



INNOVATION INSIDE.

Thank you for your interest in Schrader products. Enclosed is our industrial products catalog featuring SchraderAir air compressors, Schrader Coupler & Plugs, Valve Cores, Tank Valves including NSF61 certified low lead for use in potable water systems, tire hardware, high pressure valves and connectors.

Our SchraderAir air compressors range from 2 to 30 HP and are built in Altavista, Virginia, US. Schrader Air product sell sheets are contained within this catalog and provide the specifications you'll need to know to select the correct air compressor. Documents detailing pumps and replacement parts are also included. Call our technical service professionals at 1.800.288.1804 x1578 for application information and availability.

Schrader's extensive coupler & plug line features over 100 SKUs manufactured in our Altavista, Virginia facility. Our coupler & plug merchandiser rack features 21 of our most popular coupler & plug carded products on a rack which occupies just 2.5 cubic feet of space with an average 67% gross profit margin (from sale of parts). Our counter top display occupies just one square foot of space and can contain up to 24 carded Coupler & Plug products.

Schrader has served as an OE & Industrial markets supplier since 1844 when August Schrader designed and produced valves for the Goodyear brothers for use in US Navy life jackets. Our long history of innovative products include the pneumatic tire valve, first used on Dunlop bicycle tires and now the basis for all tire valves employed for use with conventional tires.



205 Frazier Road, Altavista, VA 24517 ▶ 800.288.1804 x8817 ▶ SchraderInternational.com

Table of Contents

SchraderAir Air Compressors	Section 1
SchraderAir Sell Sheets	
SchraderAir Part Number Cross reference	
SchraderAir Time Allowance for parts exchanged	
SchraderAir Warranty Policy	
SchraderAir Authorized Service Center - Compressor Checklist	
SchraderAir Industrial Pump - Competitive Advantages	
SchraderAir Training Manual & Field Guide	
Couplers & Plugs	Section 2
Coupler & Plug Catalog/Brochure	
Coupler & Plug Interchange (Cross reference)	
Coupler & Plug Rack Sell Sheet	
Valve Cores	Section 3
Valve Core Brochure	
Tank Valves	Section 4
Tank Valve Brochure	
Tank Valve Assortment Kit	
Tank Valve Rack Sell Sheet	
No-Lead Tank Valve Sell Sheet	
Valve Cap Sell Sheet	
High Pressure Valves & Connectors	Section 5
High Pressure Valves & Connectors Brochure	
Tire Valves and Extensions	Section 6
Clamp-in Tire Valves	
Snap-in Tubeless Tire Valves	
Valve Extensions	

Contact Information

Schrader Air Compressors

Technical Support

Bill Thompson: 434.369.8304
bthompson@schraderintl.com

Tom Kirkham: 434.369.8868
tkirkham@schraderintl.com

Schrader Air Compressors

Customer Service

Dale Lilly: 434.369.8869
dlilly@schraderintl.com

Kim Betterton: 434.369.8867
kbetterton@schraderintl.com

Coupler & Plug, Tank Valves and High Pressure Valves & Connectors

Customer Service

Melissa Daniels: 434.369.8817
mdaniels@schraderintl.com

Valve Cores

Customer Service

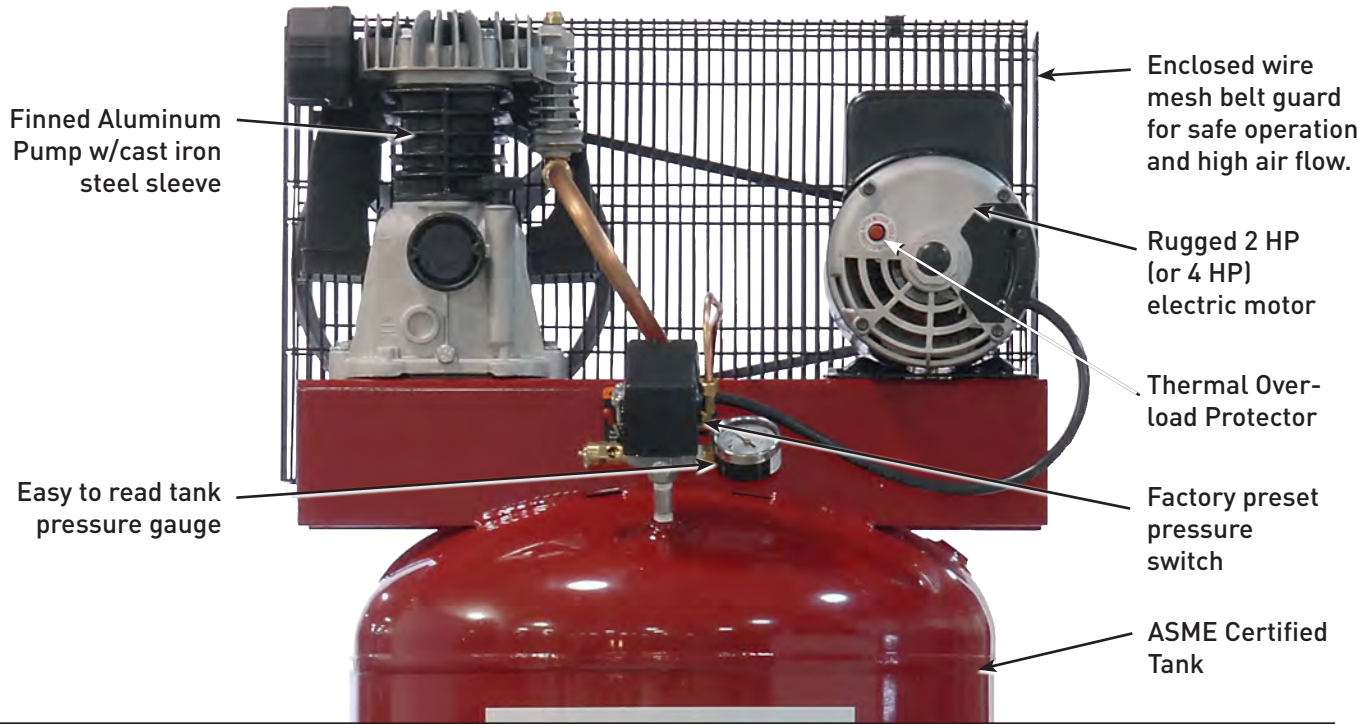
Jennifer Miller: 434.369.8301
jmiller@schraderintl.com

The SchraderAir Prosumer compressor is our entry level, high-end consumer line.



The SchraderAir Prosumer line offers advanced design and performance features. The Prosumer line is ideal for personal, hobby shop, weekend mechanic and home use.

- ▶ Cast iron cylinders with all components precision CNC machined
- ▶ Large stainless steel valves offer less flow restriction giving greater volumetric efficiency, cooler running temperatures, and longer valve life
- ▶ Iron crankshaft, counter balanced for smooth running and longer bearing life
- ▶ Large offset on flywheel blades creates exceptional airflow characteristics
- ▶ Low-noise single stage pumps feature high profile fin design on cylinders to improve heat dissipation
- ▶ Preset pressure switch with on/off switch
- ▶ Manual drain valve
- ▶ ASME Certified Storage Tank.
- ▶ (1) year limited warranty (90 day warranty for commercial applications)
- ▶ Assembled in USA



Specifications

Model #	Motor					Pump					Tank		Dimensions	
	HP	Volt	Phase	FLA	Breaker Size	Cyl.	RPM	Max PSI	CFM	SCFM @90psi	Tank Config.	Gal-lons	L x W x H (inches)	Ship. Wt (lbs)
SA1520	2	115*	1	15	20	2	882	125	12.9	7.1	H	20	37 x 19 x 30	204
SA1526	2	115*	1	15	20	2	882	125	12.9	7.1	V	26	25 x 26 x 51	232
SA1560	2	115*	1	15	20	2	882	125	12.9	7.1	V	60	30 x 22 x 68	286
SA1760	4	230	1	17.5	30	2	1346	125	12.9	10	V	60	30 x 22 x 68	294

* Can be wired for 115 or 230 volts.

Note: All Consumer Grade Air Compressors carry a 90-day warranty when used in commercial applications.

Parts & Accessories

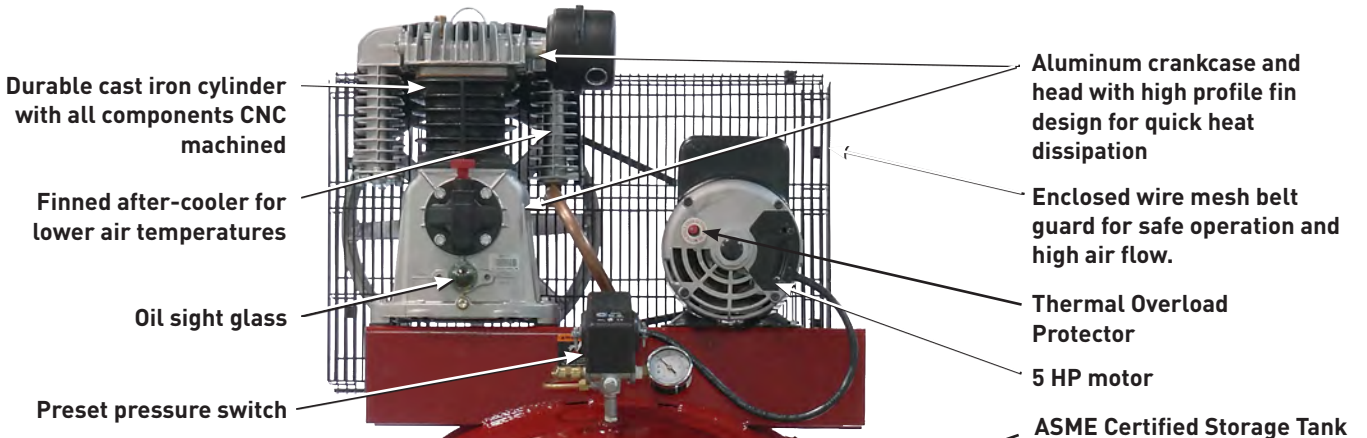
Model #	Auto Tank Drain	Vibration Pads	Drive Belt	Oil	Pressure Switch	Pressure Gauge	General Purpose Filter
SA1520	30787	N/A	289101	826020** (0.52 qt.)	283662	283495	SA317001000
SA1526	30787	N/A	289101	826020** (0.52 qt.)	283662	283495	SA317001000
SA1560	30787	824679	289101	826020** (0.52 qt.)	283662	283495	SA317001000
SA1760	30787	824679	289101	826020** (0.52 qt.)	283662	283495	SA317001000

**Sold in 1 quart bottles

Specifications subject to change without notice. Units may not be exactly as pictured.



5 HP 2-Stage, 165 PSI Prosumer Performance Light, Medium Duty Air Compressor



The perfect compressor for the weekend mechanic, high end hobby shop, farms or ranches.

- ▶ Finned intercooler and after-cooler provides low operating temperature and higher efficiency
- ▶ Cast iron cylinder provides maximum pump life
- ▶ Enclosed belt guard for safe operation and high air flow
- ▶ Oil sight glass
- ▶ Splash lubrication - simple, reliable, easy to maintain
- ▶ Easy-to-read tank gauge 0-300 PSI
- ▶ Factory preset pressure control switch, on at 135 PSI, off at 165 PSI
- ▶ Precision tank safety relief valve
- ▶ Manual drain standard, Automatic drain (30787) available
- ▶ 1-year limited parts and labor warranty
- ▶ Assembled in USA



SA2560VL

5 HP 2-Stage, 165 PSI Prosumer Performance Light, Medium Duty Air Compressor



SA2560VL

Specifications

Model #	Motor					Pump					Tank	Dimensions	
	HP	Volt.	Phase	FLA	Recommended Breaker Size	Cyl.	RPM	Max PSI	CFM	SCFM @165 PSI	Size (Gallons)	L x W x H (inches)	Ship Wt. (lbs)
SA2560VL	5	208/230	1	23	30	2	1290	165	15.2	12	60	30 x 22 x 68	300

Parts & Accessories

Model #	Auto Electric Tank Drain	Vibration Pads	Drive Belt	Oil (capacity)	Air Filter	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°
SA2560VL	30787	824679	82817	826020**(0.75 qt.)	82288609	82780	283495	SRD0025H

**Sold in 1 quart bottles

Specifications subject to change without notice. Units may not be exactly as pictured.



5 HP and 7½ HP, 175 PSI 2-Stage Medium-Duty Performance Series Air Compressors



Designed for small-to-medium sized commercial shops, body shops, service centers.

- ▶ Thermally protected Baldor motor with magnetic starter on 7½ HP model (magnetic starter not required on 5 HP models)
- ▶ 5 HP available with 60 or 80 Gallon ASME tank
- ▶ 7½ HP available with 80 Gallon ASME tank
- ▶ Manual tank drain standard, Automatic drain (30787) available
- ▶ Finned intercooler and after-cooler provide low operating temperature and higher operating efficiency
- ▶ Cast iron cylinder provides maximum life, minimum wear

- ▶ Enclosed belt guard for safe operation and more efficient air flow
- ▶ Equipped with oil sight gauge
- ▶ Features splash lubrication - simple, reliable, easy to maintain
- ▶ Easy-to-read tank gauge 0-300 PSI
- ▶ Inlet filter/silencer provides lower sound levels and longer maintenance intervals
- ▶ Factory preset pressure switch, on at 145, off at 175 PSI
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ Precision tank safety relief valve
- ▶ One-year limited warranty

SA2560V

Solid steel base with bolt-down claw feet

5 HP and 7½ HP 175 PSI 2-Stage Medium-Duty Performance Series Air Compressors



SA2560V



SA27580V

Specifications

Model #	Motor						Pump				Tank		Dimensions	
	HP	Volt.	Phase	Amp Draw	Breaker Size	Wire Size*	Cyl.	RPM	CFM	SCFM @175 PSI	Size (Gallons)	Config.	L x W x H (inches)	Ship Wt. (lbs)
SA2560V	5	230	1	19.6	30A	10	2	1300	19.5	13.5	60	V	35 x 20 x 71	340
SA2580V	5	230	1	19.6	30A	10	2	1300	19.5	13.5	80	V	37 x 24 x 73	435
SA27580V	7.5	230	1	32	50A	10	2	1065	24.5	17	80	V	37 x 24 x 73	515

*Minimum wire size required if less than 50' from power source breaker box.

Parts & Accessories

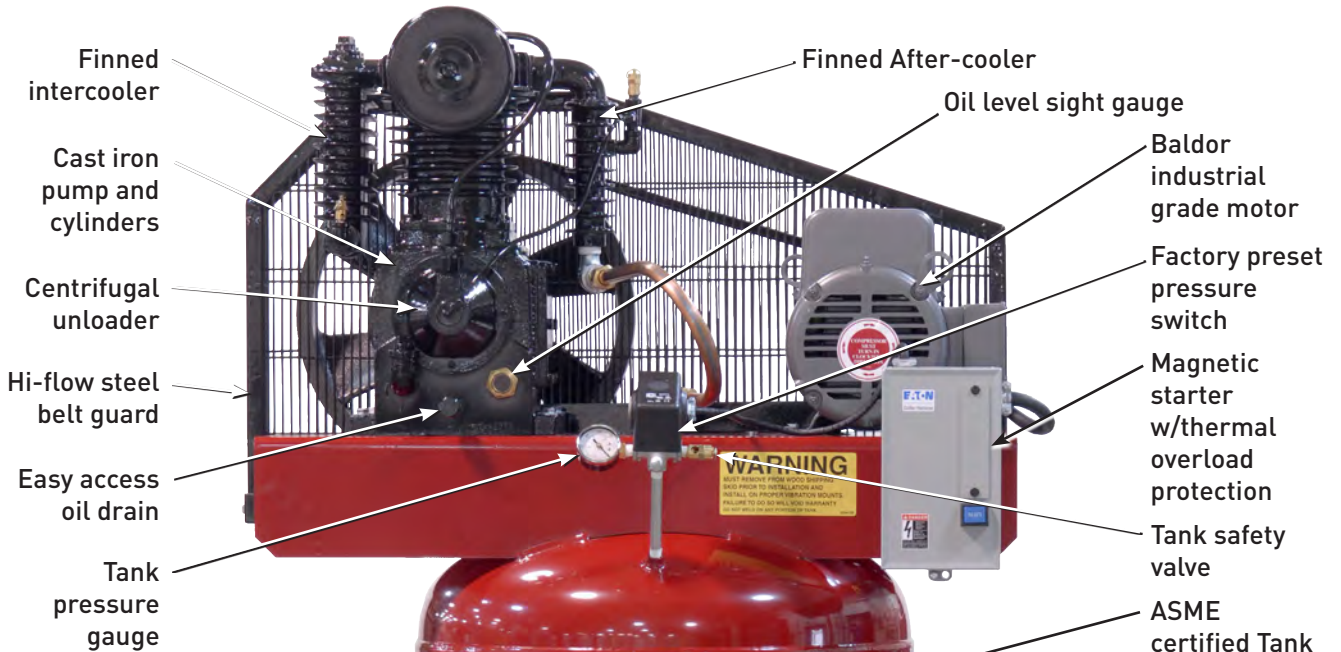
Model #	Auto Electric Tank Drain	Install Kit	Vibration Pads	Drive Belt (1)	Oil [capacity]	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
SA2560V	30787	824678	824679	829003	826020**(1.1 qt.)	82779	283495	SRD0025H	SRD0220H
SA2580V	30787	824678	824679	829003	826020**(1.1 qt.)	82779	283495	SRD0025H	SRD0220H
SA27580V	30787	824678	824679	829018	826020**(1.7 qt.)	82779	283495	SRD0025H	SRD0220H

**Oil sold in 1 quart bottles.

Specifications subject to change without notice. Units may not be exactly as pictured.



5 HP, 2-Stage 175 PSI Professional Series Air Compressor



For most auto repair, tire and body shops, dry cleaning, production operations, automated machinery, etc.

- ▶ True 5 HP cast iron industrial/commercial compressor with low 800 rpm pump provides maximum life, minimum wear
- ▶ High-efficiency disc and spring valves
- ▶ Centrifugal un-loader - increases motor life by allowing the compressor to start unloaded every time
- ▶ Finned intercooler and after-cooler provide low operating temperature and higher operating efficiency
- ▶ Features splash lubrication - simple, reliable, easy to maintain
- ▶ Available in 80 and 120 gallon horizontal and vertical ASME tank arrangements
- ▶ Energy efficient, EISA compliant*, Baldor industrial electric motor

- ▶ Factory installed magnetic starter provides thermal overload protection to motor
- ▶ Manual tank drain standard, Automatic drain available
- ▶ Enclosed belt guard for safe operation, more efficient air flow
- ▶ Easy-to-read oil sight gauge
- ▶ Easy-to-read tank pressure gauge
- ▶ Inlet filter/silencer provides lower sound levels and longer maintenance intervals
- ▶ Factory preset pressure switch, on at 145, off at 175 PSI
- ▶ Precision tank safety relief valve
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

* 3 phase motors

SA3580V1

Solid steel base with bolt-down claw feet

5 HP, 2-Stage 175 PSI Professional Series Air Compressor



SA35120H3

SA3580V1

Specifications

Model #	Motor						Pump				Tank		Dimensions	
	HP	Volt	Phase	FLA	Breaker Size	Wire Size*	Cyl	RPM	CFM	SCFM @175psi	Config.	Gal.	L x W x H (inches)	Shipping Weight (lbs)
SA3580H1	5	230	1	23	60	8	2	800	21.7	16	H	80	63 x 24 x 47.5	580
SA35120H1	5	230	1	23	60	8	2	800	21.7	16	H	120	71 x 24 x 51	700
SA3580H3	5	208/230	3	13.8	30	10	2	800	21.7	16	H	80	63 x 24 x 47.5	580
SA35120H3	5	208/230	3	13.8	30	10	2	800	21.7	16	H	120	71 x 24 x 51	700
SA3580H3460	5	460	3	6.9	15	14	2	800	21.7	16	H	80	63 x 24 x 47.5	580
SA35120H3460	5	460	3	6.9	15	14	2	800	21.7	16	H	120	71 x 24 x 51	700

SA3580V1	5	230	1	23	60	8	2	800	21.7	16	V	80	40 x 24 x 73	580
SA3580V1208	5	208	1	23	60	8	2	800	21.7	16	V	80	40 x 24 x 73	580
SA3580V3	5	208/230	3	13.8	30	10	2	800	21.7	16	V	80	40 x 24 x 73	580
SA3580V3460	5	460	3	6.9	15	14	2	800	21.7	16	V	80	40 x 24 x 73	580

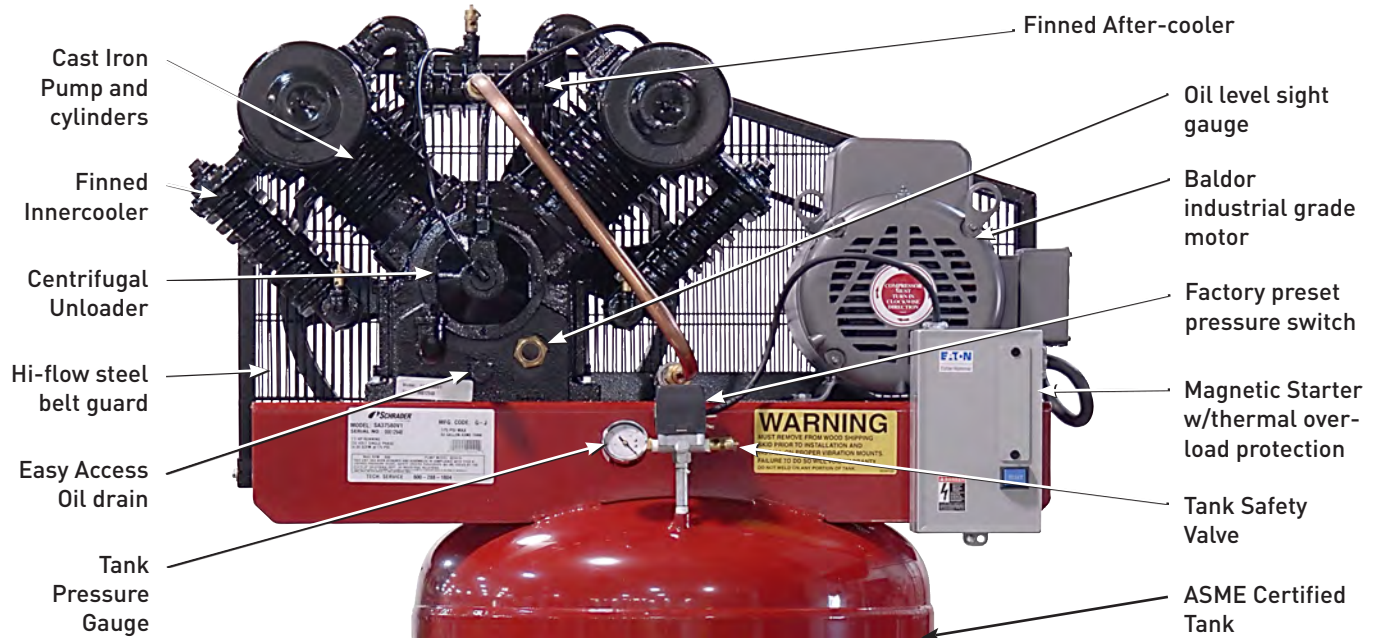
*Wire size if under 50 feet

Parts & Accessories

Model #	Auto Tank Drain	Install Kit	Vibration Pads	Drive Belt (uses 2)	Maintenance Kit	Air Filter Element	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
All above	30787	824678	824679	82890	826040	822580	82779	283495(V) 283494(H)	SRD0025H	SRD0250H

Specifications subject to change without notice. Units may not be exactly as pictured.

7½ HP and 10 HP, Two-Stage 175 PSI Professional Series Air Compressor



Designed for medium to large sized commercial shops, auto body shops, service centers, auto repair centers, tire shops, and industrial manufacturing applications.

- ▶ Super Low 600 rpm, 4-cylinder cast iron pump provides maximum life, minimum wear
- ▶ Centrifugal unloader - increases motor life by allowing the compressor to start unloaded every time
- ▶ Finned intercooler and after-cooler provide low operating temperature and higher operating efficiency
- ▶ Cast iron cylinder provides maximum life, minimum wear
- ▶ Easy to read oil sight glass
- ▶ Features splash lubrication - simple, reliable, easy to maintain

- ▶ Energy efficient, EISA compliant*, Baldor industrial electric motor
- ▶ Factory installed magnetic starter provides thermal overload protection to motor
- ▶ 80 and 120 gallon vertical or horizontal ASME tanks
- ▶ Easy-to-read tank pressure gauge
- ▶ Manual tank drain standard, optional automatic drain available
- ▶ Factory preset pressure switch, on at 145, off at 175 PSI
- ▶ Enclosed belt guard for safe operation and efficient air flow
- ▶ Inlet filter/silencer provides lower sound levels and extended maintenance intervals
- ▶ Precision tank safety relief valve
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

SA37580V1

* 3 phase motors

Solid steel base with bolt down claw feet.

7½ HP and 10 HP Two-Stage, 175 PSI Professional Series Air Compressor



Specifications

Model #	Motor						Pump				Tank		Dimensions	
	HP	Voltage	Phase	FLA	Breaker Size	Wire Size*	Cyl	RPM	CFM	SCFM @175psi	Gal.	Config.	L x W x H (inches)	Shipping Weight (lbs)
SA37580H1208	7.5	208	1	35.5	80	6	4	600	32.6	24	80	H	71 x 24 x 51	720
SA37580H1	7.5	230	1	31	80	6	4	600	32.6	24	80	H	71 x 24 x 51	720
SA37580H3	7.5	208/230	3	21.7	45	10	4	600	32.6	24	80	H	71 x 24 x 51	720
SA37580H3460	7.5	460	3	10	20	14	4	600	32.6	24	80	H	71 x 24 x 51	720
SA375120H1208	7.5	208	1	35.5	80	6	4	600	32.6	24	120	H	71 x 24 x 50	790
SA375120H1	7.5	230	1	31	80	6	4	600	32.6	24	120	H	71 x 24 x 50	790
SA375120H3	7.5	208/230	3	21.7	45	10	4	600	32.6	24	120	H	71 x 24 x 50	790
SA375120H3460	7.5	460	3	10	20	14	4	600	32.6	24	120	H	71 x 24 x 50	790
SA31080H3	10	208/230	3	29	50	8	4	800	43.5	32	80	H	71 x 24 x 51	790
SA31080H3460	10	460	3	13.4	25	14	4	800	43.5	32	80	H	71 x 24 x 51	790
SA310120H3	10	208/230	3	29	60	8	4	800	43.5	32	120	H	71 x 24 x 51	830
SA310120H3460	10	460	3	13.4	25	14	4	800	43.5	32	120	H	71 x 24 x 51	830
SA37580V1208	7.5	208	1	35.5	80	6	4	600	32.6	24	80	V	41 x 24 x 73	720
SA37580V1	7.5	230	1	31	80	6	4	600	32.6	24	80	V	41 x 24 x 73	720
SA37580V3	7.5	208/230	3	21.7	45	10	4	600	32.6	24	80	V	41 x 24 x 73	720
SA37580V3460	7.5	460	3	10	20	14	4	600	32.6	24	80	V	41 x 24 x 73	720
SA31080V3	10	208/230	3	29	60	8	4	800	43.5	32	80	V	40 x 24 x 73	790
SA31080V3460	10	460	3	13.4	25	14	4	800	43.5	32	80	V	40 x 24 x 73	790
SA310120V3	10	208/230	3	29	60	8	4	800	43.5	32	120	V	40 x 24 x 73	890
SA310120V3460	10	460	3	13.4	25	14	4	800	43.5	32	120	V	40 x 24 x 73	890

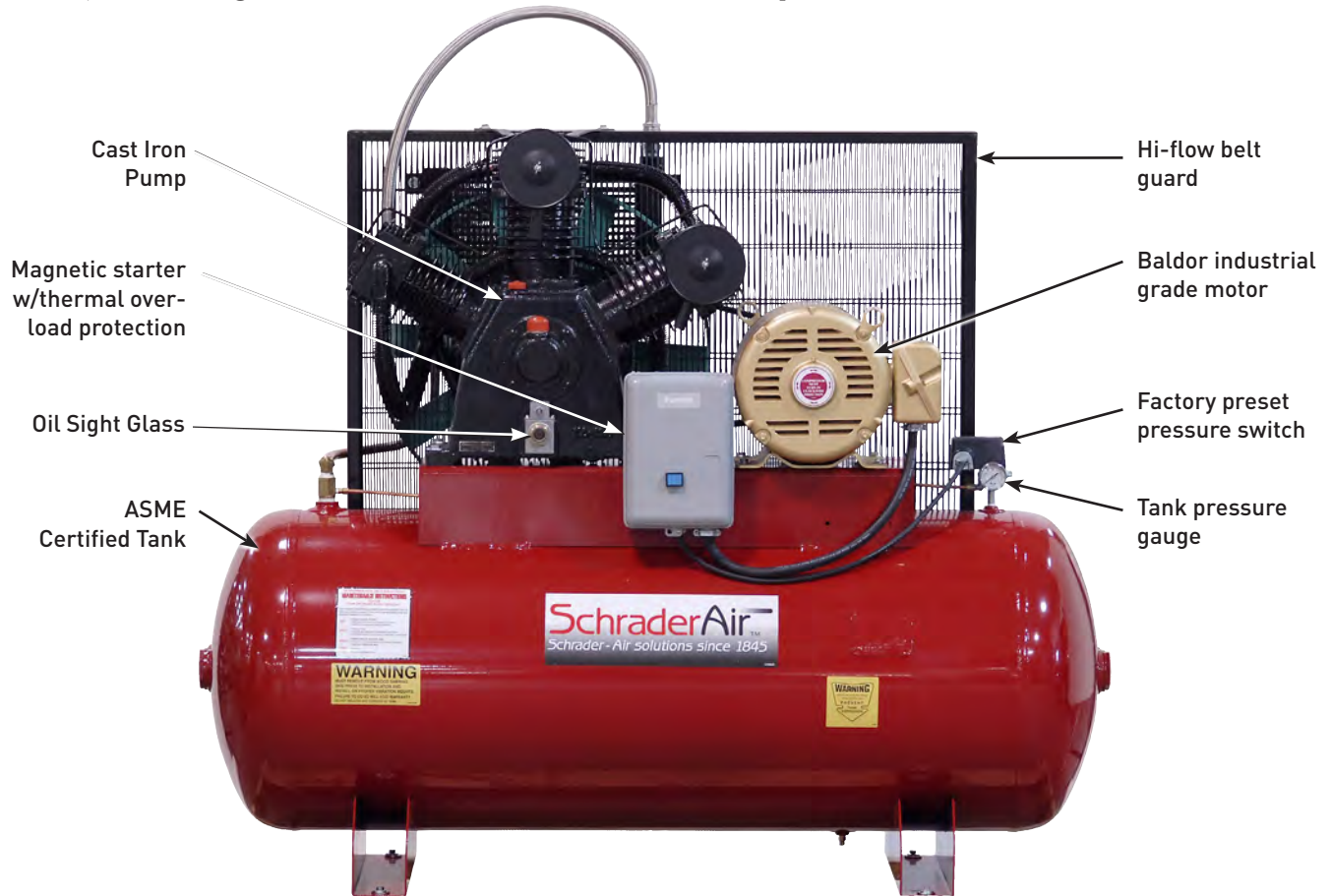
*Minimum gauge when motor is within 50' of power source breaker box.

Parts & Accessories

Model #	Auto Electric Tank Drain	Install Kit	Vibration Pads	Drive Belt (uses 2)	Maintenance Kit	Air Filter Element (uses 2)	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
7.5 HP	30787	824678	824679	82890	826041	822580	82779	283495(V) 283494(H)	SRD0025H	SRD0250H
10 HP	30787	824678	824679	82826	826041	822580	82779	283495(V) 283494(H)	SRD0150H	SRD0250H

Specifications subject to change without notice. Units may not be exactly as pictured.

15 HP, Two-Stage 175 PSI Professional Series Compressors



SA315120H3

Ideally suited for tire dealers, large volume body shops, large auto repair facilities and commercial dry cleaners.

This 2-Stage, high pressure, large capacity unit represents the next generation of industrial air compressors. The redesigned unit includes a solid cast iron, low RPM, 2-stage pump, high volume cooling fan and hi-flow belt guard as well as an aluminum air cooled after-cooler.

- ▶ Low speed, 900 RPM 3-cylinder cast iron pump provides maximum life, minimum wear
- ▶ 53.4 cfm displacement@175 PSI
- ▶ 145 - 175 PSI operating pressure
- ▶ Disc valves
- ▶ Super efficient aluminum air cooled after cooler lowers the discharge temperature to within 20 degrees of ambient, extending check valve life
- ▶ Oil sight glass
- ▶ Easy start head unloader
- ▶ Energy efficient, EISA compliant*, Baldor industrial electric motor
- ▶ Factory installed magnetic starter provides thermal overload protection to motor
- ▶ ASME certified tank
- ▶ Precision tank safety relief valve
- ▶ Three industrial drive belts for maximum efficiency
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

* 3 phase motors

15 HP, Two-Stage, 175 PSI Professional Series Compressors



SA315120H3

Specifications

Model #	Motor						Pump				Tank		Dimensions	
	HP	Voltage	Phase	FLA	Breaker Size	Wire Size*	Cyl.	RPM	CFM	SCFM @175 PSI	Gal.	Config.	L x W x H (inches)	Ship Wt. (lbs)
SA315120H3	15	208/230	3	41	80	6	3	900	60	53.4	120	H	71 x 25 x 58	900
SA315120H346	15	460	3	21	40	10	3	900	60	53.4	120	H	71 x 25 x 58	900
SA315240H3	15	208/230	3	41	80	6	3	900	60	53.4	240	H	85 x 46 x 72	1050
SA315240H346	15	460	3	21	40	10	3	900	60	53.4	240	H	85 x 46 x 72	1050

*Wire size if under 50 feet

Parts & Accessories

Model #	Auto Electric Tank Drain	Install Kit	Vibration Pads	Drive Belt (uses 3)	Air Filter Element	Oil (capacity, qts.)	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
All above	30787	824678	824679	82894	822580	826020**(6)	82779	283494	SRD0150H	SRD0250H

**Oil sold in 1 quart bottles

Specifications subject to change without notice. Units may not be exactly as pictured.

20 HP, 25 HP and 30 HP 2-Stage, 175 PSI Professional Series Compressors



Our large HP, heavy duty compressors are designed for industrial applications, large automotive shops, large body shop operations, and commercial manufacturing operations.

- ▶ Low speed, rugged twin-stack 4-cylinder cast iron pump provides maximum life, minimum wear
- ▶ Continuous run operation to prevent moisture contamination and provide "air on demand"
- ▶ Finned intercoolers to reduce head temperature for cooler operation and longer life
- ▶ Reliable splash lubrication system
- ▶ Large 6.5 quart crankcase oil reservoir
- ▶ Aluminum air cooled after cooler lowers the discharge temperature to within 20 degrees of ambient, extending check valve life
- ▶ 145 - 175 PSI operating pressure
- ▶ Continuous run head unloader
- ▶ Centrifugal unloader for easy starts
- ▶ Disc and spring valves for ease of service
- ▶ Easy to read oil sight glass
- ▶ Energy-efficient, EISA Baldor industrial motor
- ▶ Factory installed magnetic starter provides thermal overload protection to the motor
- ▶ ASME certified tank
- ▶ Precision tank safety relief valve
- ▶ Four drive belts for maximum efficiency
- ▶ Dual control operation - continuous run mode or stop and start mode depending on needs
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

20 HP, 25 HP and 30 HP 2-Stage, 175 PSI Professional Series Compressors



SA320120H3

Specifications

Model #	Motor						Pump			Tank		Dimensions	
	HP	Voltage	Phase	FLA	Breaker Size	Wire Size*	Cyl.	RPM	SCFM @175 PSI	Gal	Con-fig.	L x W x H (inches)	Ship Wt. (lbs)
SA320120H3	20	208/230	3	51	120	4	4	525	81	120	H	70 x 38 x 60	1250
SA320120H346	20	460	3	24	60	10	4	525	81	120	H	70 x 38 x 60	1250
SA320240H3	20	208/230	3	51	120	4	4	525	81	240	H	85 x 46 x 72	1450
SA320240H346	20	460	3	24	60	10	4	525	81	240	H	85 x 46 x 72	1450
SA325120H3	25	208/230	3	66	150	3	4	690	96	120	H	70 x 38 x 60	1300
SA325120H346	25	460	3	31	75	8	4	690	96	120	H	70 x 38 x 60	1300
SA325240H3	25	208/230	3	66	150	3	4	690	96	240	H	85 x 46 x 72	1550
SA325240H346	25	460	3	31	75	8	4	690	96	240	H	85 x 46 x 72	1550
SA330120H3	30	208/230	3	84	180	2	4	750	102	120	H	70 x 38 x 60	1350
SA330120H346	30	460	3	36	90	8	4	750	102	120	H	70 x 38 x 60	1350
SA330240H3	30	208/230	3	84	180	2	4	750	102	240	H	85 x 46 x 72	1850
SA330240H346	30	460	3	36	90	8	4	750	102	240	H	85 x 46 x 72	1850

*Wire size if under 50 feet

Parts & Accessories

Model #	Auto Tank Drain	Install Kit	Vibration Pads	Drive Belt (uses 4)	Air Filter Element	Oil (capacity, qts.)	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
20 HP	30787	824678	824679	B99	822590	826020**(6.5)	82779	283494	SRD0175H	SRD0275H
25 HP	30787	824678	824679	B99	822590	826020**(6.5)	82779	283494	SRD01100H	SRD01100H
30 HP	30787	824678	824679	B102	822590	826020**(6.5)	82779	283494	SRD01100H	SRD01100H

**Oil sold in 1 quart bottles

Specifications subject to change without notice. Units may not be exactly as pictured.



5 HP, 7½ HP and 10 HP 2-Stage, 175 PSI Duplex Professional Series Air Compressors



SA451201

Duplex design provides high CFM with single phase power (5 and 7½ HP)

- ▶ Dual pump configuration for more efficient cooling and longer compressor life
- ▶ Heavy duty inlet filter silencer provides lower sound levels
- ▶ Finned intercooler cools air delivery into second stage providing greater compression and efficiency
- ▶ Centrifugal unloader - increases motor life by allowing the compressor to start unloaded every time
- ▶ Finned after-cooler provides lower exhaust temperatures for maximum check valve life
- ▶ Heavy duty cast iron pumps. Low RPM reduces valve cycles, ring and bearing wear to prolong life of unit
- ▶ Reliable splash lubrication
- ▶ Energy efficient EISA compliant* Baldor industrial electric motor

- ▶ Enclosed industrial belt guard (steel) for safe operation
- ▶ Easy to read tank gauge
- ▶ ASME certified tank
- ▶ Manual drain valve standard, automatic drain available
- ▶ Easy to read oil sight glass
- ▶ Factory installed magnetic starter provides thermal overload protection to the motor
- ▶ Duplexing controller manages air demand by alternating equally between both sets of pumps and motors
- ▶ Factory preset pressure switch on at 145 PSI, off at 175 PSI
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

* 3 phase motors

5 HP, 7½ HP and 10 HP 2-Stage, 175 PSI Duplex Professional Series Air Compressors



SA4751201

Specifications

Model #	Motor						Pump				Tank		Dimensions	
	HP	Voltage	Phase	FLA	Breaker Size	Wire Size*	Cyl.	RPM	CFM	SCFM @175psi	Gal.	Config.	L x W x H (inches)	Ship Wt. (lbs)
SA451201208	(2) 5.0	208	1	24	60	8	2	800	43.6	32.2	120	H	79 x 27 x 54	1051
SA451201	(2) 5.0	230	1	23	60	8	2	800	43.6	32.2	120	H	79 x 27 x 54	1051
SA451203	(2) 5.0	208/230	3	14	30	10	2	800	43.6	32.2	120	H	79 x 27 x 54	1051
SA451203460	(2) 5.0	460	3	7	15	14	2	800	43.6	32.2	120	H	79 x 27 x 54	1051
SA4751201208	(2) 7.5	208	1	36	80	6	4	600	65.3	48	120	H	81 x 27 x 52	1388
SA4751201	(2) 7.5	230	1	31	80	6	4	600	65.3	48	120	H	81 x 27 x 52	1388
SA4751203	(2) 7.5	208/230	3	20	45	10	4	600	65.3	48	120	H	81 x 27 x 52	1388
SA4751203460	(2) 7.5	460	3	10	20	14	4	600	65.3	48	120	H	81 x 27 x 52	1388
SA4101203	(2) 10	208/230	3	27	60	8	4	800	87.1	64	120	H	81 x 27 x 52	1395
SA4101203460	(2) 10	460	3	13	25	14	4	800	87.1	64	120	H	81 x 27 x 52	1395
SA4102003	(2) 10	208/230	3	27	60	8	4	800	87.1	64	200	H	81 x 30 x 37	1535
SA4102003460	(2) 10	460	3	13	25	14	4	800	87.1	64	200	H	81 x 30 x 37	1535

*Minimum gauge when motor is within 50' of power source breaker box
At installation, unit requires a dedicated power line and breaker for each motor

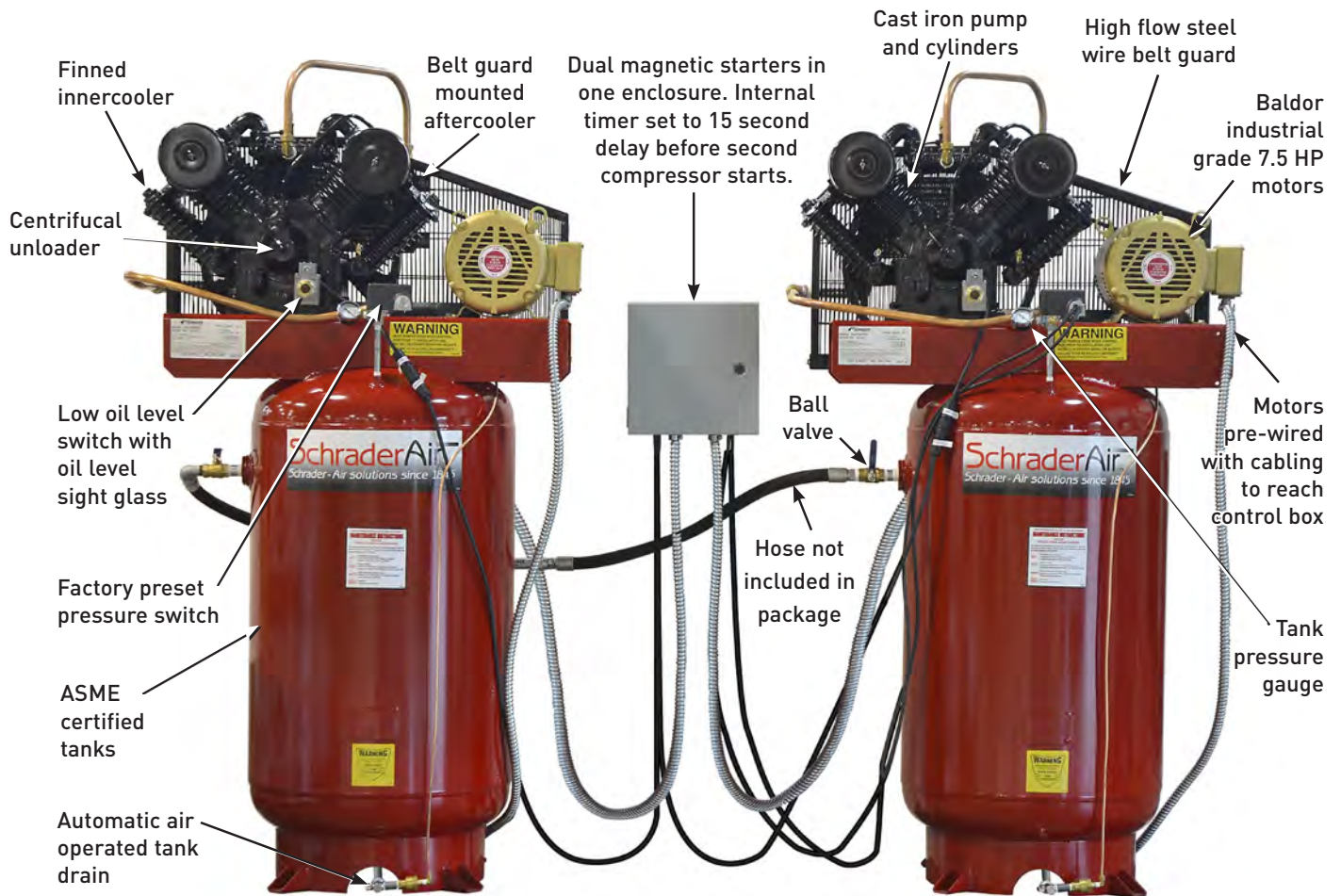
Parts & Accessories

Model #	Auto Tank Drain	Install Kit	Vibration Pads	Drive Belt (uses 2)	Maintenance Kit	Pressure Switch	Pressure Gauge	Refrigerated Air Dryer 140°	Refrigerated Air Dryer 250°
5 HP	30787	824678	824679	82890	826040 (2)	82779	283495	SRD0150H	SRD0250H
7.5 HP	30787	824678	824679	82890	826041 (2)	82779	283495	SRD0150H	SRD0250H
10 HP	30787	824678	824679	82826	826041 (2)	82779	283495	SRD0175H	SRD0275H

Specifications subject to change without notice. Units may not be exactly as pictured.



Dual 7.5 HP 2-Stage, 175 PSI Professional Series Air Compressor Package



Dual Compressor Package consists of 2 each SA37580V3D 7.5 HP 80 Gallon Tank Air Compressors, 1 each 82289721 Single Stage Control Box with timer / dual magnetic starter

- ▶ Dual Compressor package for high CFM output
- ▶ The System is designed with a single control box with dual magnetic starters with a 15 second delay timer between primary compressor start and secondary compressor start
- ▶ Super low 600 RPM, 4-cylinder pumps provide maximum life, minimum wear
- ▶ Centrifugal unloaders – increases compressor life by allowing the compressors to start unloaded every cycle
- ▶ High flow belt-guard mounted aftercooler on each unit – introduces cooler air into the tank reducing check valve wear
- ▶ Cast iron cylinder provides maximum life, minimum wear
- ▶ Easy to read oil sight glasses
- ▶ Automatic air operated tank drains
- ▶ Factory installed low-oil switches – will not allow the compressor to operate when the pump is in a low-oil condition, extending pump life
- ▶ Pumps feature splash lubrication – simple, reliable, easy to maintain
- ▶ Pumps include Synthetic lubricant
- ▶ Maintenance kits included for each compressor (Synthetic Lubricant and Air filters)
- ▶ Vibration Isolation Kits included for each compressor (bushings and rubber pads)
- ▶ Energy efficient, 3 phase EISA compliant Baldor industrial electric motors
- ▶ Easy to read tank gauges
- ▶ Single pressure switch controls both units (both units must be plumbed and open to the air system)
- ▶ Factory pre-set pressure switch
- ▶ Precision tank safety relief valves
- ▶ One year limited warranty

Dual 7.5 HP 2-Stage, 175 PSI Professional Series Air Compressor Package



Model		Motor						Pump				Tank		Dimensions	
		HP	Voltage	Phase	FLA	Breaker size	Wire size*	Cyl	RPM	CFM	SCFM @ 175 psi	Gal	Config.	L x W x H (inches)	Shipping Wt. (lbs)
Single Unit	SA37580V3D	7.5	208/230	3	21.7	45 [Per unit]	10	4	600	32.6	24	80	Vertical	41 x 24 x 73	720
2-unit System		15			43.4						48				1654

*Minimum gauge when motor is within 50' of power source breaker box

Each dual compressor package includes 2 sets of stationary air compressor mounting pads (w/bushings) and 2 synthetic oil maintenance kits (with intake air filters).



82289715 Synthetic Oil Maintenance Kit



824679 Stationary Air Compressor Mounting Pads

Specifications subject to change without notice. Units may not be exactly as pictured.

Refrigerated Air Dryers

A Refrigerated Air Dryer will pay for itself by extending the life of your tools and equipment by eliminating water vapor from the air line. Dryer installation is important to all shop air systems but absolutely critical for paint and body shops where a quality paint finish is demanded. Refrigerated Air Dryers remove moisture and contaminants from compressed air by chilling the air to a temperature that causes the moisture in the air to condense and form droplets. These droplets can be separated from the air stream and discharged from the dryer. The cold air is then reheated by means of a heat exchanger which increases cfm volume before leaving the dryer. This type of dryer uses a refrigeration system, heat exchanger, separator, and drain to perform the drying operation. The absolute driest compressed air for your shop. SchraderAir offers Refrigerated Air Dryers to cover a variety of refrigerated dryer requirements.

Ozone-safe, 100% Chlorine Free, R134a Refrigerant as Standard:

SchraderAir Refrigerated Air Dryers use R134a refrigerant in all refrigerated compressed air dryers. R134a has become the industry's choice as the preferred refrigerant because of its ozone depletion factor of 0.0 and low global warming potential. R134a is a one-blend refrigerant and, therefore, consistent in performance (no temperature fluctuation) and ease of service (no mixture of different refrigerants).

Refrigerated Compressed Air Dryers

- ▶ Allows inlet temperatures of up to 120°F
- ▶ Multi-stage separator for consistent dew point even at low flows
- ▶ 98%+ separation efficiency throughout the dryers entire range.
- ▶ Refrigerant analyzer gauge
- ▶ Lightweight and compact design
- ▶ Integral precooling and reheating of compressed air for high efficiency and low energy consumption
- ▶ Heavy-duty industrial powder coated cabinet

The Variable Flow line is focused on reliable, constant dew point in all flow conditions. With its excellent heat transfer coefficients and low pressure drop, these dryers provide unparalleled performance for protecting your compressed air system, machinery, tools and working processes.

High Inlet Temperature Refrigerated Compressed Air Dryers

- ▶ Allows inlet temperatures of up to 180°F
- ▶ No air-cooled after cooler required
- ▶ Designed dew point range 50°F and 38°F
- ▶ Compact and efficient design
- ▶ Automatically removes and discharges moisture
- ▶ Heavy-duty industrial powder coated cabinet

Our High Inlet Temperature Refrigerated Air Dryers have been designed specifically for use with smaller air compressors that typically do not incorporate an after cooler.



SchraderAir Refrigerated Compressed Air Dryers carry a 1-year manufacturer's warranty.

Refrigerated Air Dryers



Specifications

Model #	Type	Capacity (SCFM)	Connection (inches NPT)	KW Full Load	Full Load Amps	Voltage/Phase	Breaker Size	H x W x D (inches)	Max Pressure PSI	Ship Wt. (lbs)
SRD0010H	Refrigerated Dryer*	10	3/8	0.20		115/1	15	15 x 13 x 13	250	64
SRD0015H	Refrigerated Dryer*	15	3/8	0.24		115/1	15	15 x 13 x 13	250	69
SRD0025H	Refrigerated Dryer*	25	3/4	0.41		115/1	15	22 x 15 x 15	250	88
SRD0150H	Refrigerated Dryer*	50	3/4	0.57		115/1	15	18 x 22 x 15	250	101
SRD0175H	Refrigerated Dryer*	75	3/4	0.72		115/1	20	20 x 19 x 21	232	110
SRD1100H	Refrigerated Dryer*	100	1	0.74		115/1	30	22 x 24 x 18	232	123
SRD1125H	Refrigerated Dryer*	125	1	0.76		115/1	30	22 x 24 x 18	232	133
SRD1150H	Refrigerated Dryer*	150	1	1.11		115/1	30	22 x 24 x 18	232	153
SRD1200H	Refrigerated Dryer*	200	1 1/2	1.42		208/230/1	30	30 x 36 x 25	232	183
SRD0220H	High Inlet Temp Dryer**	25	1/2	0.73		115/1	20	28 x 10 x 13	250	80
SRD0250H	High Inlet Temp Dryer**	50	3/4	1.37		115/1	30	37 x 17 x 17	250	150
SRD0275H	High Inlet Temp Dryer**	75	3/4	1.37		115/1	30	37 x 17 x 17	250	155
SRD02100H	High Inlet Temp Dryer**	100	3/4	2.11		208/230/1	30	46 x 17 x 17	250	170
SRD02125H	High Inlet Temp Dryer**	125	3/4	2.11		208/230/1	30	46 x 17 x 17	250	175

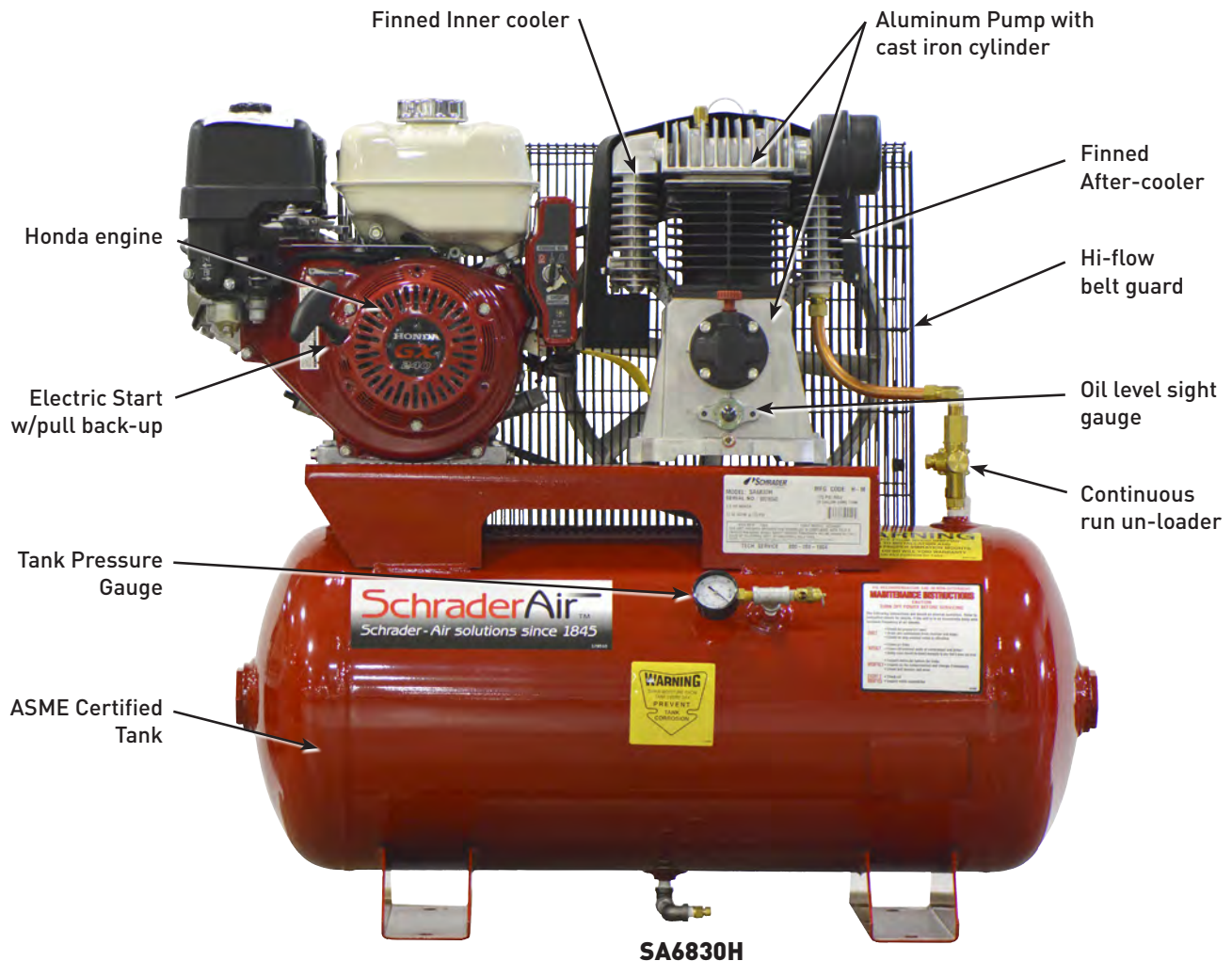
Note: cfm measurement at 100 PSI, 100° F inlet temperature, 100° F maximum ambient air temperature.

*Maximum inlet temperature 120° **Maximum inlet temperature 180°

SchraderAir Refrigerated Compressed Air Dryers carry a 1-year manufacturer's warranty.

Specifications subject to change without notice. Units may not be exactly as pictured.

Honda Gas Powered, 175 PSI Air Compressors for the Service Industry

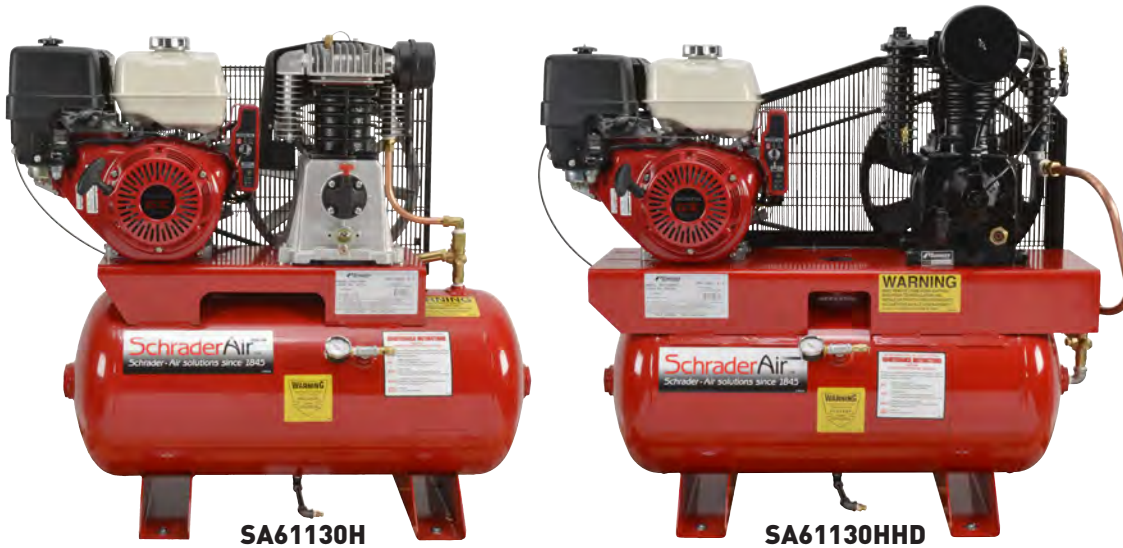


13.5 to 17 SCFM@175 PSI, 2-stage air compressors are well suited for service truck field requirements, tire shops, construction and heavy equipment companies.

SchraderAir's Honda gas powered air compressors are designed for field work where an electrical power source is not available. These medium-duty, 2 stage air compressors are equipped with a 30 gallon ASME code horizontal tank with a manual drain. Pressure preset at 145 PSI (load) and 175 PSI (unload).

- ▶ Features aluminum head and crank-case for fast heat dissipation (8 HP)
- ▶ Cast iron cylinders for long life and durability
- ▶ Finned intercooler and after cooler provide low operating temperatures and high efficiency
- ▶ Splash type lubrication
- ▶ 30 Gallon ASME tank with manual drain
- ▶ Honda electric start engines are equipped with a fuel tank and gas-saving throttle control that meets CARB low emission requirements
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

Honda Gas Powered, 175 PSI Air Compressors for the Service Industry



Specifications

Model #	Engine			Pump					Dimensions	
	HP/CC	Tank (Gal-lons)	Engine/Type	Cyl.	RPM	Max. PSI	CFM	SCFM @175 psi	L x W x H (inches)	Ship Wt. (lbs)
SA6830H	8/240	30	Honda/GX240	2	1300	175	19.5	13.5	40 x 19 x 39	300
SA61130H	11/340	30	Honda/GX340	2	1065	175	24.5	17	40 x 19 x 39	302
SA61130HHD	11/340	30	Honda/GX340	2	800	175	22	16	43 x 18 x 39	430

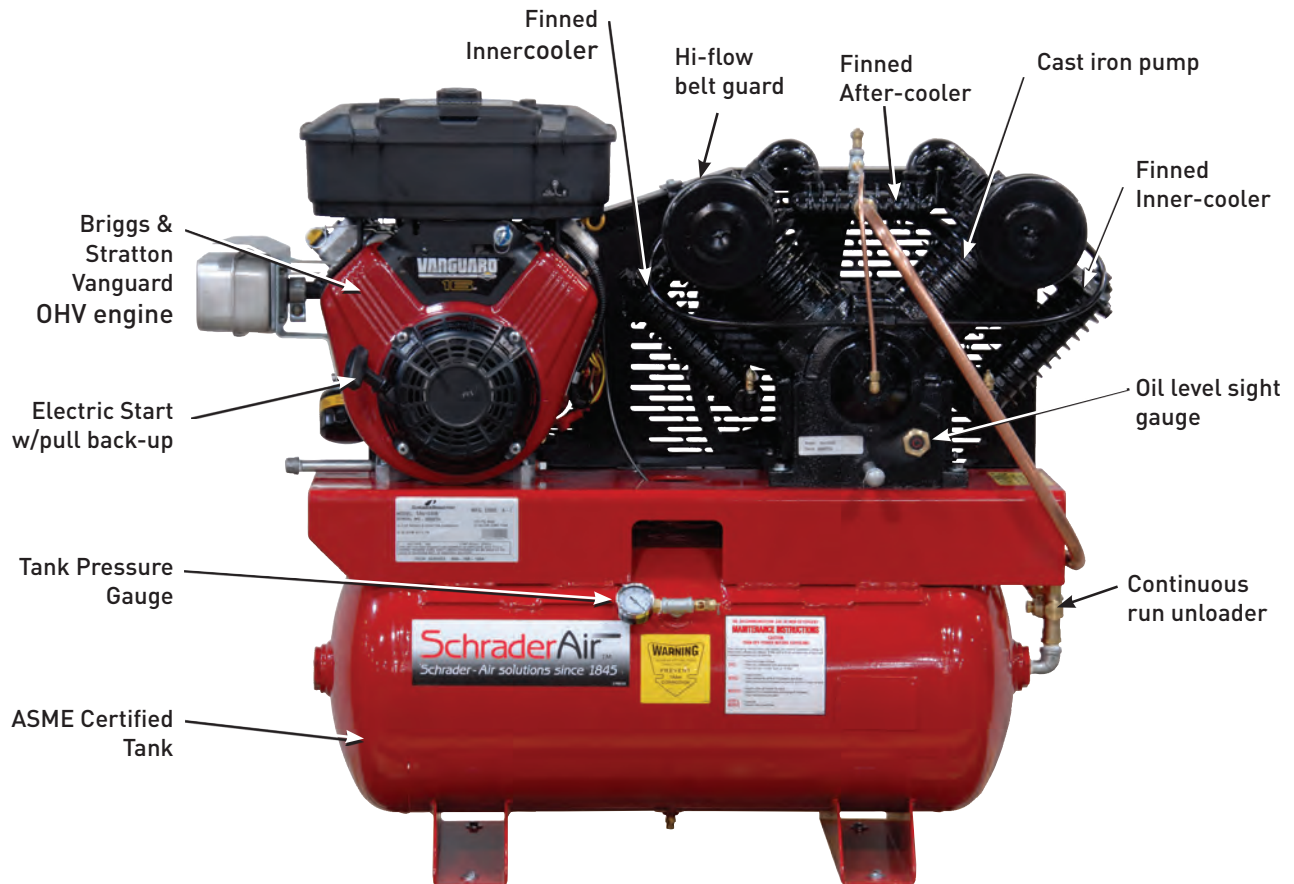
Parts & Accessories

Model #	Auto Tank Drain	Vibration Pads	Drive Belt	Pump & Engine Maintenance Kit	Synthetic Pump & Engine Maintenance Kit	Pressure Gauge	Throttle Cable	Pump Air Filter Element
SA6830H	82166	824679	82288613	CM*	CM*	283495	82205BN	82288665
SA61130H	82166	824679	82288613	CM*	CM*	283495	82205BN	82288665
SA61130HHD	82166	824679	82890	CM*	CM*	283495	82205BNK	822580(1)

*Call manufacturer

Specifications subject to change without notice. Units may not be exactly as pictured.

Briggs & Stratton Gas Powered, 175 PSI Air Compressors for the Service Industry



SA61030B

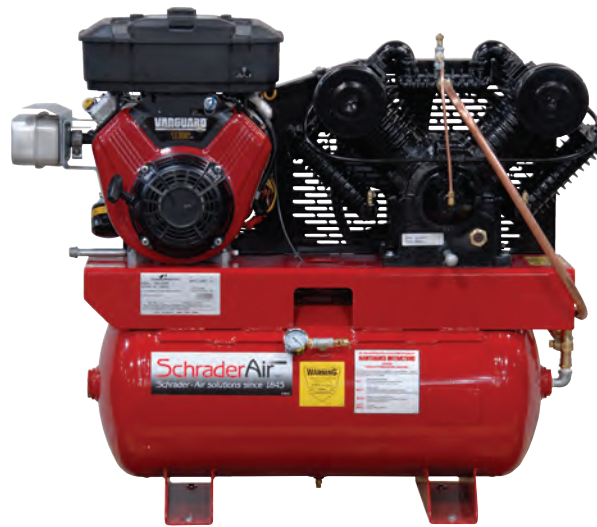
32 SCFM@175 PSI, 2-stage air compressors are well suited for service truck field requirements, tire shops, construction and heavy equipment companies.

SchraderAir's Briggs & Stratton gas powered air compressors are designed for field work where an electrical power source is not available. These 2 stage air compressors are equipped with a 30 gallon ASME code horizontal tank with a manual drain. Pressure preset at 145 PSI (load) and 175 PSI (unload).

- ▶ Cast iron cylinders for long life and durability
- ▶ Finned intercooler and after-cooler provide low operating temperatures and high efficiency
- ▶ Splash type lubrication
- ▶ Briggs & Stratton Vanguard OHV electric start engines are equipped with a fuel tank and gas-saving throttle control that meets CARB low emission requirements
- ▶ 30 Gallon ASME tank with manual drain
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

Specifications subject to change without notice. Units may not be exactly as pictured.

Briggs & Stratton Gas Powered, 175 PSI Air Compressors for the Service Industry



SA61630B

Specifications

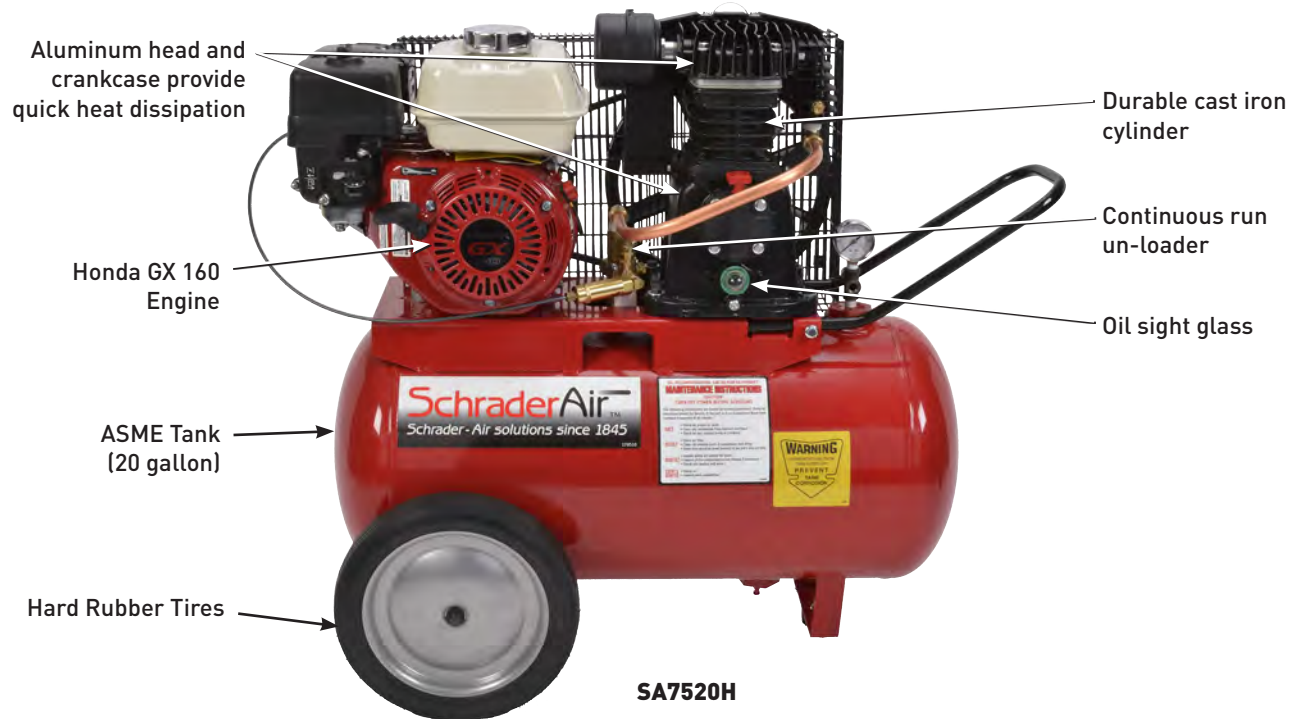
Model #	Engine		Pump					Tank	Dimensions	
	HP/Torque Rating	Type	Cyl.	RPM	Max. PSI	CFM	SCFM @175 psi	(Gallons)	L x W x H (inches)	Ship Wt.(lbs)
SA61630B	16/NA	B&S Vanguard	4	800	175	41	32	30	50 x 24 x 43	550

Parts & Accessories

Model #	Drive Belt	Pump Maintenance Kit	Continuous Run Unloader	Pressure Gauge	Throttle Cable	Pump Air Filter Element
SA61630B	82827	826041	82709	283495	82205BNK	822580(2)

Specifications subject to change without notice. Units may not be exactly as pictured.

Honda Gas Powered, 145 PSI and 175 PSI Air Compressors for Contractors



SA7520H - 5.5 HP, Single Stage compressor with 20 gallon tank:

- ▶ ASME tank with manual drain.
- ▶ 14.3 SCFM @ 40 PSI / 12.5 SCFM @ 90 PSI
- ▶ 145 PSI max
- ▶ Cast iron cylinder for maximum durability.
- ▶ Electric start is not available.

SA758H - 5.5 HP, Single Stage compressor with 8 gallon tank capacity:

- ▶ Twin 4-gallon tanks, 8 gallon total capacity (manual drain).
- ▶ 14.3 SCFM @ 40 PSI / 12.5 SCFM @ 90 PSI
- ▶ 145 PSI max
- ▶ Cast iron cylinder for maximum durability.
- ▶ Electric start is not available.

SA788H - 8 HP, 2-Stage compressor with 8 gallon tank capacity:

- ▶ Gas saving throttle control that meets California Air Resources Board (CARB) low emission requirements
- ▶ Continuous run throttle cable control
- ▶ Splash type lubrication
- ▶ Twin 4-gallon tanks, 8 gallon total capacity (manual drain).
- ▶ 13.5 SCFM @ 175 PSI
- ▶ Pressure is preset at 145 PSI (load) and 175 PSI (unload)
- ▶ Aluminum head and crankcase for fast heat dissipation
- ▶ Cast iron cylinders for long life and durability
- ▶ Finned intercooler and after-cooler provide low operating temperatures and high efficiency
- ▶ Electric start is standard

These units carry a one-year limited warranty

Honda Gas Powered, 145 PSI and 175 PSI Air Compressors for Contractors



SA7520H



SA758H



SA788H

SchraderAir Compressors are assembled in Altavista Virginia and built with the professional in mind. These portable units provide high volume, high capacity on site where you need it.

Some tools require more air than others. Determine which of your tools requires the largest cfm (cubic feet per minute) and select the proper unit from the table below. These units carry a one year limited warranty.

Specifications

Model #	Engine			Pump					Dimensions	
	HP/CC	Tank (Gallons)	Engine/Type	Cyl.	RPM	Max. PSI	CFM	SCFM	L x W x H (inches)	Ship Wt. (lbs)
SA7520H	5.5/160	20	Honda GX160	2	1355	145	18.3	14.3 @40 PSI	49 x 20 x 34	185
SA758H	5.5/160	2 x 4 = 8	Honda GX160	2	1355	145	18.3	14.1 @40 PSI	49 x 18 x 27	224
SA788H	8/240	2 x 4 = 8	Honda GX240	2	1300	175	19.5	13.5 @175 PSI	49 x 18 x 29	240

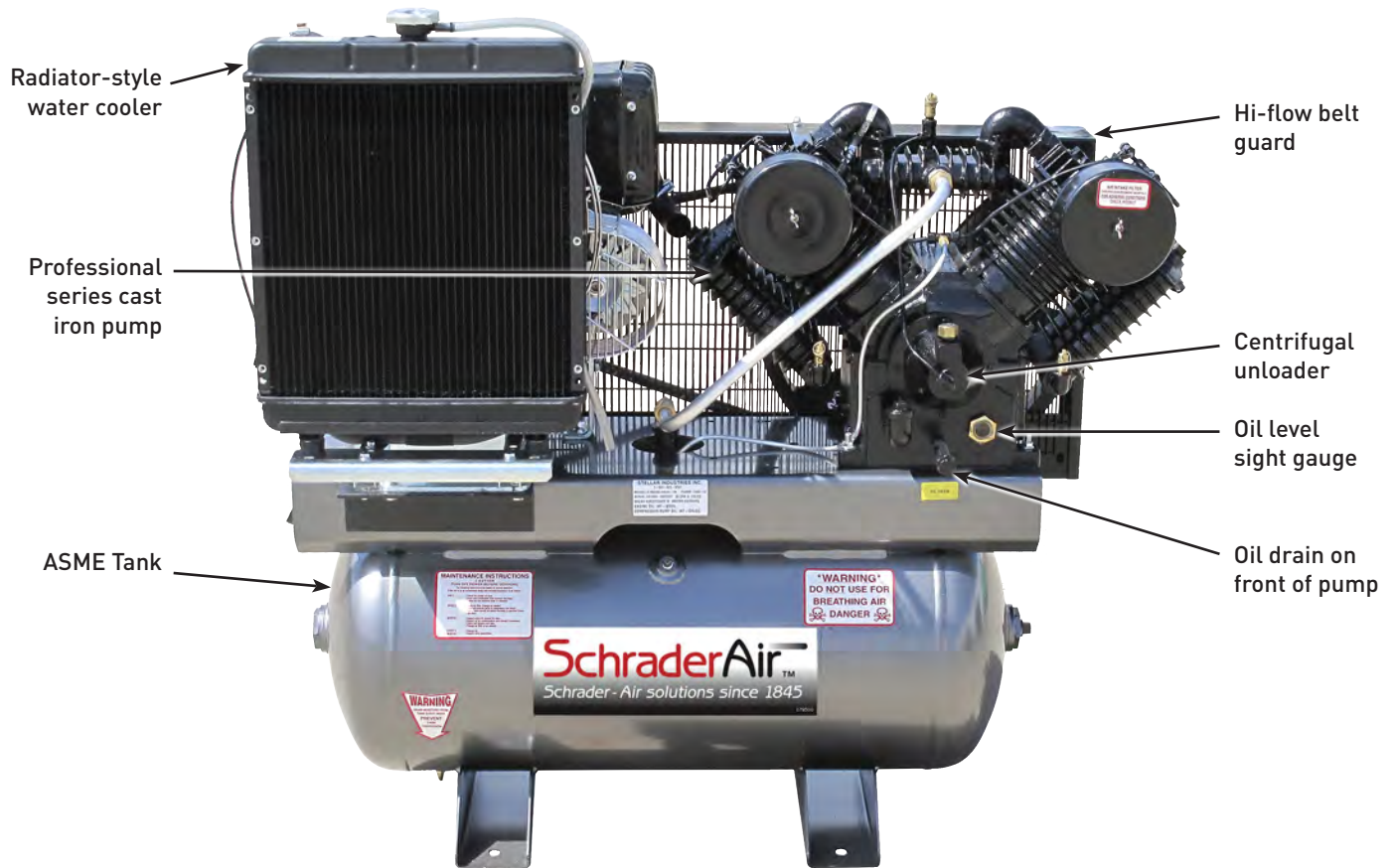
*Tanks under 6" diameter do not require ASME coding.

Parts & Accessories

Model #	Drive Belt	Pressure Gauge	Throttle Cable	Pump Air Filter Element	Pump Air Filter Assembly
SA7520H	82817	283495	82205BN	82288665	82289017
SA758H	82817	283495	82205BN	82288665	82289017
SA788H	82288613	283495	82205BN	82288665	82289017

Specifications subject to change without notice. Units may not be exactly as pictured.

10 HP and 16 HP Diesel Powered, 175 PSI Air Compressors for the Service Industry



SA81630K

SchraderAir's Diesel powered air compressors are rugged, easy-to-use work horses that are designed for the commercial market.

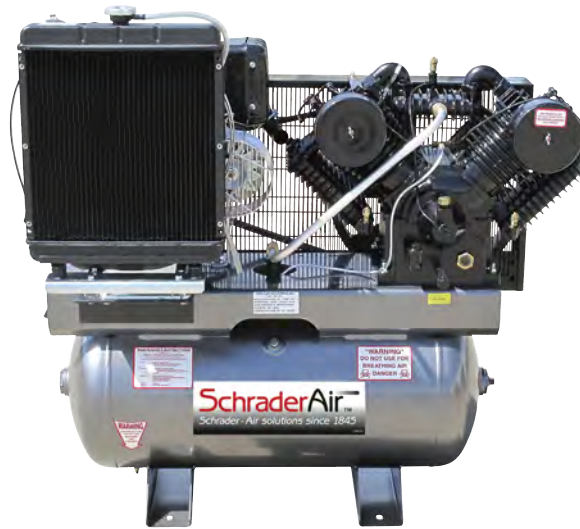
These Diesel powered air compressors provide trouble free starts by relieving pump pressure at start up with a manual un-loader valve that is strategically placed near the engine for easy access. SchraderAir's Diesel powered air compressors come standard with the following features:

- ▶ Cast iron industrial grade 2-stage pump
 - Rugged, durable industrial grade pump increases duty cycle and extends life
- ▶ Low RPM pump
 - reduces noise and lowers operating temperatures, extending pump life
- ▶ Oil sight glass
- ▶ Reliable splash lubrication
- ▶ Disc and spring type valves
 - Valves can be inspected /cleaned/ replaced without removing the cylinder head from the compressor
- ▶ Head unloader
 - Opens valve when maximum PSI is reached, allowing the pump to run un-loaded, reducing wear and fuel consumption
- ▶ Centrifugal unloader for load free starts
- ▶ Front mount oil drain
 - Allows easy access and simplifies oil changes
- ▶ ASME certified air receiver
- ▶ Fully enclosed hi-flow belt guard
 - Cooler operating temperatures extends pump life
- ▶ Air transfer tube protection
 - By enclosing the air transfer tube within the borders of the bed plate, the tube is protected from damage from shifting cargo and reduces burn exposure
- ▶ Battery box and cables included
Battery not included
- ▶ Durable, fuel efficient reliability from 10 HP or 16 HP Kohler direct injection diesel engines
 - 3-year Kohler engine warranty
 - Features full pressure lubrication for extended engine life and an alternator on drive engine
- ▶ Includes four mounting pads, four mounting bushings and tank drain extension (installed)
- ▶ One-year limited warranty

10 HP and 16 HP Diesel Powered, 175 PSI Air Compressors for the Service Industry



SA81030K



SA81630K

Specifications

Model #	Engine		Pump					Tank	Dimensions	
	HP/CC	Mfg./Type	Cyl.	RPM	Max. PSI	CFM	SCFM @175 psi	(Gallons)	L x W x H (inches)	Ship. Wt. (lbs)
SA81030K	10/401	Kohler/Diesel	2	790	175	21	16	30	42 x 22 x 42	435
SA81630K	16.8/686	Kohler/Diesel	4	790	175	44.2	34	30	48 x 32 x 48	575
SA81650K	16.8/686	Kohler/Diesel	4	790	175	44.2	34	50	48 x 32 x 32	625

Parts & Accessories

Model #	Auto Tank Drain	Vibration Pads	Drive Belt (uses 2)	Pump Maintenance Kit	Pump Air Filter Element
SA81030K	82166	824679	Gates B72	826041	822580 (1)
SA81630K	82166	824679	Gates B88	826041	822580 (2)
SA81650K	82166	824679	Gates B88	826041	822580 (2)

Note: SA81030K: 10 HP comes equipped with fuel tank
SA81630K, SA81650K: 16.8 HP does **NOT** come with fuel tank
Units require 12 volt battery (Not included)

Specifications subject to change without notice. Units may not be exactly as pictured.

Air Compressor Oil Change Kits for Professional Series Compressors

- ▶ Regular oil changes help maximize the life of the compressor pump. SchraderAir recommends oil changes every 3 months/1000 hours of use.
- ▶ SchraderAir offers two different versions of oil change kits, the 826040 (2 quarts of oil and 1 filter) for 5 HP units and the 826041 (2 quarts of oil and 2 filters) for 7.5 and 10 HP Kits. Each kit includes oil, filters, maintenance service cards and service date decal.
- ▶ Oil change kits fit most competitive compressors.
- ▶ Maintenance service card gives recommended service intervals as well as letting you track your last performed maintenance.
- ▶ Single quarts of oil available under part 826020.
- ▶ Single air filters available under part 822580.

*Maximize the life of your air compressor.
Change the oil and filter every
3 months/1000 hours.*



Specifications subject to change without notice. Units may not be exactly as pictured.

Heavy-duty 2-stage Replacement Pumps



5 HP PUMP

Cast iron, 2-cylinder, 2-stage replacement pump, fits most 5 HP electric industrial and 11 HP gas units. One-year warranty.

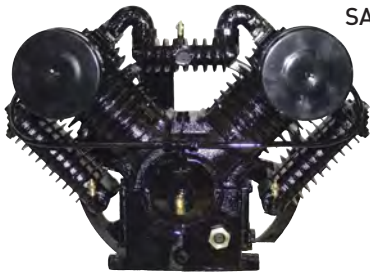
Item No.	HP	Compressor
823048	5 HP elec., 11 HP gas	SA3 Series SA6 Series SA4 Series



15 HP PUMP

Cast iron, 3-cylinder, 2-stage replacement pump. Works on most 15 HP Industrial. One-year warranty.

Item No.	HP	Compressor
823015	15 HP elec.	SA3 Series



7.5 & 10 HP PUMP

Cast iron, 4-cylinder, 2-stage replacement pump, fits most 10 HP electric industrial, 7.5 HP electric units and 16 HP gas. One-year warranty.

Item No.	HP	Compressor
823010	7.5 & 10 HP elec., 16 HP gas	SA3 Series SA6 Series SA4 Series



20, 25 & 30 HP PUMP

Cast iron, 4-cylinder, 2-stage replacement pump. Works on most 20, 25 & 30 HP electric industrial units. One-year warranty.

Item No.	HP	Compressor
823025	20, 25 & 30 HP elec.	SA3 Series

Pump No.	No Cyl.	HP	SCFM	MAX PSI	PUMP RPM	Motor Sheave 1725/3450 RPM (inches)	Bore Stroke (inches)	Mounting Holes Center to Center (inches)	Shipping Weight (lbs)
82289015	2	5	13.5@175psi	175	1300	11 / 6	2 ⁹ / ₁₆ x 2 ¹ / ₈	7 ³ / ₄ x 6 ¹¹ / ₁₆	130
823048	2	5	16@175psi	200	800	7 ³ / ₄ / 4	4 ¹ / ₄ x 2 ¹ / ₈ x 3 ¹ / ₂	9 ⁵ / ₈ x 7 ³ / ₄	275
82289016	2	7.5	17@175psi	175	1065	9 ³ / ₄ / 5 ¹ / ₂	4 ³ / ₄ x 2 x 3 ¹ / ₈	9 x 6 ¹¹ / ₁₆	130
823010	4	7.5	24@175psi	200	600	6 ¹ / ₂ / 3 ³ / ₄	4 ¹ / ₄ x 2 ¹ / ₈ x 3 ¹ / ₂	9 ¹ / ₄ x 9	375
823010	4	10	32@175psi	200	800	8 ³ / ₄ / 4 ³ / ₈	4 ¹ / ₄ x 2 ¹ / ₈ x 3 ¹ / ₂	9 ¹ / ₄ x 9	375
823015	3	15	53.4@175psi	200	800	6.4 / 3 ¹ / ₄	4 ³ / ₄ x 3 ³ / ₄ x 2 ³ / ₄	9 x 15 ¹ / ₂	450
823025	4	20	75@175psi	200	585	8 / 4	5 ¹ / ₂ x 3 x 5	10 x 16	786
823025	4	25	88@175psi	200	645	9.4 / 4 ⁷ / ₈	5 ¹ / ₂ x 3 x 5	10 x 16	786

Specifications subject to change without notice. Units may not be exactly as pictured.

Single-stage Replacement Pumps



2 - 4 HP PUMP

Aluminum head and crankcase with cast iron cylinders fits a variety of single stage electric applications. Please call Customer Support - Technical Services for compatibility. One-year warranty.

Item No.	HP	Compressor
SA289084	2 elec.	SA1520
	2 elec.	SA1526
	2 elec.	SA1560
	4 elec.	SA1760

Medium-duty 2-stage Replacement Pumps



7.5 HP PUMP

Aluminum head and crankcase with cast iron cylinders, 2-stage pump, fits 7.5 HP electric, 10 and 11 HP gas units.

Item No.	HP	Compressor
82289016	7.5 elec, 10 - 11 gas	SA2 Series SA6 Series



5 HP PUMP

Aluminum head and crankcase with cast iron cylinders, 2-stage pump, fits 5 HP electric and 8 HP gas units.

Item No.	HP	Compressor
82289015	5 elec., 8 gas	SA2 Series SA7 Series SA 6 Series



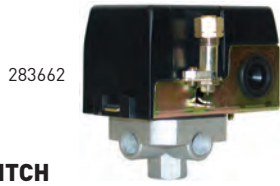
5 HP PUMP

Aluminum head and crankcase with cast iron cylinders, 2-stage pump, fits 5 HP electric SA2560VL.

Item No.	HP	Compressor
SA289094	5 elec.	SA2560VL

Specifications subject to change without notice. Units may not be exactly as pictured.

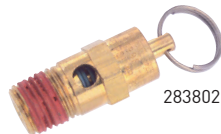
Air Compressor Accessories



PRESSURE SWITCH

Electric switch starts and stops the compressor as pressure rises and falls in the tank. Pressure setting is adjustable.

Item No.	Pipe Thread	Unloader	On/Off Lever	Preset Setting PSI
283662	1/4"	yes	yes	90 to 125
82779	1/4"	yes	no	140 to 175
82776	1/4"	yes	yes	110 to 140



SAFETY VALVES

Valve vents the tank if excess pressure builds up. This safety valve is essential for all ASME approved tanks. Male 1/4" NPT outlet.

Item No.	Preset PSI	CFM
283800	60	61
283801	125	115
283802	150	136
283804	165	149
283805	200	178



TANK MANIFOLDS

Compressor-type manifolds combine safety valve, full flow valve, tank mounting fitting and fittings for air gauge. 150 PSI max.

Item No.	Description
283633	Air compressor tank manifold
283634	Manifold for carry tanks

AIR PRESSURE GAUGE

Gauge has a 2" face with a Male 1/4" NPT back or bottom connection. Reads 0 to 300 PSI.

Item No.	Description
283494	Rear Mount
283495	Bottom Mount



UNLOADER PILOT VALVE

Valve directs air to head unloader, which holds pump intake valve open when pressure is reached. Pressure setting is 145 PSI open to 175 PSI closed.

Item No.	
82952	for 20, 25, 30 HP



IN-TANK CHECK VALVES

Valves are used between tank and pump discharge line to prevent reverse flow of air from tank to compressor.

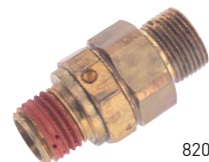
Item No.	Compression Inlet	NPT Outlet
82C5050	1/2" Compression	1/2"
82C7575	3/4" Compression	3/4"
82C7510	3/4" Compression	1"
82P5050	1/2" FPT	1/2"
82P7575	3/4" FPT	3/4"
82P7510	3/4" FPT	1"



BRONZE AIR CHECK VALVES

Valves prevent reverse flow of air from tank to compressor, allowing air to flow in one direction only. Generally used in discharge line from pump to tank.

Item No.	Inlet/Outlet
82781	3/8" NPT
82782	1/2" NPT
82783	3/4" NPT



UNLOADER AND CHECK VALVE COMBINATION

As the pump stops, the valve senses a lack of air flow and relieves pressure in discharge line. When pump starts, the vent closes and check valve reopens.

Item No.	Inlet	Outlet
8206	3/8" Compression	1/4" MPT
8212	1/2" Compression	3/8" MPT
8224	3/4" Compression	1/2" MPT

Air Compressor Accessories



82709

Un-loader vents discharge air into the atmosphere when tank pressure reaches valve setting. It also acts as a check valve. Used with all gas powered compressors.

Item No.	Pressure Setting, PSI
82709	145 to 175
82710	110 to 140
82711	90 to 120
82205BN	48" Throttle cable
82205BNK	64" Throttle cable



82289712

LOW OIL SHUT DOWN SWITCH

Designed to fit 823048 series pump and 823010 series pumps only.

Item No.	Description
82289712	Includes flange; works on bolt or screw in sight-glass.

AUTOMATIC AIR COMPRESSOR DRAIN

The NEW standard for solenoid drains.

BUILT IN, SELF CLEANING STRAINER

- Self cleaning, resists clogging
- Does not stick open - NO wasted air
- Built in strainer
- Easy installation
- 4" long x 3.5" wide
- Weight is 1.3 Lbs.

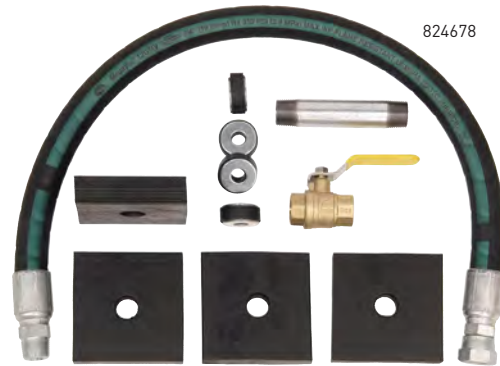
Drain Specifications

- 0.5 to 10 second open cycle, 30 second to 45 minute off cycle
- 250 PSI
- 115v / 60 Hz
- 0.156 diameter precision orifice
- Includes LED lights and test button



300787

Item No.	Description
300787	Automatic air compressor drain



824678

STATIONARY AIR COMPRESSOR MOUNTING KIT*

Our Compressor Mounting Kit contains all the items needed to securely install most stationary air compressors. Properly mounted air compressors transfer less vibration to airlines and airline accessories, which reduce noise, air leaks, and extends tank life. Includes:

- (1) 3' x 3/4" Flex line
- (1) 3/4" x 5" Galvanized nipple
- (1) 3/4" Ball valve
- (4) Rubber floor mounting pads
- (4) Metal / rubber bushings
- (4) 3" Lag shields
- (4) 1/2" x 4 1/2" Lag screws

Item No.	Description
824678	Stationary Air Compressor Mounting Kit

* Not for use on gas units. Ask your SchraderAir representative for information about additional Air Compressor accessories.



AIR COMPRESSOR MOUNTING PADS

install on most air compressors. Includes:

- (4) Rubber floor mounting pads
- (4) Metal / rubber Bushings

Item No.	Description
824679	Stationary Air Compressor Mounting Pads

Ask your SchraderAir representative for information about additional Air Compressor accessories.

Specifications subject to change without notice. Units may not be exactly as pictured.

Schrader Air Part Number	HP	Pump Up Time	Pump	Flywheel	Motor	Pulley Size	Pulley #	Belt #	Gates Belt #	Tank Type	Tank Part Number
SA3580H1	5	6.49	82-3048	17"	82-5000MA	7 1/4"	82-2355	82-890	A-77	80 Gal.Horiz.	82-82
SA3580H1208	5	6.49	82-3048	17"	82-5208MA	7 1/4"	82-2355	82-890	A-77	80 Gal.Horiz.	82-82
SA3580H3	5	7:18	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	80 Gal. Horiz.	82-82
SA3580H3460	5	7:18	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	80 Gal. Horiz.	82-82
SA3580V1	5	7:15	82-3048	17"	82-5000MA	7 1/4"	82-2355	82-890	A-77	80 Gal. Vert.	82-81
SA3580V1208	5	7:15	82-3048	17"	82-5208MA	7 1/4"	82-2355	82-890	A-77	80 Gal. Vert.	82-81
SA3580V3	5	7:18	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	80 Gal. Vert.	82-81
SA3580V3460	5	7:18	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	80 Gal. Vert.	82-81
SA35120H1	5	11:18	82-3048	17"	82-5000MA	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82-83
SA35120H1208	5	11:18	82-3048	17"	82-5208MA	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82-83
SA35120H3	5	11:18	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82-83
SA37580H1	7.5	4:32	82-3010	19"	82-7500MA	6 1/2"	82-3806	82-890	A-77	80 Gal. Horiz.	82-82
SA37580H1208	7.5	4:32	82-3010	19"	82-7508MA	6 1/2"	82-3806	82-890	A-77	80 Gal. Horiz.	82-82
SA37580H3	7.5	4:35	82-3010	19"	82-7500MB	6 1/2"	82-3806	82-890	A-77	80 Gal. Horiz.	82-82
SA37580V1	7.5	4:32	82-3010	19"	82-7500MA	6 1/2"	82-3806	82-890	A-77	80 Gal. Vert.	82-81
SA37580V1208	7.5	4:32	82-3010	19"	82-7508MA	6 1/2"	82-3806	82-890	A-77	80 Gal. Vert.	82-81
SA37580V3	7.5	4:35	82-3010	19"	82-7500MB	6 1/2"	82-3806	82-890	A-77	80 Gal. Vert.	82-81
SA375120H1	7.5	7:14	82-3010	19"	82-7500MA	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82-83
SA375120H1208	7.5	7:14	82-3010	19"	82-7508MA	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82-83
SA375120H3	7.5	7:04	82-3010	19"	82-7500MB	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82-83
SA31080H3	10	3:45	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	80 Gal. Horiz.	82-82
SA31080V3	10	3:51	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	80 Gal. Vert.	82-81
SA310120H3	10	5:18	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	120 Gal. Horiz.	82-83
SA310120V3	10	5:18	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	120 Gal. Vert.	82-288673
SA315120H3	15		82-3015		82-1500MB					120 Gal. Horiz.	
SA315240H3			82-3015		82-1500MB					240 Gal. Horiz.	
SA315120H3460			82-3015		82-1500MB					120 Gal. Horiz.	
SA315240H3460			82-3015		82-1500MB					240 Gal. Horiz.	
SA325200H3	25	5:31	82-3025		82-2500MB						
SA330200H3	30		82-3025		82-3000MB						
SA451201	(2) 5.0	5:52	82-3048	17"	82-5000MA	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82289048
SA451203	(2) 5.0	5:34	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82289048
SA451203460	(2) 5.0	5:34	82-3048	17"	82-5000MB	7 1/4"	82-2355	82-890	A-77	120 Gal. Horiz.	82289048
SA4751201	(2) 7.5	3:53	82-3010	19"	82-7500MA	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82289048
SA4751203	(2) 7.5	3:35	82-3010	19"	82-7500MB	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82289048
SA4751203460	(2) 10	3:35	82-3010	19"	82-7500MB	6 1/2"	82-3806	82-890	A-77	120 Gal. Horiz.	82289048
SA101203	(2) 10	2:38	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	120 Gal. Horiz.	82289048
SA101203460	(2) 10	2:38	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	120 Gal. Horiz.	82289048
SA102003	(2) 10	4:53	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	200-Gal. Horiz.	82289049
SA102003460	(2) 10	4:53	82-3010	19"	82-1000MB	8 3/4"	82-3764	82-826	A-79	200-Gal. Horiz.	82289049
SA1130B	11	2:30	82-3048	17"	82-288863	5"	82-3804	82-890	A-77	30 Gal. Horiz.	82-79
SA30HHD	11	2:20	82-3048	17"	82-842E	5"	82-3804	82-890	A-77	30 Gal. Horiz.	82-79
SA61630B	16	1:13	82-3010	19"	82-847-V	5"	82-3804	82-827	A-81	30 Gal. Horiz.	82-79
SA2560	5	5:37	82-289015	16"	82-5000MD	6"	82-9002	82-9003	B-70	60 Gal. Vert.	82-9901
SA2580	5	7:30	82-289015	16"	82-5000MD	6"	82-9002	82-9003	B-70	80 Gal. Vert.	82-81
SA27580	7.5	5:33	82-289016	16"	82-6200MA	9 3/4"	82-9017	82-9018	B-76	80 Gal. Horiz.	82-81
SA6830B	8	2:50	82-289015	16"	82-288611	6"	82-747	82-288613	B-61	30 Gal. Horiz.	82-288610
SA6830H	8	2:53	82-289015	16"	82-841E	6"	82-747	82-288613	B-61	30 Gal. Horiz.	82-288610
SA61030B	10	1:59	82-289016	16"	82-288619	5 1/4"	82-288620	82-288613	B-61	30 Gal. Horiz.	82-288610
SA61030H	11	1:57	82-289016	16"	82-442E	5 1/4"	82-288620	82-288613	B-61	30 Gal. Horiz.	82-288610
SA788B	8	:52	82-289015	16"	82-288623	6"	82-747	82-288613	B-61	(2) 4 Gal. Horiz.*	82-288626
SA788H	8	:54	82-289015	16"	82-841E	6"	82-747	82-288613	B-61	(2) 4 Gal. Horiz.*	82-288626
SA1520	5		82-93180100		82-01504310			82-BA49	A-49	20 Gal. Horiz.	82-TK20PB
SA1526	5		82-93180100		82-01504310			82-BA49	A-49	30 Gal. Vert.	82-TK26PVB
SA1560	5	10:30	82-93180100		82-01504310	3 3/4"	82-SAK3958	82-BA49	A-49	60 Gal. Vert.	82-TK60V170B2
SA1760	7	7:30	82-80910360	13 3/4"	82-01504770	5 1/4"	82-SAK56HR	82-BA56	A-56	60 Gal. Vert.	82-TK60V170B2
	7	10:20	82-80910360	13 3/4"	82-01504770			82-BA56	A-56	80 Gal. Vert.	82-TK80VBN
SA7520B	5.5	1:52	82-288937	12"	82-830	5"	82-288599	82-817	A-50	26 Gal. Horiz.	82-288936
SA7520H	5.5	1:55	82-288937	12"	82-840	5"	82-288599	82-817	A-50	26 Gal. Horiz.	82-288936
SA758B	5.5	:49	82-288937	12"	82-830	5"	82-288599	82-817	A-50	(2) 4.0 Gal. Horiz.*	82-87
SA758H	5.5	:49	82-288937	12"	82-840	5"	82-288599	82-817	A-50	(2) 4.0 Gal. Horiz.*	82-87

SchraderAir™ Time Allowance for Parts Exchanged

Single-Stage Air Compressor: 5 HP - 7.5 HP (peak)	Time Allowance
Inspection and Testing	.5 hr.
Valve Plate	.5 hr.
Pressure Switch	.5 hr.
Air Oil Leaks up to	.5 hr.
Pump	.75 hr.
Electric Motor	.75 hr.

Two-Stage Air Compressor: 5 HP - 10 HP	Time Allowance
Inspection and Testing	.5 hr.
Valve Overhaul 5 HP	1.0 hr.
Valve Overhaul 10 HP Per Side	1.0 hr.
Oil Seal	1.0 hr.
Sight Gauge	.2 hr.
Pressure Switch	.5 hr.
Compressor Pump Replacement	1.0 hr.
Electric Motor Replacement	1.0 hr.

Two-Stage Air Compressor: 15 HP - 30 HP	Time Allowance
Inspection and Testing	.5 hr.
Valve Overhaul 15 HP Per Cylinder	1.0 hr.
Valve Overhaul 25 HP and 30 HP Per Side	1.5 hr.
Oil Seal	2.0 hr.
Sight Gauge	1.0 hr.
Pressure Switch	.5 hr.
Compressor Pump Replacement	1.5 hr.
Electric Motor Replacement	1.0 hr.

Schrader International, Inc.

Warranty Statement

For (1) one year from the date of purchase, Schrader International, Inc. will replace or repair for the original purchaser free of charge, any part or parts found upon examination by manufacturer/any Authorized Service Center to be defective in material or workmanship or both. This warranty shall not be effective unless the warranty registration certificate is completely filled out and returned to Schrader International, Inc. within thirty (30) days from the delivery of the equipment to the original end-user.

All transportation charges for parts submitted for replacement under this warranty must be borne by the purchaser. There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose are limited to one year from the date of purchase and to the extent permitted by law, any and all implied warranties are excluded. This is the exclusive remedy, and liability for consequential damages under any and all warranties are excluded to the extent exclusion is permitted by law.

All claims pertaining to the merchandise in this schedule must be filed with Schrader International, Inc. within 12 months of the invoice date, and a Registration card is on file with Schrader, or they will not be honored. Prices, discount, and terms are subject to change without notice or as stipulated in specific product quotations. All agreements are contingent upon strikes, accidents, and other causes beyond our control. All shipments are carefully inspected and counted before leaving the factory. Please inspect carefully any receipt of merchandise, noting any discrepancy or damage on the carrier's freight bill at time of delivery. Discrepancies or damage, including hidden or obvious that occurred in transit are the carrier's responsibility and related claims should be made by the customer directly with the carrier.

To locate the closest Authorized Service Center for service assistance, resolution of a service problem or for product information and operation, call or write to:

Schrader International, Inc.
205 Frazier Road
Altavista, VA 24517

Email: TechSvc@Schrader-Bridgeport.com
1.800.288.1804, ext. 620

To locate the closest Authorized Service Center, or for service assistance or resolution of a service problem, or for product information and operation, call or write to:

Schrader International
205 Frazier Road
Altavista, VA 24517
1-800-345-0578

What is not covered under this warranty?

- Electric motors or gasoline engines are covered by the Original Manufacturer's Warranty and should be returned (by the customer) to their authorized service center for service.
- SA1 Consumer compressors used in commercial, industrial or rental purposes will be covered by warranty for (90) ninety days from date of purchase only.
- Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with compressor.
- Pump or valve failure caused by rain, excessive humidity, corrosive environments or other contaminants.
- Cosmetic defects that do not interfere with the compressor's functionality.
- Damage due to incorrect voltage or improper wiring.
- Pump wear or valve damage caused by any oil contamination or by failure to follow proper oil maintenance guidelines.
- This warranty is invalid if the factory-applied serial number has been altered or removed from the product, or an electric compressor has been used in conjunction with a generator.
- Freight damage

Company Information:

Company name:

Contact person:

Address:

City / State / Postal Code:

Phone #:

FAX #:

Email:

Compressor Information:

Model number:

Serial number:

Cut in and cut out pressures:

Pump up time (Unit only):

Location of compressor:

Heated or unheated area:

Inches/feet clearance from obstructions:

Vibration isolators (Y/N):

Type of oil used:

Amount of oil in sight glass:

Oil condition:

Air filter condition:

Belt condition and deflection:

Electrical Information:

Breaker size:

Dedicated breaker (Y/N):

Location of breaker:

Main disconnect installed (Y/N) / Condition:

Wire size:

Length of wire:

Voltage at breaker:

Voltage at compressor - without compressor running:

Voltage at compressor - with compressor running (no load):

Voltage at compressor - running full load voltage:

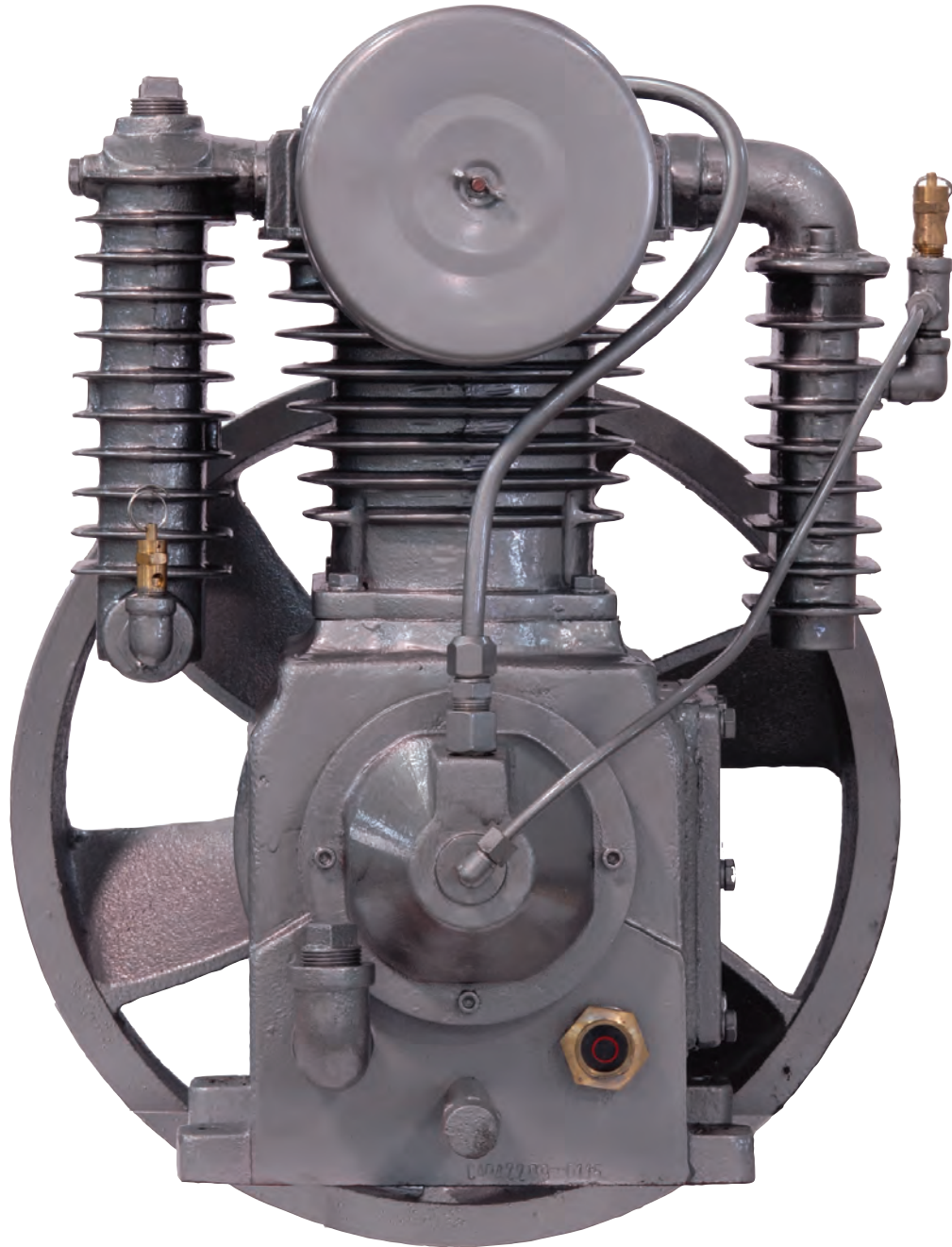
Start up/running AMP:

Full load AMP:

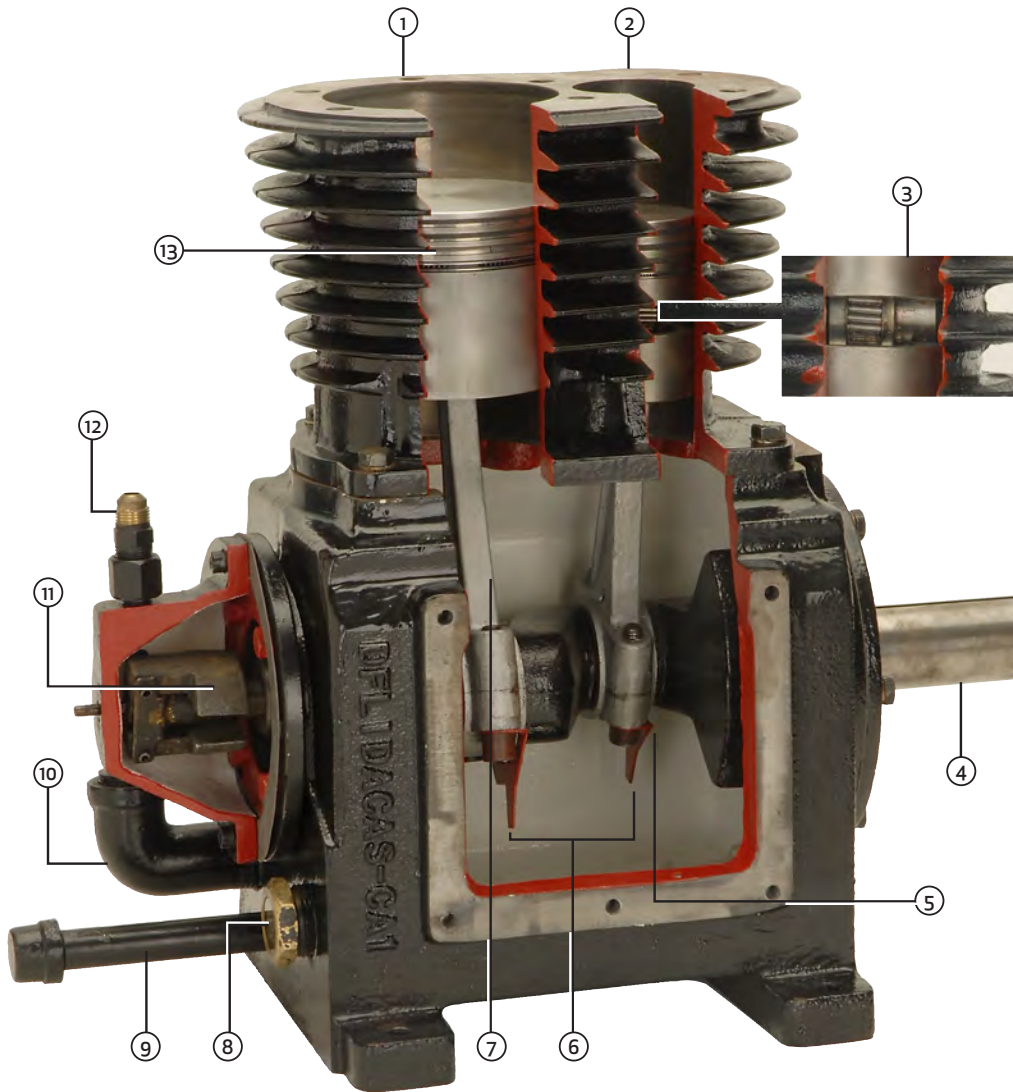
Complete Information and Fax To: 1-434-369-3577

Industrial Compressor Pump

▶▶ Competitive Advantages



An Air Compressor is only as good as its pump. That's why Schrader pumps are built to demanding standards with the professional in mind. Durable and efficient, these pumps last longer and run better than the competition.



1. Low Pressure Cylinder (0-60 psi)
2. High Pressure Cylinder (60-175 psi)
3. Automotive style wrist pins on connecting rods allows pump to be rebuilt.
4. Crank shaft is supported on both sides with tapered roller bearings. Others support on one side only.
5. Inserts on crank journals mean less chance of breaking rod.
6. Dippers provide splash lubrication to moving parts.
7. Cast iron connecting rods have replaceable rod bearings. Others use aluminum rods
8. Oil level sight glass
9. Oil drain tube
10. Oil fill tube
11. Centrifugal unloader
12. Breather tube
13. Rings

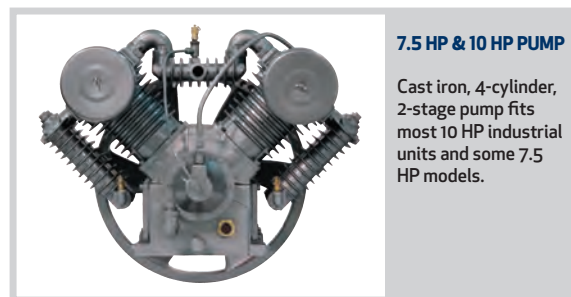
- Tapered roller bearing on crankshaft
- Inserts on connecting rods
- Finned innercooler and aftercooler for higher efficiency
- Concentric valves - easy replacement

- Splash-type lubrication
- Oil sight gauge
- Low RPM for longer service life
- One-year limited parts and labor warranty



5 HP PUMP

Cast iron, 2-cylinder, 2-stage pump fits most 5 HP industrial units.



7.5 HP & 10 HP PUMP

Cast iron, 4-cylinder, 2-stage pump fits most 10 HP industrial units and some 7.5 HP models.



SCHRADER AIR COMPRESSORS

Training Manual & Field Guide



SchraderAir

COMPRESSOR TRAINING MANUAL

*This manual covers basic air compressor operation and trouble shooting. For conditions not covered in this training manual, please consult Technical Service for recommendations.
800.288.1804 press #2 for Tech Service.*

Before you repair or service a SchraderAir air compressor

When contacted by a customer for repair of a SchraderAir Compressor it is recommended that you first contact Technical Service (1.800.288.1804, then press #2) before making a service call or beginning repair.

Please have the following information available:

1. Model number
2. Serial number
3. Warranty
4. Proof of purchase
5. Customer complaint(s)

You will be given suggestions for repair. This can save time and provide better customer service.

Tools required:

- Valve tool for industrial units.
- Leak detector
- Volt meter
- Amp meter
- 82-516 gauges
- An assortment of metric and standard hand tools

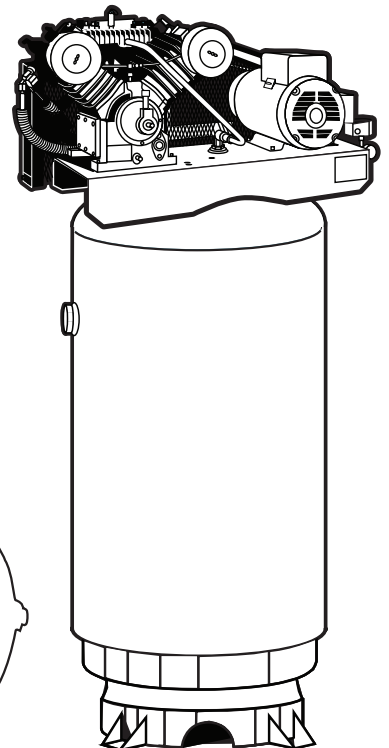
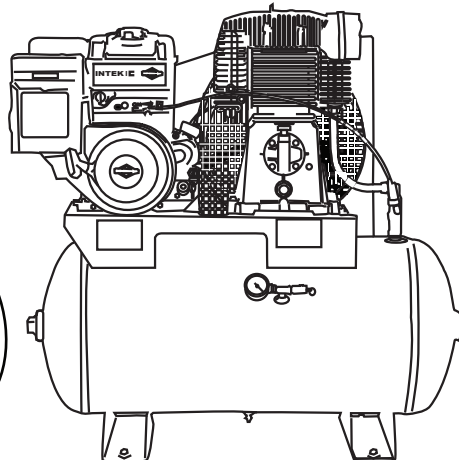
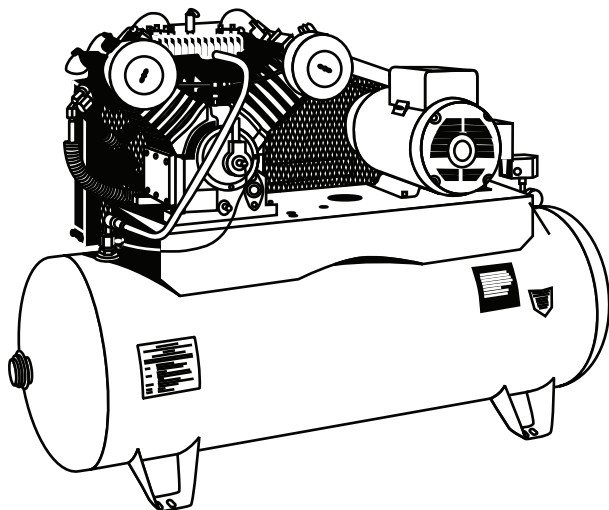


Table of Contents

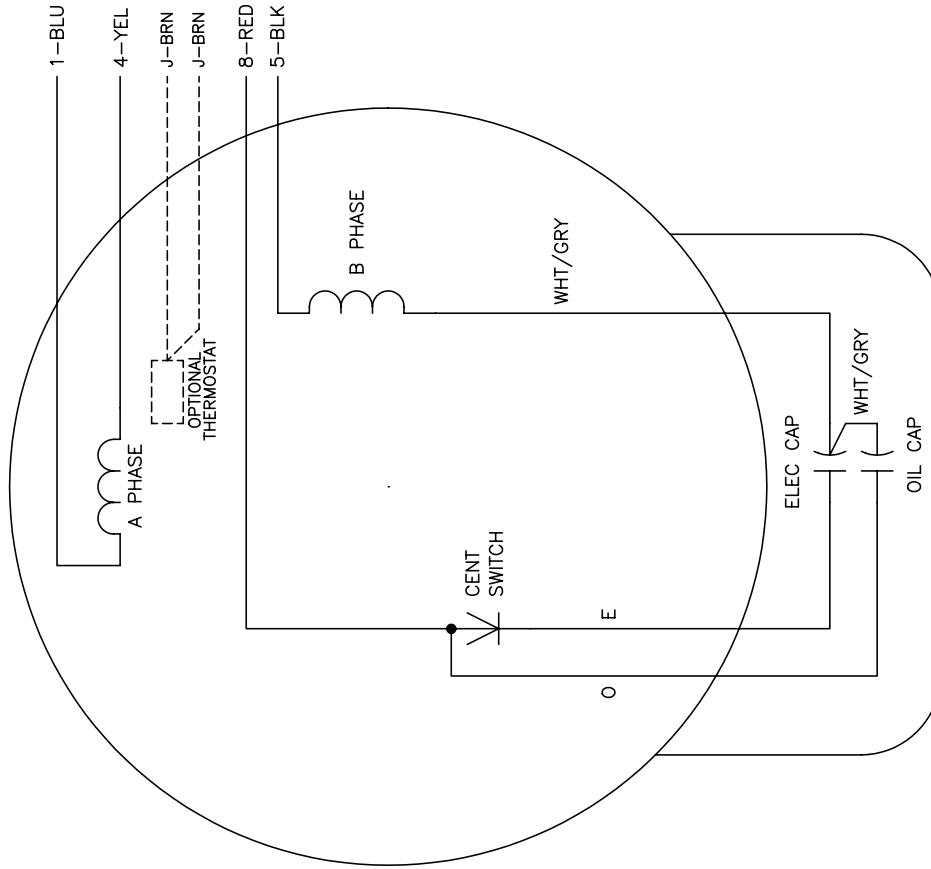
	Page
Required info when calling Tech Service.....	3
Single and Three Phase Electrical Motors.....	4
Wiring Diagrams	6
Wiring Recommendations.....	12
Piston/Reciprocating Pumps	
Duty Cycle.....	13
Pump terms & definitions	14
Pump Valves.....	16
Unloaders.....	19
Routine Service (Piston Pumps).....	20
Proper Installation Checklist	21
Proper Air Compressor Sizing.....	22
Tank Sizing.....	23
Compressor Installation Requirements.....	24
Shop Layout.....	25
Trouble Shooting.....	26
Rules of Thumb.....	33
Rotary Screw	
Routine Service.....	35
Maintenance Checklist.....	36
Rotors and Bearings.....	38
Inlet Valve.....	40
Oil Separator and filters.....	43
Oil Thermo Valves and Air/Oil Coolers.....	45
Schrader/NAPA Unit numbers Cross-Reference.....	47

Single Phase Electric Motors

BALDOR • RELIANCE Product Information Packet: L1510T - 7.5HP, 1725RPM, 1PH, 60HZ, 215T, 3744LC, OPEN

CD0017A02

	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8



- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A02

BALDOR ELECTRIC Co.

TYPE LC, SV, REV. 4 LEADS

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

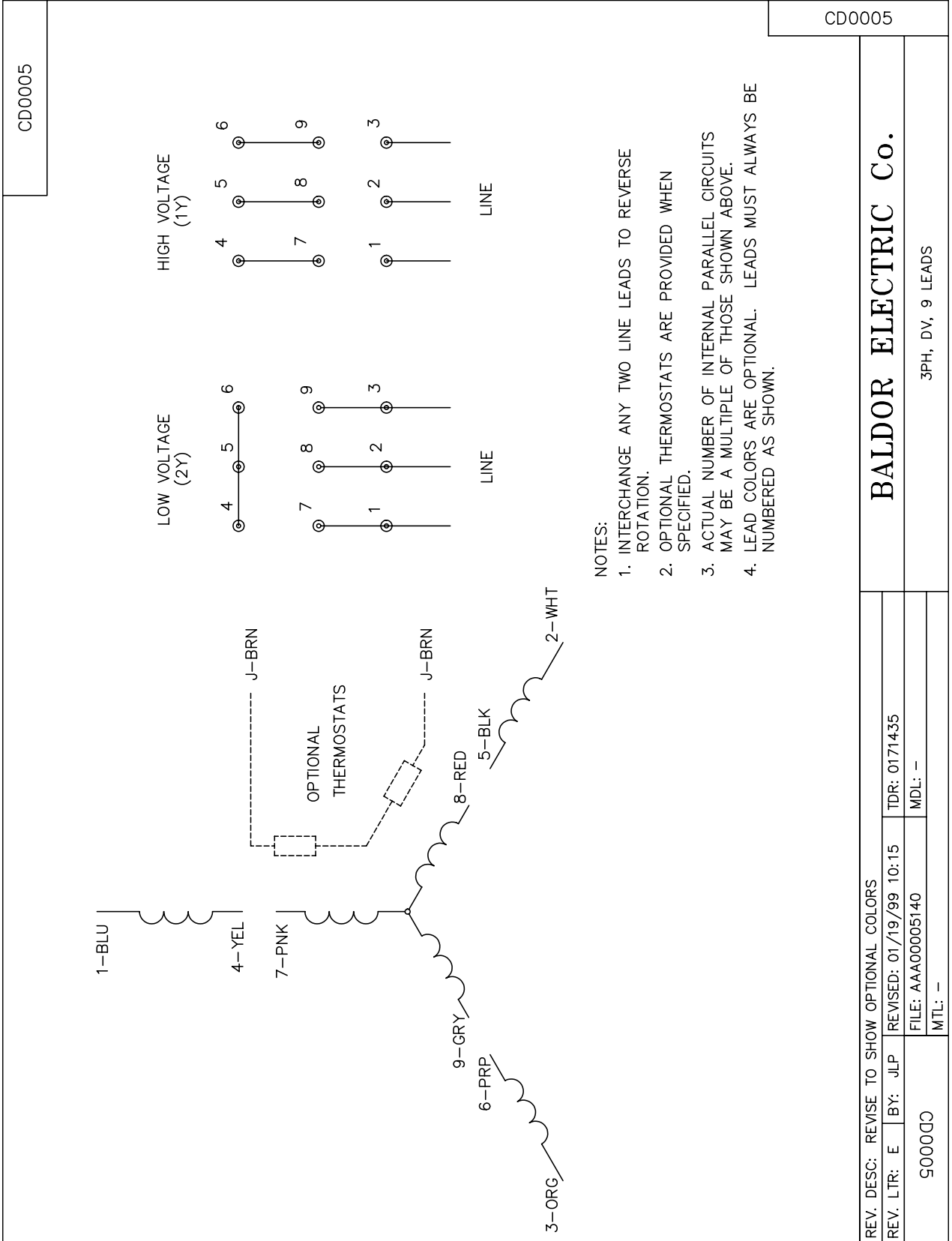
REV. LTR: B BY: JLP REVISED: 04/09/99 11:30 TDR: 0178636

FILE: AAA00007514 MDL: -

CD0017A02 MTL: -

Three Phase Electric Motors

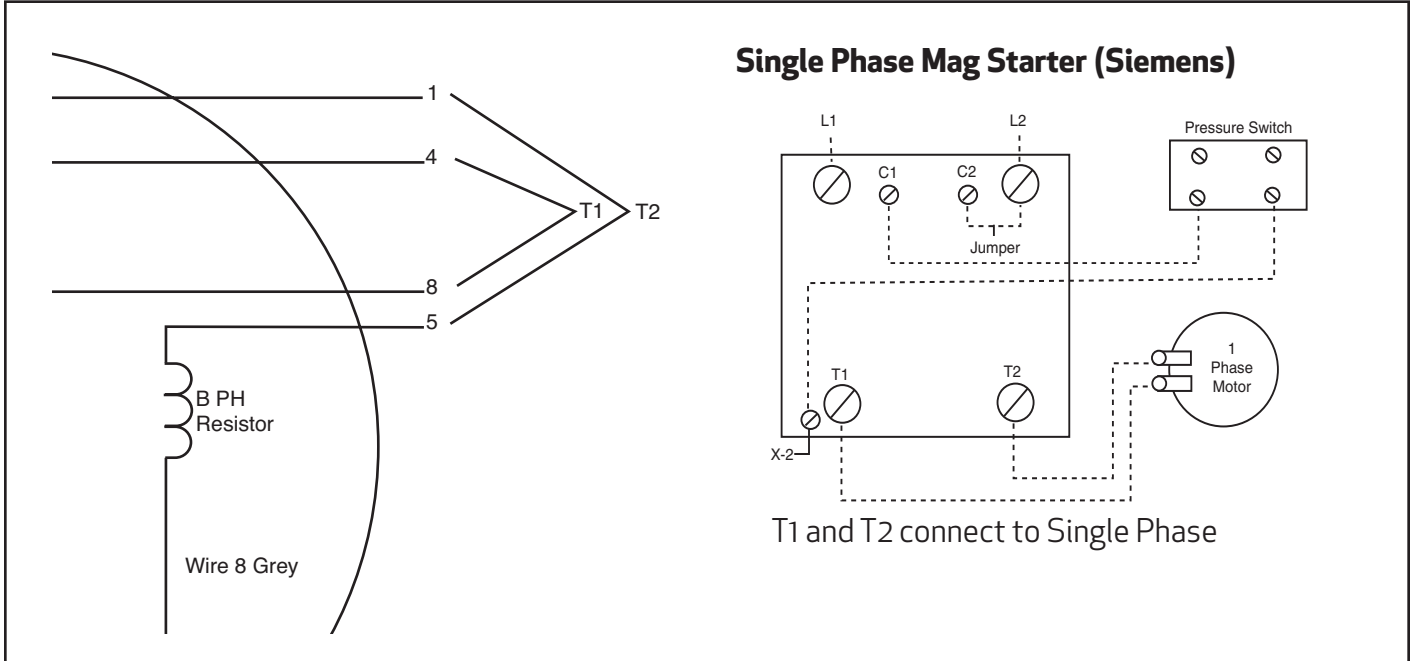
BALDOR • RELIANCE Product Information Packet: M3311T - 7.5HP, 1745RPM, 3PH, 60HZ, 213T, 3643M, OPSB



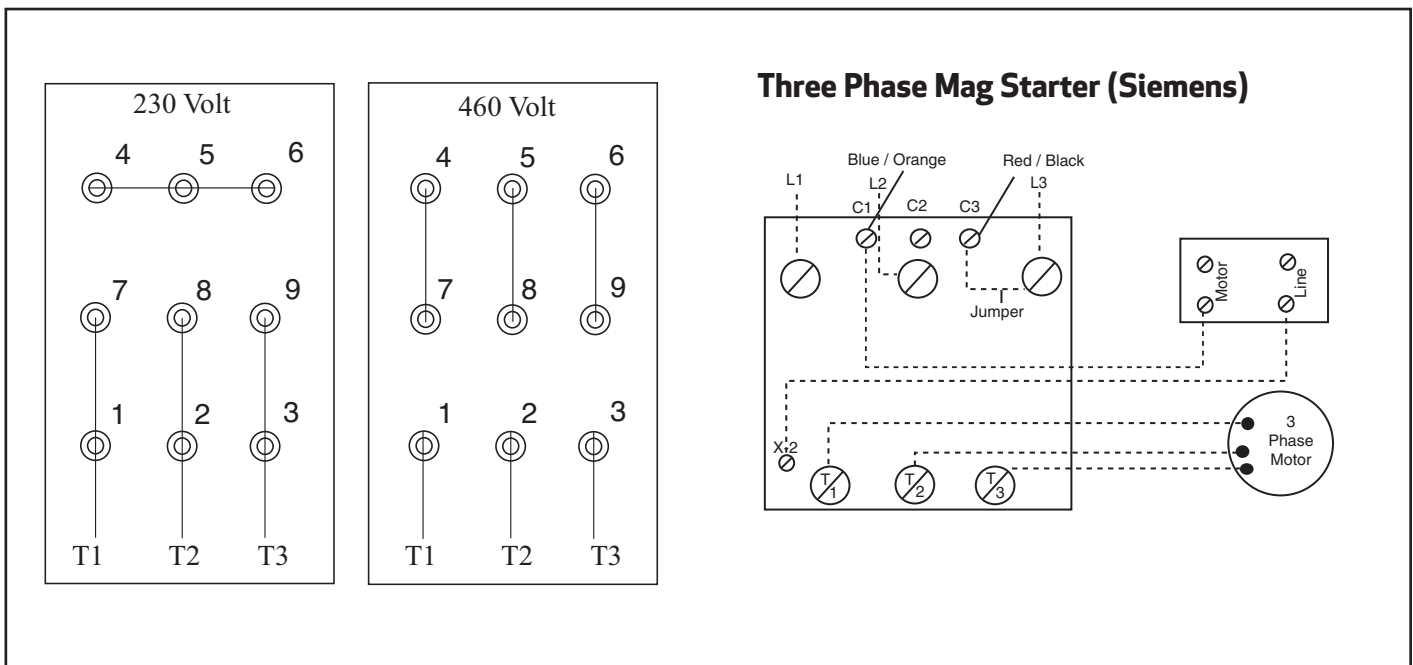
Wiring Diagrams

1. Interchange any two line leads to reverse rotation.
2. Motor should rotate clockwise facing end opposite shaft extension.

Wiring for Single Phase Electric Motor



Wiring for Three Phase Electric Motor



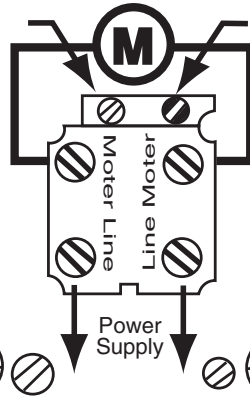
Electric Pressure Switch Adjustment:

✓ Make Adjustments Here



Switch With Suffix "L" Are Rated 120 VDC

Turn clockwise to increase both Cut - out and Cut - in pressure



Turn clockwise to increase Cut - out pressure with out affecting Cut - in

⊘ Do NOT Adjust This Screw



D55671-203

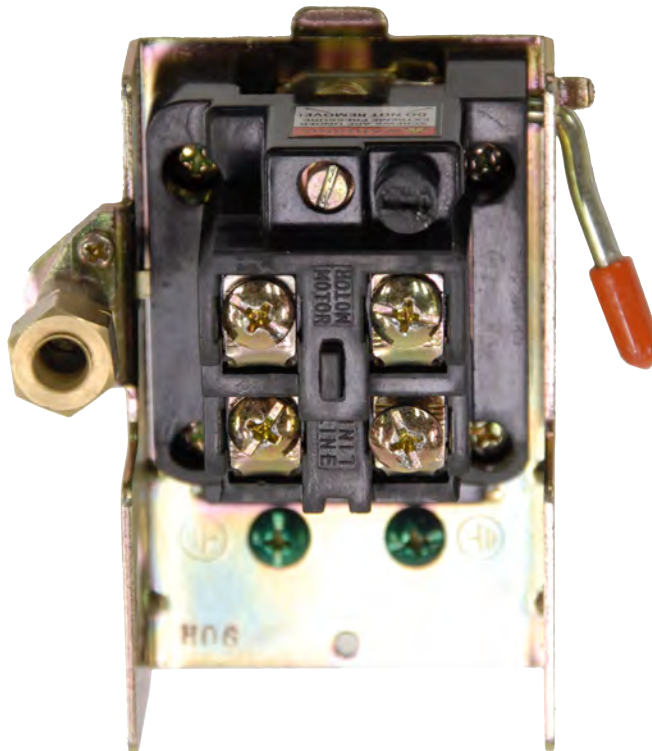
SERIES A

TORQUE TERMINAL SCREWS TO 20 LB IN
CU 00/75° C WINE

ON 140
(CUT - IN) PSI
OFF 175
(CUT - OUT)



Listed
Ind. Cont.
Eq.A163



Part #82779

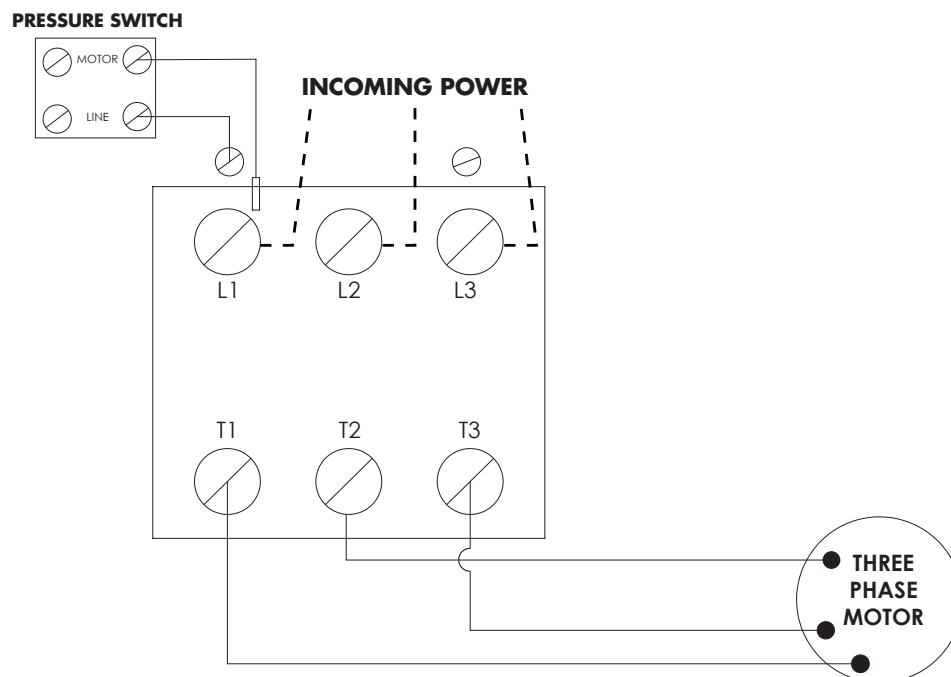
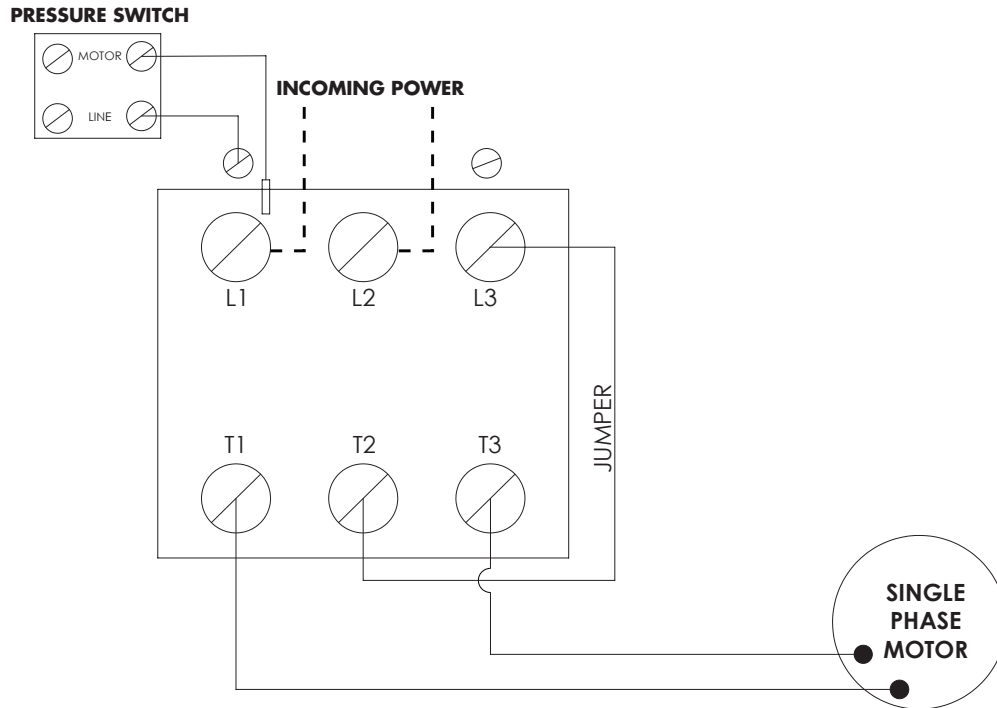
WIRING DIAGRAM

1. Rewire motor per data plate on motor or instruction sheet.
2. Check pressure switch electric rating and replace if necessary.
3. Check electric rating of adjustable over load magnetic starter and replace complete magnetic starter if needed.

Incoming Power to be wired to Magnetic Starter only!

L1, L2, L3 indicates supply line terminals.

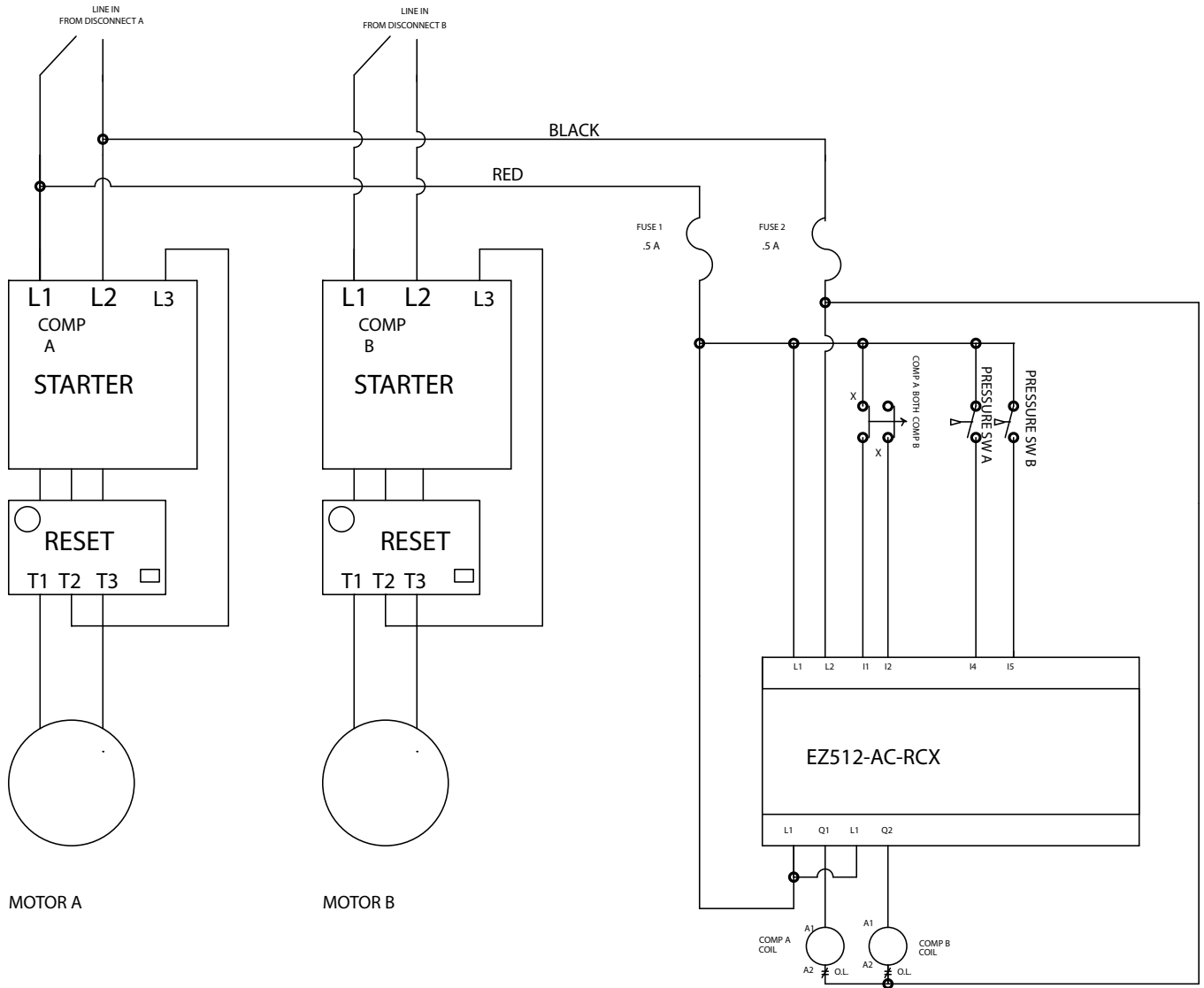
T1, T2, T3 indicates load terminals.



DUPLEX UNITS ONLY

Wiring Diagram for 82289051

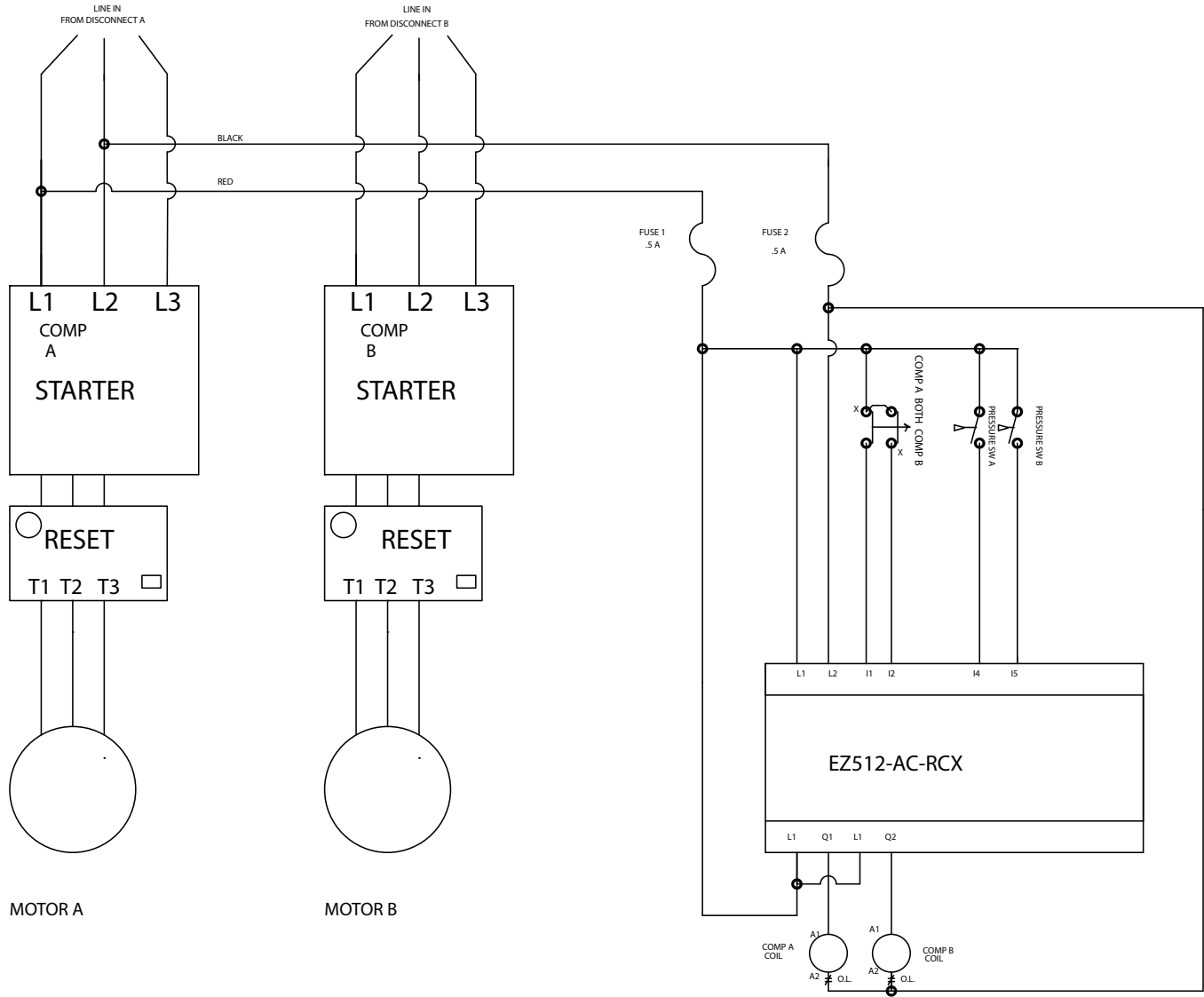
Single Phase 208/230 Volt Controller/Magnetic Starters



DUPLEX UNITS ONLY

Wiring Diagram for 82289049

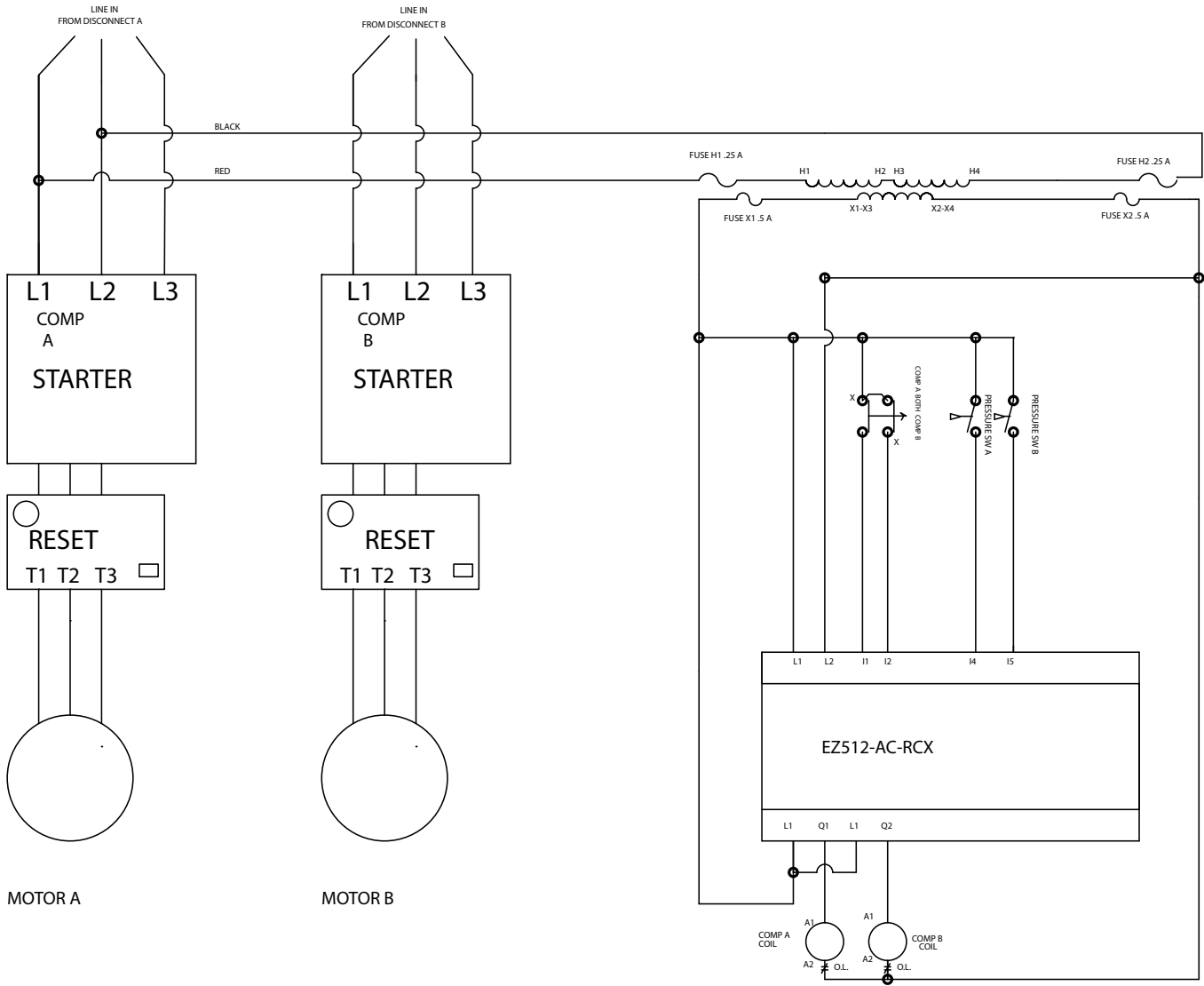
Three Phase 208/230 Volt Controller/Magnetic Starters



DUPLEX UNITS ONLY

Wiring Diagram for 82289050

Three Phase 480 Volt Controller/Magnetic Starters



Wiring Recommendations

Installation or modifications should be made by a competent electrician being sure that:

1. Magnetic starters with *Adjustable Overloads* are properly adjusted for valid motor warranty and unit protection.
2. The power source is sufficient and service has adequate ampere rating. (See following chart).
3. The supply line has the same electrical characteristics (voltage, cycles, and phase) as the motor.
4. The line wire is the proper size and that no other equipment is operated from the same line. The following chart gives minimum recommended wire sized for compressor installations. For longer lines, follow your local electrical guide lines.

Example:

- A) Customer has a 5 HP single phase air compressor. The wire from the breaker box to the unit is 55' the wire size should be # 6.
- B) Customer has a 5 HP single phase air compressor. The wire from the breaker box to the unit is 105' the wire size should be # 4.

Various national and local codes and standards have been set up covering electrical apparatus and wiring. These should be consulted and local ordinances observed. Our recommended wire sizes may be larger than the minimum set up by local ordinances to prevent excessive line voltage drop.

Once the correct HP has been selected based on the air volume requirements, you will need to know the type of available electric service to determine whether you require a single phase or three-phase compressor.

NOTE: Refer to Wire and Breaker Sizing Chart below.

WIRE GAUGE – RUBBER COVERED					
HP	Wire Length	Single Phase	Single Phase	Three Phase	Three Phase
	208V	230V	230V	460V	
5	50' or less	8	8	10	14
7.5	50' or less	6	6	10	14
10	50' or less			8	14
15	50' or less			6	10
20	50' or less			4	10
25	50' or less			3	8
30	50' or less			2	8

IMPORTANT NOTES!

- Increase wire size up to next size when the length of the wire exceeds a 50' increment.
Example: A 65' length should use a one-gauge step up from the 50' demand.
If 8-gauge is suggested for 50', 6-gauge should be used when extending the application to 65'.
- Only Rubber Covered or Sheathed Wire should be used.
- A Licensed Electrician should perform all Electrical Connections in compliance with all state and local electrical codes.
- Failure to comply with all wiring instructions, including breaker sizes, wire sizes, and recommended wire length will void all warranties on electrical parts.
- Some regions of the country have inadequate power supply to properly support compressor operation.
- Check to see if current electric service meets the requirements of the specific compressor.

BREAKER SIZE				
HP	Single Phase	Single Phase	Single Phase	Three Phase
	208V	230V	230V	460V
5	60	60	30	15
7.5	80	80	45	20
10			60	25
15			80	40
20			120	60
25			150	75
30			180	90

Piston Compressor Pumps

1. Duty Cycle

A duty cycle is the amount of run loaded time a compressor operates in a hour or day.

- Industrial piston compressors are designed for a 70% maximum duty cycle. The ideal duty cycle for piston compressors is 50%.
- To determine duty cycle measure the amount of time the compressor is running loaded in an hour and the time the compressor is not running loaded or off.
 - For example, if time running is 40 minutes per hour and time off 20 minutes per hour then the ratio is 40 out of a potential 60 minutes per hour or a 66% duty cycle. (40/60 = 66%)

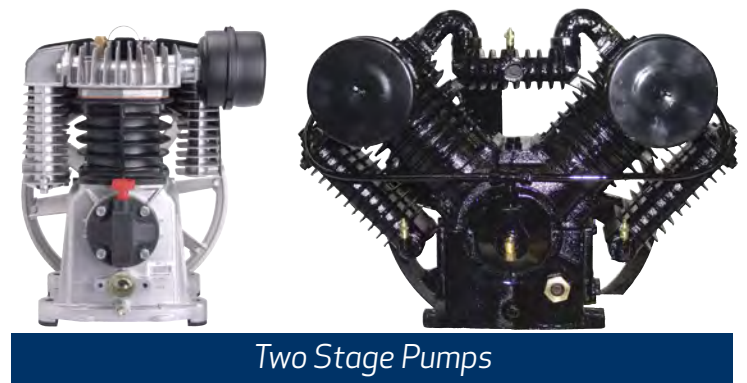
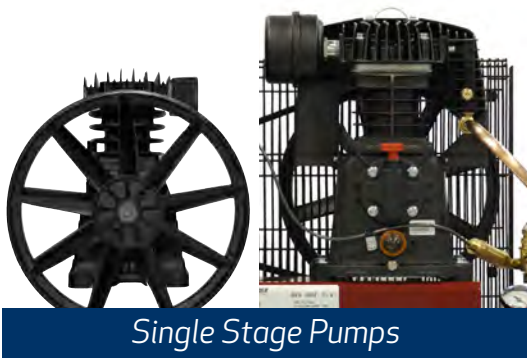
There are applications where a compressor may run a high duty cycle for a short period each day. It is difficult to determine if this type of application causes premature wear of the compressor pump. When an air cooled piston compressor runs at too

high a duty cycle the pump temperature rises. The temperature on the heads can exceed 400°F when the duty cycle is exceeded. In these instances, the oil temperature also exceeds the recommended range. This causes the oil to loose viscosity and the ability to lubricate. The pump will begin to carry over excessive amounts of oil.

Oil carry over is the leading cause of premature compressor failure. This results in complaints from the customer of excessive oil consumption and premature valve failure.

Solutions

1. Increase compressed air supply to the system
2. Find and repair air line leaks
3. Identify and isolate a machine/tool that is using more CFM than specified
4. Time the compressor to compute CFM consumption to determine proper compressed air supply.



Pump Terms & Definitions

Single Stage Pumps

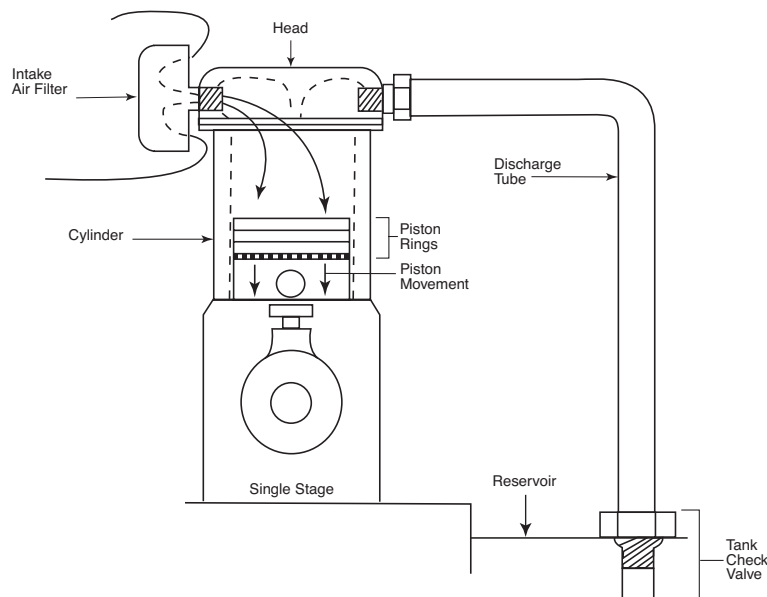
A single stage pump pulls air from the atmosphere, compresses it, and then pumps air directly into the tank. This is the same for one cylinder or ten. Because this piston is compressing so much air at a time, there is friction and resistance which causes high temperatures. When the pressure passes the 135 PSI mark, the pump becomes less and less efficient.

Two Stage Pumps

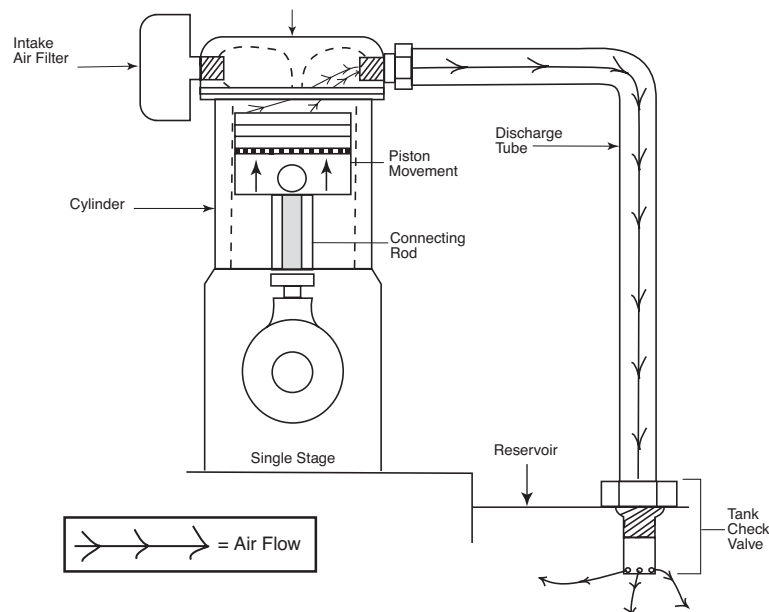
A two-stage pump pulls air into the cylinder during the first stage and then forces that air to the second stage (cylinder at 60 PSI - exhibit d). The second stage compresses the air to 175 PSI and then pumps it into the tank. The 2nd stage decreases heat and friction, increasing the efficiency of the pump delivering less heat, less water, and more pressure in reserve units. A two-stage duty cycle is about 50%, whereas a Commercial or Industrial cycle is 75%.

Single Stage Pumps

a. Air In

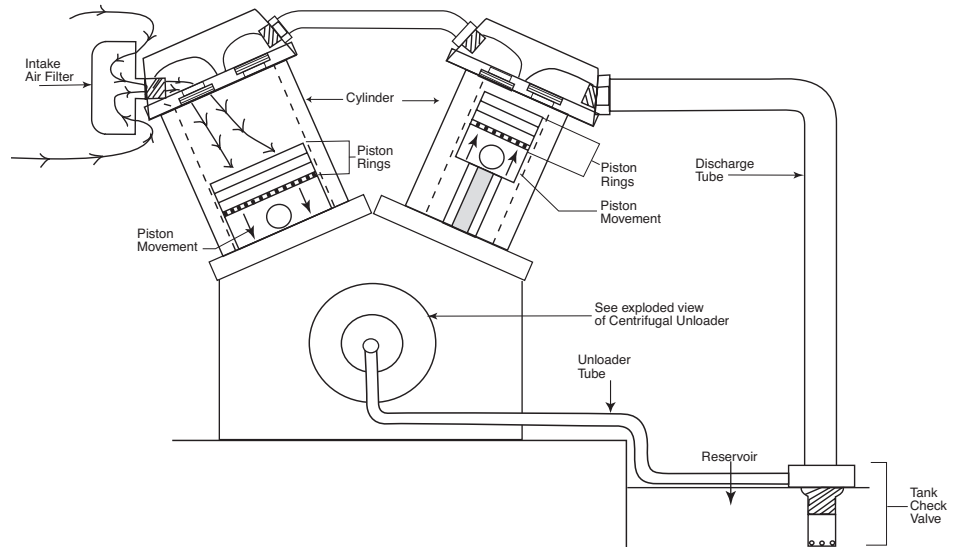


b. Air Out

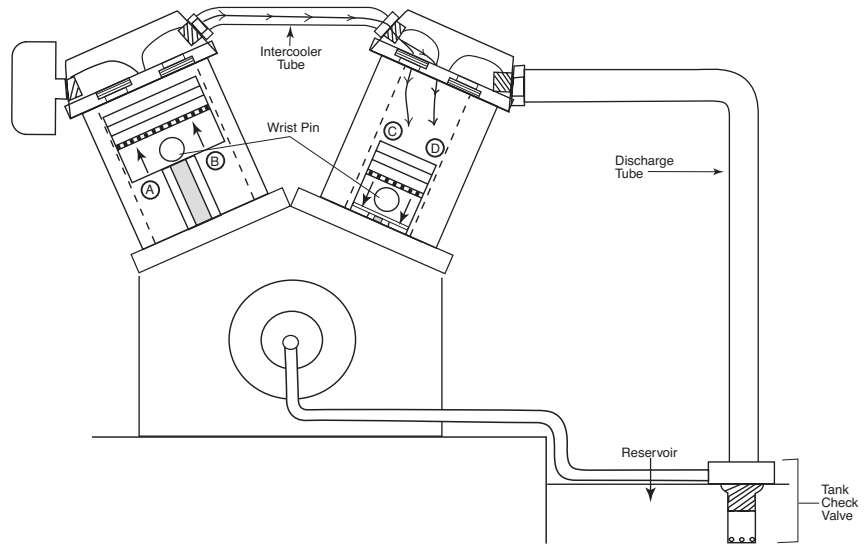


Two Stage Pumps

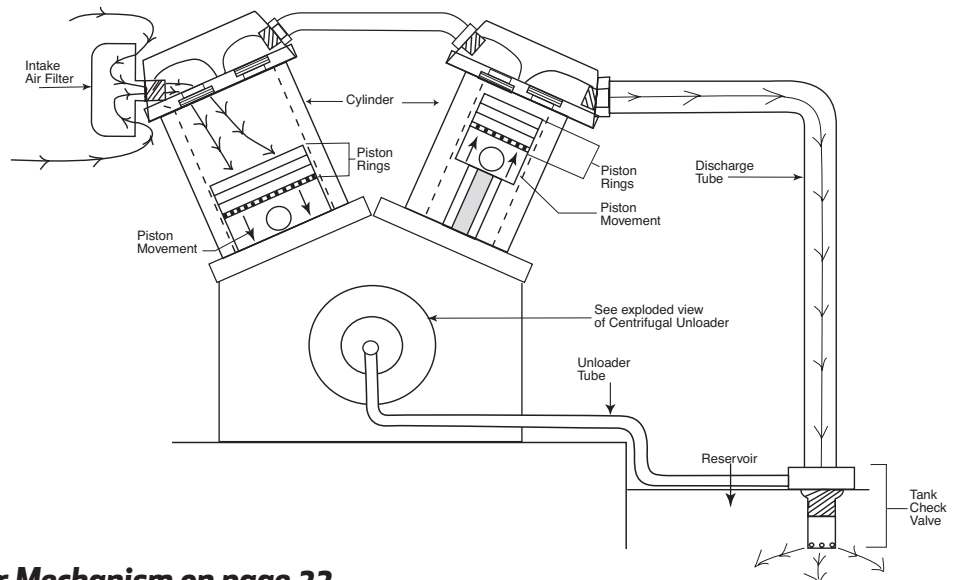
c. Air Intake, First Stage



d. Air Exhaust, First Stage Air Intake, Second Stage (60 PSI)



e. Air Out, Second Stage

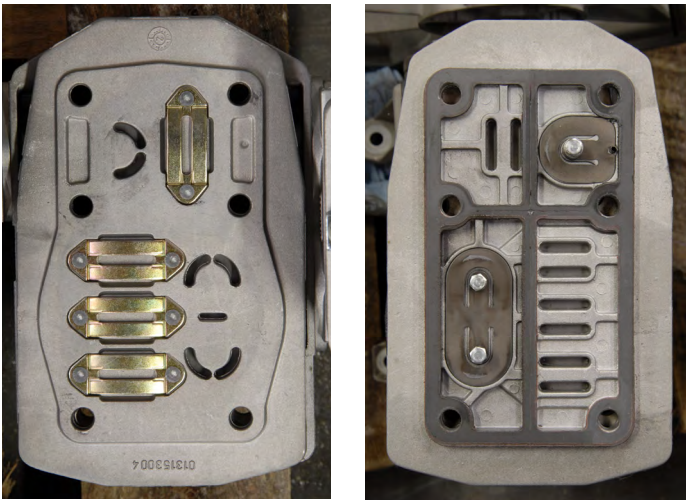


See Centrifugal Unloader Mechanism on page 22.

Pump Valves

Flapper or Reed Valves

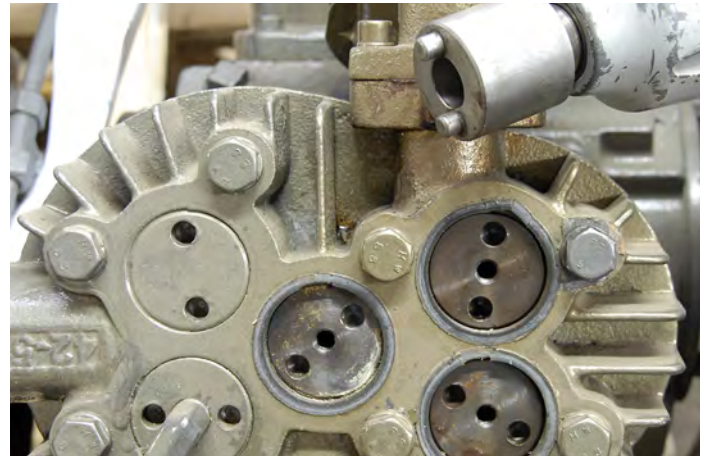
Flapper or reed valves are a low cost valve design that is used on most of the lower cost compressors. This valve design allows compressor pumps to run at a higher rpm than disc and spring valves. The flapper valves have a single point of stress. There are typically more gaskets involved in a flapper valve design. This makes for more difficult service and inspection.



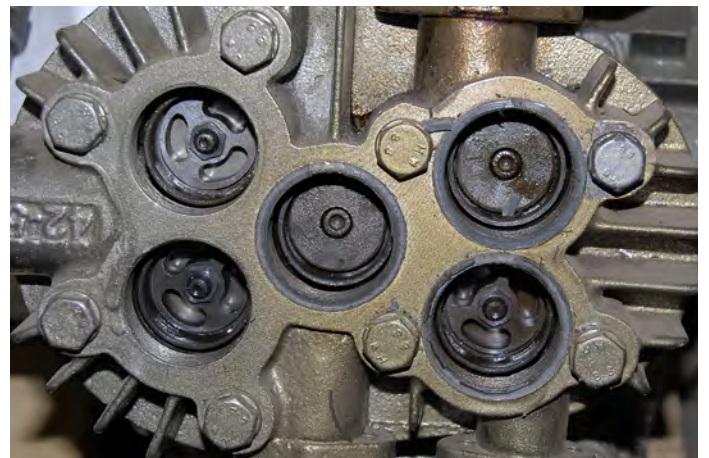
Reed (or flapper) Valves, top and bottom.

Disc and Spring Valves

The disc and spring valve design is considered the best piston compressor valve design. The valve consists of a valve body with seat. A valve disc and a valve spring. The valve disc is a free floating disc that is returned to its seat by a spring. Pumps with a disc and spring valve typically run at lower rpm. When you try to run this type of valve system at too high of RPM the valve disc may float and not return to the seat before the next compression stroke. The valve disc is a much thicker than the material for flapper valves. Disc and spring valves are designed to make for a longer design run life.

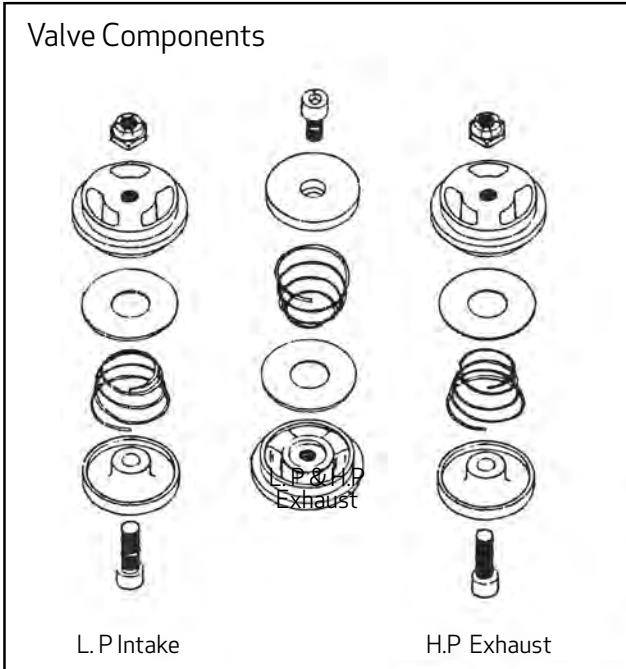


Spanner Wrench with Disc and Spring Valves



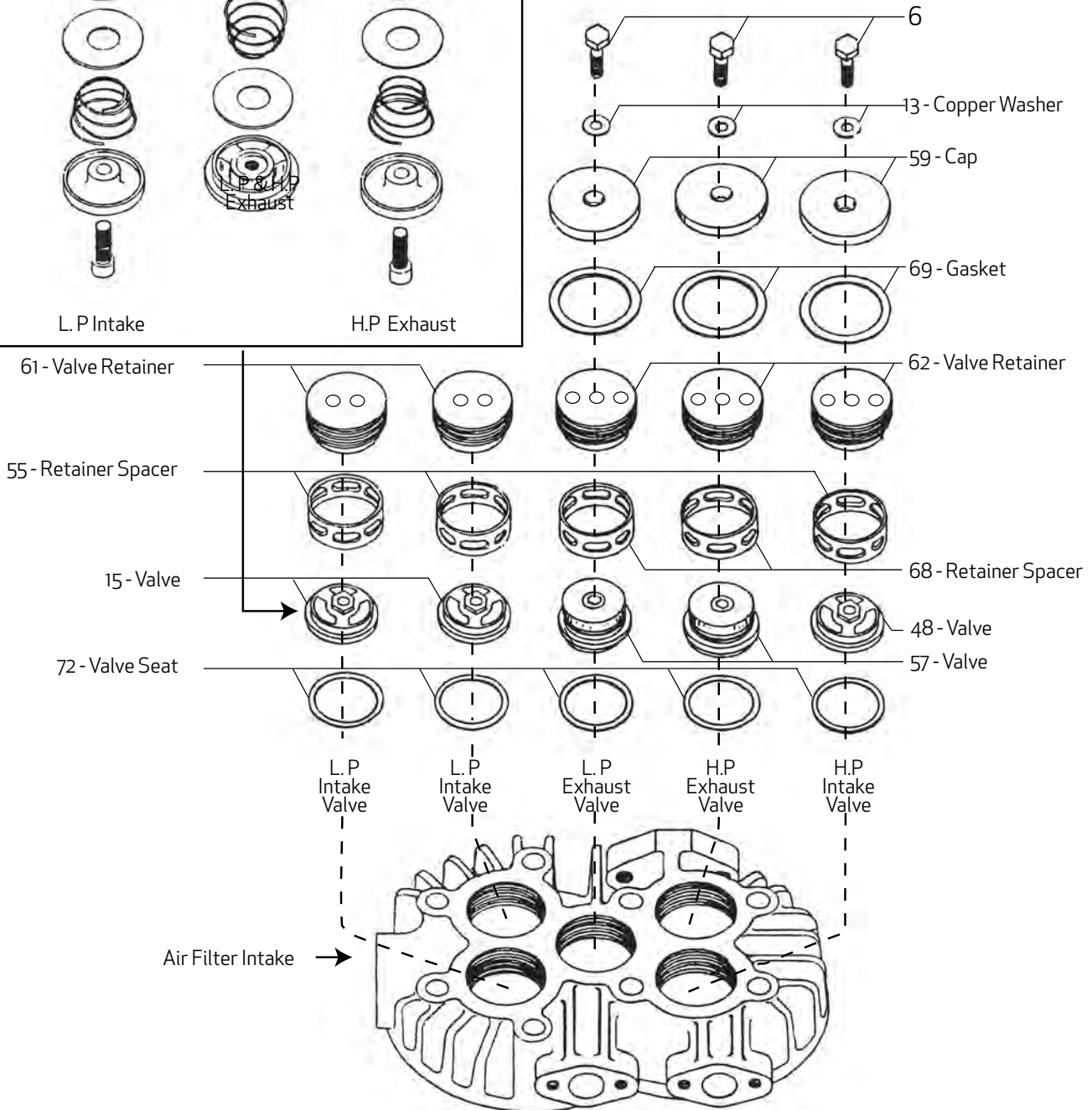
CYLINDER HEAD

Order #82288787 Spanner Tool, to remove Valves.



Air Compressor Cylinder Head Parts Breakdown

Torque: Foot lbs.
 Head bolts: 55
 Valve retainer: 80



Common valve issues

Flapper or reed valves

1. Blown gasket between high and Low pressure side of head.
 - a. Possible symptom: pump has air coming out of the intake pump and appears to run very hot.
2. Broken valve: Valve may break near stress points.
 - a. Possible symptom: low pump performance, low pressure safety valve blowing off.
3. Valve will not seat: Heat may warp valve or carbon can build up on valve preventing it from seating.
 - a. Possible symptom: poor pump performance, low pressure safety valve blowing off.

Disc and spring valves

1. Broken spring.
 - a. Possible symptom: Low pressure safety valve blowing off. Pump performance
2. Broken valve disc.
 - a. Possible symptom: Low pressure safety valve blowing off. Pump performance
3. Valve seat has carbon build up.
 - a. Possible symptom: Low pressure safety valve blowing off. Pump performance



Carbon build-up on disc style valves

Piston Rings

No matter the type of piston compressor they all have rings. There are two type of rings on all Schrader air compressors.

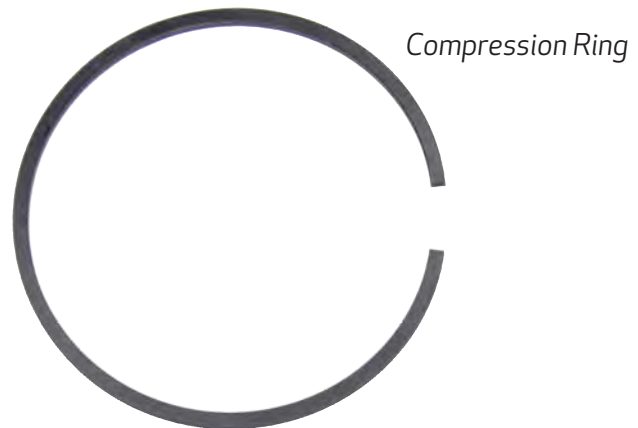
Compression rings

Designed to keep the air on top of the piston and minimize the blow by.

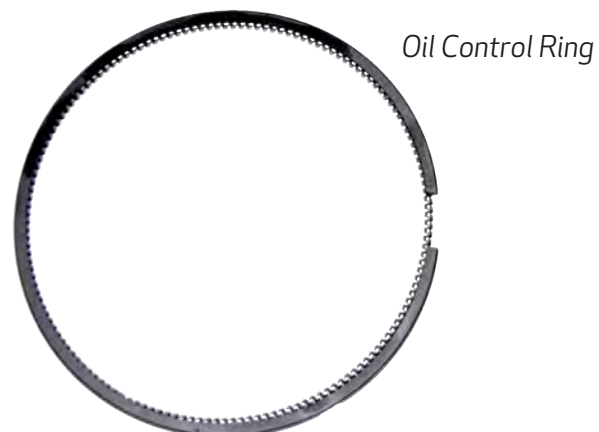
Oil control rings

Designed to keep oil at the top of the cylinders and keep the compression rings lubricated.

- The rings are designed to wear into the cylinder walls.
- You will often notice the oil color changes sooner on a new pump as the rings seat into the cylinder walls. As the rings wear over time they will loose their ability to compress air and control oil carry over.
- Premature replacement of rings can be avoided by proper lubrication and correct duty cycle.



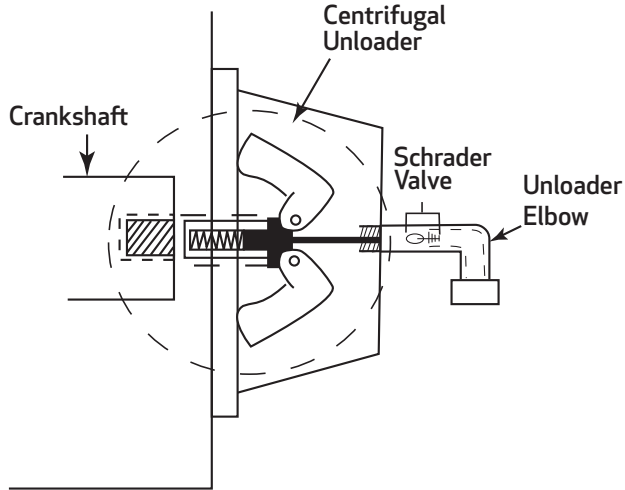
Compression Ring



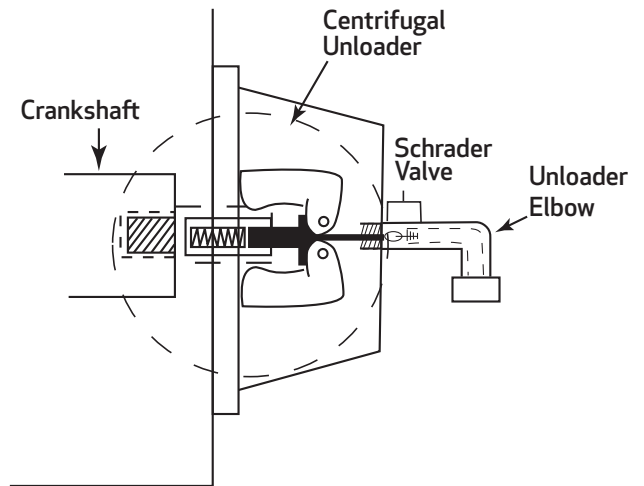
Oil Control Ring

Unloaders

Centrifugal Unloader Mechanism



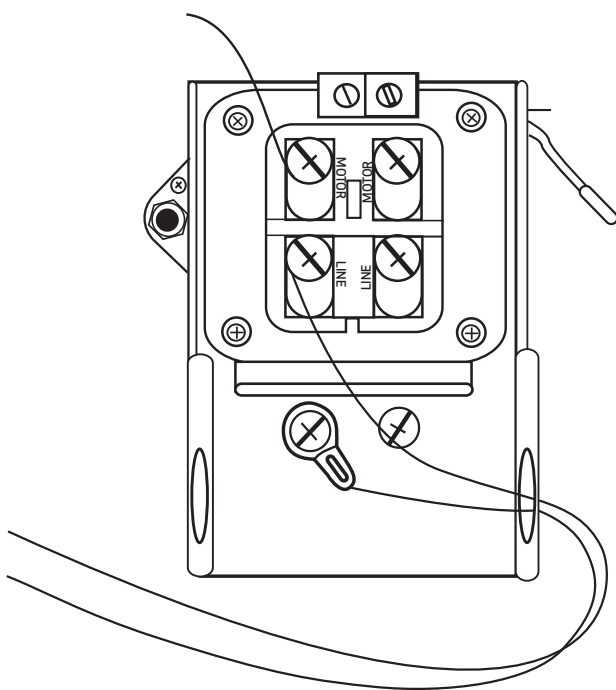
While the compressor is operating, weights swing out, pulling stem inward, this pulls the stem away from the Schrader Valve allowing the Schrader Valve to close.



