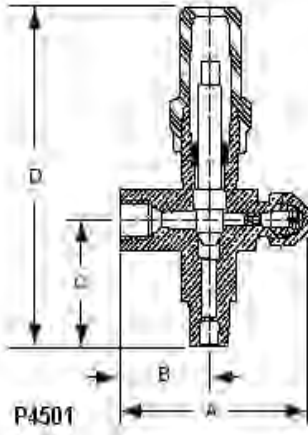
- Dial: 1-3/8" (35 mm), White Aluminum Dial with Red Marking
- Dial: Maximum Working Pressure: 600 PSI
- Case: AISI 304 Stainless Steel
- Lens: Plexiglass, Watertight
- Pointer: AISI 304 Stainless Steel
- Socket: AISI 304 Stainless Steel
- Ambient Temperature: -40°F / +150°F (-40°C / +65°C)

NOTES: The Pressure Indicator (Item A) can be used with our Sentry Rupture Disc Assembly (Item B), which helps prevent leakage of both halocarbon and ammonia refrigerants by indicating whether the relief valve had discharged. The Sentry Rupture Disc Assembly, as required by ANSI/ASME Code, provides a chamber between the rupture disc and the relief valve, and a connection to install the new pressure indicator. This arrangement permits a positive indication that the disc has ruptured and the relief valve has discharged. The "Sentry" Rupture Disc Assembly/Relief Valve Combination is shown in its Normal operating condition with System Pressure only under the Rupture Disc. (See first pressure gauge.)

NOTE: Relief valve, pressure gauge and pipe plug not included with "Sentry" Rupture Disc Assembly.

PART NO	SIZE CONNECTION
G15	1/8-in. MPT, Back

HENRY TECHNOLOGIES - TRANSDUCER VALVE - RUPTURE ASSEMBLY PRESSURE SWITCHES/INDICATORS



- Forged Brass
- Temperature Rating: -20°F (-29°C) to $+300^{\circ}\text{F}$ ($+149^{\circ}\text{C}$)
- Maximum Working Pressure: 500 PSI (35 kg/cm²)
- Connector: 1/4" Flare Access with Schrader Core
- Provides access to systems and mounting of a Transducer to monitor systems performance
- Provides Schrader Valve port for checking Transducer output with a pressure gauge
- Provides isolation from system for replacement of Transducer
- Suitable for refrigerants and other industrial fluids
non-corrosive to Brass and Steel

PART NO	SIZE CONN (in)		DIMENSIONS (in)				WT(lb)
	Bottom	Side	A	B	C	D	
9290	1/4 MPT	1/8 FPT-1/4 FL	2.38	1.19	1.56	4.16	.52

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration