

SOLENOID VALVES

24 VDC SOLENOID VALVE

SMC PNEUMATICS, #NVZ312.
24 VDC @ 75 mA solenoid valve with three ports, plus pilot air exhaust. The valve is a two-position single solenoid type with pilot assist. Ports are M5 x 0.8 FPT. Valve can be manually operated by depressing plunger located on valve body. Electrical connections are via 11" long leads. The valve has a 2-pin plug on the solenoid body for electrical connections. Suitable for air and inert gases. Pressure rating is 20 to 120 psi. Overall dimensions: 5/8" wide x 2-5/16" high x 2-7/8" long.



Stock #SV2150

\$19.50

24 VDC SOLENOID VALVE SMC PNEUMATICS, #NVZ312OR. 24 VDC @ 75 mA. Three ports. Similar to above, but with subtle model description indicating pilot and solenoid actuation. Can be considered equivalent to #NVZ312 in most applications.
Stock #SV2151

24 VDC SOLENOID VALVE

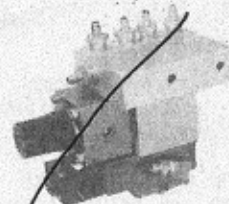
WITH MANIFOLD
MAC, #45A-EA1-DDDA-1BA.
24 VDC @ 7.3 watts.
3-way solenoid air valve mounted on an aluminum manifold. Manifold has four output ports and three air input ports. The air inputs are all connected. Output ports are connected together in pairs with one pair for the A output of the solenoid valve and the other pair for the B output. The two exhaust ports have fittings attached. One fitting is an exhaust silencer and the other is a 3/16" barb style fitting. Ports are all 1/8" FPT except one of the air input ports which is 1/4" FPT. Ports all have barb style brass fittings which are removable or reusable. Valve pressure rating is vacuum to 120 psi. Electrical connections via 13" long wire leads with a two-pin plug. Manifold has two 1/4" x 20 tpi tapped mounting holes located on the rear surface. Overall dimensions: 3" wide x 3" high x 3-1/4" deep.



Stock #SV2102

SOLENOID VALVE REGULATOR ASSEMBLY

Consists of a 3-way Mac valve #711C-11-P1-501BA plus a 0-40 psi out regulator plus associated mounting manifolds. Assembly is arranged so that solenoid valve selects full line pressure which is directed to ports marked "A" or solenoid valve can select 0-40 psi regulated pressure which is directed to ports marked "B" useful for control of cylinder, etc., which has a low pressure direction and a full pressure opposite direction. Solenoid valve coil 24 VDC 2.5 watts. All main ports are 1/4" female NPT. Auxiliary ports are female 1/8" NPT. Main ports have barb type fittings for 1/4" tubing. These can be easily removed. Dim.: 5-1/2" wide x 5-3/4" high x 3" deep.
Stock #SV9550



MINIATURE SOLENOID VALVE ASSEMBLY

Consists of the following parts: 2-way precision air valve with adjustable restrictor/flow diverter, aluminum air manifold, in-line air filter, two Colder Products air quick disconnect fittings with 1/8" pipe thread, plus one panel mount air quick disconnect. Also included are a miniature right angle swivel air fitting and two pieces of flexible tubing. The solenoid air valve is an AIRMANS, #1001-020/7144-012. The coil voltage is rated at 24 VDC 2.0 watts, or 36 VAC 50/60 Hz, 3.5 VA. The max. air pressure rating is 150 psig. The unit as shipped operates as follows: air input through the in-line filter flows through the manifold and exits through the top of the air valve. When the coil is actuated, the air is directed to the body of the manifold and exits via the two quick connect fittings located on the manifold body. The direction and flow through the device depends upon the setting of the small diverter valve located on the valve body. The diverter allows the flow to be preset to one level by the diverter valve and then will go to a full level of flow when the valve coil is actuated. Dimensions: 2-13/16" wide x 3-13/16" high x 1-1/8" deep.



Stock #SV2002

24 VDC MULTIPLE SOLENOID AIR VALVE ASSEMBLY

Consists of six Numatics® 226-272B valves and one Model #11SAD400B02BT valve mounted on a common manifold. Valve coils are rated 24 VDC 6 watts. As set up on the manifold all valves have a common air supply. Six valves are set up to operate 2-way air cylinders. A breather filter is provided at each exhaust port. The seventh valve is also set up to operate a 2-way cylinder, but the two exhaust ports are provided with filtered adjustable restrictors to allow speed control on actuation and return cycle of the cylinder. Assembly is also provided with an adjustable air pressure regulator and pressure gauge calibrated 0-100 psi and 0-4 bar. Connections are via barb fittings for 3/16" plastic hose, but these can be removed for direct pipe connections if required. Dimensions: 5" high x 14" wide (including regulator) x 5" max. deep.