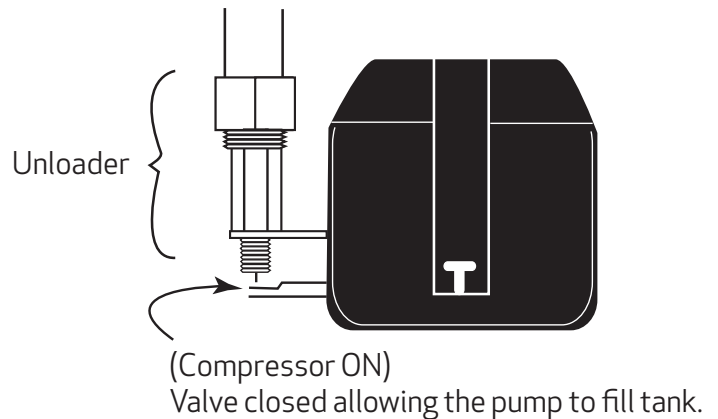
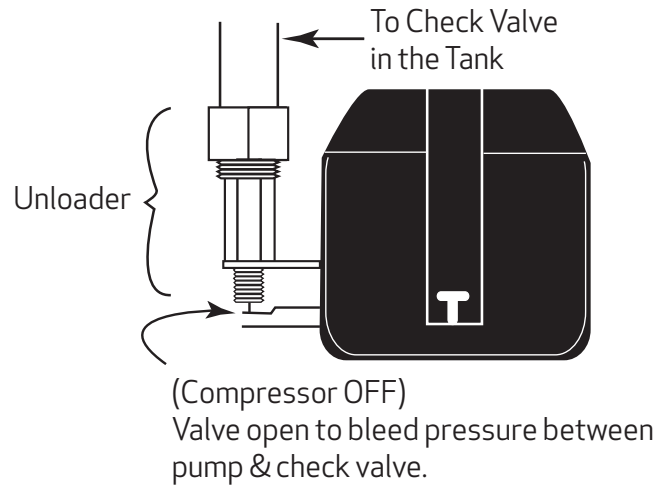
While the compressor is at rest the weights pull in which pushes the stem outward to depress the Schrader Valve. This releases the air trapped between the check valve and head of pump.

Mechanical Unloader

Pressure Switch
Front view with no cover



Pressure Switch
Side view with cover



Routine Service Piston Pumps

Turn off the power. Confirm with tester.

Daily

- Check proper oil level
- Drain moisture from receiver
- Check for loose bolts, unusual noise or vibration
- Check operating pressure

Weekly

- Clean Air filter (change as needed)
- Clean off compressor and motor (blow out as needed)
- Test all safety valves (make sure they function properly)

Monthly

- Inspect entire unit for air and oil leaks
- Inspect crank case oil. If contaminated change with fresh oil
- Check drive belts for wear and tension

Every 3 months

- Change oil
- Inspect valve assemblies

Routine Service Piston Pumps

Yearly

- Replace check valve.
- Replace drive belts
- Replace tank pet cock
- If motor has greased bearings, lubricate bearings.



NEW
(clean) air filter



OLD
(dirty) air filter



Proper Installation

Be sure that:

- Unit is in compliance with electrical code and properly sized,
- Unit runs at or under the service factor amps on motor name plate,
- Electric motor rotation is correct,
- Unit runs at the correct pressure,
- Tank is properly installed on vibration isolator pads,
- Belt guard is at least 18" from wall,
- Compressor area has adequate ventilation,
- Compressor area is free from contaminates,
- There is adequate room to access and perform service on compressor,
- Air line has vibration isolating flex line,
- Air line meets local code and is OSHA compliant.

Proper Air Compressor Sizing

Since there are many variables in determining which compressor is right for a specific job (Size of building, size of air lines, conditions of the shop, number of techs working from the system, hours the shop is open, etc) we can only make a suggestion as to where you start is determining which unit is correct for your job requirements. We do recommend that if you have doubts, please contact the Schrader Tech Service for assistance before finalizing your decision.

TO GET STARTED, "WHAT SIZE OF AIR COMPRESSOR DO I NEED?"

This question can be answered by knowing the air requirements or cubic feet per minute, or "CFM", of the tools you are using or plan to use. Calculate your tool's air requirement: (See chart to right). Some tools consume more air than others. Tools such as pneumatic nail-guns and staplers consume smaller amounts of air, while pneumatic wrenches, air grinders and paint sprayers consume larger amounts. Most tools have a usage rating for CFM consumption at a recommended PSI. This can be found on the tool itself or in the owner's manual supplied by the tool manufacturer or in the Schrader-Air Compressor Catalog. If you are the only person using the compressor, you should find the tool you will use that requires the largest CFM. Use this CFM to determine the size of compressor you need.

If more than one tool will be used at any one time, add up the CFM for all the tools that will be used at the same time (from largest CFM to smallest) and use this total CFM to determine the size of the compressor you need. Now you know the required demand CFM you need.

USE DEMAND CFM RATING To correctly size the right compressor, you will need to understand the difference between "displaced" CFM and "delivered" CFM or "free" air. Displaced CFM is the CFM produced by a compressor working in a perfect environment at 100% efficiency. This rating can be misleading. On paper it is the result of a mathematical equation (Bore x Stroke x Rpm). No compressor is 100% efficient! Therefore you should make sure to go by demand CFM.

Industrial Equipment CFM Requirements

Based On Normal Usage		Requirements Based On Tools Being Used 25% Of The Time	
Tools Used	CFM	Portable Tools	CFM PSI Range
Drill, 1/6 to 3/8"	6.3	Air Filter Cleaner	3.0 70 to 100
Drill, 3/8 to 5/16"	8.8	Body Polisher	2.0 70 to 100
Screwdriver, #2 to #6 Screw	3.0	Body Sander, Orbital	5.0 70 to 100
Screwdriver, #6 to 5/16" Screw	6.0	Brake Tester	3.5 70 to 100
Tapper, to 3/8"	5.0	Carbon Remover	3.0 70 to 100
Nut-setters, to 3/8"	6.0	Dusting Blow Gun	2.5 90 to 100
Nut-setters, to 3/4"	7.5	Drill, 1/16 to 3/8"	4.0 70 to 90
Impact Wrench, 1/4"	3.8	Impact Wrench, 3/8"	
Impact Wrench, 3/8"	5.0	Square Drive Impact Wrench, 1/2"	2.0 70 to 90
Impact Wrench, 1/2"	7.5	Square Drive Impact Wrench, 3/4"	3.5 70 to 90
Impact Wrench, 3/4"	8.8	Square Drive Impact Wrench, 1"	7.5 70 to 90
Impact Wrench, 1 1/4"	13.8	Die grinder	5.0 70 to 90
Die grinder, Small	3.8	Vertical Disc Sanders	10.0 90 to 100
Die grinder, Medium	6.0	Filing/Sawing Machine Small	3.0 90 to 100
Horizontal grinder, 2"	5.0	Filing/Sawing Machine Large	5.0 90 to 100
Horizontal grinder, 4"	15.0	Burring Tool	5.0 90 to 100
Horizontal grinder, 6"	15.0	Tire Rim Stripper	6.0 125 to 150
Horizontal grinder, 8"	20.0	Tire Changer 1	1.0 25 to 150
Vertical grinders & Sanders 5" Pad	8.8	Tire Inflation Line	1.5 125 to 150
Vertical grinders & Sanders 7" Pad	15.0	Tire Spreader	1.0 125 to 150
Vertical grinders & Sanders 9" Pad	17.5	Air Hammer	4.0 90 to 100
Burring Tool, Small	3.8	Tire Hammer	12.0 90 to 100
Burring Tool, Large	6.0	Bead Breaker	12.0 125 to 150
Rammers, Small	3.3	Spring Oiler	4.0 90 to 100
Rammers, Medium	8.5	Spray Gun Engine Cleaner	5.0 90 to 100
Rammers, Large	10.0	Production Paint Spray Gun	8.5 90 to 100
Backfill Tamper	6.3	Touch-Up Paint Spray Gun	3.5 90 to 100
Compression Riveter 0.2 cu. ft. per cycle	0.2	Undercoat Paint Spray Gun	19.0 90 to 100
Nailers and Staplers	8.0	grease Gun	3.0 120 to 150
Riveter	6.0	Hydraulic Lift	6.0 145 to 175
Paint Spray Gun	5.0	Hydraulic Floor Jack	6.0 125 to 150
Scaling Hammer	3.0	Pneumatic Garage Door	3.0 120 to 150
Chipping Hammer	7.5	Radiator Tester	1.0 90 to 100
Riveting Hammer	7.5	Transmission/Differential Flusher	3.0 70 to 100
Circular Saw, 8"	11.3	Fender Hammer	9.0 70 to 100
Circular Saw, 12"	16.3	Medium-Duty Sander	40.0 70 to 100
Lightweight Chain Saw	18		90 to 120
Heavy Duty Chain Saw	124		90 to 120

SELECT THE RIGHT COMPRESSOR

Take the demand CFM and add 20%. This is the number you will use to make your selection. Match up the total demand CFM with the "delivered" CFM rating for the compressor. Refer to the CFM Chart above.

Tank Sizing

If air usage is a steady even flow, a large or small reserve makes no difference. If the air demand changes rapidly, the reserve can make a marked difference in performance.

Example 1.

A shop has three technicians who are sanding, **two** with **6 CFM** orbital sanders, and **one** with a **10 CFM** in-line sander. Their total average use is **22 CFM**. A **5 HP, 16 CFM**

compressor with a 120 gallon tank would allow them to work for approximately **5-10 minutes** depleting the reserve resulting in at least a 5 minute re-compression period.

A **7½, 24 CFM** compressor would meet requirements but it would run **92%** of the time. A **10 HP power 32 CFM** would be better suited for this shop and would run about **65%** of the time during use.

Example 2.

A shop employs 5 technicians who at any given time, operate an old air over hydraulic lift, a one coat 50/50 tire machine, never use more than one impact wrench at a time (10 CFM), and service tires, oil changes and brakes.

A **13 CFM, 5 HP 60 gallon tank, mid line compressor** will operate their impact trouble free. The first time the lift is raised while another technician is seating the bead on the tire changer, they will have to wait for the lift to raise because there is a chance all air will be lost. After a five minute delay the compressor will shut down and go back to work again. A **5 HP 120 16 CFM, 82-349HAT** is a better choice for this shop because the every day normal usage is light, but at times large volumes of air are needed and the 120 gallon reserve would cover other demands.



Compressor Installation Requirements

Once the correct HP has been selected based on the air volume requirements, you will need to know the type of available electric service to determine whether you require a single phase or three-phase compressor.

NOTE: Refer to Wire and Breaker Sizing Chart below.

WIRE GAUGE – RUBBER COVERED

HP	Wire Length	Single Phase	Single Phase	Three Phase	Three Phase
	208V	230V	230V	460V	
5	50' or less	8	8	10	14
7.5	50' or less	6	6	10	14
10	50' or less			8	14
15	50' or less			6	10
20	50' or less			4	10
25	50' or less			3	8
30	50' or less			2	8

IMPORTANT NOTES!

- Increase wire size up to next size when the length of the wire exceeds a 50' increment.
Example: 65' should use a one-gauge step up from the 50' demand.
If 8-gauge is suggested for 50', 6-gauge should be used when extending the application to 65'.
- Only Rubber Covered or Sheathed Wire should be used.
- A Licensed Electrician should perform all Electrical Connections in compliance with all state and local electrical codes.
- Failure to comply with all wiring instructions, including breaker sizes, wire sizes, and recommended wire length will void all warranties on electrical parts.
- Some regions of the country have inadequate power supply to properly support compressor operation.
- Check to see if current electric service meets the requirements of the specific compressor.

BREAKER SIZE

HP	Single Phase	Single Phase	Single Phase	Three Phase	Three Phase
	120	208V	230V	230V	460V
5	20	60	60	30	15
7.5	30	80	80	45	20
10				60	25
15				80	40
20				120	60
25				150	75
30				180	90

Questions to Ask...CHECK LIST:

- | | | |
|--|--|---|
| <input type="checkbox"/> How will the unit be used? | <input type="checkbox"/> Is the electric service single or 3 phase? | <input type="checkbox"/> What type of pipe is being used for the air system delivery lines? |
| <input type="checkbox"/> Number of Techs in the shop? | <input type="checkbox"/> What is the Wire Size from Control Panel to Unit? | <input type="checkbox"/> What is the trunk line I.D.? |
| <input type="checkbox"/> How many working hours per day? | <input type="checkbox"/> What is the Distance from Control Panel to unit? | Do Not Forget...Mounting Kit, Drains, Filters/Regulators/Lubricators, Couplers & Fittings. |
| <input type="checkbox"/> What air tools will be used? | <input type="checkbox"/> What is the Breaker Size? | |
| <input type="checkbox"/> What is the CFM/SCFM demand? | | |
| <input type="checkbox"/> What electrical service is in the shop? | | |

PIPE SIZING

CFM

Demand	25'	50'	75'	100'	150'	200'	250'	300'
1 - 5	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
6 - 10	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
11 - 15	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
16 - 20	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
21 - 25	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
26 - 30	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
31 - 35	3/4"	3/4"	1"	1"	1"	1"	1"	1"

Under-sizing the pipe can cause the following problems:

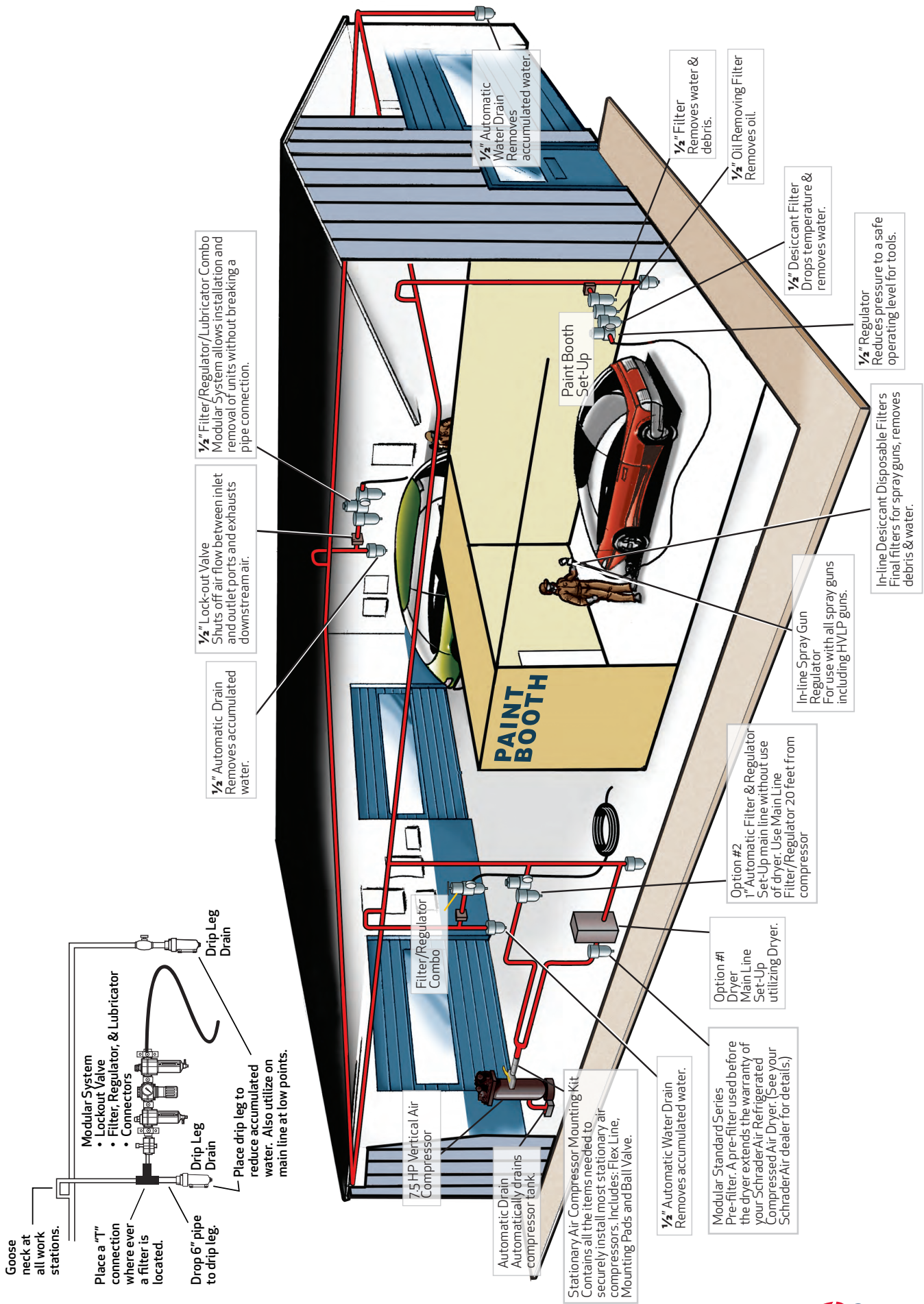
1. Air tools do not get the proper Air Volume to operate at peak performance.
2. Air pressure will vary across the shop from workstation to work station. The farther away from the air compressor the workstation is located, the less air volume the station will receive.
3. Smaller pipe can force moisture in the pipe to travel in to the airdrops in the system.
4. Less storage capacity. Bigger pipe can be used as extra storage (like having a bigger tank).
5. Does not allow for future expansion (additional bays, more techs etc.)

Four (4) most often used types of Pipe (best to worst)

1. Stainless Steel: Pros Good Heat Transfer, Non-Corrosive
Cons Expensive, Hard to install
2. Copper: Pros Good Heat Transfer
Less corrosive than most other pipe
Cons Expensive, hard to install, need special skills to install
3. Galvanized Pros Good heat transfer. Not as expensive
Cons Skilled installation needed,
4. Black Iron Pros Good heat transfer
Cons Rust problems, hard to install, need special skills & tools to install.

DO NOT USE PVC

- Banned by OSHA for Compressed Air.
- Retains Heat and Moisture.
- Acts as an insulator.
- DANGEROUS - CAN BURST OR SHATTER.



Goose neck at all work stations.

- Place a "T" connection where ever a filter is located.
- Lockout Valve
 - Filter, Regulator, & Lubricator
 - Connectors

Drop 6" pipe to drip leg. Place drip leg to reduce accumulated water. Also utilize on main line at low points.

1/2" Automatic Drain Removes accumulated water.

1/2" Lock-out Valve Shuts off air flow between inlet and outlet ports and exhausts downstream air.

1/2" Filter/Regulator/Lubricator/Combo Modular System allows installation and removal of units without breaking a pipe connection.

7.5 HP Vertical Air Compressor

Automatic Drain Automatically drains compressor tank.

Stationary Air Compressor Mounting Kit Contains all the items needed to securely install most stationary air compressors. Includes: Flex Line, Mounting Pads and Ball Valve.

1/2" Automatic Water Drain Removes accumulated water.

Modular Standard Series Pre-filter. A pre-filter used before the dryer extends the warranty of your Schrader Air Refrigerated Compressed Air Dryer. (See your Schrader Air dealer for details.)

Option #1 Dryer Main Line Set-Up utilizing Dryer.

Option #2 1" Automatic Filter & Regulator Set-Up main line without use of dryer. Use Main Line Filter/Regulator 20 feet from compressor

Filter/Regulator Combo

PAINT BOOTH

Paint Booth Set-Up

In-line Spray Gun Regulator For use with all spray guns including HVLP guns.

In-line Desiccant Disposable Filters Final filters for spray guns, removes debris & water.

1/4" Desiccant Filter Drops temperature & removes water.

1/4" Regulator Reduces pressure to a safe operating level for tools.

1/2" Filter Removes water & debris.

1/2" Oil Removing Filter Removes oil.

1/2" Automatic Water Drain Removes accumulated water.

Trouble Shooting

Diagnosing Problems/Trouble Shooting

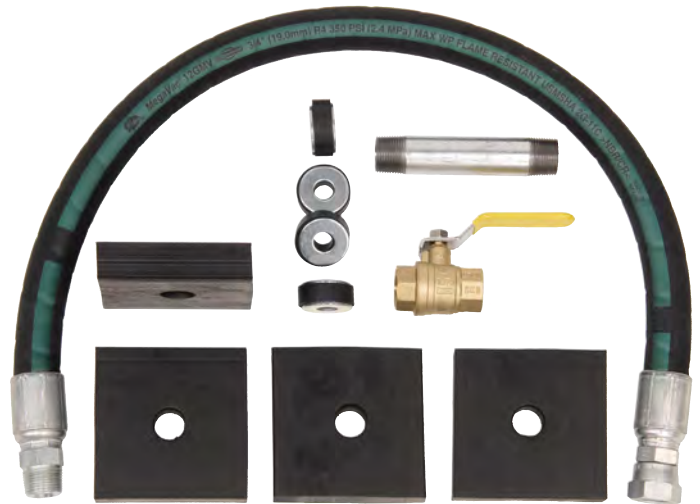
1. Slow Pump:

- A. Close tank from all supply lines, so only the air compressor is being tested.
 - B. Bleed tank to zero and restart. Note how long it requires a two-stage compressor to reach 175 PSI or a single-stage compressor to reach 125 PSI. ("pump up time"). Factory Specs can be obtained from Technical Service on request.
1. If the "pump up time" is within spec. limits, check the system for leaks.
 2. Check belt tension.
 3. Check flywheel and pulley for slack.
 4. If pump up time is slow, bleed unit until it restarts, spray all gaskets, pipe connections, and welded seams checking for leaks. A soapy water solution can be used. Repair any leaks and replace valves if no leaks can be found.
 5. Remove intake air filter, place palm over opening to check air draw. There should be a good intermediate air flow.

2. Vibrations:

- A. Unit should be mounted on a mounting kit part # 824678.
- B. Check for loose belts and pulleys.
- C. Check fasteners on pump, electric motor, and engine.
- D. Gas: Remove belts, and run engine at 3400 RPM. If vibration persists it is coming from the engine. The engine should be sent to a service center for servicing.

Note: If the vibration is gone, the engine could still be at fault because load conditions are not the same without pump resistance. If you are not sure, contact Technical Service for additional recommendations and service center locations.



A stationary air compressor mounting kit is recommended to eliminate vibration and extend the life of your air compressor.

Trouble Shooting (Continued)

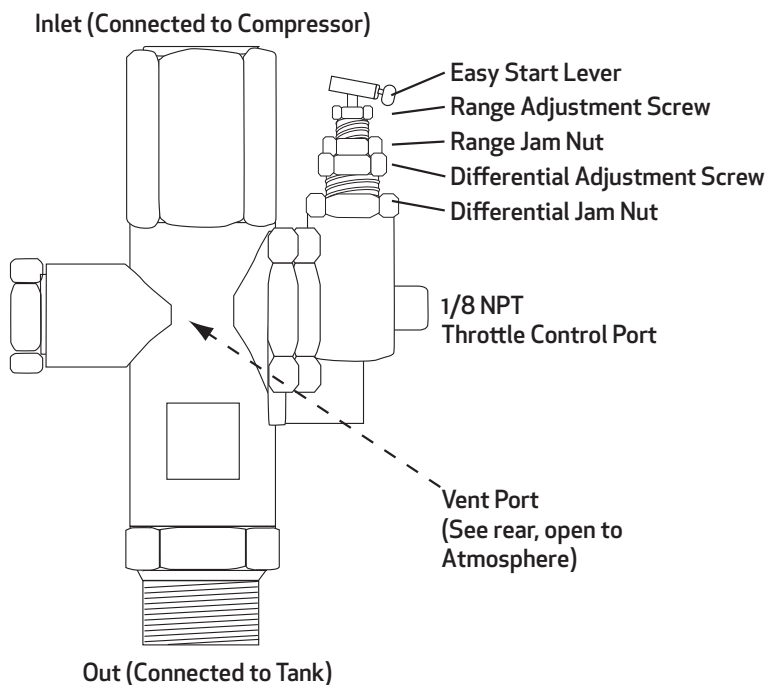
3. Regulator Adjustment for Continuous Run Unloader

Cutout pressure is adjustable from 60 PSI to 175 PSI with the standard silver spring. The differential (difference between cut-out and cut-in pressures) is typically set at the factory at approximately 15% of the cut-out pressure. This is usually a suitable differential and does not need adjusting.

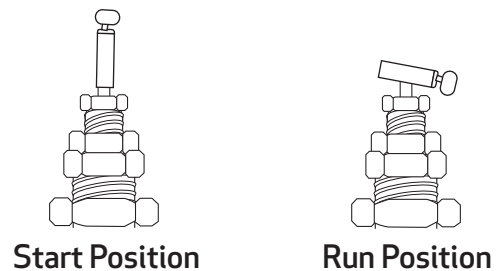
1. Loosen the range screw jam nut.
2. Turn range screw clockwise to raise cut-out and cut-in pressure levels and counter clockwise to decrease cut-out and cut-in levels.
3. Start compressor and note cut-in and cut-out pressures. Make adjustments as necessary using range adjustment screw. When adjustment is acceptable tighten range adjustment screw jam nut.
4. Adjust the cut-in pressure to the desired level per steps, 1, 2, and 3, as shown above.

5. Loosen differential screw jam nut and turn it clockwise to decrease the cut-out pressure. Tighten differential screw jam nut when desired cut-out pressure is set. Since step 5 should not change the desired cut-in pressure set in step 4, adjustment is now complete.

Note: Engine manual throttle is disconnected due to installation of automatic throttle control.



82709



Trouble Shooting (Continued)

4. Hard Start

A. Is the unit housed inside or outside?

Environment can affect performance. If the unit is in an extremely cold area, the oil may be too thick. Add thinner weight oil.

B. Bleed the the tank to zero and restart. If the load is still there, it has nothing to do with the check valve or unloader system. Check the in-coming voltage as close to the electric motor as possible. Check it with the unit off, and then with the unit running. There should not be more than a 3% difference at any time. Check the load amps, keeping in mind that if the voltage is dropping, the amp is probably high. The cause of voltage drop could be the result of using the improper wire gauge to bring electricity to the unit. Check for loose or bad connections. If the unit starts without a problem when bled; listen for air to bleed after unit shuts down and make sure it bleeds pressure and stops after 30 seconds.

C. If it is determined that the power supply and pump are fine, then the electric motor may be at fault. Have motor serviced at a manufacturer's service center.

5. Pump Knock

Check oil level and look for metal shavings and/or metallic luster in the oil. If oil appears clean and without traces of metal, remove belt guard and rotate pump 360 degrees and rock back and forth, feeling for slack or a tight spot in the pump.

There are several reasons for the tightness when rotating a trouble pump.

A. Debris or trash (a valve, gasket, or foreign matter) has lodged between the head and piston. Usually the tight spot stays in the same place during rotation, if debris is the problem.

B. The connecting rod has broken and is making connection with the crankcase wall. Normally this will lock the pump down.

C. If the tight spot moves around while rotating or is tight all the way around, a bearing more than likely has seized.

D. There could be a bad wrist pin or bearing causing the problem.

NOTE: There will be some uneven resistance when rotating a pump, depending on the amount of cylinders present due to compression in each cylinder. This resistance is greater the faster the pump is rotated.

Trouble Shooting (Continued)

6. Tank and Airlines: Oil and Moisture

The tank and airline will have some oil and moisture in them. The unit's application determines whether this matters or not. (See page 34 for Water Accumulation Table.)

A two-stage compressor takes atmospheric pressure and compresses it approximately 8.5 times.

All the oil and water vapors are pushed into the tank where moisture is cooled, condensed, and turned into a liquid. Some

vapors pass straight through into the air system or airlines.

Moisture builds in the tank as the compressor cycles the super heated air from the pump, which blows down on the condensed oil and water in the tank, re-heating and causing the liquid to return to a vapor. This vapor is forced into the air system, which compounds the water or moisture problem. The tank should be drained more than just every morning.

To help remove the moisture from your main line there should be a main line filter located no closer than 25' from the compressor. For maximum moisture prevention, an after-cooler and dryer or a high



907001 Tank Drain

inlet temperature dryer should be installed. There should be "point of use filters" at the drops where air is used. There should also be drip legs to drain the system. If your system requires cleaner air such as in a spray booth, you may also need a coalescing filter to remove oil aerosols and a desiccant filter to remove water vapor.

7. Oil Leaks

Oil leaks can be difficult to find. If an oil leak appears to be a simple repair, make the repair. If location of leak is difficult to find, clean pump thoroughly, and watch for oil seepage, checking to make sure the crankcase breather is free from obstructions.

Some crank cases have porous castings, which requires sealers to be applied to the inner walls of the crankcase. If the machine operates under extremely hot conditions, there may be sloughing of the sealer, allowing the oil to seep through the casting. Although this situation happens very rarely, it can happen. If the repair appears that it will require a lot time, contact Technical Service. Sometimes it is less costly to exchange the pump. Example: \$700.00 repair vs. \$400.00 pump replacement cost.

Trouble Shooting (Continued)

8. Crankcase: Water in Oil

Humidity is the only cause for moisture to be found in the oil of an air compressor. The major reasons that water gets into the oil is the unit is oversized for the customer's use or the unit is housed in an extremely high humidity area. If the unit is properly sized for a customer's applications, moisture normally doesn't collect. If the compressor is properly sized the crankcase will not completely cool down before restarting, therefore, it will not pull in as much moisture. When, the pump restarts it generates heat which evaporates the drawn in moisture which prevents moisture build-up.

Water accumulates in the oil several ways and there are several ways to remove water.

Sources of Moisture:

1. During operation a compressor generates heat because of compression and friction. Heat causes expansion of air in the crankcase and heat causes moisture to vaporize. The more heat, the more vaporized moisture. A hot crankcase draws moisture to itself.
2. The compressor shuts down and as it cools, the crankcase goes into a vacuum pulling air into the crankcase. The surrounding air along with moisture is pulled in. This is normal and usually does not damage the machine. When moisture is visible in the crankcase, it can become a problem.

How to cure a moisture problem.

1. Increase usage or run time.
2. Excessive crankcase heat may require changing oil more often depending on moisture severity. (A Crankcase Heater is available to help alleviate moisture problems.)
3. Use a smaller machine for this application.

9. Two Stage Unit Pops Inter-Stage Safety Valve

Remove Safety Valve and replace with test gauge. If the pressure is less than 55 PSI, replace safety valve. If the pressure is the same or close to the same as the tank pressure above then check your high pressure valves starting with the Intake valve and valve gaskets. Next, check exhaust valve and valve gaskets, noting any visible cracks or defects. If no apparent problems, replace gaskets and valves. Retest pump if the head allows valve access without having to be removed. If problems still exist, the head gasket is blown and must be replaced.

Trouble Shooting (Continued)

Water in the Oil

Air-Cooled Reciprocating Compressors

CAUTION: Reciprocating compressors should be sized or applied so that the air demand is high enough to cause the compressor to operate at least 25 to 30% of the anticipated production time. For a 20 through 30 horsepower compressor, a good rule of thumb would be a minimum of 15 minutes running time per hour at minimum 90 PSIG cut-in and maximum 175 PSIG cut-out (2-stage) under "standard" conditions - 70 degrees F ambient and 70% relative humidity.

Lighter loading, short-cycling, and infrequent starts, depending upon ambient conditions (humidity levels and temperature), can result in rapid contamination of the crankcase oil due to condensed moisture in the compressor. Water vapor drawn into the compressor with inlet air may condense in the heads and intercooler tubes between the first and second stage. This is not a sign of a malfunction nor defect in the compressor itself, but a by-product of the duty cycle and operating conditions.

If left to operate at light loads and/or high humidity conditions, the compressor may eventually build-up condensate in the crankcase and degrade the

lubricating properties of the oil. Indications include foaming and whitish appearance of the oil, apparent increase in oil level above the full mark, and a sludging condition where the oil and water form an emulsion. Unless the crankcase is drained and fresh oil added, this condensed moisture will damage bearings and internal components. In several cases, the crankcase may need to be flushed out with light oil or compressor cleaner before refilling with fresh lubricant.

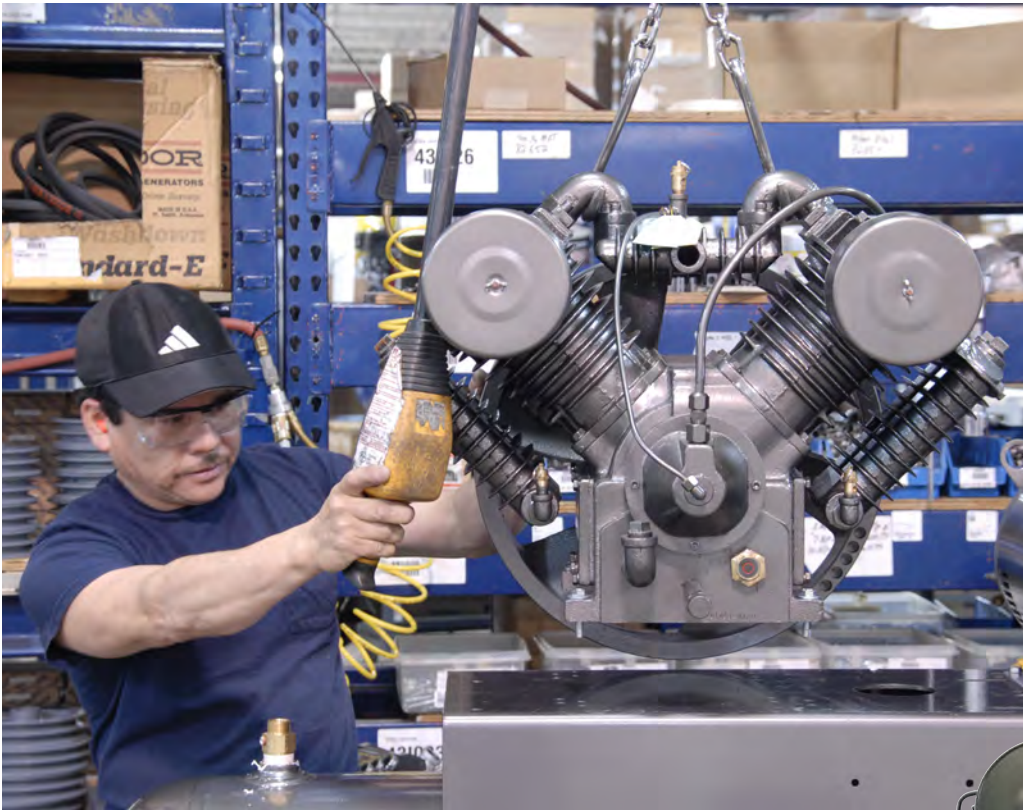
Increased frequency of oil changes, along with steps to increase air consumption, may be required to avoid damage to the compressor. Possible solutions are setting a wider pressure differential range (pressure switch cut in the cut out settings), switching to dual control operation, increasing air tank capacity, reducing CFM output (smaller drive pulley), or adding an artificial "load" to the system.

If the situation (water building up in the crankcase) is not promptly corrected, damage or destruction of the compressor pump may result. For the reasons described above, water or sludge in the crankcase are not warrantable conditions.

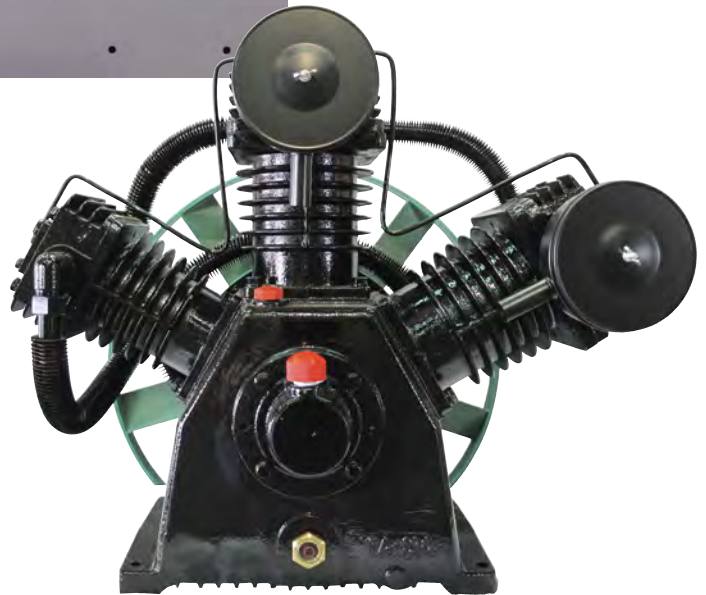
Pump Replacement

Normal pump exchange requires unbolting and re-bolting a pump, but occasionally a new pump may not be available. Technical Service can recommend a substitute. Have the Amp Rating, Horse Power (HP), Pulley Size, RPM, Shaft size, and Voltage from

electric motor info available when calling. If this is a gas compressor you will need the "rated" HP. If unit is a Schrader Air Compressor, the model and serial number will be needed to properly size the pump to motor.



Pumps can weigh as much as 800 lbs. Be sure to have a mechanical lift device to facilitate pump replacement.



Rules of Thumb

- Compressors should be located in a dry, clean, cool (40° to 100° F), and well ventilated area. Allow enough room around the compressor for proper air flow and maintenance.
- Air distribution piping should be of sufficient size to minimize pressure drop and allow for expansion.
- The minimum amount of storage recommended is one gallon per CFM of capacity. This should be increased to three gallons per CFM of capacity for systems with sharp charges on demand.
- Typical compressor discharge air temperature before after cooling:

Rotary Screw	175° F
Single Stage recip.	350° F
Two Stage recip.	250° F
- Slope main line approximately 1/4" per foot of pipe away from air compressor.
- Install drop/drip legs for condensate removal.
- Take all drop lines from the top of main pipe lines and locate them near the main points of use.
- The main line filter and regulator should be placed at least 20 feet away from the compressor. This will allow the air to cool, causing much of the water vapor to liquefy and be expelled at the point.
- Never use PVC!** Suggest Schedule 40 black iron, galvanized, copper or stainless steel.
- Size pipe for maximum CFM required, full load production plus expansion plans.
- Always consider leakage and future expansion in order to eliminate compressed air system obsolescence. A 10% per year growth rate is common.
- Motor pulley size (inches) = OD compressor flywheel (in) x Compressor RPM/Motor RPM.

Air Flow (CFM) Through Orifice or Jet

PSI	Orifice or Jet Size (inches)								
	1/64	1/16	1/8	1/4	3/8	1/2	5/8	3/4	1
5	0.062	0.993	3.970	15.90	35.70	63.50	99.30	143.0	254.0
15	0.105	1.68	6.72	26.90	60.5	108.0	168.0	242.0	430.0
20	0.123	1.96	7.86	31.40	70.7	126.0	196.0	283.0	503.0
30	0.158	2.53	10.10	40.50	91.01	162.0	253.0	365.0	648.0
50	0.229	3.66	14.70	58.80	132.0	235.0	386.0	528.0	938.0
70	0.300	4.79	19.20	76.70	173.0	307.0	479.0	690.0	1227.0
100	0.406	6.49	26.0	104.0	234.0	415.0	649.0	934.0	1661.0
125	0.494	7.90	31.60	126.0	284.0	506.0	790.0	1138.0	2023.0
150	0.582	9.45	37.5	150.0	338.0	600.0	910.0	1315.0	2338.0
200	0.761	12.35	49.0	196.0	441.0	784.0	1225.0	1764.0	3136.0

In Cubic Feet of free air per minute at standard atmospheric pressure of 14.7 lbs. per sq. in. absolute and 70 degrees F. T Table is based on 100% coefficient of flow. For well rounded entrance multiply values by 0.97. For sharp edged orifices a multiplier of .61 may be used for approximate results.

Pressure Drop

Pressure drop results from the friction produced by flow of compressed air in pipelines and from the system components themselves.

Typical initial pressure drops:

Main line pipe work	1.0 PSI
Distribution lines	0.5 PSI
Connection lines	0.5 PSI
Filters	1.0 PSI
Separator	1.0 PSI
Refrigerated Air Dryers.....	3 to 5 PSI
FRL and Hose	5 to 8 PSI

Relative Humidity

A ratio between the moisture in the air to the moisture saturation capacity of the air, expressed as a percentage and dependent upon the temperature and pressure.

Dew Point

The temperature at which the air will become saturated, expressed as a temperature and dependent upon pressure.

For every cubic foot of compressed air product at 100 PSIG we take eight cubic feet through the inlet of the compressor, and squeeze that air into one cubic foot.

Water Accumulation (eight hour day)

Gallons of water per 100 CFM for a continuous run compressor.

		Percent Relative Humidity								
		20	30	40	50	60	70	80	90	100
		Gallons of Water								
Tank Size (Gallons)	120	18.6	27.9	37.2	46.5	55.8	65.1	74.4	83.7	93.0
	110	14.1	21.0	27.9	35.1	42.0	48.9	55.8	63.0	69.9
	100	10.5	15.6	20.7	26.1	31.2	36.6	41.7	46.8	52.2
	90	7.8	11.4	15.3	19.2	23.1	26.7	30.6	34.5	38.4
	80	5.7	8.4	11.1	13.8	16.8	19.5	22.2	24.9	27.9
	70	3.9	6.0	7.8	9.9	12.0	13.08	15.9	18.0	19.8
	60	2.7	4.2	5.7	6.9	8.4	9.9	11.1	12.6	14.1
	50	2.1	3.0	3.9	4.8	6.0	6.9	7.8	8.7	9.9
	40	1.2	2.1	2.7	3.3	3.9	4.8	5.4	6.0	6.6
	30	0.9	1.2	1.8	2.0	2.7	3.0	3.6	3.9	4.5
20	0.6	0.9	1.2	1.5	1.7	1.9	2.1	2.4	2.7	
10	0.3	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.8	

Rotary Screw Routine Service

Daily

Check oil level for correct operating level
 Check the temperature switch gauge for proper operating temperature

Weekly

- Inspect air filter and clean as needed
- Clean oil cooler from lint or items that may obstruct air flow thru cooler
- Test pressure relief valves
- Check entire machine for oil leaks, loose fasteners and connections
- Check belt tension

See page 36 for specific maintenance protocols for RENNER Rotary Screw Compressors.

IMPORTANT!



START-UP & OPERATION PROCEDURES

Before starting the compressor please read carefully and follow all the instructions in the "Installation, Operation & Maintenance Manual".

(Please refer particularly to chapter "SAFETY" - beginning page 3.)

1) BEFORE START-UP

- Connect the isolator ball valve supplied.
- Check and tighten electrical, air and oil line connections.
- Be sure that the incoming power supply is adequate and that all cable connections are correctly attached.
- Check oil level.

2) CHECK DIRECTION OF ROTATION

(Refer to Manual - Page 7, Chapter 2.4.2.)

The correct direction of rotation is counter-clockwise and can be checked by **briefly** switching the compressor on and off using the green and red buttons with the front panel removed. If the direction of rotation is incorrect and the machine is run for even a short time, there is a risk that the compressor block can be damaged or destroyed. An "Arrow" under the pulley wheel indicates the correct direction of rotation. Use extreme caution to check the rotation with the front panel removed. After ensuring correct rotation, replace all panels before start-up. All panels must be attached properly to allow the proper circulation of the cooling air. Damage from overheating can occur from running unit without panels installed.

3) CORRECT STOPPING PROCEDURE

(Refer to Manual - Page 7, Chapter 2.4.2.)

Close the isolator ball valve at the compressor or down stream of the tank. Run the machine to final pressure and wait for the run-on timer period of 3 minutes, after which the compressor will automatically shut down. After automatic shut down press the red stop button, to kill power and prevent an automatic restart. Failure to adhere to the above procedure will not allow the compressor to de-pressurize correctly and will cause high oil consumption/oil carryover.

Part #	Maintenance Parts
80-10278	Air filter for 5, 7, 10 HP
80-10286	Air filter for 15 & 20 HP
80-10290	Air filter for 25, 30, 40 HP
80-10277	Oil filter for 5, 7, 10 HP
80-10285	Oil filter for 15 & 20 HP
80-10289	Oil filter for 25, 30, 40 HP
80-10296	Air filter for 50 HP
80-10295	Oil filter for 50 HP
80-10279	Oil separator cartridge for 5, 7, 10, 15, 20 HP
80-10291	Oil separator cartridge for 25, 30, 40, 50 HP
80-10848	RENNER Compressor Oil 1.32 Gallon (5 Liter)

In order to maintain **warranty** the following items need to be changed/replaced every 2000 hours (or at least 1x per year):
Air Filter (Check regularly and replace if dirty.)
Oil Filter
Oil Separator Cartridge
Oil

Maintenance schedule for additional components that need to be serviced at regular intervals.



