

**OUR PARTS PUT YOU IN THE PASSING LANE**

# AIR

## High quality air components.

From gladhands to slack adjusters to seat valves, Velvac is your full system provider for critical and convenient air components for your commercial vehicle.

- Extensive line-up of air products
- TS-certified manufacturers
- Exceeds industry specifications



## GLADHANDS

### Iron Gladhands with Polyurethane Seals



- Solid, one-piece construction
- Service and emergency gladhand color-coated for easy identification
- Color-coded polyurethane seal
- Positive, spring loaded locking mechanism keeps gladhand properly positioned
- 1/2" FPT port
- Meets SAE J318 specs including breakaway requirement

**Lifetime guarantee covers both gladhands and seals!**

Part #	Description
035031	Universal gladhand w/ black polyurethane seal
035032	Emergency gladhand w/ red polyurethane seal
035033	Service gladhand w/ blue polyurethane seal

### Shutoff Gladhands

- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Polyurethane seal included
- 1/2" or 3/8" nylon air tube fitting
- Emergency gladhand with 1/4" - 18NPT port for pindle hook air line fitting
- Meets SAE J318 requirements



Part #	Description
035094	3/8" Service gladhand
035095	3/8" Emergency gladhand
035173	1/2" Service gladhand
035174	1/2" Emergency gladhand

### Premium Powder Coated Gladhand



- Available in service and emergency color coding
- Powder coated aluminum improves corrosion resistance
- Polyurethane seals improve resistance to oil and chemicals
- Bright color coding allows for easy brake line identification
- Stainless steel wear plates are resistant to corrosion and improve service life
- Meets SAE J318 requirements
- 1/2" FPT port

Part #	Description
035169	Powder coated service gladhand w/ polyurethane seal
035170	Powder coated emergency gladhand w/ polyurethane seal

### Shutoff Gladhands

- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Rubber seal included
- Includes mounting seal to prevent corrosion between gladhand and trailer
- Metal inner ball for increased wear ability
- Meets SAE J318 requirements
- 3/8" - 18 port



035152

Part #	Description
035152	Emergency shutoff
035151	Service shutoff

### 37° Bracket Mount Gladhand



- Lightweight die cast aluminum bodies
- Clamp plates are color-coded for easy identification
- Color-coded polyurethane seal included
- (2) 3/8" FPT ports (one plugged)
- (2) 11/32" diameter mounting holes
- Meets SAE J318 requirements

Part #	Description
035092	Service gladhand
035093	Emergency gladhand

### Aluminum Gladhands

- Velvac's most economical gladhand
- Clamp plates are color-coded for easy identification
- All include flat rubber coupling seal
- 1/2" FPT port
- Meets SAE J318 requirements



035038



035181



035180

Part #	Description
035038	Universal gladhand
035042	Emergency gladhand
035045	Service gladhand
035179	Aluminum emergency gladhand w/ screen filter
035180	Aluminum service gladhand w/ screen filter
035181	Aluminum emergency gladhand w/ guardian seal and flap
035182	Aluminum service gladhand w/ guardian seal and flap



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## GLADHANDS

### Pivoting Gladhands



- Spring loaded to safely swing out of the way when not in use
- Seals out contaminants when not in use
- 3/8" - 18 NPTF ports

Part #	Description
035167	Blue - service
035168	Red - emergency

### Polyurethane Gladhand Seals



- Color-coded seals will not crack or tear, reducing maintenance time and cost associated with rubber seal replacement
- Available in attractive display box with 25 sets of seals (set consists of 4 seals per bag, 2 red and 2 blue). See RETAIL section

Part #	Description
035009	Red polyurethane seals
035010	Blue polyurethane seals
035011	Black polyurethane seals
035012	Display box with seals

### "Pacifier" Gladhand Seal

- Reusable gladhand sealing device protects air lines from dust, debris and moisture



Part #	Description
035142	"Pacifier" gladhand seal

### Plated Aluminum Gladhands (with E-Coating)

- E-Coated aluminum gladhand body with a full face plate
- E-Coated aluminum improves corrosion resistance and provides better protection than typical zinc plating
- Service and emergency gladhands have a powder coated face plate for increased corrosion resistance
- Universal gladhand has a zinc plated face plate for increased corrosion resistance
- Rubber seal
- Meets SAE J318 requirements

- Color coded for easy hose identification
- Emergency is polarized to eliminate incorrect hose connections
- Cost saving angle mount eliminates the need for extra mounting hardware



Part #	Description	Replaces Haldex-Midland Number	Connection Thread
035143	Plated - service	11452	1/2" Pipe thread
035144	Plated - emergency	11451	1/2" Pipe thread
035145	Plated - universal	11450	1/2" Pipe thread
035146	Plated - 37° service	11444	1/2" Pipe thread
035147	Plated - 37° emergency	11441	3/8" Pipe thread

### Rubber Gladhand Seals



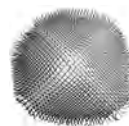
Standard seal



Flat seal



Guardian™ seal



Seal screen

- Seals constructed of durable black Buna N compound
- "Guardian" seal with rubber flap and metal seal screen help protect air lines from debris

Part #	Description
035005	Standard seals
035007	Flat seals
035140	Seal screen
035141	Guardian seal with flap

Guardian™ is a trademark of Velvac, Inc

### Energy Suspension® Seals



- Could be the last seal you buy!
- Designed to fit all SAE approved gladhands
- Polyurethane seals improve resistance to oil and chemicals, increasing service life and decreasing down time
- Will not crack, dry out or tear like the conventional rubber seals
- Rated to -40°F
- 50 seals per bag

Part #	Description
035165	Blue service seal
035164	Red emergency seal
035166	Black universal seal

Energy Suspension® is a registered trademark of Energy Suspension

## GLADHANDS

### Gladhand Seals with Built-in Screens



- Polyurethane seals with stainless steel screens built in
- Traps harmful contaminants before they can cause an air break system failure
- Keeps bugs out of the air lines
- Available in blue, black and red

Part #	Description
035175	Blue service seal with screen
035176	Red emergency service seal with screen
035177	Black universal service seal with screen

### Stow-A-Way™ Gladhand and Plug Holder



580042

- Holds gladhand and electrical hook ups at a 45° angle for easy insertion and extraction
- When properly placed, allows cable and air line storage with both feet firmly on the ground
- Designed for heavier ABS cables
- Standard mounting holes make it easy to replace older designs
- Glass-filled nylon, non-corrosive construction

Part #	Description
580042	Stow-A-Way gladhand & plug holder
580123	Stow-A-Way single plug holder & (2) gladhands

#### Helpful hint:

Improve leverage and reduce air hose kinks by using one of the two styles of gladhand grips

### Gladhand™ Gladhand Grips



035070



035178

- 1/2" NPTF
- Sold in pairs in an attractive display package with information header
- Part No. 035070 polyurethane style features a soft grip with a machined steel core
- Part No. 035178 solid aluminum style features an anodized body with a diamond knurl

Part #	Description
035070	(1) red and (1) blue polyurethane Gladhand™ grip with hardware
035178	(1) red and (1) blue solid aluminum gladhand grip, hardware not needed

### Gladhand Holder Kit



- Designed to mount on all Velvac pogo sticks
- Holds and seals gladhands when tractor is disconnected from trailer
- Durable zinc-plated steel construction
- Single gladhand holder can be mounted directly to cab using 5/16" bolt holes
- Kit includes two gladhand holders and mounting hardware

Part #	Description
581006	Gladhand holder kit
580009	Gladhand holder only

### Dummy Coupling



035036



035100

- Durable zinc-plated steel construction for corrosion resistance
- 6-1/2" Coupling length
- 8-1/2" Chain Length, 18" cable

Part #	Description
035036	Vented dummy coupling
035037	Non-vented dummy coupling
035100	Dummy shut-off gladhand

### Glad-Lock™



- Rugged polypropylene gladhand lock helps prevent unwanted connections to tractors and trailers
- Universal design for use on many types of aluminum or iron gladhands
- Two keys furnished with each lock

Part #	Description
035150	Glad-Lock w/ matching keys
035150-6	Glad-Lock w/ random keys

### Line Identification Tags

- 22 gauge aluminum construction with bright red enamel lettering
- 7/8" diameter hole



Part #	Description
035025	Emergency tag
035026	Service tag

Gladhand™, Glad-Lock™ and Stow-A-Way™ are trademarks of Velvac, Inc



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## AIR BRAKE HOSE AND TUBING

### Air Brake Hose

- Manufactured to a minimum burst pressure of 870 psi
- Conforms to SAE J1402 and DOT -106 standards
- Performs within an operating temperature range of -40° to +200°F



Part #	Hose I.D.	Hose O.D.	Coil Length
022011	3/8"	3/4"	50'
022011-7	3/8"	3/4"	250'
022047	1/2"	7/8"	50'
022047-7	1/2"	7/8"	250'

\*See pages FH8 & FH9 for applicable reusable fittings

### Slider Air Hose Assemblies with Spring Guard



Part #	Length	Tube O.D.	Tube I.D.
149119	72"	3/8"	3/8"
149120	96"	3/8"	3/8"
149121	108"	3/8"	3/8"
149122	102"	3/8"	3/8"
149123	120"	3/8"	3/8"
149124	102"	1/2"	3/8"
149125	108"	1/2"	3/8"

### Air Brake Hose Assemblies



- Brake hose assemblies meet SAEJ1402 requirements
- Fittings are permanently swaged

Length (Inches)	3/8" I.D. Hose 1/4" Ends One End Fixed One End Swivel	3/8" I.D. Hose 3/8" Ends One End Fixed One End Swivel	3/8" I.D. Hose 3/8" Ends Both Ends Swivel	1/2" I.D. Hose 3/8" Ends One End Fixed One End Swivel	1/2" I.D. Hose 3/8" Ends Both Ends Swivel	1/2" I.D. Hose 1/2" & 3/8" Ends, One End Fixed-1/2", One End Swivel-3/8"
9	147009	-	-	-	-	-
12	147012	-	-	148012	-	-
16	147016	-	-	148016	-	-
18	147018	146018	146518	148018	148518	149018
20	147020	146020	146520	148020	148520	149020
22	147022	146022	146522	148022	148522	-
24	147024	146024	146524	148024	148524	149024
26	147026	146026	146526	148026	148526	149026
28	147028	146028	146528	148028	148528	149028
30	147030	146030	146530	148030	148530	149030
32	147032	146032	146532	148032	148532	149032
34	147034	146034	146534	148034	148534	149034
36	147036	146036	146536	148036	148536	149036
38	147038	146038	146538	148038	148538	-
40	147040	146040	146540	148040	148540	-
42	147042	146042	146542	148042	148542	149042
44	147044	146044	146544	148044	148544	-
46	147046	146046	146546	148046	148546	149046
48	147048	146048	146548	148048	148548	149048
52	-	146052	-	-	-	-
54	147054	146054	146554	148054	148554	-
60	147060	146060	146560	148060	148560	149060
66	-	-	-	148066	-	-
72	147072	146072	146572	148072	148572	149072
84	-	146084	146584	148084	148584	-
96	-	-	146596	148096	148596	-

## AIR BRAKE HOSE AND TUBING

### Air Compressor Discharge Hose



- Stainless steel braided outer jacket
- Extruded inner Teflon® tube prevents carbon buildup
- Withstands extreme temperatures of -100° to +450°F

- Hose and reusable fittings can be assembled to produce air compressor discharge hose assemblies

\*See pages FH10 & FH11 for applicable reusable fittings

Part #	I.D.	O.D.	Coil Length	Recommended Working Pressure (psi)	Minimum Bursting Pressure (psi)	Minimum Bend Radius
142113	1/2"	5/8"	25'	1500	8500	6-1/2"
142113-7	1/2"	5/8"	100'	1500	8500	6-1/2"
142114	5/8"	3/4"	25'	1200	6000	7-3/4"

### Air Compressor Discharge Hose Assemblies



- 5/8" straight tube x 5/8" compression fitting
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142118	18"
142124	24"
142130	30"
142136	36"
142148	48"



- 3/4" straight tube both ends
- Hose measures 3/4" O.D., 5/8" I.D.

Part #	Length
142436	36"



- 5/8" straight tube both ends
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142324	24"
142336	36"

### Rubber Air Line Hose

- Tractor to trailer air line hose assembly
- Hose measures 3/8" O.D., 1/2" I.D.



- Female swivel both ends
- Hose measures 5/8" O.D., 1/2" I.D.

Part #	Length
142518	18"
142524	24"
142536	36"
142552	52"
142554	54"
142572	72"
142584	84"



- 5/8" compression fitting both ends
- Hose measures 5/8" O.D. 1/2" I.D.

Part #	Length
142618	18"
142624	24"

Part #	Description
140139	10' Black
140140	12' Black
140141	15' Black
140142	20' Black
140133	12' Blue
140135	15' Blue
140134	12' Red
140136	15' Red

Teflon® is a registered trademark of E.I. DuPont de Nemours and Co.



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## AIR BRAKE HOSE AND TUBING

### Air Brake Hose Repair Fitting

- Kit for easy repair of 3/8" rubber air brake hose
- One package contains two fittings and one hex installation tool, all in a clamshell for retail display

- One package will repair two 3/8" rubber air brake hoses
- Male fittings feature pre-applied sealant
- Meets DOT 106 SAE J1402 requirements



### Trailer Nose Box Hose Assembly



- Fits conventional and recessed trailer nose boxes
- Manufactured with 3/8" I.D., SAE Type A four spiral air brake hose
- 1-1/2" swaged end fitting, 1-1/2" reusable end fitting with spring
- 5-3/4" length
- Assembly meets SAE J1402 and FMVSS 106 requirements

Part #	Fitting Size	Sloan #	Tectran #	Tramec #
500007	3/8"	431402	70-31402	31402
500008	1/2"	431403	70-31403	31403

### Nylon Tubing

- SAE Type A tubing is single wall extruded non-reinforced nylon
- SAE Type B tubing has seamless extruded nylon core with fiber reinforced protective nylon cover
- Can be used with either air brake or nylon tube fittings
- 150 psi maximum working pressure
- Withstands temperatures of -40° to +200°F
- Tubing meets SAE J844 and FMVSS 106 requirements



**For air brake systems only,  
NOT for fuel line applications**

Part #	Description
140079	Trailer nose box hose assembly

NOTE: Replacement fitting assembly with spring available - see Part No. 500019 on page FH9

NOTE See pages FH2-FH9 for applicable fittings  
\*Does not meet DOT or SAE specifications

Black Part #	Blue Part #	Green Part #	Red Part #	Yellow Part #	Tube O.D.	SAE Type	Coil Length
020062	020132	020142	-	-	1/8"	A	100'
020062-7	-	-	-	-	1/8"	A	1000'
020065	-	-	-	-	5/32"	A	100'
020066	-	-	-	-	3/16"	A	100'
020064	020134	020144	020154	020164	1/4"	A	100'
020064-6	020134-6	020144-6	020154-6	020164-6	1/4"	A	1000'
020052*	-	-	-	-	5/16"	A	100'
020053	020136	020146	020156	020166	3/8"	B	100'
020053-7	020136-7	020146-7	020156-7	020166-7	3/8"	B	500'
020055	020138	-	020158	020168	1/2"	B	100'
020055-7	020138-7	-	020158-7	020168-7	1/2"	B	500'
020057	-	020157	-	-	5/8"	B	100'
020057-7	-	-	-	-	5/8"	B	250'
020059	-	-	-	-	3/4"	B	100'
020059-7	-	-	-	-	3/4"	B	250'

## AIR BRAKE HOSE AND TUBING

### Fifth Wheel Slider Coil



- Continuously returns to original shape
- Flexes from 10" to 54"
- Includes (2) 1/4" tube 1/4" MPT fittings
- Temp range from -40° to 208°F
- Max. pressure rating of 150 psi
- Meets SAE J844 requirements

Part #	Description
022028	Fifth wheel slider coil

### Cab Blower Kit

- Designed for truck cab or low pressure shop use
- Air hose rated at 200 psi max recommended operating pressure
- Kit includes 50' hose, economy air nozzle, tire inflator and gladhand



Part #	Description
149001	Cab blower kit - rubber
149002	Air blow gun



### Air Cab Blow Gun Kit

Kit includes:

- Pre-installed DOT nylon tube fittings
- SAE J844 coiled nylon tube that extends from 10" to 54"
- Two nozzle fittings and lever-type air gun



Part #	Description
149126	Air cab blow gun kit

### Tube Cutter

Part #	Description
090028	Nylon tube cutter

## 3-IN-1 AIR/ELECTRICAL ASSEMBLIES



Part #	Length
145110	10'
145112	12'
145115	15'
145120	20'

- Contains a service air line, emergency air line and an ABS power line (green)
- Enclosed in a heavy duty, beveled edge, spiral wrap
- The spiral wrap keeps the unit neat and compact and provides protective covering
- Air hose assemblies conforms to SAE J1402 / FMVSS 107
- ABS cable assembly conforms to SAE J2394 and the 7-way plug to SAE J560

## 4-IN-1 AIR/ELECTRICAL ASSEMBLIES



Part #	Length
145212	12'
145215	15'

- Contains a service air line, emergency air line, ABS power line (green) and ISO power line (yellow)
- Air hose assemblies conforms to SAE J1402 / FMVSS 107
- ABS cable assembly conforms to SAE J2394 and the 7-way plugs to SAE J560 and ISO 3731, respectively



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## COILED NYLON TUBING

### Coiled Nylon Tubing Assembly Kits

- Assemblies include permanently swaged 1/2" - 14 NPTF end fittings with heavy gauge spring for extra support



12' Assembly kit

- Each standard kit contains one emergency (red) and one service (blue) 1/2" O.D. nylon tubing assembly



15' and 20' Assembly kit

- Assemblies meet SAE J844 and FMVSS 106 requirements



15' Assembly kit with long lead

- 6" lead on both ends

Part #	Description
022002	Standard kit
022004	Emergency only
022009	Service only

- 12" lead on both ends

Part #	Length	Description
022025	15'	Standard kit
022026	15'	Emergency only
022027	15'	Service only
022030	20'	Standard kit
022031	20'	Emergency only
022032	20'	Service only

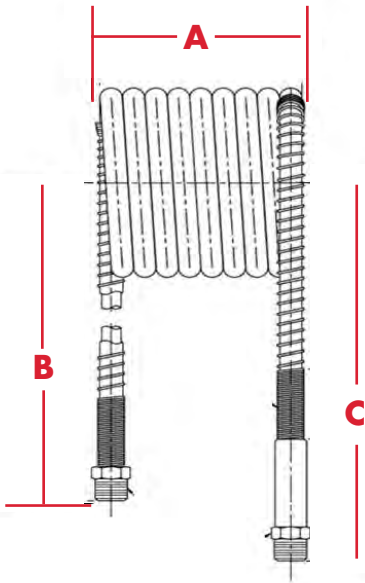
- One 40" lead, one 12" lead

Part #	Description
022001	Standard kit
022005	Emergency only
022008	Service only



## GLACIER AIR LINES

### Glacier Air Coils



- Larger 5.5" coil O.D. prevents kinking and provides superior recoil and coil memory
- Meets or exceeds applicable requirements of SAE J844, J1131 and FMVSS 571.106
- Durable heavy duty jacketing means coils remain flexible at -85°F (-65°C)
- Permanently swaged 1/2-14 NPTF end fittings with thread sealer simplifies assembly
- 2.5" integrated brass handle allows for easier coupling and uncoupling of gladhands

Part #	Description	Working Length - A	Leg Length - B	Leg Length - C
022633	Glacier coil set			
022634	Red	12'	9.25"	11.5"
022635	Blue			
022636	Glacier coil set			
022637	Red	15'	9.25"	11.5"
022638	Blue			
022639	Glacier coil set			
022640	Red	15' Long lead	41.25"	11.5"
022641	Blue			
022642	Glacier coil set			
022643	Red	20'	9.25"	11.5"
022644	Blue			



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## AIR BRAKE VALVES

### Dash Control Valves (PP-1, PP-2, PP-3, PP-7, and PP-8 Styles)



- PP-1 Style
- Automatic pressure release at 40 psi
- 1/8" NPT supply port
- Knob and mounting nut sold separately (see page A12)



034015  
(as shown; top portion only is different)

- Direct replacement for Bendix 275250, 276462
- PP-2 Style
- Automatic pressure release at 40 psi
- 1/8" NPT supply port
- (2) 1/8" NPT delivery ports
- 1/8" NPT brake valve port
- Knob and mounting nut sold separately (see page A12)



034017



034018

- PP-3 Style
- Tripper exhausts at 30 psi and charges above 50 psi
- Plunger trips at 40 psi and charges manually
- 1/8" NPT supply port
- 1/4" NPT delivery port
- 1/4" NPT exhaust port
- Knob and mounting nut sold separately (see page A12)

Part #	Delivery Ports	Replaces
034013	(2) 1/8" NPT	Bendix 275175, 276566, 276567 & Midland KN20021
034015*	(2) 1/8" NPT	Bendix 279786, 281587
034014	(2) 1/4" NPT	Bendix 287417, 287600

Part #	Description
034016	Pressure balanced dash control valve



034080  
(as shown; top portion only is different)

- PP-7 style
- Automatic pressure release at 40 psi
- Non-override at 25 psi
- 1/8" NPT supply and control ports
- 1/4" NPT delivery port
- 1/4" threaded exhaust port on Part No. 034079
- Knob and mounting nut sold separately (see page A12)

Part #	Description	Replaces
034017	Automatic tripper dash control valve	Bendix 288746
034018*	Automatic tripper dash control valve	Bendix 279787

\*Remote controlled - 1/4" - 20 female thread for knob or cable

\*Remote controlled - 1/4" - 20 female thread for knob or cable



- Direct replacement for Bendix 287238 & Midland KN20035
- PP-8 style
- Automatic pressure release at 20 psi
- 1/8" NPT supply, delivery (2) and exhaust ports

Part #	Description
034019	Dash control valve

Part #	Shaft Diameter	Replaces
034051	3/8"	Bendix 288239, 288721 & Midland KN20025
034079	5/16"	Bendix 106113, 288241
034080*	1/2"	Bendix 288242

\*Remote controlled - 1/4" - 20 female thread for knob or cable

### Push-Pull Dash Control Valve

- Direct replacement for Midland KN20030, KN20031
- Automatic pressure release at 25-35 psi
- All ports 1/4" NPT
- 1/4" - 28 thread size



Part #	Description
034055	Dash control valve

## AIR BRAKE VALVES

### Pressure Reducing Valve (RV-1 Style)

- Direct replacement for Bendix 283590
- Used where a constant set pressure lower than supply pressure is required
- Adjustable-factory preset at 70 psi
- 1/4"-18 NPT supply and delivery ports



Part #	Description
034085	Pressure reducing valve

### Tractor Protection Valve (TP-3 Style)

- Direct replacement for Bendix 279000 & Midland KN34060
- 1/4" NPT tractor emergency port
- 3/8" NPT tractor service port
- 1/2" NPT trailer emergency and trailer service ports



Part #	Description
034068	Tractor protection valve

NOTE: Always use this valve in conjunction with a PP-1, PP-3 or PP-7 style dash control valve (see page A11)

### Knob and Pin Kits



034049



034054



034053



034050



034052

Part #	Description	Replaces
034049	Trailer air supply knob and pin kit for PP-7 style dash control valve	Bendix 290655 & Midland KN20900
034050	Parking brake knob and pin kit for PP-1 style dash control valves	Bendix 248433 & Midland KN20903
034052	Plain black knob and pin	Bendix 241866
034053	Pull to Park/ Push to release parking brake knob and pin kit for PP-1, PP-2 and PP-3 style dash control valve	Bendix 240302
034054	Dash control valve mounting nut	Bendix 239357

NOTE: All knob kits include roll pin for securing valve

### Tractor Protection Valve (TP-5 Style)

- Direct replacement for Bendix 288605
- Formerly VM-2 style control valve manifold
- 3/8" NPT service and trailer / emergency supply ports (rear)
- 1/4" NPT stop light switch port
- 3/8" NPT trailer control port
- 1/2" NPT trailer service and trailer emergency supply ports



Part #	Description
034082	Tractor protection valve

### Dash Control Valve (MV-3 Style)

- Direct replacement for Bendix 065157, 800516
- Combination PP-1 and PP-7 valve
- 1/4" diameter horizontal mounting holes at 4-7/32" O.C.
- 1/4" diameter vertical mounting at 3" O.C. mounting holes



Part #	Description
034081	Dash control valve
034148	Trailer air supply and parking brake knob and pin kit for MV-3 style valve



034148



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## AIR BRAKE VALVES

### Modulating Relay Valve (R-7 Style)

- Direct replacement for Bendix 103081, 283932
- 3/8" NPT supply and (2) delivery ports
- 1/4" NPT control and balance ports
- Spring brake release pressure of 95 psi



Part #	Description
034023	Modulating relay valve

### Double Check Valve (DC-4 Style)

- Direct replacement for Bendix 278614 & Midland KN25060
- All ports 3/8" NPT
- May be mounted in any position



Part #	Description
034062	Double check valve

### Relay Valve

- Direct replacement for Midland KN28060
- 3/8" NPT control port
- (2) 1/2" NPT supply (reservoir) ports
- Crack pressure 4.6 psi
- (2) 3/8" delivery ports



Part #	Description
034059	Relay valve

**NOTE: Part numbers listed in RED are NEW!**

### Relay Valves (R-6 Style)

- 1/4" NPT service port
- (4) 3/8" NPT delivery ports



Part #	Supply Port(s)	Replaces
034020	(1) 1/2" NPT	Bendix 279180, 280375
034021	(1) 3/4" NPT (in mounting flange) (1) 3/8" NPT	Bendix 279952

### Relay Valve (R-8 Style)

- Direct replacement for Bendix 286370, 286371
- 1/4" NPT service port
- (2) 3/4" NPT supply ports
- (2) 1/2" NPT, (1) 1/4" NPT delivery ports
- 1/8" NPT balance port located under exhaust cover
- Cracking pressure 3 psi



Part #	Description
034024	Relay valve

### Relay Valves (R-12 and R-14 Styles)



R-12 Style



R-14 Style 1/2" NPT



R-14 1/8" NPT balance port located under exhaust cover

Part #	Style	Supply Port(s)	Delivery Ports	Replaces
034025	R-12	1/2" NPT	Verticle (4) 1/2" NPT	Bendix 102166, 102626
034026	R-12	(2) 3/4" NPT	Horizontal (2) 1/2" NPT	Bendix 103009
034027	R-14	(2) 3/4" NPT	Horizontal (2) 1/2" NPT	Bendix 103010
034028	R-14	1/2" NPT	Verticle (4) 1/2" NPT	Bendix 103028

### Relay Valves (RG-2 Style)

- Fast, low cracking pressure - 5 psi
- 1/4" NPT control port



Part #	Reservoir Ports	Delivery Ports	Replaces
034056	(2) 3/8"	(2) 3/8"	Midland KN28500
034057	(1) 3/8", (1) 1/2"	(2) 3/8"	Midland KN28510
034058	(2) 1/2"	(2) 1/2"	Midland KN28520

## AIR BRAKE VALVES

### Relay Emergency Valve (RE-6 Style)

- Direct replacement for Bendix 281865
- 1/4" NPT service and emergency ports
- (1) 3/4" NPT, (1) 3/8" NPT supply ports
- (2) 3/8" NPT, (2) 1/4" NPT delivery ports



Part #	Description
034029	Relay emergency

### Multi-Function Trailer (RT-4 Style)

- Direct replacement for Midland KN26000
- 3/8" NPT trailer supply and control ports
- 1/2" NPT and 3/8" NPT reservoir ports
- (4) 3/8" NPT delivery ports
- PPV closing pressure at 55 psi



Part #	Description
034063	Multi-function trailer valve

### Relay Emergency Valves



034066

- 1/4" NPT delivery and service control ports
- 1/2" NPT supply port



034067

- 1/4" NPT service and emergency inlets
- (4) 3/8" NPT delivery ports
- 3/4" NPT reservoir
- Crack pressure 3 psi



034069  
(w/ratio feature)

- 1/4" NPT emergency and service ports
- (4) 3/8" NPT delivery ports
- 3/4" NPT reservoir port

Part #	Description	Replaces
034066	Relay emergency valve	Sealco A-1000
034067	Relay emergency valve	Midland KN30400 & Wagner A99036
034069	Relay emergency valve	Sealco 110200

### Air Governors (D-2 Style)

- Factory preset opening and closing pressures of 100 to 120 psi
- (6) 1/8" NPT ports and two mounting holes
- Mounting gasket and (4) 1/8" socket head pipe plugs included
- High temperature governor designed with high temperature withstanding O-rings
- Individually boxed



Part #	Description	Replaces
032131	Air governor	Bendix 275491 & Midland KN18530
034083	High temperature air governor	Bendix 284358 & Midland KN18534



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## AIR BRAKE VALVES

### Foot Valves (E-3, E-6, and E-7 Styles)

- Direct replacement for Bendix 277863 & Midland KN22100
- E-3 style
- 1/2" NPT supply and delivery ports
- (2) 1/4" NPT auxiliary supply ports



- Direct replacement for Bendix 286171 & Midland KN22140 and KN22150
- E-6 style
- 3/8" NPT supply and delivery ports



### Spring Brake Valve (SR-1 Style)

- Direct replacement for Bendix 286364
- 1/4" NPT reservoir, control, supply and delivery ports
- 55 psi reservoir trip pressure
- Bracket mounted



Part #	Description
034038	Single circuit brake valve

Part #	Description
034039	Dual circuit brake valve

Part #	Description
034030	Spring brake valve



034040



034077

- E-7 Style
- Dual circuit valves
- 1/2" exhaust port with diaphragm
- Three mounting holes - firewall mounted
- O-rings included

### Trailer Spring Brake (SR-5 Style)

- Direct replacement for Bendix 065437
- 3/4" NPT reservoir mounting port
- 1/4" NPT service/spring brake reservoir, service, trailer supply and trailer service ports
- (4) 3/8" NPT delivery ports
- Anti-compounding



Part #	Side Ports	Rear Ports	Application	Replaces
034040	(2) 1/4" Supply	No threads	Ford	Bendix 284760
034077	(4) 1/4" Supply (4) 1/4" Delivery (Threaded)	1/8" Supply (2) 1/2" Supply (2) 1/2" Delivery	Navistar	Bendix 288383

### Trailer Spring Brake Valves (SR-2 and SR-4 Styles)



034031



034032



- SR-2 style valves
- 1/4" NPT service reservoir (2) and trailer supply ports
- (4) 3/8" NPT delivery ports
- 1/4" NPT trailer service port on Part No. 034031
- SR-4 style valves
- 1/4" NPT reservoir charging (2), trailer supply and trailer serviceports
- (4) 3/8" NPT delivery ports

Part #	Description
034035	Trailer spring brake valve

Part #	Reservoir Port	Replaces
034031	1/2" MPT	Bendix 103061
034032*	3/4" MPT	Bendix 287376

Part #	Reservoir Port	Replaces
034033	3/4" MPT	Bendix 101112
034034	1/2" MPT	Bendix 101622