Stock #SV9502

24 VDC MULTIPLE SOLENOID AIR VALVE ASSEMBLY

Six NUMATICS®, #031SA400B valves and one Model #031SA402B valve mounted on a common manifold. Valve coils are rated 24 VDC 6 watts. As set up on the manifold all valves have a common air supply. All valves are set up to operate 2-way air cylinders. A breather filter is provided at each exhaust port. One valve is set up to operate a 2-way cylinder, but this valve has adjustable restrictors to allow speed control on actuation and return cycle of cylinder. Assembly is provided with an adjustable air pressure regulator and pressure gauge calibrated 0-60 psi and 0-400 kpa. An air flow filter assembly is also included plus the connecting fittings. Connections via barb fittings for 3/16" O.D. plastic hose, but these can be removed for direct pipe connections if required. Dimensions: 7" high x 13" wide (including regulator and air filters) x 5" max. deep.

Stock #SV2003

TANKS & ACCUMULATORS

AIR ACCUMULATOR

BIMBA, #D18-078-A-1.
26 cubic inch capacity.
Max. pressure 200 psi.
Stainless steel body with aluminum end plates.
Provided with female 1/4" NPT ports on each end. Dimensions: 2-5/8" O.D. x 4" long. Weight 1 lb.

Stock #ACT8701



AIR ACCUMULATOR

BIMBA, #D-2485-A-8.
29 cubic inch capacity. Max. pressure 200 psi. Stainless steel body with aluminum end plates. Provided with female 1/4" NPT ports on each end. Dimensions: 2.080" O.D. x 10-7/8" long.

Stock #ACT2200



HIGH PRESSURE AIR TANK

TAVCO,
#AF22313.
Rated 52 cubic inches air, 1500 psi. Continuous duty. Has ports for inlet, outlet, safety valve, and drain. All ports are female #4 AN. Steel construction. Dimensions: 2-15/16" dia. x 12-7/8" long.

Stock #ACT9200



VALVES

VALVES

BALL VALVE

JAMESBURY,
#A-4436.

Fine quality ball valve. Body is made of aluminum and 316 stainless steel. Ball and stem are 316 stainless. Seats are PTFE. 1/4" NPT female pipe ports each end. Dimensions: Body 3" long x 2-1/2" high x 2" deep. Handle 4-1/2" long.

Stock #BV9350



BALL VALVE

Fine quality ball valve. Nickel plated brass body. Stainless steel ball with Teflon® seals. Male pipe ports on each end. One end is 1/2" NPT. The opposite end is 3/8" NPT. Valve body is 1-1/4" dia. x 2-5/32" long x 1-7/8" high. Actuator handle has a black plastic handle and steel actuator. Handle is 4-1/2" long. Estimated maximum working pressure 100 psi.

Stock #BV9200



FLOW CONTROL VALVE

ROBBINS, #SSKA250-4T.

This is a high pressure rated flow control valve. It also can be used as a shut-off valve if desired. The rated pressure range is vacuum to 6000 psi. The valve has a machined stainless steel body. The ports are compatible with #4 AN fittings. Designed for panel mounting in a 5/8" round hole. A mounting washer and nut are supplied. The flow control knob is approx. 1-3/16" dia. Dimensions: 3-1/2" high nom. x 1-3/4" wide x 1" thick (body excluding knob).

Stock #VV2200



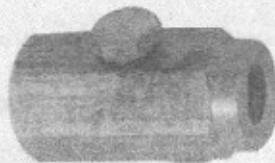
BRASS CHECK VALVE

DELTRON, #C10B.

This is a one-way flow check valve. Designed for use with air or low pressure fluids.

The valve allows flow in one direction while blocking the flow in the opposite direction. The body of the valve is machined out of brass bar stock. The body has a hex shape and measures 11/16" across the flats. The overall length is 1-31/64". The input and output ports are female 1/8" NPT.

Stock #VV2050



SPECIAL PURCHASE!

Check out these great values on valves!

STAINLESS STEEL BALL VALVES WHITEY/SWAGelok. Manually operated stainless steel ball valves. We have various sizes and styles as listed below. All valves have the following common characteristics: The ball seats are reinforced PTFE material. Unless specified otherwise these valves are two-way-on/off style units. The operating handle varies with the different valves and is specified individually.