SCHRADER
INTERNATIONAL

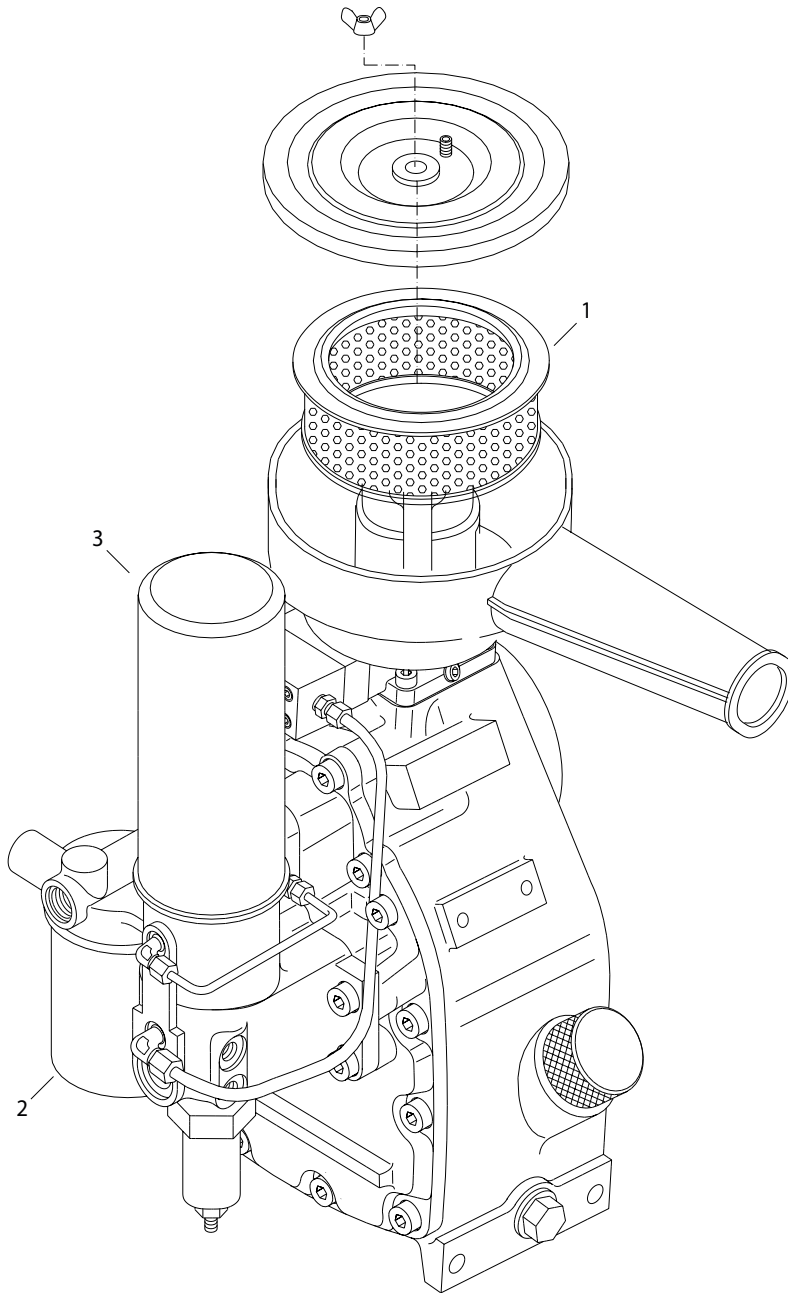
Schrader offers a complete line of air preparation products through our Schrader-Air Product line.

SchraderAir
Schrader - Air solutions since 1845

Maintenance Check

When Due	Maintenance Work	Parts Required
Start-up:	Check oil level	
	Check V-belt tension	
	Tighten hose / pipe connections	
	Tighten electric terminals	
Regularly	Tighten electric terminals (once, then every 2000 h)	
	Check all connections are securely fixed	
	Check hose / pipe connections for leaks	
	Check pressure gauge and temperature indicator are working	
	Check oil level	
	Change oil filter (1x after 100 h) on RS 55 model only	Oil filter for RS 55 only
	Check V-belt tension	
	Check alignment of V-belt pulleys	
	Check level of contamination in air filter	
2000 h or 1x per year	Change oil filter	Oil filter
	Oil change ²	Compressor oil
	Change air filter element	Air filter cartridge
	Change fine separator cartridge ³	Fine separator cartridge
	Tighten electric terminals	
	Check V-belt tension	
	Check V-belt for wear and replace if necessary	
	Clean oil cooler	
	Clean oil return inspection glass	
	Check system for leaks	
	Check run-on time (>= 3 min.)	
	Check belt tensioner bearing and replace if necessary	
	Check pressure switch setting and adjust if necessary	
	Re-grease motor bearings (RS 11 and above)	High-temperature grease
	Clean / replace filter mats	(See attached details)
	Check overall condition of system	
	4000 h or 1x per year	As for 2000 h
6000 h or 1x per year	As for 2000 h plus:	Plus:
	Change V-belt	V-belt
	Change tensioning reel (excluding tensioning element)	Tensioning reel
8000 h or 1 x per year	As for 2000 h plus:	Plus:
	Change thermo-valve element	Thermo-valve element
	Change O-ring on oil filler plug	O-ring for oil filler plug
	Change oil return inspection glass (where fitted)	oil return inspection glass

When Due	Latest Month	Maintenance Work	Parts Required
10,000 h		As for 2000 h	As for 2000 h
or 1x per year			
12,000 h		As for 2000 h plus:	Plus:
or 1 x per year		Suction regulator maintenance kit	Suction regulator maint. kit
		Separator head maintenance kit	Separator head maint. kit
		Change complete front cover	Complete front cover
		Change solenoid coil	Solenoid coil
		Change complete tensioning reel including tensioning element	Tensioning reel inc. tensioning element
		Change V-belt	V-belt
14,000 h		As for 2000 h	As for 2000 h
or 1x per year			
16,000 h		As for 2000 h plus:	Plus:
or 1 x per year		Change thermo-valve element	Thermo-valve element
		Change O-ring on oil filler plug	O-ring for oil filler plug
		Change oil return inspection glass (where fitted)	oil return inspection glass
18,000 h		As for 2000 h plus:	Plus:
or 1x per year		Change tensioning reel - excluding tensioning element	Tensioning reel
		Change V-belt	V-belt
20,000 h		As for 2000 h	As for 2000 h
or 1x per year			
22,000 h		As for 2000 h	As for 2000 h
or 1x per year			
24,000 h		As for 2000 h plus:	Plus:
or 1x per year		Change V-belt	V-belt
		Change thermostatic valve element	Thermostatic valve element
		Change O-ring on oil filler plug	O-ring for oil filler plug
		Change oil return inspection glass (where fitted)	oil return inspection glass
		Suction regulator maintenance kit	Suction regulator maint. kit
		Separator head maintenance kit	Separator head maint. kit
		Change complete front cover	Complete front cover
		Change complete tensioning reel including tensioning element	Tensioning reel inc. tensioning element
		Complete electric control unit	Electric control unit
² With RENNER SUPER LUB every 4000 h			
³ Theoretical service life > 4000 h, from a technical point of view change interval should be 2000 h			



Replacement Filters and Oil Separator

1 - Intake filter cartridge

2 - Oil filter

3 - Separator cartridge

Rotors and Bearings

The Heart of the screw compressor

The rotors are the part of the screw compressor.

Key factors concerning rotors are:

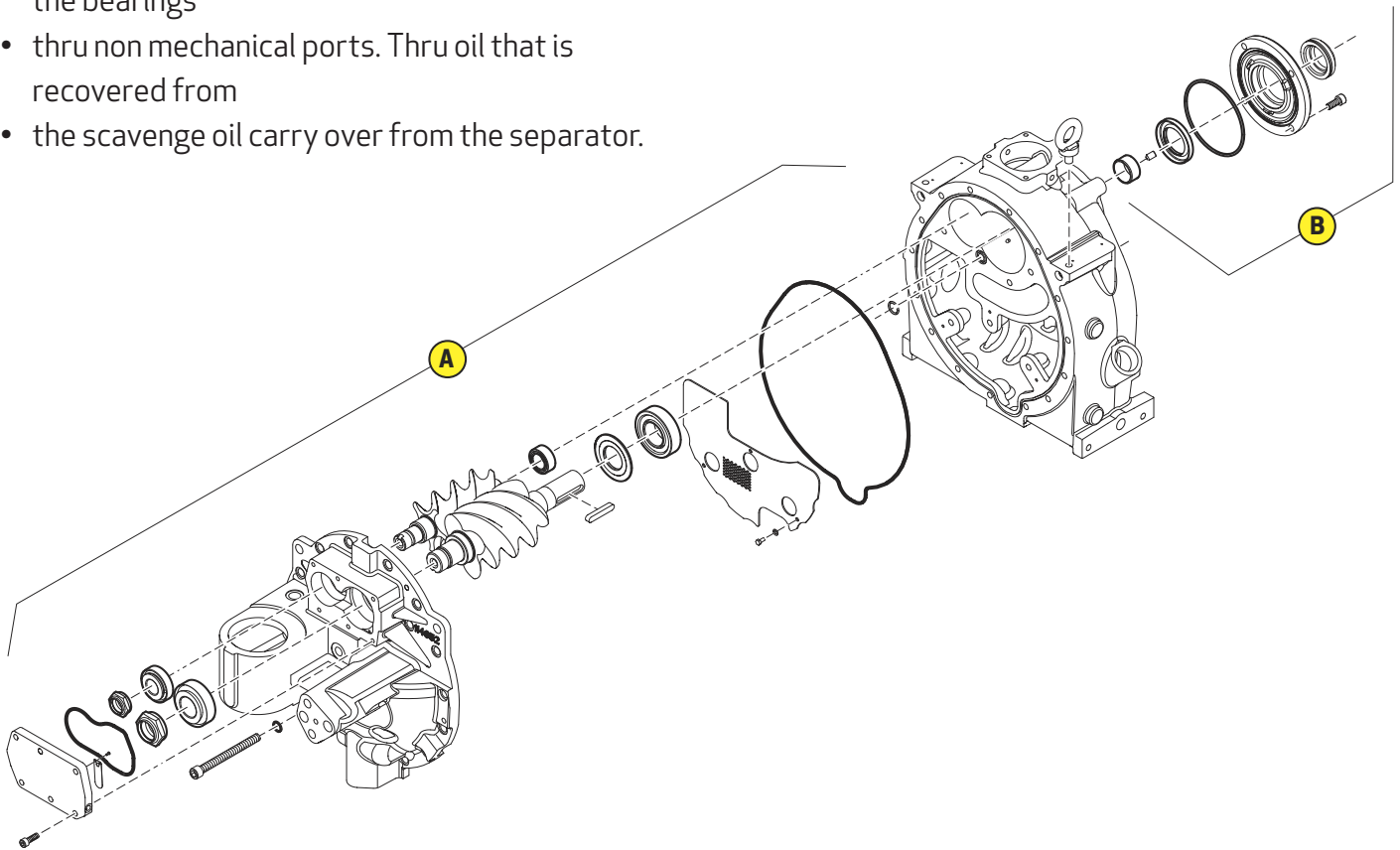
- The rotors Trap air between them and force the air in a single direction.
- The rotors are supported on both ends with roller bearings.
- It is critical that the bearings receive proper lubrication.

The lubrication to the bearings come from two sources

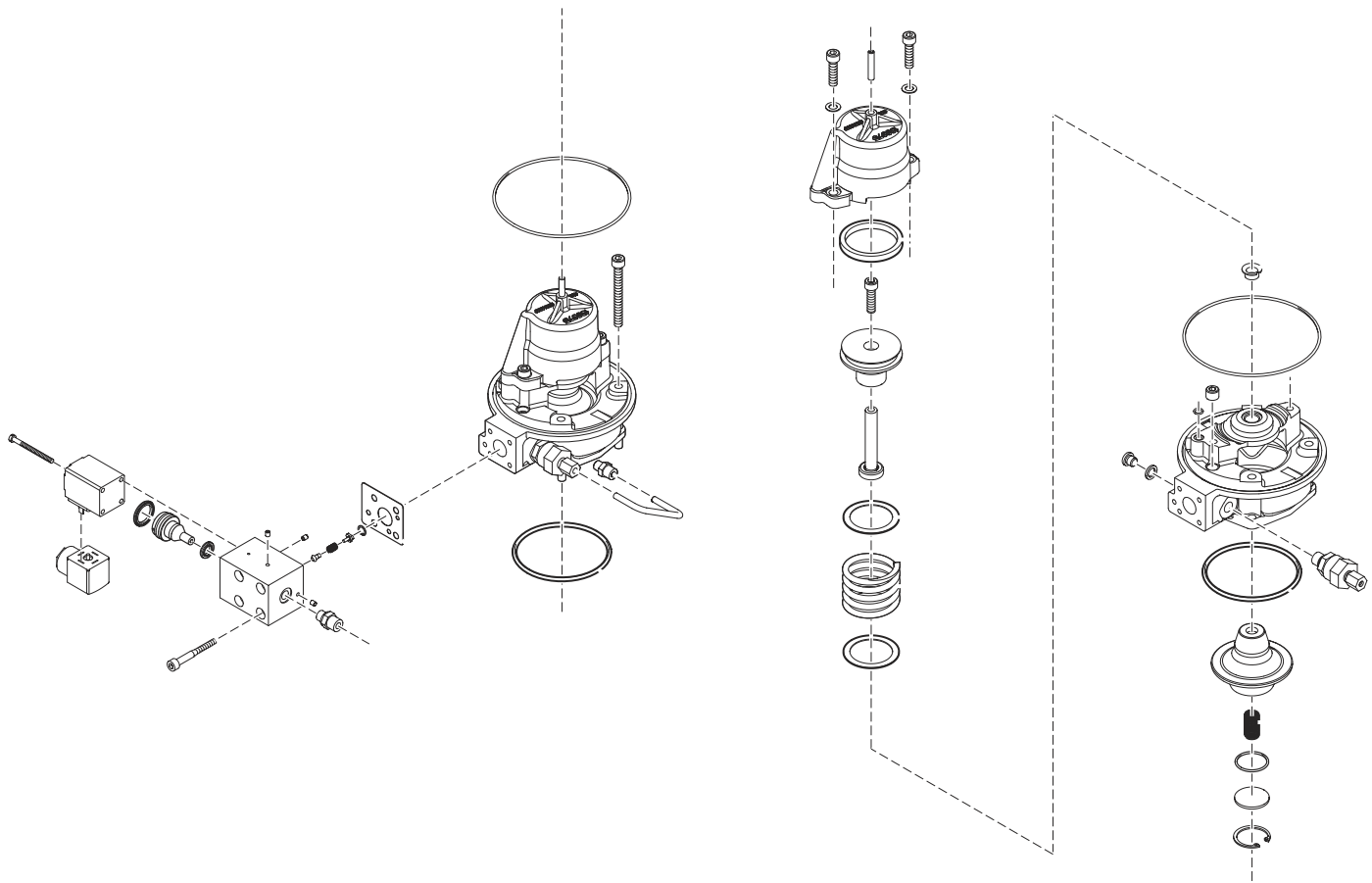
- the flow of oil from the sump thru the cooler to the bearings
- thru non mechanical ports. Thru oil that is recovered from
- the scavenge oil carry over from the separator.

Both oil supplies are critical to the proper lubrication and cooling of the bearings and rotors

- The rotors are made to match one another they actually run against each other with a oil as a lubricant. There is no single wear point on the rotors.



Typical Air End Maintenance Kit Bearing (A) and Shaft Sealing (B)



Typical Air End Maintenance Kit Intake Valve, Control Block Electric

Rotary Screw Inlet valves

Electric

Suction type

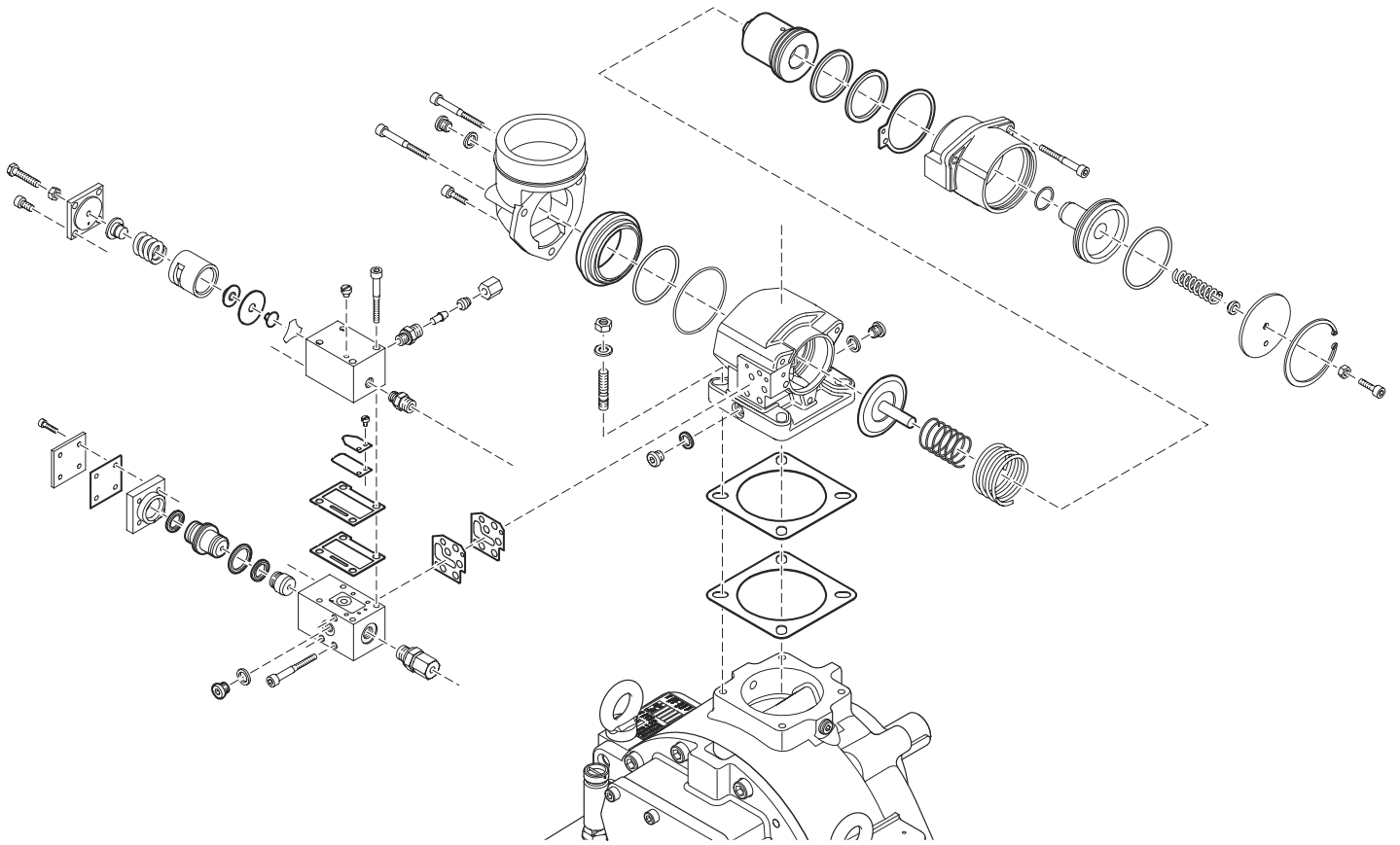
Open from the suction caused by the spinning rotors. Closes with air pressure also closes from the air in sump when compressor is shut off suddenly.

Pressure type

Opens after oil sump build approximately 40 psi pressure. Closes with spring when air is removed from the valve.

Air

Controlled with the air pressure from discharge used in modulated units. Does not require electric components and is primarily used on portable screw compressors.

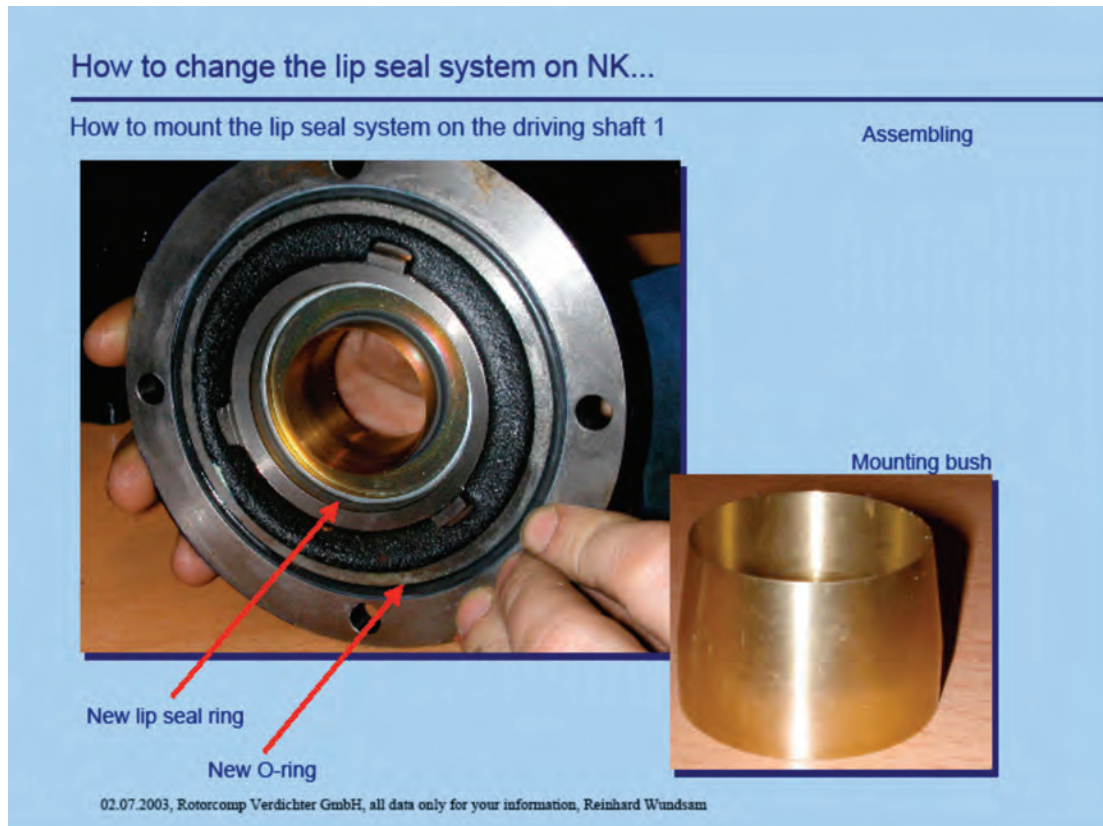


Typical Air End Maintenance Kit Intake Valve, Control Block Pneumatic

Oil Seal Replacement

The oil seal on NK air ends is located on the drive shaft and is designed with a replaceable race. There is a special tool used to remove and replace the race for the oil seal. The replacement seal kits comes with a special sleeve that prevents damage to the seal while it is being installed.

Complete instructions are available for replacing oil seals and bearings



Oil Separator and filters

Air end oil separation

Screw compressors use an oil air separation system. The heart of this system is the separator cartridge. The oil separation system also uses a scavenge line to return oil that gets to the air side of the separator back to the oil system.

A unique benefit to the NK separation system is the spin on separator.

There are items that must be checked and cleaned when replacing separators.

- Clean the seal at point it attaches to the air end.
- Make sure the o-ring inside the separator is not damaged
- Make sure the tube the separator tube is tight
- Make sure the scavenge line is clean
- Test the scavenge line orifice to make sure it is not obstructed. A loose or leaking separator can cause a screw compressor inlet valve from opening.

No matter the age of a screw compressor the oil carry over is solely determined by a properly installed separator and scavenge line.



Oil/Air separator

Oil Separator and filters

Screw Oil Filter

The oil filter on a screw compressor will be the most significant part to determine how long a air end will last.

All oil flooded screw compressors discharges the intake air directly into the oil. If the screw compressor is in a dusty environment it is necessary to change the oil filter more often.

Screw oil filters for the NK units have a built in bypass rather than starving the air end from oil. Failure to keep the oil in good condition will lead to premature bearing wear.

The oil filter is simple to change. It is a spin on filter. It should be replaced every 500 hours or 3 months whichever comes first. It is also good to partake in oil sampling and analysis to ensure that the oil is not contaminated.

We can provide the containers and sampling for customers using Schrader lubricants.

Screw Lubrication

Screw compressors are both cooled and lubricated by oil.

The discharge temperature of the screw compressed air/oil is monitored with a temperature switch gauge.

The temperature switch is the most important safety switch on a screw compressor.

When oil temperature raises too high the temp switch shuts off the screw compressor.

The temperature switch gauge should be observed daily and tested every 3 months to ensure proper operation.

Many screw compressors have a unique temp switch that allows users to test the switch operation without draining the oil.

Screw compressors that fail to shut down from too high oil temperature will have a flash fire in the sump. This can be a very dangerous as you have a fire with no place to go.

Make certain the oil temp switch gauge is in proper working order at all times.



Oil Filter

Oil Thermo valves and Air/Oil coolers

When a screw compressor first starts, the oil is routed thru an oil thermo valve designed to cause the oil to warm up to 160°F quickly. After the oil reaches 160°F, the oil is then routed thru the oil cooler. As screw compressors get older, they begin to build up varnish on the internal parts. The varnish can cause the thermo valve to stick. The varnish can also cause the oil cooler to lose its ability to transfer heat. If the oil cooler has lint or other air borne particles or pollutants that reduce the air flow thru the cooler, it will cause the oil temperature to rise. Each year the air/oil cooler should be removed and power washed to ensure proper operation. One of the most common problems with screw compressors is inadequate ventilation. This can be from the compressor being located in too small a room or the lack of an adequate supply of fresh air.

Wiring Schematic

Screw compressors have three primary reasons to shut down

- 1) High discharge temperature
- 2) High motor amp draw
- 3) High pressure

A unit that shuts down for high operating temp should be checked for:

- Oil Level
- A Clogged Cooler
- Thermal valve stuck.
- Broken cooling fan

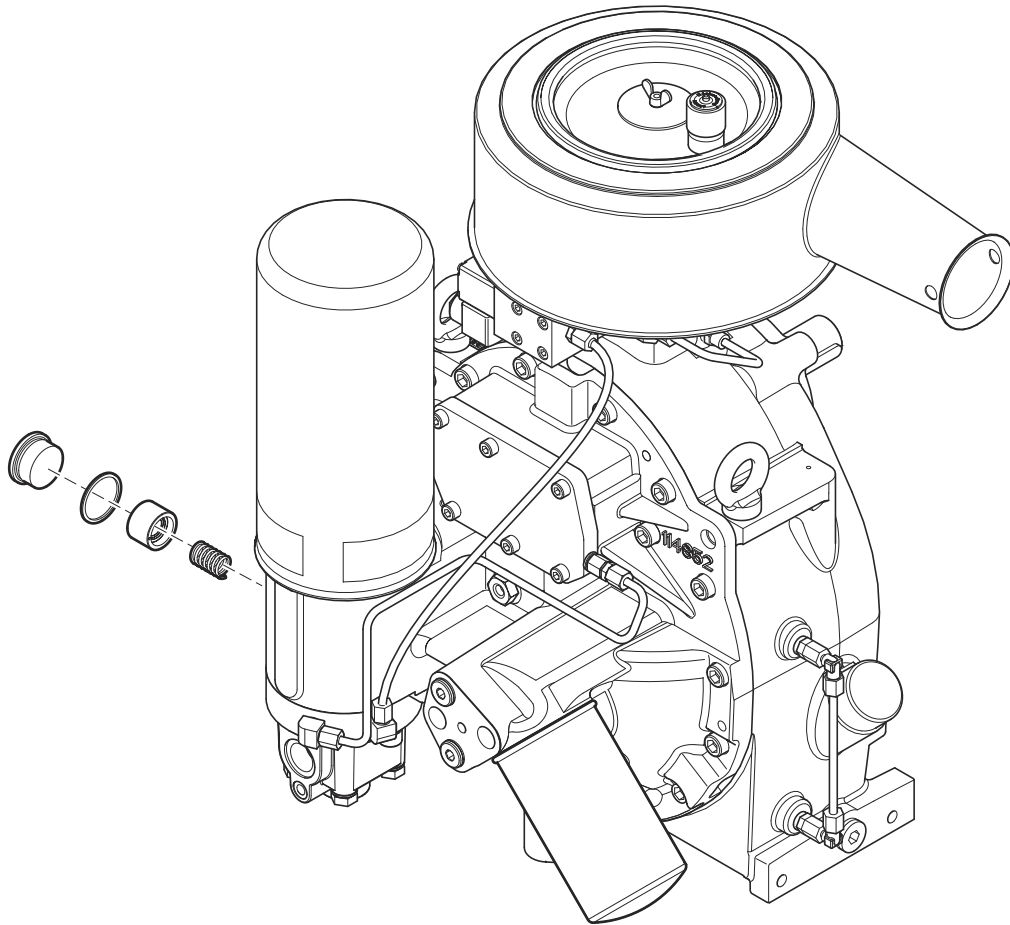
High motor amps should be checked thru out the entire electrical system.

Always turn off power before working with the electrical system.

- Start at the connection to the control panel and check each component for any unusual colors or smells.
- Remove the motor's electric cover and check for loose or burned wires.
- Test the amps with your amp probe.
- Check the overload for proper adjustment.
- Check the unit for voltage drop while running with voltage meter.

In the event of a high pressure shut down:

- Check Pressure switch
- Check inlet valve coil and inlet valve function



Maintenance Kit Oil thermostatic valve Part-No 115211



SCHRADER-USA 205 FRAZIER ROAD ▶ ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 ▶▶ SCHRADERINTERNATIONAL.COM

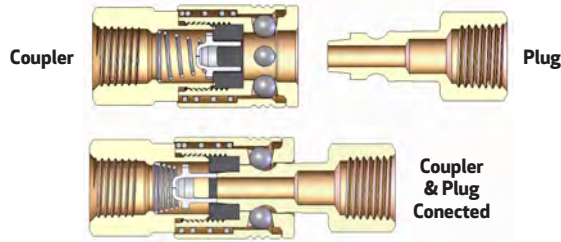
SchraderAir Compressor Training
041713

SCHRADER INDUSTRIAL PRODUCTS CATALOG

▶▶ COUPLERS & PLUGS



COUPLERS AND PLUGS



Couplers & Plugs

Quick Disconnect couplers are the fastest, easiest, and the most reliable means of joining pneumatic and fluid transfer lines. All quick disconnect couplers work on the same principle:

- Hardened balls or pins engage a groove in the coupler plug to hold it securely against a soft seal while permitting the assembly to swivel, thereby preventing kinking or twisting of hose.
- A sliding sleeve releases the locking balls when retracted, permitting the plug to be inserted or removed. The sleeve automatically returns to the locked position when released.
- An automatic shutoff valve in the coupler seals instantly upon uncoupling, eliminating the need for a separate shutoff.

Features

Long Service Life: Zinc plating provides a non-corrosive finish. Heat treating hardens critical wear points. Molded Buna-n seals create a leak proof connection.

Efficient Performance: Tubular valve design provides high flow rates. Steel locking balls ensure connection holds tight under the most rugged applications. Spring loaded sliding outer sleeve allows quick connect/disconnect.

Many Sizes & Styles: Available in 1/4", 3/8", 1/2", 3/4" inch bodies with male and female pipe threads, hose barb or lock-on ends for every application.

Interchangeability: Fully interchangeable with couplers and plugs made by other manufacturers. (See interchange charts)

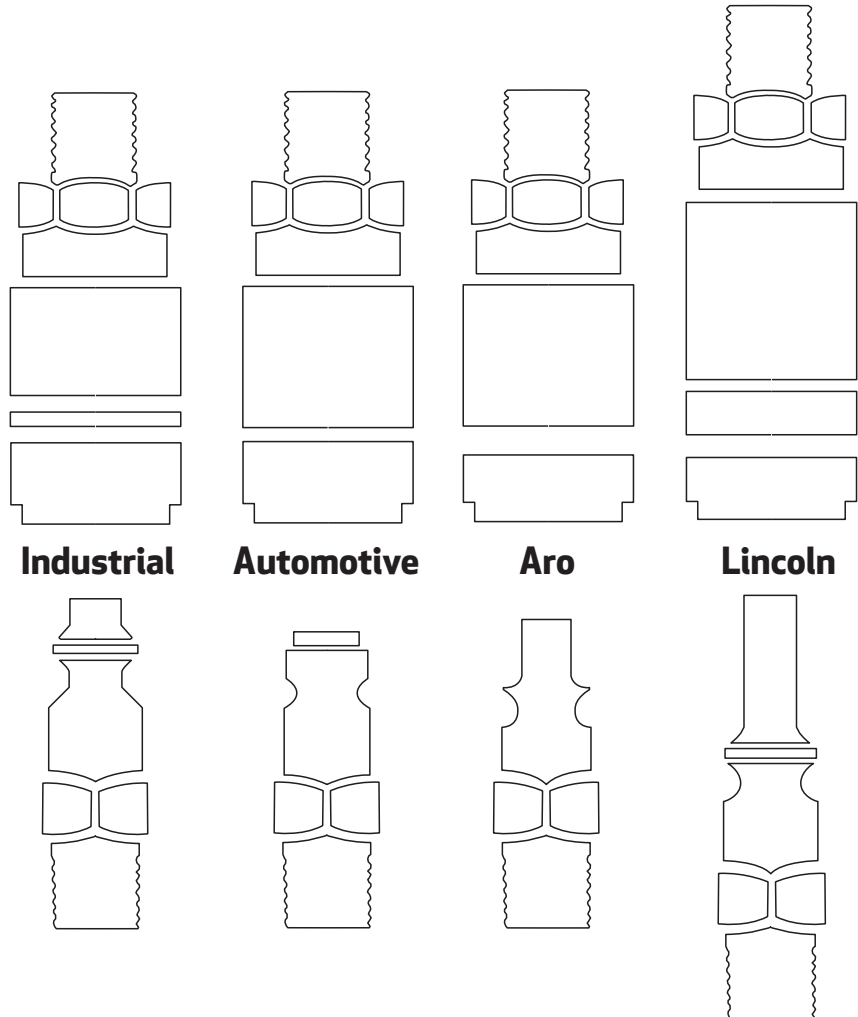
Coupler Style

Industrial
Lincoln
Aro
Auto Std 1/4" & 3/8"
Auto & Ind Std 1/2"

Groove Configuration

2 Narrow Band
1 Narrow, 1 Wide Band
1 Wide Band
1 Narrow Band
4 Narrow Band

COUPLER & PLUG STYLES



WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.

COUPLERS AND PLUGS



Our couplers and plugs contain the highest quality components manufactured and assembled in Altavista, Virginia, USA.

Plug

- Case-hardened steel

Shells

- Precision machined
- Precision clearance held for smooth operation and proper engagement with plug

Valves

- Milled/Slotted to produce high flow

Rubber Washers

- Molded and ASTM* controlled
- Low compression set rubber for maximum sealability
- Internal lubed wax (Paraffin)
- -40°F to +240°F operational

Shell springs

- Zinc plated steel

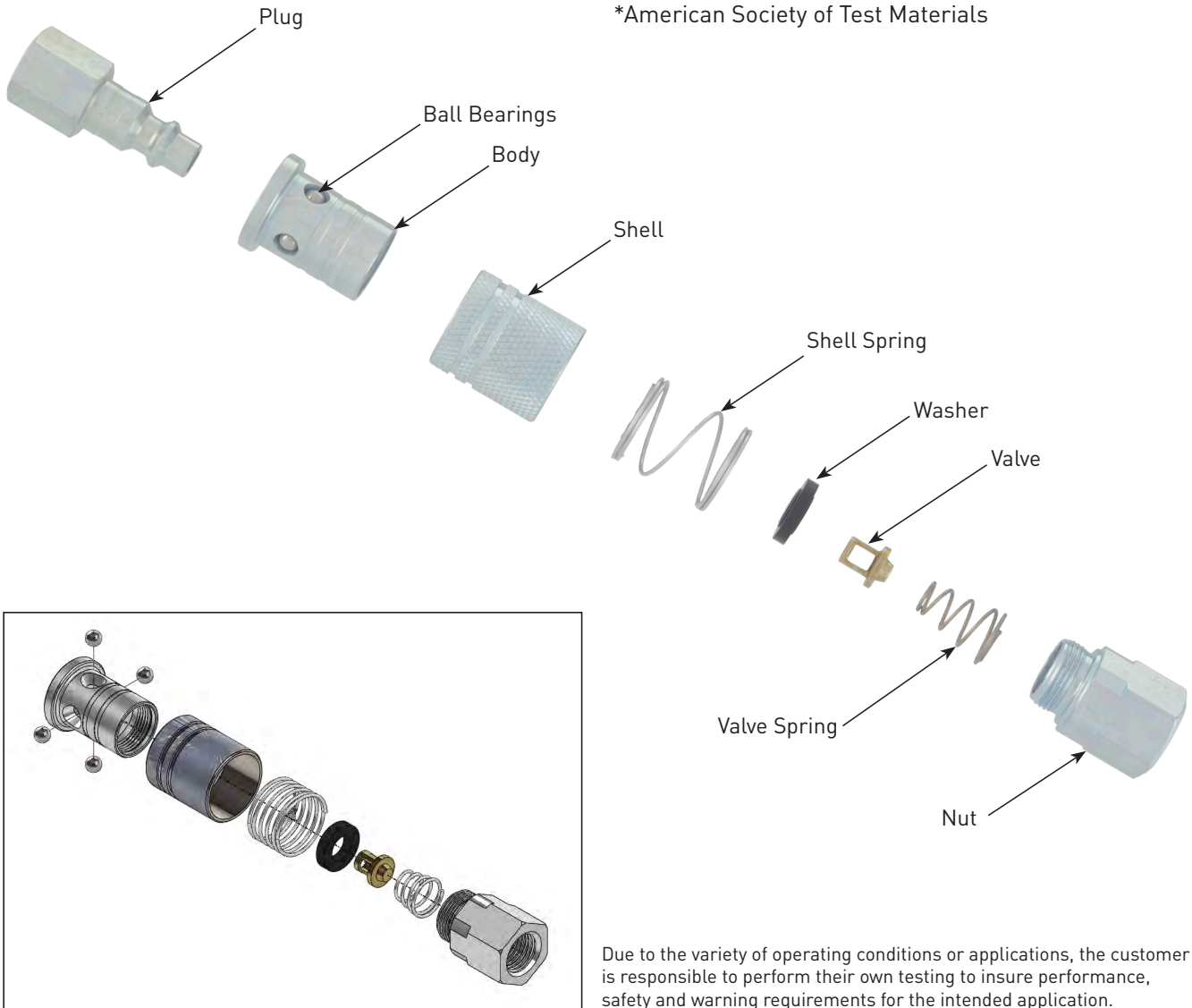
Valve springs

- Stainless steel to prevent moist air causing rust

Ball bearings

- Core hardened 0.030 – 0.040 deep RC 60-62
- Sphericity .001 max.
- SAE 1018

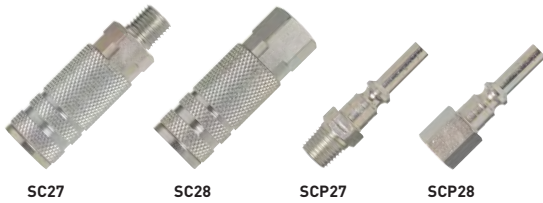
*American Society of Test Materials



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

COUPLERS AND PLUGS

Type
A



SC27

SC28

SCP27

SCP28

1/4" Lincoln™ Style Couplers and Plugs

These interchange with Lincoln *Long Nose Series*, as well as units produced by other manufacturers.

Male Thread	Female Thread	NPT Size
COUPLERS		
SC27	SC28	1/4"
ADAPTER PLUGS		
SCP27	SCP28	1/4"

Type
B



1/4" Aro™ Style Couplers and Plugs

These interchange with Aro™ 210 as well as units produced by many other manufacturer's.



SC37

SC38

SC38-42

SC37B

SC38B

SC37-03

SC38-23

SC38-44

SC45*

SC46

SCP37

SCP38

SCP37B

SCP38B

SCP37-03

SCP38-23

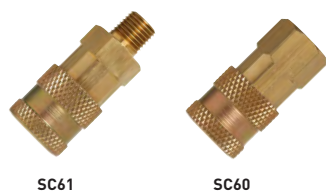
Combo Pack
SCP37 / SC38

1/4" "Aro" Couplers

Uses standard "Type B" adapter plugs. Has maximum working pressure of 250 PSI.

Male Thread	Female Thread	Hose Barb	NPT Size
COUPLERS			
SC37	SC38	SC38-42	1/4"
SC37B	SC38B		1/4"
SC37-03	SC38-23	SC38-44	3/8"
PUSH-TO-CONNECT COUPLERS			
SC45*	SC46		1/4"
B = Brass L = Locking			
*may be sourced offshore			

Male Thread	Female Thread	Hose Barb	NPT Size
ADAPTER PLUGS			
SCP37	SCP38		1/4"
SCP37B	SCP38B		1/4"
SCP37-03	SCP38-23		3/8"
COMBO PACK (1 EA. SCP37 / SCP38)			
SCP37	SC38		1/4"
B = Brass L = Locking			



SC61

SC60

1/4" 3-way "Push-to-Connect" Coupler

These yellow chromate plated steel and brass couplers fit all 1/4" Aro™ Style, 1/4" Automotive Style, and 1/4" Industrial Interchange coupler plugs available in the marketplace.

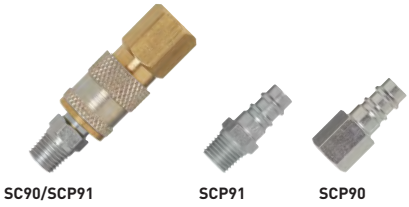
Maximum working pressure is 250 PSI.

Male Thread	Female Thread	NPT Size
COUPLERS		
SC61	SC60	1/4"

WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.

COUPLERS AND PLUGS

1/4" High Volume / Low Pressure Couplers and Plugs



Item No.	Description
SC90/ SCP91	The unique valve and plug design of this special purpose coupler and plug set provides a much larger passage of air than standard 1/4" units. It allows as much air passage as a standard 3/8" coupler and plug unit. Especially designed for the paint industry.
SCP91	1/4" MNPT Plug
SCP90	1/4" FNPT Adapter Plug



1/4" Automotive Style

These interchange with TruFlate™ as well as units produced by many other manufacturers.

Male Thread	Female Thread	Hose Barb	NPT or Barb
COUPLERS			
SC1	SC2		1/4"
SC1B	SC2B		1/4"
SC1-03	SC2-23	SC2-44	3/8"
COUPLERS FOR RECAPPERS			
	SC2R		1/4"

Male Thread	Female Thread	Hose Barb	NPT or Barb
ADAPTER PLUGS			
SCP1	SCP2		1/4"
SCP1B	SCP2B		1/4"
		SCP1-44	3/8"
SCP1-03			3/8"
	SCP2-23		3/8"
ADAPTER PLUGS FOR RECAPPERS			
SCP1-302**			1/4"***
	SCP14		.482 - 26

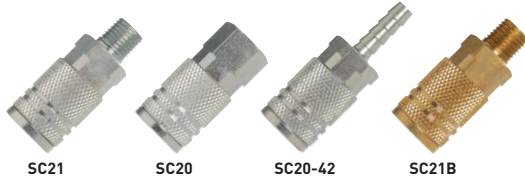
B = Brass L = Locking
 ** SCP1-302 Also has inside cap thread.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

COUPLERS AND PLUGS

Type

D



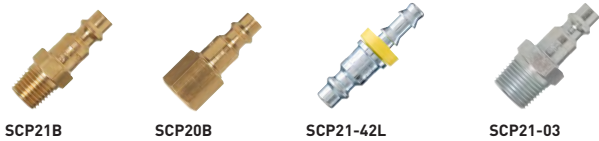
SC21 SC20 SC20-42 SC21B



SC20B SC21-03 SC20-23 SC41*



SC40* SCP21 SCP20 SCP21-42



SCP21B SCP20B SCP21-42L SCP21-03



SC20-23 Combo Pack SCP21 / SC20 SCP22

1/4" Industrial Interchange Style Coupler and Plugs

These interchange with Hansen™, Milton™, Foster™, Aro™, Parker™ and others.

Male Thread	Female Thread	Hose Barb	NPT or Barb
COUPLERS			
SC21	SC20	SC20-42	1/4"
SC21B	SC20B		1/4"
SC21-03	SC20-23		3/8"
B = Brass L = Locking			

1/4" "Push-to-Connect" Couplers

These couplers automatically connect by pushing the plug into the coupler and disconnect when sleeve is pulled back. Uses standard Type D adapter plugs. Has maximum working pressure of 250 PSI.

Male Thread	Female Thread	Hose Barb	NPT or Barb
PUSH TO CONNECT COUPLERS			
SC41*	SC40*		1/4"
ADAPTER PLUGS			
SCP21	SCP20	SCP21-42	1/4"
SCP21B	SCP20B	SCP21-42L	1/4"
SCP21-03	SCP20-23		3/8"
COMBO PACK (1 ea. SCP21 and SC20)			
	SCP21/SC20		1/4"
ADAPTER PLUGS FOR RECAPPERS			
	SCP22		.302-32THD
B = Brass L = Locking			
*may be sourced offshore			

Ask your Schrader representative about private label packaging and bulk pack bin boxes.

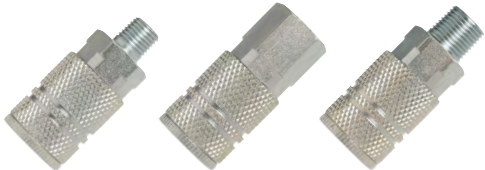


WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.