WHITEY, #SS-62TS4-JK. Rated 2200 psi @ 100°F. Ports are 1/4" female Swagelok tubing fittings. The unit has an orange oval handle.

Stock #BV2300

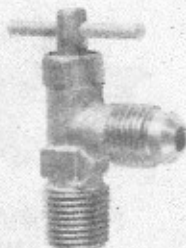
WHITEY, #SS-62TF4-BL. Same as BV2301 except the valve has a blue oval handle.

Stock #BV2302

SMALL BRASS SHUT-OFF VALVE

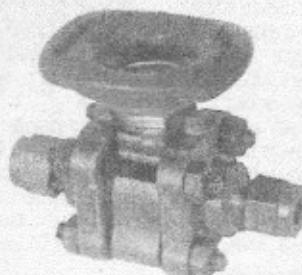
For use in low pressure applications such as drain valves, etc. Brass body with steel operating handle. Input port is 1/4" male NPT. Output port is 5/16" male flare fitting. Dimensions: 2" high x 1.5" wide x 0.6" thick.

Stock #VV2500



WHITEY, #SS-62XTF4. Three way ball valve. The pressure rating is 1000 psi @ 100°F. Ports are all 1/4" female NPT. Has a standard straight handle.

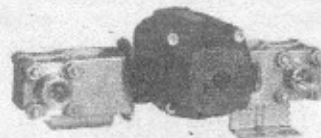
Stock #BV2303



DUAL AIR OPERATED BALL VALVE

SWAGelok® WHITEY®, #SS-62TF4-31CDM. Very high quality stainless steel dual ball valve with air actuator. Rated 2200 psi @ 100°F. At 450°F pressure rating is 100 psi. Normally closed. Ports are all 1/4" female NPT. Air input ports into actuator are 1/8" female NPT. Reinforced PTFE seats. Actuator has internal spring that returns valves to closed position when no air pressure is applied to the actuator main port. Application of air pressure to main port of actuator causes valves to open. Max. rated air pressure of actuator is 200 psi. NOTE: As supplied, the rotors of the two valves are installed in normally closed position. Design of valve drive coupling allows valve ball rotor position to be turned 90°. By doing this, one or both valves can be set to be normally opened in the un-actuated position. Two sturdy mounting feet connected to actuator body. All valve and mounting parts are stainless steel. Dims: 7-1/2" wide x 5" high x 3" deep.

Stock #VV2300



AIR ACTUATED BALL VALVES

These are all similar to the ones described above except as noted.

WHITEY, #SS43F4-31C. Has a single Series 43 ball valve and pneumatic actuator Type 31C. Valve is stainless steel and has a pressure rating of 3000 psi @ 100°F. As supplied, the valve is normally closed. The valve ports are female 1/4" NPT.

Stock #VV2302

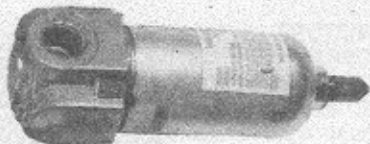
WHITEY, #SS62TS4-31C. Has a single Series 62 ball valve and pneumatic actuator Type 31C. The valve is stainless steel and has a pressure rating of 2200 psi @ 100°F. As supplied, the valve is normally closed. The ports are 1/4" female Swagelok® tubing fittings.

Stock #VV2303

WHITEY, #SS43F4-31C. Has a single Series 43 ball valve and pneumatic actuator Type 31C. Valve is stainless steel and has a pressure rating of 3000 psi @ 100°F. As supplied, the valve is normally closed. The valve ports are female 1/4" NPT, a pressure rating of 1000 psi @ 100°F. The main ports are 1/2" female Swagelok® tubing fittings. The third (common port) is 1/2" female NPT.

Stock #VV2304

HYDRAULIC & AIR FILTERS



AIR FILTER

ARROW, #F300-02-S2AN. Sturdy air filter with metal bowl and manual drain. Filter is sintered bronze. Suitable for all small volume compressed air applications. Maximum input air pressure is 250 psig. 40° to 200°F. Input and output ports are female 1/4" NPT. Dimensions: 1-1/2" wide x 1-9/16" deep x 4-3/4" high. Stock #FT9700



MINIATURE AIR FILTER

WATTS FLUIDAIR, #F501-01AH M1/23. Air filter with manual drain. 150 psi max. air pressure, 120°F max. temp. Has clear polycarbonate bowl. Inlet and outlet ports are female 1/8" NPT. Designed to be mounted on air input and/or output ports. Dimensions: 1-9/16" dia. x 4-7/16" long. Drain knob adds approx. 9/16" to length. Stock #FT9550

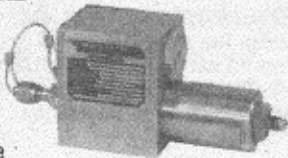


AIR FILTER

NORGREN, #F07-239A1TA. Miniature in-line air filter. Ceramic filter element. Max. inlet pressure 150 psi. Polycarbonate plastic bowl with automatic water drain. Max. operating temp is 125°F. Inlet and outlet ports are female 1/4 NPT. Dimensions: 1-7/8" nom. max. dia. x 4-3/8" max. long. Stock #FT9800

HIGH PRESSURE MICRO FILTER

WINTEC CORP. #14251-505. Design pressure 2500 psi. Filter element is rated 15 micron absolute and is pneumatic micron type. Useful on high pressure gas applications. Temperature range is from -65°F to +165°F. Has a red pop-out indicator that is activated if the differential pressure between input and output pressures exceeds set limits. Indicator pops out when the filter is plugged. Input and output ports are #4 male AN fittings. Output fitting is provided with a screw-on cap and retaining cable. All component parts are made of non-magnetic stainless steel. Dimensions: 2-1/2" wide x 3-1/2" high x 8" long.



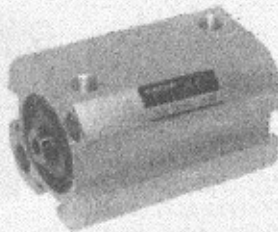
Stock #FT2050

Stock #FT2050

HYDRAULIC CYLINDERS

AIR CYLINDER

KURODA, #XCA-32-50 or GOLDSTAR® #ACF-32DC. Bore is 32mm and the stroke is 50mm. Double acting. Bodies are aluminum with the piston rod being steel. Piston rod has O.D. of 12mm. End of rod is tapped with 6mm x 1mm pitch female thread. End of rod has 10mm wide wrench flat. End of piston rod extends beyond cylinder body approx. 3/16" with rod in the retracted position. Body has two 3/16" nom. dia. mounting holes that run through the body, front to back, parallel to the cylinder bore. Ends of mounting holes are counterbored for the heads of mounting bolts. Ports are female and are made to metric thread standards, but standard American 1/8" NPT male fittings will fit. Dimensions: (Cylinder body, excluding rod end) 2" sq. x 2-31/32" long. Stock #HC2100



Stock #HC2100



AIR CYLINDER BIMBA, #020.5-DXP 9/16" bore 1/2" stroke. Double acting. Max. air pressure 250 psi. Stainless steel body with aluminum end caps. Actuator rod is stainless steel. The rod is 3/16" dia. The end of the rod is threaded #10X32 tpi. The threaded section is 1/2" long. The front and rear of the cylinder are threaded 7/16"X20 tpi. The length of the threaded sections is approx. 7/16". The rear section also has cross-drilled hole. This hole has an Oilite bronze bushing press fitted into it. The bore of the bushing is 5/32". The rear section is also flatted. The flat is 5/16" nom. across. Dimensions with rod retracted: 5/8" dia. x 3-7/8" long. Stock #HC9901

Stock #HC9901

HOSE FITTING

FITS HC2201 HC9901 HC9800 ABOVE 10x32 to 1/16" HOSE BARB

Stock #HF9250



2500 PSI

LONG STROKE HYDRAULIC CYLINDER

Has a bore of approx. 3" and a stroke of 48". Piston rod diameter is 1-3/4". End plates are 5" square. Overall length of the cylinder body is 57-5/8". Four 2-1/2" mounting studs on each end. The center to center distance of the studs is 3-3/4". Weight is 160 lbs. Stock #HC2300

Stock #HC2300



AIR CYLINDER BIMBA, #040.5-DP-B. 3/4" bore, 1/2" stroke. Double acting. Maximum input air pressure is 250 psi. Has stainless steel cylinder body with aluminum end caps. Actuator rod is 0.250" dia. x 0.50" long in the retracted position. 0.50" rod end is threaded 1/4X28 tpi. Front and rear mounting threads are 0.625X18 tpi. The front mounting thread is 0.50" long. The rear thread is 0.625" long with flats and 0.250" dia. pivot pin. Dim. of cylinder body: 0.860" dia. x 4.550" long. Input ports are 1/8" female NPT. Stock #HC8805