COUPLERS AND PLUGS

Type

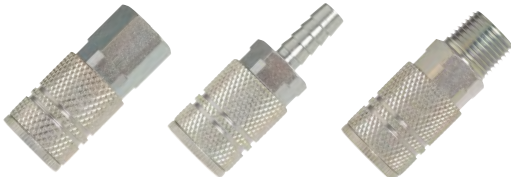
E



SC25-02

SC26-22

SC25



SC26

SC26-44

SC25-04



SC26-24

SCP25-02

SCP-26-22

SCP25-42



SCP25

SCP26

SCP25-44

SCP25-04

SCP26-24

3/8" Industrial Interchange Style Couplers and Plugs

This group of medium sized couplers and plugs provide greater air flow than 1/4" inch units.

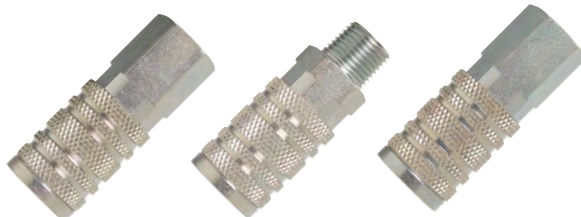
Male Thread	Female Thread	Hose Barb	NPT or Barb
COUPLERS			
SC25-02	SC26-22		1/4"
SC25	SC26	SC26-44	3/8"
SC25-04	SC26-24		1/2"

Male Thread	Female Thread	Hose Barb	NPT or Barb
ADAPTER PLUGS			
SCP25-02	SCP26-22	SCP25-42	1/4"
SCP25	SCP26	SCP25-44	3/8"
SCP25-04	SCP26-24		1/2"

L = Locking

Type

F



SC10-23

SC9

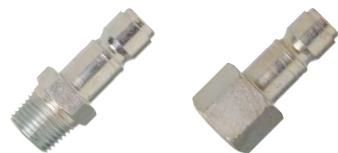
SC10



SC10R

SCP9-03

SCP10-23



SCP9

SCP10

1/2" Automotive Style Couplers and Plugs

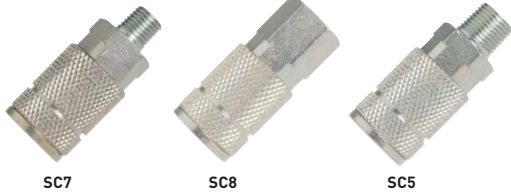
You can use either 1/2" Automotive or 1/2" Industrial interchange plugs with these couplers.

Male Thread	Female Thread	Hose Barb	NPT Size
COUPLERS			
	SC10-23		3/8"
SC9	SC10		1/2"
	SC10R (Raised Sleeve)		1/2"
R = Recapper			
ADAPTER PLUGS			
SCP9-03	SCP10-23		3/8"
SCP9	SCP10		1/2"

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

COUPLERS AND PLUGS

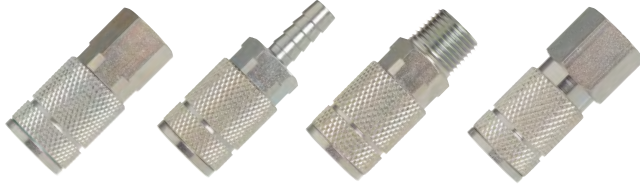
Type
G



SC7

SC8

SC5



SC6

SC6-44

SC5-04

SC6-24



SCP7

SCP8

SCP5

SCP6



SCP5-44

SCP5-44L

SCP5-04

3/8" Automotive Style Couplers and Plugs

Male Thread	Female Thread	Hose Barb	NPT or Barb
COUPLERS			
SC7	SC8		1/4"
SC5	SC6	SC6-44	3/8"
SC5-04	SC6-24		1/2"

B = Brass L = Locking

Male Thread	Female Thread	Hose Barb	NPT or Barb
ADAPTER PLUGS			
SCP7	SCP8		1/4"
SCP5	SCP6	SCP5-44	3/8"
		SCP5-44L	3/8"
SCP5-04			1/2"

L = Locking

Type
H



SCP17-03

SCP18-23

SCP17

SCP18

1/2" Industrial Interchange Plugs

These 1/2" Industrial interchange Adapter Plugs are completely interchangeable with the Type F Automotive Series shown above.

Male Thread	Female Thread	NPT Size
ADAPTER PLUGS		
SCP17-03	SCP18-23	3/8"
SCP17	SCP18	1/2"

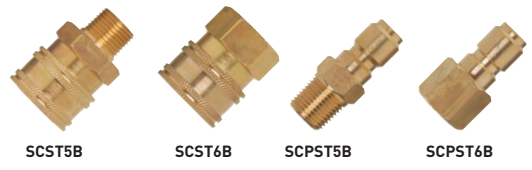
WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.

COUPLERS AND PLUGS

Type
L



Type
M



Straight-through Couplers and Adapter Plugs for Liquids

Available in 1/4" and 3/8" body sizes. These units have no valves. Smooth, straight through bore gives maximum flow with minimum pressure drop. Couplers are brass, with stainless steel balls and springs. Plugs are brass. Used with pressure washers, carpet cleaners and car wash equipment.

Type "L" 1/4" Body Couplers and Plugs

Male Thread	Female Thread	NPT Thread
COUPLERS		
SCST3B	SCST4B	1/4"
B = Brass		

Male Thread	Female Thread	NPT Thread
ADAPTER PLUGS		
SCPST3B	SCPST4B	1/4"
B = Brass		

Type "M" 3/8" Body Couplers and Plugs

Male Thread	Female Thread	NPT Thread
COUPLERS		
SCST5B	SCST6B	3/8"

Male Thread	Female Thread	NPT Thread
ADAPTER PLUGS		
SCPST5B	SCPST6B	3/8"
B = Brass		



SCHRADER
Schrader International, Inc. • 205 Frazier Road, Altavista, VA 24517 • 434.369.4741 • Schraderintl.com

INTERCHANGE INFORMATION ON COMPLETE LINE OF SCHRADER COUPLERS

1/4" BASIC SIZE, MILTON/INDUSTRIAL "M" STYLE

MILTON	AMFLD	ARO	CAMEL	CHAM ITEMS	COILHOUSE	DIXON	NAPA	PARKER	TOMCO	TRU FLATE	SCHRADER
707	C20-21	MSCF21-000			158	DC2021	90-663	B23A	183		SC20-21
708	C20-01	MSCM21-000			159	DC2101	90-661	B22A	M180		SC20-01
715	C20-AU						90-669				SC20-AU
716	C20						90-470				SC20
717	C21	MSCF22-000	61-572	9-871	158	DC2023	90-667	B23	M184	13-201	SC20-23
717-6	C20-42	MSCM22-000	61-573	9-870	158	DC2103	90-657	B22	M181	13-230/13-236	SC20-42
718	C20-44	MSCF23-000	61-574	9-869	150	DC2101	90-475	B22E	M185	13-244	SC21
719	C20-23	MSCM23-000	61-575	9-869	153	DC2042	90-472	B20-3D	M182	13-246	SC20-23
724	C21-03	MSCF23-000					90-471				SC21-03
725	CP21-01	MSCM23-000									SC21-01
728	CP21	23902-110			151	DCP2021	90-476	H2C	1802	13-226	SC21-01
729	CP20	23902-210	61-578		158	DC2103	90-467	B23E	M185	13-246	SC20-23
731	CP20-21	23902-200	61-579	9-854	1504	DCP2101	90-475	B22E	M187	13-226	SC21-03
732	CP22	23902-100		9-855	1502	DCP20	90-476	H2C	1804	12-224/12-225	SCP21-01
733	CP20-23	23902-3	61-023		1509	DCP2021	90-665	H1C	1805	12-234/12-235	SCP21
736	CP21-03	23902-310			1585	DCP2023	90-459	H2C-E	1807	12-236	SCP22
736-4	CP21-42	23902-220	61-535		1506	DCP2103	90-477	H2C	1806	12-226	SCP20-23
736-4	CP21-44	23902-420	61-576		1503	DCP2142	90-477	H2C-E	1806	12-226	SCP21-42
756	CA08	MSCF22-000			1506	DCP2144	90-473	H2C-E	1826	12-266	SCP21-42
756	CA18	MSCM22-000	61-013		1508	DCB20	90-419	H2C	181	13-255	SCP21-44
1717-4	C20-44L	MSCF23-000	61-011			DCB21	90-419	B32	184	13-255	SCP21-44
1736-4	CP21-42L	MSCM23-000						B20-3BP	M189	13-256	SC08
1736-4	CP21-44L	23902-29						B20-3BP	M190		SC41B
		23902-27						H2CP	1850		SC20-42L
								H2CP	1807		SC20-44L
								H2CP	1807		SCP21-44L

NOTE: Corresponding numbers functionally interchange, even though some Coupler Bodies listed are "Push Type."
NOTE: Schrader does not guarantee the accuracy of this interchange. To be used as reference only.

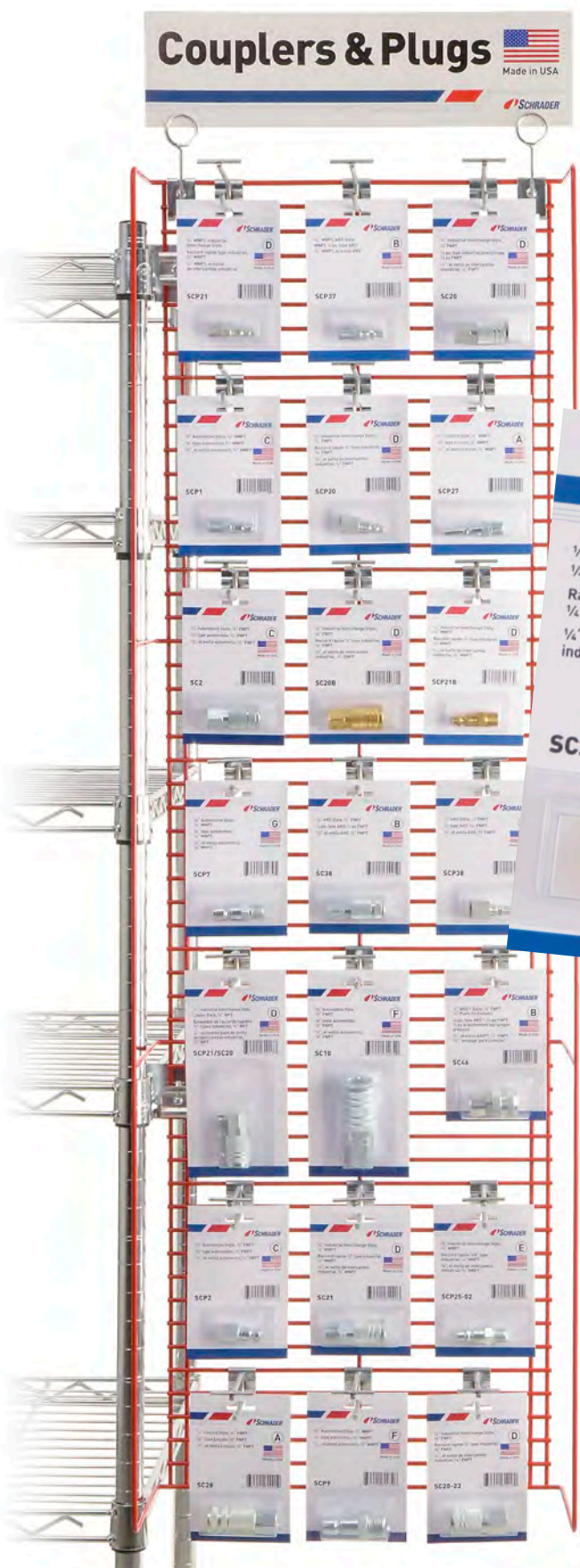
Page 1 of 4

Technical questions can be answered by contacting our technical support department at 1.800.288.1804 x8620 or email: techservice@schraderintl.com

Ask your salesperson for a copy of our Coupler & Plug interchange or visit www.schraderinternational.com and search for Coupler & Plug Interchange or follow the link below.

http://www.schraderinternational.com/Document-Library/NA-CP-Interchange?sc_lang=en-US-NA





Display 4 each of the most common couplers & plugs

SCPMERCH01

Schrader Couplers & Plugs are made by Americans in Altavista, Virginia, USA to the highest standards using the highest grade materials. Count on Schrader quality couplers & plugs to perform better and last longer than the foreign made competition.

Schrader Couplers & Plugs provide a fast, easy and reliable means of joining pneumatic transfer lines.

Our Coupler & Plug merchandiser rack SCPMERCH01 includes 4 each of our top 21 selling couplers and plugs. Mating products expands the list to 27. Total package includes rack, hooks and header card.

Rack measures 15" wide x 47" tall x 6" deep and includes brackets to hang on an end cap or free standing rack.

Our full line of couplers and plugs are also available in bulk and can be ordered by calling our customer service line at 800.288.1804 x8869.

Our full line Coupler & Plug catalog can be downloaded from our website and available through our customer service representatives.



WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.

Turn a square foot of counter space into a profit center...



SCPMERCH02

Our Coupler & Plug merchandiser display SCPMERCH02 includes 2 each of our top 21 selling couplers and plugs. Expanding the assortment to include mating products would expand the list to 27. Total package including 21 carded products, rack, hooks and

header card
Rack measures 11.8" wide x 22.5" tall x 8.6" deep and uses just 1 square foot of valuable counter space.



Our full line of couplers and plugs are also available in bulk and can be ordered by calling our customer service line at 800.288.1804 x8869.

Visit our website or call customer service for a table containing pricing and details of the contents of this US Made Couplers & Plug merchandiser (SCPMERCH02).

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

WARNING: Handling the brass parts of this product will expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Wash hands after handling.



SCHRADER-USA

205 FRAZIER ROAD
ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 ▶▶ SCHRADERINTERNATIONAL.COM

Coupler & Plug Catalog 07082015



Schrader International, Inc. • 205 Frazier Road, Altavista, VA 24517 • 434.369.4741 • SchraderIntl.com



INTERCHANGE INFORMATION ON COMPLETE LINE OF SCHRADER COUPLERS											
MILTON	AMFLO	ARO	CAMEL	CHAMP ITEMS	COILHOUSE	DIXON	NAPA	PARKER	TOMCO	TRU FLATE	SCHRADER
1/4" BASIC SIZE, MILTON/INDUSTRIAL "M" STYLE											
707	C20-21	MSCF21-000			158	DC2021	90-663	B23A	183		SC20-21
708	C20-01	MSCM21-000			159	DC2101	90-661	B22A	M180		SC20-01
711	C-20-AU		61-572	9-871			90-669			13-201	SC-20-AU
715	C20	MSCF22-000	61-573	9-870	150	DC20	90-670	B23	M184	13-235/13-236	SC20
716	C21	MSCM22-000	61-574	9-869	152	DC21	90-672	B22	M181	13-224/13-225	SC21
717	C20-42	MSCH22-000	61-575		153	DC2042	90-671	B20-3B	M186	13-264	SC20-42
717-6	C20-44	MSCH23-000							M187	13-266	SC20-44
718	C20-23	MSCF23-000			151	DC2023	90-667	B23E	M185	13-236	SC20-23
719	C21-03	MSCM23-000			155	DC2103	90-657	B22E	M182	13-226	SC21-03
726	CP21-01	23902-110			1504	DC2101	90-675	H0C	1802		SCP21-01
727	CP21	23902-210	61-578	9-854	1501	DCP21	90-674	H2C	1804	12-224/12-225	SCP21
728	CP20	23902-200	61-579	9-855	1502	DCP20	90-676	H3C	1805	12-234/12-235	SCP20
729	CP20-21	23902-100			1509	DCP2021	90-665	H1C	729		SCP20-21
731	CP22		61-023								SCP22
732	CP20-23	23902-3			1505	DCP2023	90-659	H3C-E	1807	12-236	SCP20-23
733	CP21-03	23902-310	61-535		1503	DCP2103	90-677	H2C-E	1806	12-226	SCP21-03
736	CP21-42	23902-220	61-576		1506	DCP2142	90-673	H8C	1824	12-264	SCP21-42
736-6	CP21-44	23902-420			1508	DCP2144		H9C	1826	12-266	SCP21-44
755	C40B	MSCF22-X00	61-013			DCB20	90-615	B33	184	13-755	SC40B
756	C41B	MSCM22-X00	61-011			DCB21	90-617	B32	181	13-756	SC41B
1717-4	C20-42L	MSCP22-000						B20-3BP	M189		SC20-42L
1717-6	C20-44L	MSCP23-000						B20-5BP	M190		SC20-44L
1736-4	CP21-42L	23902-27						H8CP	1850		SCP21-42L
1736-6	CP21-44L	23902-27						H9CP	1860		SCP21-44L

NOTE: Corresponding numbers functionally interchange, even though some Coupler Bodies listed are "Push Type."

NOTE: Schrader does not guarantee the accuracy of this interchange. To be used as reference only



Schrader International, Inc. • 205 Frazier Road, Altavista, VA 24517 • 434.369.4741 • SchraderIntl.com

INTERCHANGE INFORMATION ON COMPLETE LINE OF SCHRADER COUPLERS

MILTON	AMFLO	ARO	CAMEL	CHAMP ITEMS	COILHOUSE	DIXON	NAPA	PARKER	TOMCO	TRU FLATE	SCHRADER
1/4" BASIC SIZE, ARO "A" STYLE											
775	C38/C46	210	61-518/61-526	9-865	140	DC38	90-644/90-613	B53	100/M100	13-334/13-335 13-774/13-775	SC38/C46
776	C37/C45	210-212	61-527/61-581	9-867		DC37	90-645/90-679	B50-3BP	101/M101	13-324/13-325	SC37/C45
776-4	C38-42	210-022				DC3842		B50-5BP	104/M104		SC38-42
776-6	C38-44	210-215				DC3844			105/M105		SC38-44
777	CP37	2608	61-528	9-850	1401	DCP37	90-618	A2C	200	12-324/12-325	SCP37
777-4	CP37-42	3946			1406	DCP3742		A8C	400		SCP37-42
777-6	CP37-44	22238				DCP3744			500		SCP37-44
778	CP38	2609	61-529	9-851	1402	DCP38	90-620	A3C	300	12-334/12-335	SCP38
1776-4	C38-42L	210-227									SC38-42L
1776-6	C38-44L	210-028									SC38-44L
1777-4	CP37-42L	6944						A8CP			SCP37-42L
1777-6	CP37-44L										SCP37-44L

1/4" BASIC SIZE, TRU-FLATE/PARKER "T" STYLE

779	CP12		61-544							12-104	SCP12
780			61-543				90-634				
781	CP14		61-552				90-652				SCP14
783	CP1	TFPM22-000	61-538	9-859	1601	DCP1	90-624	2C	2154	12-124/12-125	SCP1
783-4	CP1-42	TFPH22-000			1606	DCP142	90-628	8C	2164	12-117	SCP1-42
783-6	CP1-44	TFPH23-000			1608	DCP144	90-630	9C	2166		SCP1-44
784	CP2	TFPF22-000	61-539	9-860	1602	DCP2	90-626	3C	2155	12-134/12-135	SCP2
785	C2	TFCF22-000	61-523	9-862	160	DC2	90-600	B13	M2184	13-134/13-135	SC2
786	C1	TFCM22-000	61-524	9-861	162	DC1	90-610	B12	M2181	13-124/13-125	SC1
786-4	C2-42	TFCH22-000			163	DC242	90-607	B10-3B	M2186	13-164	SC2-42
786-6	C2-44	TFCH23-000			166	DC244	90-611	B10-5B	M2188		SC2-44
787	C2R		61-487/61-545	9-863			90-609/90-638		M2185	13-136/13-137	SC2R
788	C2-23	TFCF23-000	61-704						M2182		SC2-23
789	C1-03	TFCM23-000	61-702			DC103					SC1-03
1783-4	CP1-42L	TFPP22-000						8CP	2164		SCP1-42L
1783-6	CP1-44L	TFPP23-000						9CP	2160		SCP1-44L
1786-4	C2-42L	TFCH22-000						B10-3BP	M2189		SC2-42L
1786-6	C2-44L	TFCH23-000						B10-5BP	M2190		SC2-44L

NOTE: Corresponding numbers functionally interchange, even though some Coupler Bodies listed are "Push Type."

NOTE: Schrader does not guarantee the accuracy of this interchange. To be used as reference only



Schrader International, Inc. • 205 Frazier Road, Altavista, VA 24517 • 434.369.4741 • SchraderIntl.com



INTERCHANGE INFORMATION ON COMPLETE LINE OF SCHRADER COUPLERS

MILTON	AMFLO	ARO	CAMEL	CHAMP ITEMS	COILHOUSE	DIXON	NAPA	PARKER	TOMCO	TRU FLATE	SCHRADER
1/4" BASIC SIZE LINCOLN "L" STYLE											
790	C28	LNCF22-000	61-548	9-866	170	DC28	90-644	B73	1100	13-434/13-435	SC28
791	CP27	LNPM22-000	61-550	9-852	1701	DCP27	90-648	L2C	1109	12-424/12-425	SCP27
792	CP28	LNPF22-000	61-551	9-853	1702	DCP28	90-650	L3C	1110	12-434/12-435	SCP28
794	C27	LNCM22-000	61-486	9-868		DC27	90-645		1101	13-424/13-425	SC27
1/4" BASIC SIZE DU "D" STYLE											
795	C30										SC30
796	C31										SC31
797	CP33										SCP33
798	CP34										SCP34
3/8" BASIC SIZE, MILTON/INDUSTRIAL "H" STYLE											
1796-6	C26-44L	MSCP33-000						24-5BP			SC26-44L
1797-6	CP25-44L	23903-28						H5EP			SCP25-44L
1833	C26-22	MSCM32-000			582	DC2622	90-629	25C	T400		SC26-22
1834	C25-02						90-625		T430		SC25-02
1835	C26	MSCF33-000	61-482		580	DC26	90-680	25	T420	13-536/13-537	SC26
1836	C25	MSCM33-000	61-483		581	DC25	90-682	24	T430	13-526/13-527	SC25
1836-6	C26-44	MSCH33-000			586	DC2644	90-635	24-6B	T480		SC26-44
1837	CP25	23903-310	61-484		5801	DCP25	90-683	H2E	T42	12-526/12-527	SCP25
1837-6	CP25-44	23903-420			5806	DCP2544	90-651	H5E	T48		SCP25-44
3/8" BASIC SIZE, MILTON/INDUSTRIAL "H" STYLE (Continued)											
1838	CP26	23903-300	61-485		5802	DCP26	90-681	H3E	T43	12-536/12-537	SCP26
1839	CP25-02	23903-210			5803	DCP2502	90-605	H0E	T40		SCP25-02
1840	CP26-22	23903-200			5804	DCP2622	90-606	H1E	T41		SCP26-22
3/8" BASIC SIZE, ARO "AA" STYLE											
1875	C36	310				DC36	90-597				SC36
1877	CP35	3804				DCP35	90-598				SCP35
1878	CP36	3806				DCP36	90-599				SCP36

NOTE: Corresponding numbers functionally interchange, even though some Coupler Bodies listed are "Push Type."
 NOTE: Schrader does not guarantee the accuracy of this interchange. To be used as reference only



Schrader International, Inc. • 205 Frazier Road, Altavista, VA 24517 • 434.369.4741 • SchraderIntl.com



INTERCHANGE INFORMATION ON COMPLETE LINE OF SCHRADER COUPLERS

MILTON	AMFLO	ARO	CAMEL	CHAMP ITEMS	COILHOUSE	DIXON	NAPA	PARKER	TOMCO	TRU FLATE	SCHRADER
3/8" BASIC SIZE, TRU-FLATE/PARKER "P" STYLE											
1746-6	C6-44L	TFCP23-000						14-5BP	PT480P		SC6-44L
1747-6	CP5-44L	TFPP23-000						5EP	PT18P		SCP5-44L
1803	C8	TFCF32-000	61-476	9-939	592	DC8	90-686	15C	PT400	13-610/13-611	SC8
1804	C7	TFCM32-000	61-478				90-684		PT430	13-602	SC7
1805	C6-44L	TFCF33-000	61-553	9-942	590	DC6	90-654	15	PT420	13-612/13-613	SC6-44L
1806	C5	TFCM33-000	61-554	9-938	591	DC5	90-656	14	PT430	13-604	SC5
1806-6	C6-44	TFCH33-000					90-521	14-5B	PT480	13-666	SC6-44
1807	CP5	TFPM33-000	61-558	9-873	5901	DCP5	90-538	2E	PT42	12-604/12-605	SCP5
1807-6	CP5-44	TFPH33-000					90-530	5E	PT48		SCP5-44
1808	CP6	TFPF33-000	61-559	9-875	5902	DCP6	90-660	3E	PT43	12-612	SCP6
1809	CP7	TFPM32-000	61-480	9-872	5903	DCP7	90-685	0E	PT40	12-602/12-603	SCP7
1810	CP8	TFPF32-000	61-481	9-874	5904	DCP8	90-687	1E	PT41	12-610	SCP8
1/2" BASIC SIZE, MILTON/INDUSTRIAL "G" STYLE											
1813	C10-23	TFCF43-000	61-472		123	DC1023	90-690	17E	T500	13-710	SC10-23
1814	C9-03	TFCM43-000			121	DC903	90-688	16E	T510	13-702	SC9-03
1815	C10	TFCF44-000	61-563	9-945	120	DC10	90-662	B37	T520	13-712/13-713	SC10
1816	C9	TFCM44-000	61-564	9-943	122	DC903	90-664	B36	T530	13-704	SC9
1855									T50		
1857	CP17	23904-410	61-134		1201	DCP17	90-578	H2F	T54	12-752	SCP17
1858	CP18	23904-400	61-137		1202	DCP18	90-588	H3F	T55	12-762	SCP18
1859	CP17-03	23904-310	61-133		1203	DCP1703	90-575	H0F	T52		SCP17-03
1860	CP18-23	23904-3	61-136		1204	DCP1823	90-587	H1F	T53		SCP18-23
1/2" BASIC SIZE, TRU-FLATE/PARKER "G" STYLE											
1813	C10-23	TFCF43-000	61-472	9-994	123	DC1023	90-690	17E		13-710	SC10-23
1814	C9-03	TFCM43-000			121	DC903	90-688	16E		13-702	SC9-03
1815	C10	TFCF44-000	61-563	9-945	120	DC10	90-662	B37		13-712/13-713	SC10
1816	C9	TFCM44-000	61-564	9-943	122	DC9	90-664	B36		13-704	SC9
1817	CP9	TFPM44-000	61-568	9-935		DCP9	90-666	2F		12-704/12-705	SCP9
1818	CP10	TFPF44-000	61-569	9-937		DCP10	90-668	3F		12-712	SCP10
1/2" BASIC SIZE, TRU-FLATE/PARKER "G" STYLE (Continued)											
1819	CP9-03	TFPM43-000	61-474	9-934		DCP903	90-689	0F		12-702	SCP9-03
1820	CP10-23	TFPF43-000	61-475	9-936		DCP1023	90-691	1F		12-710	SCP10-23

NOTE: Corresponding numbers functionally interchange, even though some Coupler Bodies listed are "Push Type."

NOTE: Schrader does not guarantee the accuracy of this interchange. To be used as reference only

VALVE CORES

▶▶ VALVE CORES, VALVE CORE TOOLS AND ACCESSORIES



A Schrader® valve consists of a hollow cylindrical metal tube, typically brass, with the exterior end threaded. The interior end form varies depending on the application of the valve. In the center of the exterior end is a metal pin pointing along the axis of the tube; end of the pin is approximately flush with the end of the valve body.

There are a number of options for customers wishing to purchase valve cores in both the OEM and aftermarket sectors, see the product part tables following for more information.

Most Schrader® valves have threads and bodies with a standard exterior size allowing for use of universal caps and tools. A Schrader® valve can be used to control air, nitrogen, R12, R22, R134a, HFO-1234-YF, oils, Halon, SF₆, Petrols, butane and other controllable media.

Construction information

Materials

Brass, Stainless Steel (spring)

Sealing Materials

Polychloroprene (Neoprene), Nitrile-Butadiene (Nitrile), Hydrogenated Nitrile-Butadiene (Butadiene), Fluorocarbon (Viton®, GFLT), Silicone, Epichlorohydrin, Silastic.

Finish

No Plating, Nickel or Tin plated Brass

Valve cores are defined by their characteristics, and depending on the type selected, these characteristics vary depending on the material, the finish and the design of each valve core.

- **Opening Pressure:** This is the typical air pressure necessary to overcome the resistance of the spring that keeps the valve closed, allowing air to pass through.
- **Minimum and Maximum Travel:** This is the recommended distance the pin can travel without damaging the valve core. This information can be found on specific Schrader drawings.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

All Schrader® valve cores are compatible with existing U.S.A. standards, manufacturing valves for air tanks, steel barrels, compressors and other pneumatic containers where dependable automatic valves are needed. Schrader also offers a variety of service tools to install, remove or repair valves.

OEM sales information: Available worldwide in medium to high quantities Application specific orders welcomed.

Aftermarket sales information: Schrader offers a range of standard, large bore, airplane and special valve cores through the aftermarket/replacement sector.

Tank Valves

High Pressure Valves

Build Your Own Valve

Valve Cores

Air System Fittings

TPMS (Tire Pressure Monitoring System)

Couplers and Plugs

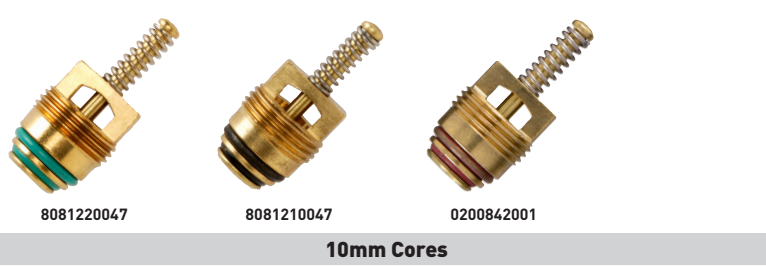
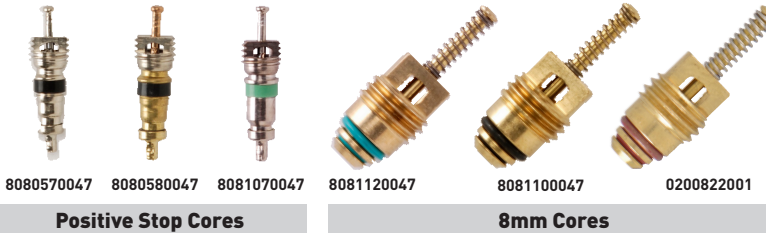
Schrader International, Inc. reserves the right to change any of the following specifications without notice. This document is meant to be used as reference only. For more specific information, or information regarding cores not listed here, please contact Schrader International, Inc.



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

VALVE CORES

Air Conditioning



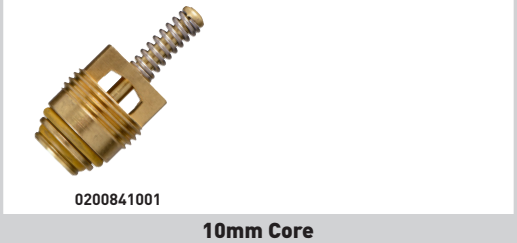
Miscellaneous



Standard Air



Fuel System Cores



Valve Core Assortment Kit
Part# 0200000001

For application details please contact your Schrader Sales representative.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

Air Conditioning

Part No.	Opening Pressure PSIG	Max. Working Pressure PSIG	Temp Range °F	Installation Torque IN.-LBS	Core Type	Dynamic Sealing Surface	Surface Finish
8080570047	40	800	-20 to 220	3-5	Standard	Neoprene	Plated
8080580047	40	800	-20 to 220	3-5	Standard	Neoprene	Unplated
8081070047	40	800	-10 to 300	3-5	Standard	HNBR	Plated
8081100047	N/A	800	-40 to 245	10-20	8mm	Neoprene	Unplated
8081120047	N/A	800	-40 to 245	10-20	8mm	HNBR	Unplated
8081210047	N/A	800	-40 to 245	15-30	10mm	Neoprene	Unplated
8081220047	N/A	800	-40 to 245	15-30	10mm	HNBR	Unplated
0200822001	N/A	800	-40 to 300	10-20	8mm	HNBR	Unplated
0200842001	N/A	800	-40 to 300	15-30	10mm	HNBR	Unplated
8081530070	N/A	800	-40 to 245	5-10	JRA	HNBR	Plated
8081540070	N/A	800	-40 to 245	5-10	JRA	HNBR	Unplated
8081910047	N/A	400	-40 to 210	3.5-7	Std. European	Chloroprene	Plated
8089000070	N/A	400	-40 to 210	6.2-9.7	8mm European	Chloroprene	Plated

Standard Air

Part No.	Opening Pressure PSIG	Max. Working Pressure PSIG	Temp Range °F	Installation Torque IN.-LBS	Core Type	Dynamic Sealing Surface	Surface Finish
045750035	25 to 35	200	-40 to 165	3-5	Standard	Nitrile	Unplated
054051000	90	250	-65 to 300	3-5	Standard	Silicone	Plated
062310199	50	200	-65 to 300	3-5	Large Bore	Silicone	Plated
085000020	60 to 75	300	-40 to 225	3-5	Standard	Nitrile	Unplated

Fuel System Cores

Part No.	Opening Pressure PSIG	Max. Working Pressure PSIG	Temp Range °F	Installation Torque IN.-LBS	Core Type	Dynamic Sealing Surface	Surface Finish
8080721047	40	500	0 to 450	3-5	Standard	Viton®	Plated
8080731047	40	500	-40 to 450	3-5	Standard	Viton®	Plated
8080801047	40	500	-30 to 400	3-5	Standard	GFLT	Plated
061810020	45	500	-20 to 350	3-5	Standard	Viton®	Unplated
0200841001	N/A	800	-40 to 400	15-30	10mm	Viton®	Unplated

Miscellaneous

Part No.	Opening Pressure PSIG	Max. Working Pressure PSIG	Temp Range °F	Installation Torque IN.-LBS	Core Type	Dynamic Sealing Surface	Surface Finish
015660113	0.2 to 4	150	-10 to 165	3-5	Standard	Nitrile	Plated
062310199	50	200	-65 to 300	3-5	Large Bore	Red Silicone	Plated
060350001*	50	550	-65 to 350	3-5	Standard	Silastic	Plated
099141117	80	4000	-40 to 225	3-5	Standard	Nitrile	Plated
8039700047	N/A	200	-2 to 167	3-5	Standard	Nitrile	Plated

*no longer certified for aircraft use

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

VALVE CORE INSTALLATION

Installation Guide

Scope

This engineering guide is to cover the installation and application recommendations for the use of standard valve cores in all automotive and industrial applications.

Product Type

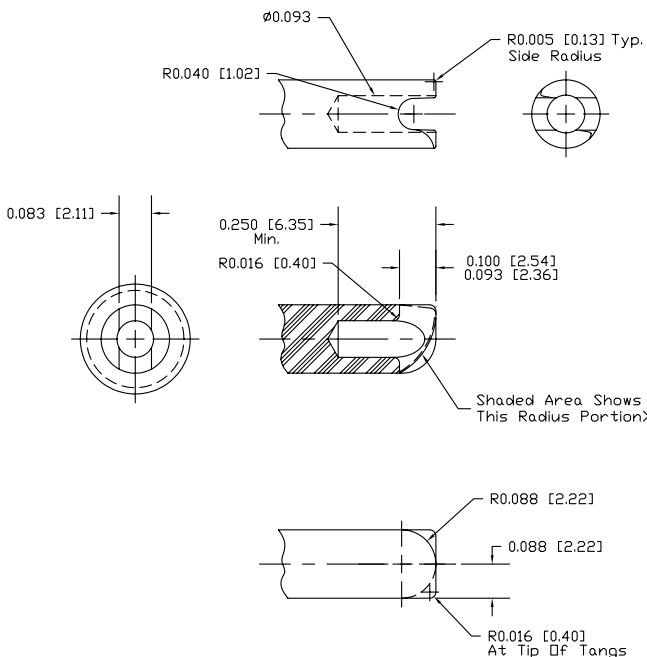
Standard valve cores are defined by ISO (International Standards Organization), TRA (Tire & Rim Association) and ARI (American Refrigeration Institute) relative to the application for air, fluid and gas service devices.

Installation Torque

The installation torque for standard cores per ISO is 3 – 5in. lbs. [0.34 – 0.57 Nm]. Breakaway torque is not an accurate way to verify the installation torque due to material, lubricants and other conditions that may exist.

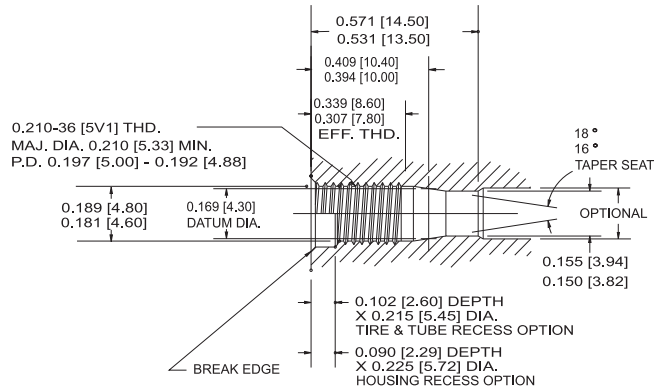
Torque Drivers

For automated assembly, it is recommended to use only drafted torque driver bits that are more forgiving reducing the damage to the valve core creating chips that may cause leaks in the final assembly. [Specifications shown below.]



Temperature Sensitive

It is not recommended to submit the Valve Core assembled into a Valve Body to accelerated temperatures above the normal operating temperatures such as brazing and oven curing for paints and other coating processes. Permanent damage to the seals may occur causing long term sealing problems.



Standard Core Drilling

Core chamber must conform to ISO 7442 and threads must be to ISO 4570/1

All Valve Bodies must conform to the TRA, ISO or ARI recommended standard core drilling to ensure proper seating of the Valve Core to meet the sealing and pin height requirements of the individual industry standards.

Cleanliness

Cleanliness for the Valve Cores and Body must be less than 0.015 grams per 100 parts after final assembly. Using improper torque drivers can cause contamination.

Surface Finish

The importance of a properly machined housing cannot be overemphasized. The surface finish of the taper seat must be smooth without any machining tool marks. The proper taper seat angle must also be met to ensure proper compression of the outer Valve Core sealing material.

Serviceability

No Valve Cores are to be reused under any circumstances after removal from the Valve Body. Always install a new Valve Core when servicing the system for air, fluid or gas applications.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

The right tools for the job

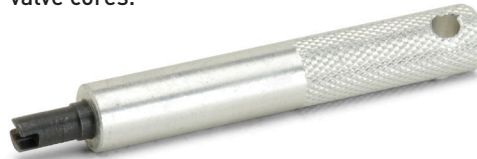
Proper core installation is important to ensure correct pin height and leak free performance. Schrader recommends that tools designed specifically for the task be used. Schrader offers a variety of purpose driven tools for the job.

Meets Tire and Rim Association (TRA) recommended torque values of 3" to 5" in-lb. on TRC1 valve cores. Serves as both a core remover and installer. Order individually. (One per box)



20141

Standard handle core tool for standard valve cores.



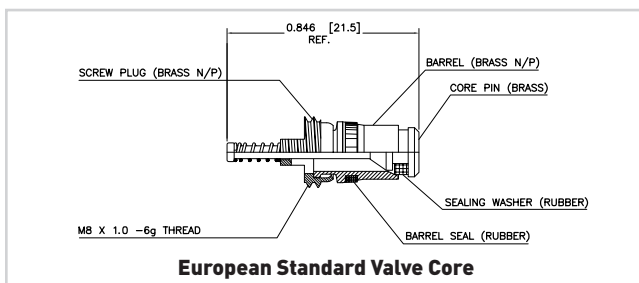
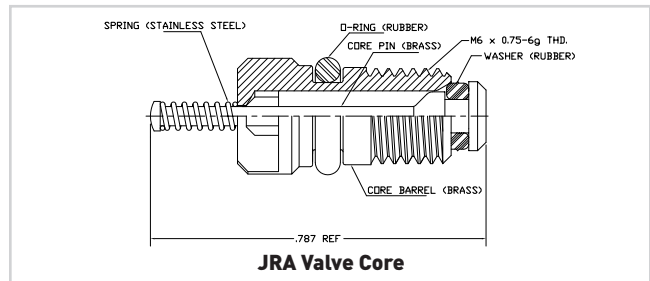
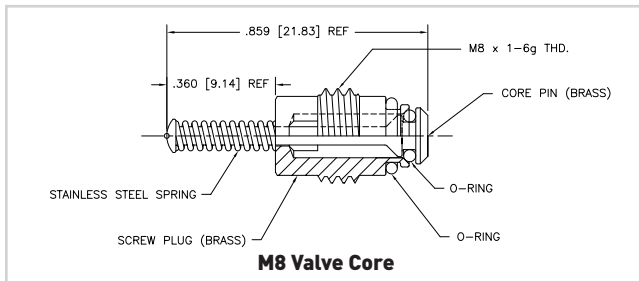
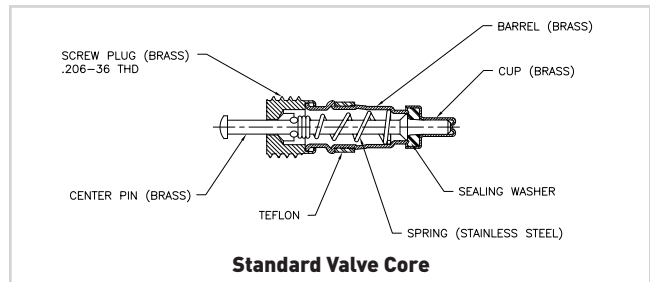
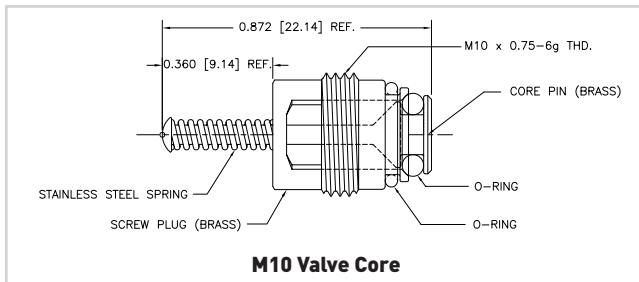
296970

4-way valve core tool



90-344

Other tools are available for non-standard cores.



The valve core is made up of 3 main pieces:

- a screw plug for screwing the valve core into its housing.
- a Teflon® seal with its joint providing a static seal to the valve body.
- a valve with its spring for introducing or draining fluid
- and guaranteeing sealing under pressure in the rest position.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



SCHRADER-USA

205 FRAZIER ROAD
ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 ▶▶ SCHRADERINTERNATIONAL.COM

Valve core brochure - 09142016

SCHRADER TANK VALVES

- ▶▶ FOR USE IN AIR BLADDER APPLICATIONS, BICYCLE SUSPENSION SYSTEMS, TELECOMMUNICATIONS, WATER STORAGE SYSTEMS, ETC.



TANK VALVES

Demand an authentic Schrader valve built by the company that set the quality standard for tank valves more than 50 years ago. Our reliable valves make us the industry leader in performance.

Schrader's experienced product development staff provides unique solutions for unique applications. Schrader can meet requirements and specifications for performance, size-weight, and cost, whether it is a single component, sub assembly or module.

Existing Tank Valve applications cover many and varied uses from telecommunications to water storage. Schrader Tank Valves fit your application dependably and economically.

Don't see a combination you need? Contact Schrader or your nearest Schrader Distributor.

Applications

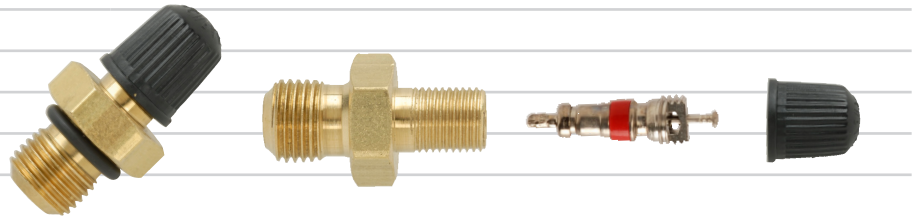
Water Storage

Air Bladder Applications

Telecommunications

Bicycle Suspension Systems

Multiple Fluids Compatibility



Schrader International, Inc. reserves the right to change any of the following specifications without notice. This document is meant to be used as reference only. For more specific information, or information regarding cores not listed here, please contact Schrader International, Inc.