Stock #HC8805



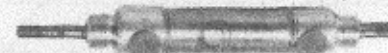
AIR CYLINDER BIMBA, #D-15287-A-1. 7/8" bore 1" stroke. Double acting. Max. air pressure 250 psi. Stainless steel body with aluminum end caps. Actuator rod is stainless steel 1/4" in diameter. Rod is threaded 1/4"X28 tpi. The threaded section is approx. 1/2" long. Rod end of cylinder has a male threaded mounting boss. The threaded section is 5/8X18 tpi and is approx. 1/2" long. The rear of the cylinder has a 1/8" wide x 37/64" deep slot. This slot has a cross-drilled 1/4" hole for use as a pivoting mounting point. Ports are female 1/8" NPT. Body dimensions: 15/16" dia. x 4-5/16" long. Stock #HC9503

Stock #HC9503



AIR CYLINDER SHEFFER MFG CO., Model CLAD 1. 1-1/8" bore 1" stroke. Double acting. Max. air pressure 100 psi. Aluminum body with aluminum end caps. Actuator rod is 5/16" in diameter. Made of stainless steel. Rod is threaded 5/16"X24 tpi. The threaded section is approx. 1/2" long. Ports are female 1/8" NPT. The unit comes with a rubber shock type mounting attached to rear of cylinder. This is easily removed if desired. The cylinder is equipped with a variety of clear drilled and tapped holes for mounting. Cylinder dimensions: 1-1/4" dia. x 4-1/8" long. Stock #HC9501

Stock #HC9501



DOUBLE ACTING AIR CYLINDER AMERICAN, #750DES-1.00. 3/4" bore, 1" stroke each way. Maximum input pressure 250 psi. Has stainless steel cylinder body with aluminum end caps. Actuator rod is 0.250" dia. x 0.50" long in retracted position. Cylinder body: 5" long. Includes 1/2" mounting thread on each end. Input ports are 1/8" female NPT. Body dia. is 3/4". Actuator rod is threaded at each end. Stock #HC8950

Stock #HC8950

HYDRAULIC & AIR FILTERS — HYDRAULIC CYLINDERS

ENCODERS

HEWLETT PACKARD ENCODER

#QEDS-7148.

This is a special unit that is similar to a Hewlett Packard #HEDS-7500 series. This unit has 500 counts per revolution. The unit has a 1/4" dia. shaft. The shaft is 15/32" long and has a flat running the entire length. The unit does not have a threaded mounting thread as do standard units of this type. The bronze front shaft bushing is 1/2" dia. x approx. 0.1" long. The bushing is made of bronze and probably is long enough for use as a mounting point for most applications. Otherwise the unit can be mounted by clamping to the body or other means. Operates on 5VDC. Current consumption is approx. 40 mA. The output is TTL logic compatible. Dimensions: 1-1/8" wide x 1-3/8" high x 1-3/8" deep (including shaft).

Stock #ADE2150



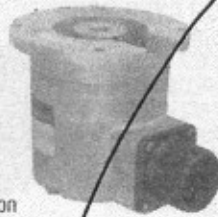
RUGGEDIZED OPTICAL ENCODER

BEI,

#E2586-SR-SB-128-ABC-8830-LED-SM18.

The ruggedized construction of this encoder allows it to be used in severe industrial environments. The unit has a solid state LED light source. The device has an output count of 128 pulses per revolution. The unit has two channel quadrature outputs. Both outputs are complimentary and provide a high going and low going pulse for each count. The input voltage is 5 VDC @ 175 mA max. The unit is supplied with a helical style shaft coupling. The bore of the coupling is 3/8" and two hex set screws are provided for locking to the driving shaft. The encoder has a sturdy cast aluminum housing and is designed for direct mounting to motors or other devices. The flange of the case has four 5/32" nom. dia. clear mounting holes. The bolt circle of the holes is 2-61/64". The outside diameter of the flange is 3-1/4" and it is 7/32" thick. All electrical connections are via a 10-pin AN style connector and a mating connector is supplied. These units are new. Connection information is provided. Dimensions: 3-1/4" max. dia. x 3" long x 4-3/8" max. wide (across connector).

Stock #ADE9950

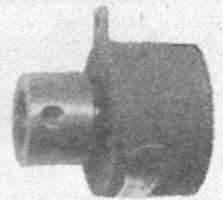


MINIATURE ENCODER

OPTO-GENERAL DEVICES,
#FRU H003. Special dual resolution digital encoder.

This unit has dual two channel complimentary outputs. Outputs are TTL compatible. Input voltage 5 VDC @ 100 mA max. When tested rotating at 26 rpm the approx. output channel frequencies are 583 Hz on Channel 1 and 430 Hz on Channel 2. This is a special proprietary device so we could not obtain disc counts except as noted above. Originally made for use in a laser printer or similar application. This unit has high count output for its size. Has plastic code wheel with LEDs for internal light sources. Shaft and encoder wheel are mounted on precision ball bearings. Body of encoder is glass filled plastic with sprayed-on RFI shielding. The encoder shaft hub has a 10mm bore and a 16.5mm outside diameter. Overall length of hub is 7/16". The hub has a tapped hole on its periphery for attaching to a shaft. The hole is tapped 4mm x 0.7mm. Has a 7" long round flexible 7 wire cable for electrical connections. Encoder body has a small anti-rotation tab on its side near hub. Dimensions: 1-1/8" dia. x 23/32" long (excluding hub).

Stock #ADE9650



AIR CYLINDER ACCESSORIES



AIR CYLINDER ACCESSORY

BIMBA, #D-22190-A. Rod end clevis. Tapped for 3/8X24 tpi rod end. Includes locking nut, clevis pin with retaining clips. Dimensions: 3/4" sq. x 1-3/4" long.

Stock #HCA9151

AIR CYLINDER ROD CLEVIS

Constructed of strong black reinforced polymer. Has steel insert rings at pin end of clevis. Clevis is threaded 5/16"X24 tpi female at one end and has a 5/16" dia. cross pin at the opposite end. Cross pin is steel and is held in place with two "C" spring clips. Dimensions: 2-1/4" long x 1" wide x 1/2" thick.

Stock #HCA9503



AIR POP-OFF PRESSURE RELIEF VALVE NORGREN,

#16-005-016.

Designed to be a safety relief valve in compressed air systems. Can be adjusted over a range of approx. 25 to 40 psi. Comes preset to pop off at 30 psi. Repeatability is ±20% of setting. Has brass body with stainless steel ball and spring. Pressure input port is 1/8" male NPT. Dim.: 7/8" max. dia. x 2-1/2" long.

Stock #HCA9501



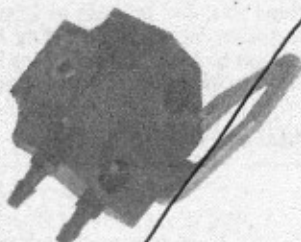
PNEUMATIC ACTUATOR

PNEUMATIC ACTUATOR

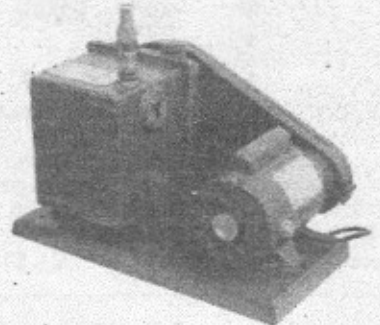
#3411-065-

000. Unusual air operated linear actuator. Double acting and has a lever that allows device to be operated manually. Actuator shaft is about 5/16" in dia. and extends 5/16" from body of device in one position and is flush with body in opposite position. Manual lever is 1-3/4" long. Air input ports accept all standard #10 x 32 tpi miniature air fittings. Supplied with plastic barbed connectors for 1/8" flexible air tubing. When air is supplied to one or the other air ports actuator moves in or out depending upon which port is receiving air pressure. Max. operating air pressure is 100 psi. Actuator rod and manual operating lever rotate 90° in rotational position as device cycles between positions. Two 3/16" dia. clear mounting holes bored through body which have counterbored face that will accept socket head capscrews. These could be used to provide an air operated door locking function that has a manual override. Dimensions: (actuator body) 2-3/16" wide x 1-5/8" high x 7/8" thick.

Stock #HC2200



VACUUM PUMP



SARGENT-WELCH, #1402. High vacuum rotary oil pump. Two stage, rated at 5.6 cfm. Guaranteed pressure 0.1 micron. Pump motor 1/2 hp 115/220 VAC 60 Hz. Single phase. Dimensions: 15-5/8" high x 19-1/4" long x 12" deep. Wt 112 lbs. Used, in excellent condition.

Stock #VE9351

If you find a mistake in this catalog, please consider that it is put there on purpose. We publish something for everyone, including those who are always looking for mistakes.