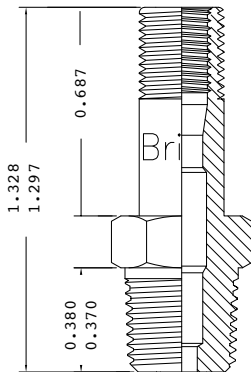
TANK VALVE INFORMATION

CURRENT HOUSING #	OLD MONROE HOUSING #	OVERALL LENGTH	THREAD SIZE	HEX SIZE
560	1498	1.312	1/4-18" NPT	9/16"
900	645	1.312	1/8-27" NPT	7/16"
901	1468	1.312	1/8-27" NPT	7/16"
904	9166	0.860	1/8-27" NPT	7/16"
906	NONE	0.937	1/8-27" NPT	7/16"
566	NONE	1.060	1/8-27" NPT	7/16"
557	NONE	1.000	1/4-18" NPT	9/16"

OLD NOMENCLATURE CONVERSION

HOUSING #	LETTER/CORE #	NUMBER/CAP #	ALTAVISTA/ CAP #	REMARKS
645	H = 2300	-5 = 2525 CAP	132790	2300 core replaced by 099141117
1468	L = 8500	-6 = 6300C CAP	074931	8500 core replaced by 8080570047
1498	M = 1566	-8 = 7572 CAP	084421	
9166	P = 5405	-9 = 7612 CAP	761200	
	S = 6181	-11 = 7572S CAP	075720329	6181 core can be replaced by 8080801047
	W = 9914	-17 = 440 CAP	059980000	
	X = 6035	-18 = 660 CAP	135853	
		-20 = 2316C CAP	074501	

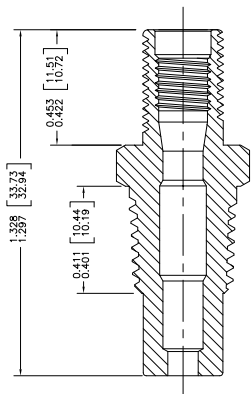
Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



900 Series Tank Valves Cap Thread .305-32 Tank Thread 1/8" NPT Low lead (LL) version available

Part Number	Valve Core	Cap	Finish	Application	Remarks
3890000047	015660113	135853	Nickel	Low Pressure	
3890000424	054051000	084421	Brass	Std Air	
3890010047	045750035	074931	Nickel	Low Pressure	
3890011075	054051000	084421	Nickel	Std Air	Loctite on pipe thds
3890030075	054051000		Nickel	Std Air	
3890060075	054051000	084421	Nickel	Std Air	
3890080075	015660113		Nickel	Low Pressure	
8090000070	054051000	074931	Nickel	Std Air	
8090001447	015660113	074931	Nickel	Low Pressure	
8090001547	099141117		Nickel	High Pressure	
8090001647	015660113		Nickel	Low Pressure	
8090001747	099141117	132790	Nickel	High Pressure	
8090001947	060350001	132790	Nickel	High Temp Air	
8090010070			Nickel		Body Only
8090030075	054051000	135853	Nickel	Std Air	
8090040047	8039700047		Brass	Water	Pull Core for Water Systems and Humidifiers
8090050047	054051000	135853	Brass	Std Air	
8090051047	8080588047	074931	Nickel	A/C	Springless Core

901 Series Tank Valves Cap Thread .305-32 Tank Thread 1/8" NPT

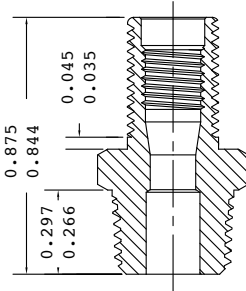


Part Number	Valve Core	Cap	Finish	Application	Remarks
8090113047	8080570047		Nickel	A/C	
8090120070	054051000	074931	Nickel	Std Air	
8090160047	015660113		Nickel	Low Pressure	
8090180047	099141117	132790	Nickel	High Pressure	
8090112047	054051000	084421	Nickel	Std Air	

Note: Valve core dictates pressure. See valve core brochure for details.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

TANK VALVES



904 Series Tank Valves Cap Thread .305-32 Tank Thread 1/8" NPT

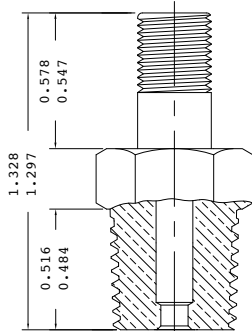
Part Number	Valve Core	Cap	Finish	Application	Remarks
8090400070			Nickel		Body Only
8090400947	054051000	761200	Nickel	Std Air	
8090401047	099141117	132790	Nickel	High Pressure	
8090401247	015660113	074931	Nickel	Low Pressure	
8090401347	054051000	231600	Nickel	Std Air	
8090401647	8080570047	074931	Nickel	A/C	
8090401847	8080570047	084421	Nickel	A/C	
8090410075	054051000		Nickel	Std Air	
8090411075	054051000	084421	Nickel	Std Air	
8090413047	054051000	135853	Nickel	Std Air	
8090420075	8080721047	084421	Nickel	Fuel	
8090430047	099141117	761200	Nickel	High Pressure	
8090440075	054051000		Nickel	Std Air	#79 locknut included
8090450047	054051000	115500	Nickel	Std Air	
8090470075	8080721047	135853	Nickel	Fuel	
8090480070			Brass		Body Only
8090490075	8080580047	084421	Nickel	A/C	

906 Series Tank Valves Cap Thread .305-32 Tank Thread 1/8" NPT Low lead (LL) version available

Part Number	Valve Core	Cap	Finish	Application	Remarks
3890600057	054051000	084421	Brass	Std Air	
3890600075			Nickel		Body Only
3890620070	8080721047	084421	Nickel	Fuel	
3890640075	054051000	084421	Nickel	Std Air	
3890641075	054051000	084421	Nickel	Std Air	Loctite® on pipe threads
3890642075	054051000		Nickel	Std Air	Loctite® on pipe threads
3890650075	054051000	135853	Brass	Std Air	
3890670070	8080721047	135853	Nickel	Fuel	Cap packed separately
3890690070	8080721047	084421	Nickel	Fuel	Cap packed separately
8090601347	015660113	135853	Nickel	Low Pressure	
8090601447	099141117	059980000	Nickel	High Pressure	
8090601547	054051000	074931	Nickel	Std Air	
8090601647	045750035	084421	Nickel	Low Pressure	
8090620075	054051000	135853	Nickel	Std Air	
8090630075	8080801047	135853	Nickel	Fuel	Alternative Fuels
8090650075	054051000	084421	Nickel	Std Air	Cap packed separately
8090670047			Brass		Body Only
8090680047	8080580047	084421	Nickel	A/C	
8090690047	099141117	084421	Nickel	High Pressure	

Note: Valve core dictates pressure. See valve core brochure for details.

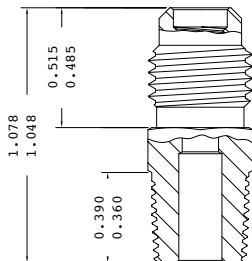
Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



560 Series Tank Valves

Cap Thread .305-32 Tank Thread 1/4" NPT Low lead (LL) version available

Part Number	Valve Core	Cap	Finish	Application	Remarks
8056001147	060350001	059980000	Bright Dip	High Temp Air	
8056011047			Bright Dip		Body Only
8056012047	8080580047	084421	Bright Dip	A/C	
8056013047	015660113	135853	Bright Dip	Low Pressure	
8056014047	015660113	074931	Bright Dip	Low Pressure	
8056015047	015660113	074501	Bright Dip	Low Pressure	
8056016047	015660113	074931	Bright Dip	Low Pressure	
8056017047	015660113		Bright Dip	Low Pressure	
8056020047	054051000	074931	Bright Dip	Std Air	
8056021047	054051000	084421	Nickel	Std Air	
8056030047	015660113	084421	Nickel	Low Pressure	
8056040047	054051000	135853	Bright Dip	Std Air	
8056050047	8080588047	074931	Brass	A/C	Springless valve core
8056060047	8080570047	074931	Bright Dip	A/C	
8056061047	099141117	132790	Bright Dip	High Pressure	
8056062047	8080570047	074501	Bright Dip	A/C	Black Onyx Cap
8056080047	8080721047	084421	Bright Dip	Fuel	
8056090047	054051000	084421	Bright Dip	Std Air	



566 Series Tank Valves

Cap Thread 7/16-20 UNF Tank Thread 1/8" NPT

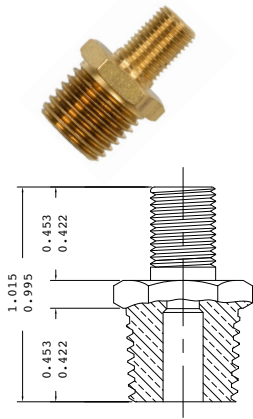
Part Number	Valve Core	Cap	Finish	Application	Remarks
8056610047	8080721047	205080	Bright Dip	Fuel	
8056611047	045750035		Bright Dip	Low Pressure	
8056611147	8080721047	205235	Bright Dip	Fuel	Nylon Refrigeration Cap
8056612047	054051000		Bright Dip	Std Air	
8056620047	8080570047		Bright Dip	A/C	
8056622047	8080580047	205240	Bright Dip		Nylon Refrigeration Cap
8056640047	8080801047	205240	Nickel	Fuel	Nylon Refrigeration Cap
8056650047	8080721047	205080	Nickel	Fuel	
8056670047			Brass		Body Only
8056680047	054051000	205130	Bright Dip	Std Air	
8056683547	8080570047	205080	Bright Dip	A/C	Loctite® on pipe threads
8056690047	8080721047	205235	Nickel	Fuel	Nylon Refrigeration Cap

Note: Valve core dictates pressure. See valve core brochure for details.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

TANK VALVES

557 Series Tank Valves Cap Thread .305-32 Tank Thread 1/4" NPT



Part Number	Valve Core	Cap	Finish	Application
8055700047	8080721047	135853	Brass	Fuel
8055710047	8080721047	074931	Brass	Fuel
8055720047	099141117	132790	Brass	High Pressure
8055730047	054051000		Brass	Std Air

High Pressure Inflating Connectors

These high pressure inflating connections attach securely by hand or wrench to the valve cap threads of high pressure valves. They can be fitted to gauging and inflating devices by a variety of methods. Various angles permit easy attachment to hard-to-reach valves.



Part Number	Generic Number	Thread Size	Air Line Connection	Max. Pressure (PSIG)	Configuration	Recommended Max. Torque to Valve Mouth*	Remarks
005560099	556	.305"-32	1/8" NPT Male	3,000	Air line connection 90 to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550080
027550169	2755	.305"-32	3/8"-24 thread for 3/16" flare tube fitting, meets SAE A54395	3,000	Air line connection 90 to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550080
027550008	2755L Large Bore	.485"-26	3/8"-24 thread for 3/16" flare tube fitting	3,000	Air line connection 90 to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550012
050070099	5007	.305"-32	7/16"-20 thread for 1/4" flare tube fitting, meets SAE AS4395	15,000	Straight	75 in.-lb. for steel valves	Copper sealing washer 027550080
061160001	6116	.305"-32	1/8" NPT Female	3,000	Air line connection 70 to axis of valve	30 in.-lb.	Hard fiber sealing washer 0611650001 (1) pc 0611650025 (25) pcs
057840099	5784	.305"-32	7/16"-20 thread for 1/4" flare tube fitting, meets SAE AS4395	5,000	Air line connection 70 to axis of valve	30 in.-lb.	Hard fiber sealing washer 019370029

* It may be necessary to replace the sealing washers after a number of uses to insure sealing on valve mouth

Note: Valve core dictates pressure. See valve core brochure for details.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

Available Cap Styles

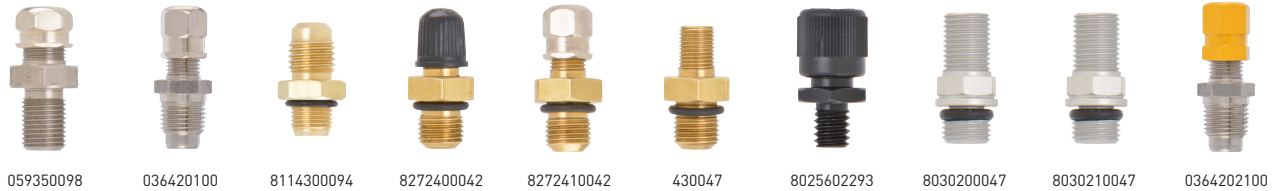
Schrader provides a wide range of caps to meet any application. Caps below are for .305" -32 threads.



Caps below are for 7/16" -20, 1/4" flare threads.



Specialty Valves



Part Number	Valve Core	Cap	Finish	Application	Remarks	Tank Thread	Cap Thread
059350098	023000010	059340098	Stainless	High Pressure	O-Ring, Shock Absorber Valve	1/2-20 UNF-3A	.482-26
036420100	054051000	761200	Stainless	Std Air	With Filter	1/8-27 NPT	.305-32
8114300094	8080580047		Brass	A/C	O-Ring	1/8-28 British	7/16-20 UNF-2A
8272400042	8080721047	135853	Brass	Fuel	O-Ring (H1341 Housing)	M10x1	.305-32
8272410042	099141117	761200	Brass	Fuel	O-Ring (H1341 Housing)	M10x1	.305-32
430047	054051000		Brass	Std Air	O-Ring (H1341 Housing)	M10x1	.305-32
8025602293	8080721047	205255	Blk Chrome	Fuel		5/16-18 UNC-2A	7/16-20 UNF-2A
8030200047	054051000		Aluminum	Std Air	O-Ring	5/16-32 UNEF-2A	.305-32
8030210047	8080731047		Aluminum	Fuel	O-Ring	5/16-32 UNEF-2A	.305-32
0364202100	099141117	132790	Stainless	Std Air	With Filter	1/8-27 NPT	.305-32

Lead-free Tank Valve Assemblies

With recent legislation in several states tightening regulation of lead content in the components of potable (drinking) water systems, Schrader International has developed a line of tank valve assemblies that are compliant with NSF/ANSI Standard 61 Annex G, which limits

Note: Valve core dictates pressure. See valve core brochure for details.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

Valve Cores

Ask for more information to see full valve core selection.



*Low lead (LL) Version available

For a complete list of valve cores, see Product Materials section under Valve Cores at www.SchraderInternational.com to download a complete valve core catalog



SCHRADER-USA

205 FRAZIER ROAD
ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 ▶▶ SCHRADERINTERNATIONAL.COM

Tank Valve brochure - 09142016

Tank valves - low lead

Schrader's line of low lead tank valves are suitable for use with pressurized drinking water systems.

Legislation is now in place to limit the lead content in potable water systems across the nation. Schrader's low lead tank valves meet all state and federal mandates.



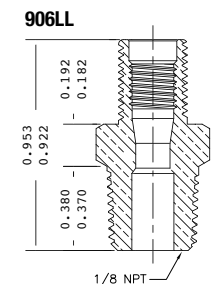
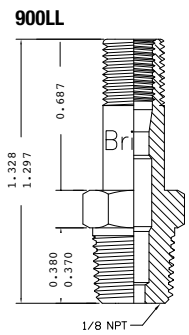
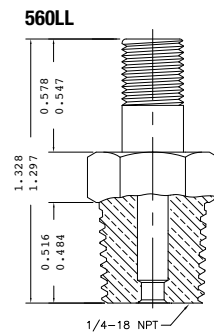
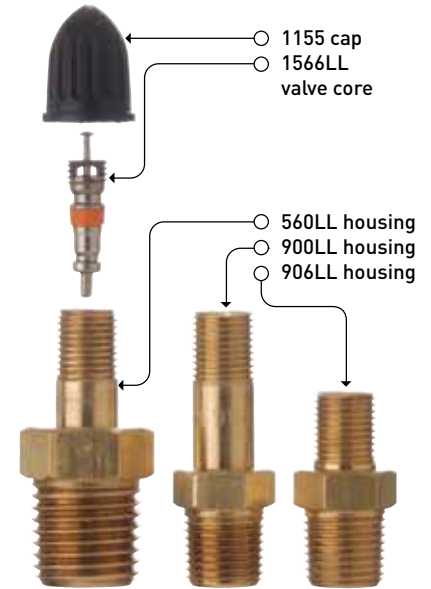
Made Green
in America

Applications

- Beverage dispensers
- Drinking water fountains
- Pressurized water piping
- Fire suppression systems
- Pool plumbing

Features

- Meets no-lead Law requirements
- Stronger alloy (rivals stainless steel)
- Improved corrosion resistance



Specifications subject to change without notice. Items may not be exactly as pictured.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



SCHRADER-USA 205 FRAZIER ROAD ▶ ALTAVISTA, VA 24517
CUSTOMER SUPPORT LINE // 1.800.288.1804 x8817 ▶ SCHRADERINTERNATIONAL.COM

Tank Valves - low lead

PART NUMBER	VALVE CORE	CAP	APPLICATION
904 Series Tank Valves			
0270247001	1566	1155	Low Lead
900 Series Tank Valves			
0270245001	1566	1155	Low Lead
560 Series Tank Valves			
0270246001	1566	1155	Low Lead

Schrader Tank Valves are manufactured in Altavista, Virginia, USA to the most exacting standards using the highest grade materials. Trust Schrader made in USA quality to function better and last longer than the foreign made competition. Schrader low lead Tank Valves are used in a variety of products from soda fountains to well pumps, drinking water fountains to pressurized water piping.



Available Cap Styles

Schrader provides a wide range of caps to satisfy most any application. Caps below are for .305"-32 threads.



*MS20813-1

Caps below are for 7/16"-20, 1/4" flare threads.



Valve caps available to suit most any application priced in quantities to suit your needs. See reverse side for details.

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

Available Cap Styles

Schrader provides a wide range of caps to satisfy most any application.

Part Number	Thread Size	Material	Seal	Pack Size
135853	.305"-32	Black Plastic	No	25/100/1000
074931	.305"-32	Nickel Plated Brass	EPDM	25/100/1000
761200	.305"-32	Nickel Plated Brass	Tin	25/100/1000
084421	.305"-32	Nickel Plated Brass	EPDM	25/100/1000
115500	.305"-32	Black Plastic	NBR	25/100/1000
074501	.305"-32	Black Oxide Brass	EPDM	25/100/1000
132790	.305"-32	Yellow Painted Brass per MS20813-1	Neoprene	25/100/1000
059980000	.305"-32	Chrome Plated Steel	EPDM	25/100/1000
37900-00	.305"-32	Black Plastic	NBR	25/100/1000
20395	.305"-32	Gray Plastic	NBR	100
20495	.305"-32	Aluminum	Yes	100
20995	.305"-32	Black Plastic	NBR	50
20695	.305"-32	Green Plastic	NBR	100
20795	.305"-32	Green Plastic	NBR	100
21095	.305"-32	Black Plastic	NBR	100
205080	7/16"-20, 1/4" flare	Brass	Neoprene	25/100/1000
205130	7/16"-20, 1/4" flare	Brass	Copper	25/100/1000
205235	7/16"-20, 1/4" flare	Black Plastic	Nitrile	25/100/1000
205240	7/16"-20, 1/4" flare	Black Plastic	Neoprene	25/100/1000
205255	7/16"-20, 1/4" flare	Black Plastic	Neoprene	25/100/1000

Contact Schrader for pricing on larger quantities, delivery and additional specs.

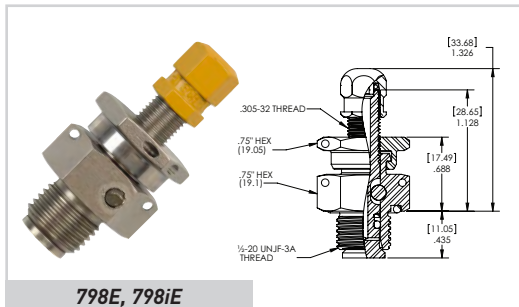
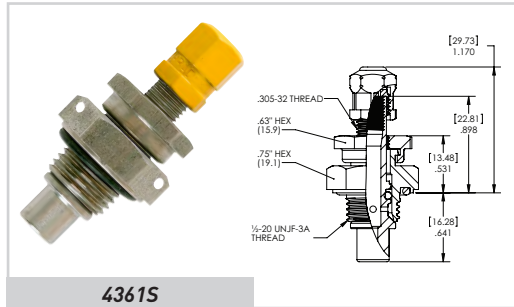
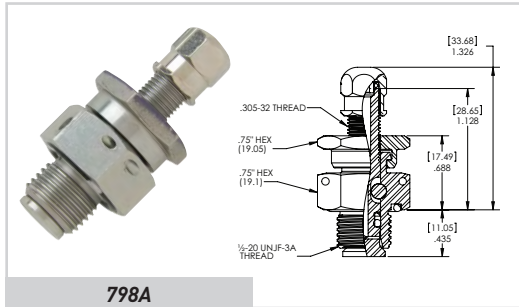
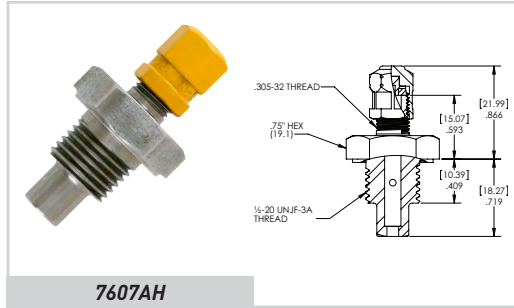
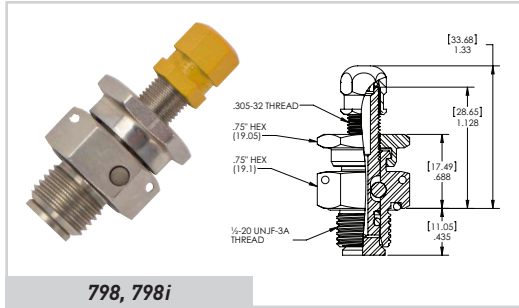
Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

SCHRADER HIGH PRESSURE VALVES & CONNECTORS

▶▶ FOR USE IN HIGH-PRESSURE APPLICATIONS



HIGH PRESSURE VALVES



Schrader High Pressure Valves are constructed of stainless steel bodies and are intended for use in high-pressure air-charged units such as shock absorber struts, hydraulic pressure accumulators, surge cylinders, and pneumatic systems. These valves have a special feature which warns of un-released air pressure when the valve is being separated from the outlet. Contact Schrader for further information on military and commercial adaptations. Valves have 1/2"-20 UNJF-3A threads for connection to container.

High Pressure Valves

Part Number	Generic Number	AN/MS Number	Cap	Core	Working Pressure (PSIG)	Remarks
007987105	798	M-6164-2	132790	-	5,000	o-ring 007980114
007987109	798A	M-6164-5	761200	-	5,000	Meets Boeing spec. BAC-V10T, Nickel plated cap. Compatible with Skydrol #500-A Hydraulic fluid per M-6164-5
007987311	798E	M-6164-2	132790	-	5,000	Lockwire holes in swivel nut
0798001000	798i		132790	-	5,000	Not certified for aircraft use - Industrial use only
0798002000	798iE		132790	-	5,000	Lockwire holes in swivel nut. Not certified for aircraft use - Industrial use only
043617010	4361S	AN-6287	132790	9914	4,000	
076070949	7607AH	AN-812-1	132790	9914	4,000	

- Installation Torque: 120 ± 5 in/lbs (Lubricate o-ring with hydraulic oil) - Does not apply to 7607AH
- Closing Torque: 55 ± 5 in/lbs - Does not apply to 7607AH
- Cap Installation Torque: 5 - 15 in/lbs

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

HIGH-PRESSURE INFLATING CONNECTORS

High Pressure Inflating Connectors

These high pressure inflating connections attach securely by hand or wrench to the valve cap threads of high pressure valves. They can be fitted to gauging and inflating devices by a variety of methods. Various angles permit easy attachment to hard-to-reach valves.



005560099



027550169
027550008



050070099



061160001



057840099

Part Number	Generic Number	Thread Size	Air Line Connection	Max. Pressure (PSIG)	Configuration	Recommended Max. Torque to Valve Mouth*	Remarks
005560099	556	.305"-32	1/8" NPT Male	3,000	Air line connection: 90° to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550080 (25 pack, 100 pack)
027550169	2755	.305"-32	3/8"-24 thread for 3/16" flare tube fitting, meets SAE A54395	3,000	Air line connection: 90° to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550080 (25 pack, 100 pack)
027550008	2755 Large Bore	.485"-26	3/8"-24 thread for 3/16" flare tube fitting	3,000	Air line connection: 90° to axis of valve	50 in.-lb.	Has core depressor pin, copper sealing washer 027550012 (25 pack, 100 pack)
050070099	5007	.305"-32	7/16"-20 thread for 1/4" flare tube fitting, meets SAE AS4395	15,000	Straight	75 in.-lb. for steel valves	Copper sealing washer 027550080 (25 pack, 100 pack)
061160001	6116	.305"-32	1/8" NPT Female	3,000	Air line connection: 70° to axis of valve	30 in.-lb.	Hard fiber sealing washer 0611650025 (25 pack, 100 pack)
057840099	5784	.305"-32	7/16"-20 thread for 1/4" flare tube fitting, meets SAE AS4395	5,000	Air line connection: 70° to axis of valve	30 in.-lb.	Hard fiber sealing washer 019370029 (25 pack, 100 pack)

* It may be necessary to replace the sealing washers after a number of uses to insure sealing on valve mouth



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

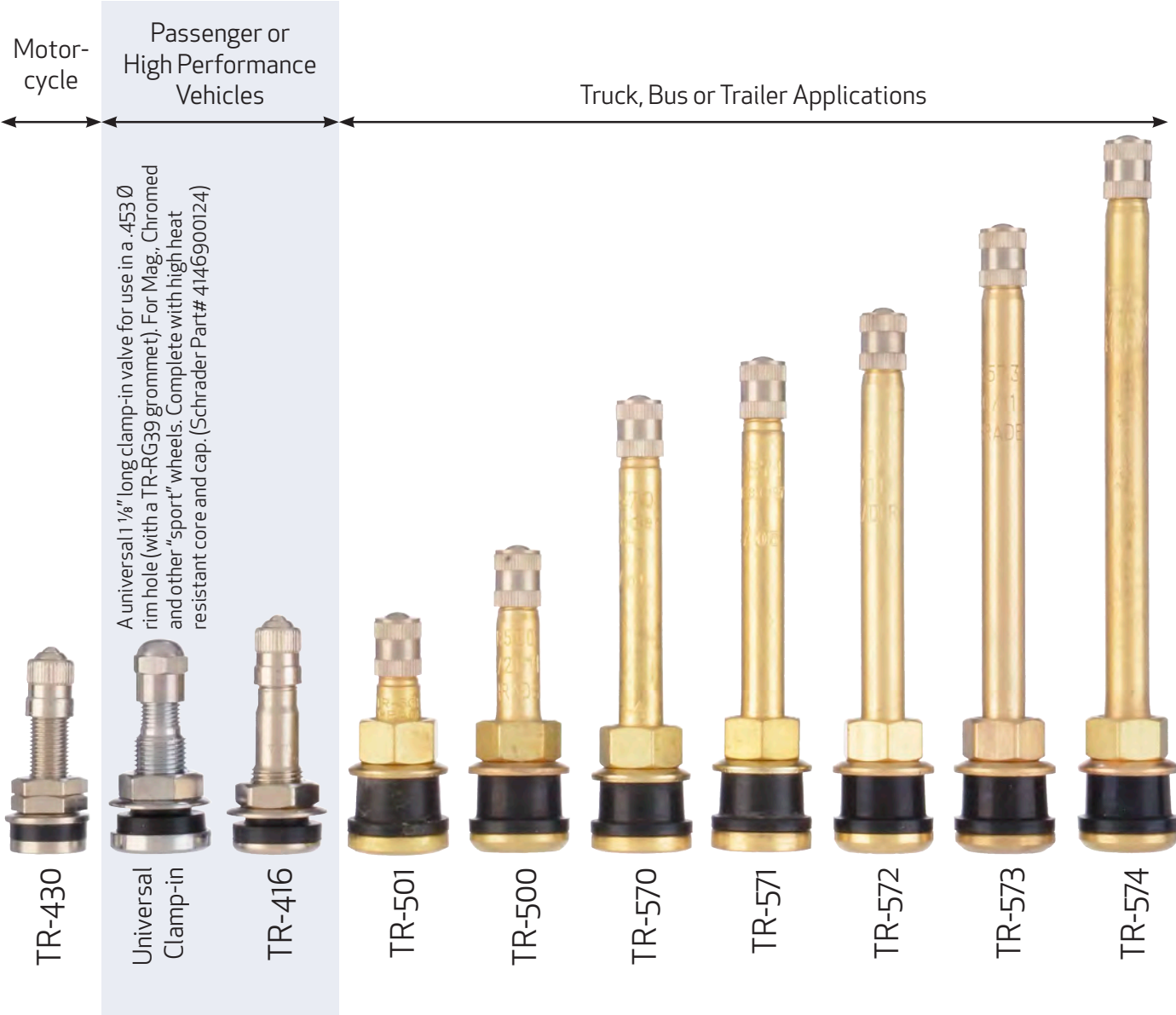


SCHRADER-USA

205 FRAZIER ROAD
ALTAVISTA, VA 24517

Clamp-in Valves

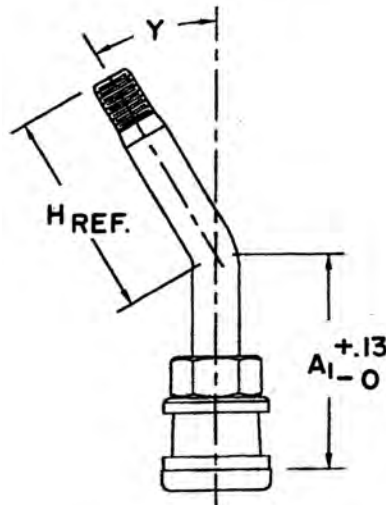
These valves may be bent to the desired configuration in accordance with tubeless valve dimension chart in section nine (9) of the Tire and Rim Book, made to order.



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



Clamp-in Valves



Tool Setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Angle - Y	4°	11°	16°	21°	26°	31°	36°	41°	46°	51°	56°	61°	66°	71°	76°	81°	86°

TOOL SETTING TO PRODUCE LENGTHS A AND H						
Tool Setting	Length H	LENGTHS A, $+.13 - 0$				
		TR 570	TR 571	TR 572	TR 573	TR 574
12	1.50	1.63	1.88	2.25	2.88	3.50
13	1.63	1.50	1.75	2.13	2.75	3.38
14	1.75	1.38	1.63	2.00	2.63	3.25
15	1.88	1.25	1.50	1.88	2.50	3.13
16	2.00	1.13	1.38	1.75	2.38	3.00
17	2.13	1.00	1.25	1.63	2.25	2.88
18	2.25		1.13	1.50	2.13	2.75
19	2.38		1.00	1.38	2.00	2.63
20	2.50		*0.88	1.25	1.88	2.50
21	2.63			1.13	1.75	2.38
22	2.75			1.00	1.63	2.25
23	2.88			*0.88	1.50	2.13
24	3.00				1.38	2.00
25	3.13				1.25	1.88
26	3.25				1.13	1.75
27	3.38				1.00	1.63
28	3.50				*0.88	1.50
29	3.50					1.38
30	3.75					1.25
31	3.75					1.13
32	4.00					1.00

*At A = 0.88, the maximum bend angle is 26°

NOTE: Valve Designation:

TR Valve No. - Tool Setting

Example: TR 570-C12



SCHRADER-USA 205 FRAZIER ROAD ▶ ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 x8817 ▶▶ SCHRADERINTERNATIONAL.COM

Snap-in Tubeless Tire Valves

TR-412



Snap-in Tire Valves for
0.453" Rim Holes

TR-413



TR-414



TR-418



TR-423



Schrader snap-in tubeless tire valves are the same top quality valves used as original equipment on all makes of cars since 1955. Made with a special rubber compound to resist ozone damage and prevent premature deterioration caused by rim hole compression, heat, and cold. Maximum inflation pressure 65 PSI.

Dimensions and specifications on back.

TR-415



Snap-in Tire Valves for
0.625" Rim Holes

TR-600

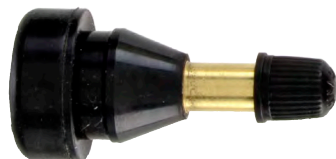


High Pressure Snap-in
Tire Valves for 0.453"
Rim Holes

TR-602



TR-801



High Pressure Snap-in
Tire Valves for 0.625"
Rim Holes

Tubeless snap-in tire valves for high pressure applications are available in two varieties. The 600 series is designed for a maximum inflation pressure of 80 PSI, the 800 series has a maximum inflation pressure of 100 PSI.



SCHRADER-USA 205 FRAZIER ROAD ▶ ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 x8817 ▶ SCHRADERINTERNATIONAL.COM

Snap-in Tubeless Tire Valves

Schrader snap-in tubeless tire valves are the same top quality valves used as original equipment on all makes of cars since 1955. Made with a special rubber compound to resist ozone damage and prevent premature deterioration caused by rim hole compression, heat, and cold. Maximum inflation pressure is 65 PSI.

Snap-in Tire Valves for 0.453" Rim Holes			
Schrader Part Number	Tire & Rim Number	Effective Length	Max. PSI
3141200042	TR412	0.875"	65
3141300042	TR413	1.25"	65
3141400042	TR414	1.500"	65
3141800042	TR418	2.000"	65
3142300142	TR423	2.500"	65

Snap-in Tire Valves for 0.625" Rim Holes			
Schrader Part Number	Tire & Rim Number	Effective Length	Max. PSI
3141500142	TR415	1.250"	65

Tubeless snap-in tire valves for high pressure applications are available in two varieties. The 600 series is designed for a maximum inflation pressure of 80 PSI, the 800 series has a maximum inflation pressure of 100 PSI.

High Pressure Snap-in 600 series for 0.453" Rim Holes			
Schrader Part Number	Tire & Rim Number	Effective Length	Max. PSI
3160000042	600HP	1.270"	80
291460	602HP	2.000"	80

High Pressure Snap-in 800 series for 0.625" Rim Holes			
Schrader Part Number	Tire & Rim Number	Effective Length	Max. PSI
3180100042	801HP	1.310"	100

Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.



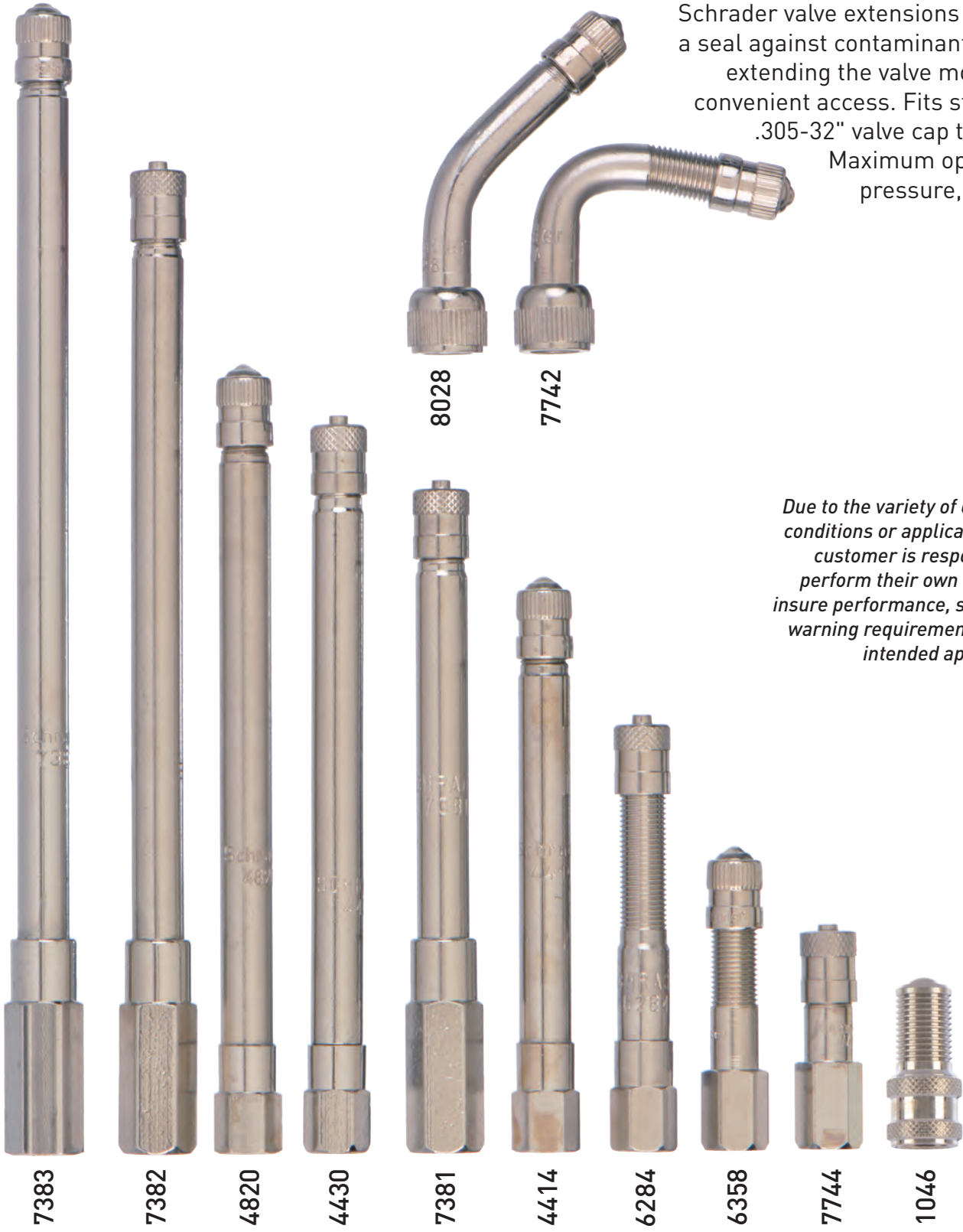
SCHRADER-USA 205 FRAZIER ROAD ▶ ALTAVISTA, VA 24517

CUSTOMER SUPPORT LINE // 1.800.288.1804 x8817 ▶▶ SCHRADERINTERNATIONAL.COM

Snap-in tubeless tire valves - 062116

Valve Extensions

Schrader valve extensions provide a seal against contaminants while extending the valve mouth for convenient access. Fits standard .305-32" valve cap threads. Maximum operating pressure, 150 psi.



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

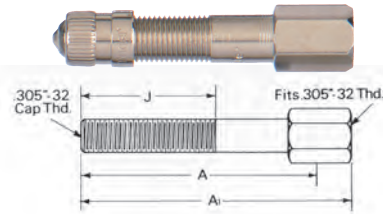
Valve Extensions

Straight Rigid Extensions

These extensions simplify air service where wheel, rim, brake, etc. hamper access to the tire valve. Valve mouth is extended to desired position for inflating, gauging and deflating. An extension core (a special plunger pin) contacts the core in the tire valve. The extension fits regular cap threads (.305" -32) at valve mouth. A washer acts as a seal between valve mouth and extension. Maximum operating pressure, 150 psi.

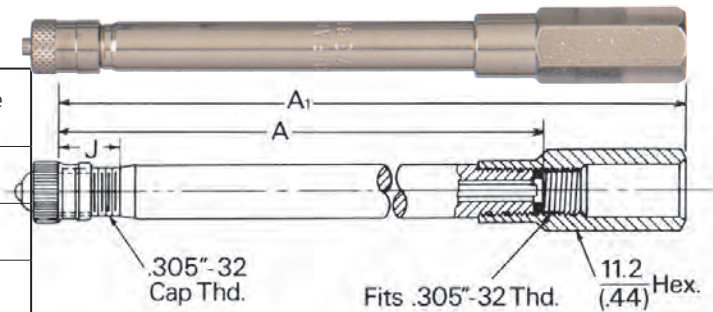
Type One

Part Number	Reference Number	A in (mm)	A1 in (mm)	J in (mm)	Hex Size in (mm)	Extension Core	Valve Cap
077447099	7744	1.00 (25.4)	1.25 (31.75)	.38 (9.5)	.38 (9.5)	7744-196	7572
063587095	6358	1.41 (35.7)	1.69 (40.8)	.81 (20.6)	.38 Flats (9.5)	6358-4	7572
134300	6284	2.22 (56.4)	2.50 (63.5)	1.25 (31.8)	.38 Flats (9.5)	6284-4	7572
044147075	4414	3.11 (79.0)	3.39 (86.1)	.38 (9.5)	.38 Flats (9.5)	4414-6	7572
044307119	4430	4.11 (104.4)	4.39 (111.5)	.38 (9.5)	.38 Flats (9.5)	4430-4	7572
048200507	4820	4.44 (112.7)	4.72 (119.9)	.38 (9.5)	.38 Flats (9.5)	4820-4	7572



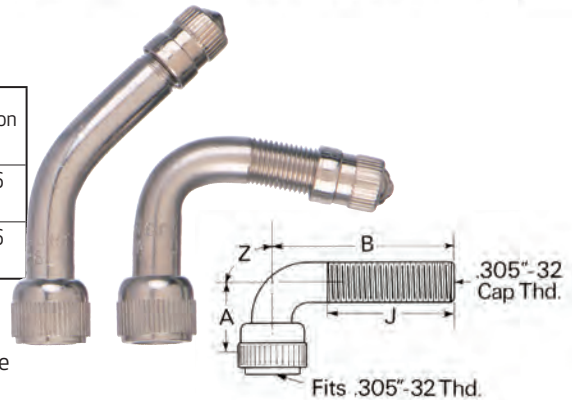
Type Two

Part Number	Reference Number	A in (mm)	A1 in (mm)	J in (mm)	Extension Core	Valve Cap
073817129	7381	3.06 (77.8)	4.00 (101.6)	.38 (9.5)	7381-4	7572
073827119	7382	5.06 (128.6)	6.00 (152.4)	.38 (9.5)	7382-4	7572
373837129	7383	6.06 (154.0)	7.00 (177.8)	.38 (9.5)	7383-4	7572



Bent Extensions

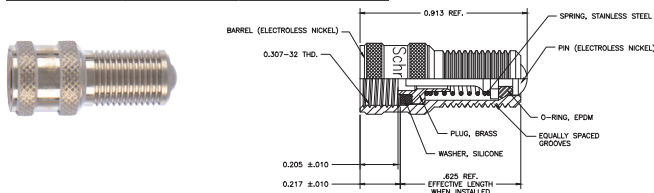
Part Number	Schrader Number	A in (mm)	B in (mm)	J in (mm)	Z	Valve Cap	Extension Core
380287109	8028	.75 (19.1)	1.38 (34.9)	.38 (9.5)	45°	7572	7742-6
077427209	7742	1.00 (25.4)	1.25 (31.8)	.75 (19.1)	95.5°	7572	7742-6



Truck and Bus Extensions

Part Number	Schrader Number	Effective in (mm)
010460250	1046	.75 (19.1)

These double sealing extensions eliminate the need for valve caps on truck valve stems, effectively reducing tire service time in fleet operations.



Due to the variety of operating conditions or applications, the customer is responsible to perform their own testing to insure performance, safety and warning requirements for the intended application.

Miscellaneous Tire Hardware

Special Clip-On Type Air Chuck for Regular Air Lines

5265 Clip-On Air Chuck

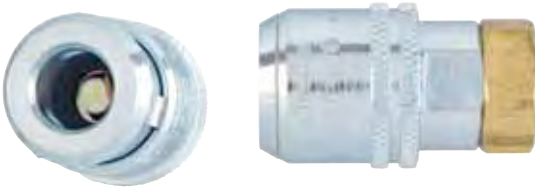
Locks into cap threads of valve stem when sliding sleeve is pushed to forward position. Releases when sleeve is pulled back. (Standard Pack: 10 per box)



Large Bore Air Chucks

4660A Clip-On Air Chuck

Attaches to 1/4" NPT hose fitting. Snaps on large bore valve when sleeve is moved forward, releases when sleeve is pulled back. Eliminates the need to hold chuck by hand. (Standard Pack: 5 per box)



Tire Valve Pump Connections

8385A Pump Connection

Has rubber washer and 1/4" shank diameter to fit 7/32" hose I.D. (Standard Pack: 25 per box)



273286 Bicycle Pump Connection

Has rubber washer and 5/16" shank diameter to fit 3/8" hose I.D. (Standard Pack: 25 per box)



Adapters

317580059 Large Bore to Standard Bore Adapters

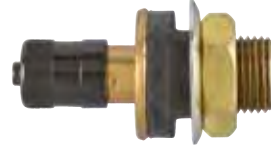
These adapters convert the large bore valves to standard bore for service with standard bore air line equipment. Used with 1759 cap.



Air-Liquid Core Housings and Accessories

6008B Tractor Front Wheel Valve

Low profile tubeless valve offers minimum protrusion above rim hole. Effective length: 9/16". Brass finish fits .625" rim hole. (Standard Pack: 10 per box)



5789 (TR-CH-3) Core Housing

Screws into all air-liquid valves and extensions shown here. Features O-ring seal. (Standard Pack: 10 per box)



Tubeless Type Air-Liquid Valves

These clamp-in valves have a removable 5789 core housing to permit fast filling of tires with liquid ballast solution. Fits .625" rim hole. (Standard Pack: 5 per box)



Dual Tire Valve Service Tool

8769A Cap and Core Tool

Grips and holds core bridge and cap to provide means of inserting cores in hard to reach valves. (Standard Pack: 1 per box)



Flexible Extensions

1001-7 Dual Wheel Extensions

Flexible extensions are designed to provide convenient air service access to inner rear dual wheels. The extensions fit standard valve caps threads and include a clip to secure the extension to the wheel cut out. Can be used on campers, recreational vehicles and light trucks. 010017000 (Standard Pack: 1 per box)



 FULL OPEN POSITION WITH
1 to 2 1/4 TURNS OF NUT
.135 REF.
.677 [17.20]
.148 [3.76] REF.



Schrader International, Inc.
205 Frazier Road
Altavista, Virginia 24517