\*Does NOT have trailer service port for anti-compound

## AIR BRAKE VALVES

### In-Line Quick Release Valves



032019

032020

- Speeds up release of trailer service brakes when installed on service side gladhand
- Speeds up application of trailer parking brakes when installed on emergency side gladhand
- Suitable for use on double or triple trailers
- Durable zinc die cast bodies
- Flow Rate: Forward - 9.0 SCFM at 2 psi; Exhaust - 8.0 SCFM at 2 psi
- 1/2" - 14 MPT with Vibraseal thread sealer one end, 1/2" - 14 FPT other end
- 1-1/2" diameter x 3-1/2" long

Part #	Description
032019	Mounts between tractor protection valve and air lines
032020	Mounts at tractor gladhand

### Quick Release / Double Check Valve (QR-1C Style)



- Direct replacement for Bendix 289714 & Midland KN32041
- 1/4" NPT supply and balance ports
- (2) 3/8" NPT delivery ports
- (2) 1 1/32" diameter mounting holes at 1-1/2" on center
- Supply and delivery differential is 1 psi max

Part #	Description
034012	Quick release valve

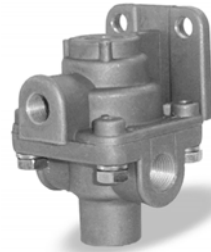
### Quick Release Valves (QR-1 Style)

- 3/8" NPT exhaust port
- (2) 1 1/32" mounting holes at 1-1/2" on center
- Cracking pressure of 1 psi



Part #	Delivery Ports	Supply Ports	Replaces
032015	3/8" NPT	3/8" NPT	Bendix 229859, 288251 & Midland KN32005
032018	3/8" NPT	1/2" NPT	Bendix 229860 & Midland KN32011
034078	1/4" NPT	3/8" NPT	Bendix 229813

### Limiting and Quick Release Valves (LQ-2 and LQ-4 Styles)



- Direct replacement for Bendix 229505
- LQ-2 style
- Limits front axle service brake application by 50% and serves as a quick release valve for that axle - commonly found on pre-121 (pre-1985) vehicles
- 3/8" NPT supply, delivery and exhaust ports
- 1/4" NPT control port
- 19/32" diameter mounting holes at 1-1/2" on center

Part #	Description
034084	Limiting and quick release valve

- Direct replacement for Bendix 289144
- LQ-4 style
- For limiting front axle pressure
- 3/8" NPT supply and delivery ports
- (2) 19/32" diameter mounting holes at 1-1/2" on center
- Nominal hold off pressure of 4 psi
- Nominal equalizing pressure of 60 psi



Part #	Description
034036	Limiting and quick release valve



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## AIR BRAKE VALVES

### Air Tractor Control Kits

- Kits add hand and foot control to trucks with pre-FMVSS 121 air brakes hauling an air brake trailer (for trucks with FMVSS 121 air brakes, consult the truck manufacturer)
- Hose assembly jumper lines and support springs included with kit (kit No. 131012 only)
- Hand control valve included (except for Part No. 131016). This normally closed valve has 1/4" FPT inlet/ outlet/exhaust ports and an 1/8" FPT pressure gauge port

(180 psi maximum supply pressure)  
- hand control valve also sold separately

- NOT FOR ABS APPLICATIONS



131012

Part #	Description
131012	Kit for tractor installations
131014	Kit for dump truck installations
131016	Kit for dump truck installations without hand valve
032051	Hand control valve

## AIR ACCESSORY VALVES

### Universal Fan Clutch Drive Solenoid Kit



Five year guarantee against failure under normal operating conditions!

- Nominal voltages: 12 VDC
- Working voltage: 11-16 VDC
- Maximum operating pressure: 150 psi
- Max exposure temperature: 200°F
- Mounting hole: 3/8"
- Ports: (3) 1/8" - 27 FPT
- Universal kit replaces existing solenoids found on Kysor, Bendix and Horton fan clutches
- Kit includes valve, wire harness with Weather-Pack sealed connectors, exhaust shield, in-line filter and butt connectors

Part #	Description
032192	Universal solenoid kit
032194*	Replacement solenoid
032190	Replacement in-line filter
032191	Replacement 1/8" NPT exhaust vent

\*Valve may also be used for shutter stat solenoid applications. Replaces Navistar numbers 450284C91 and 1692761C91 for this use

### Three-Way Solenoid

- Provides On/Off exhaust function
- Inlet port normally closed - for intermittent use only
- (2) 1/4" FPT ports
- 12 VDC
- 100 - 120 psi operating pressure
- 2-9/32" diameter mounting holes on 2-1/2" centers



Part #	Description
320051	Three-way solenoid

### Air Solenoid Valve

- Direct replacement for Neway 90054075 (normally open)
- 12 VDC, 10 watts
- Intermittent use only
- 100psi maximum operating pressure
- 1/4" threads



Part #	Description
034075	Air solenoid valve

NOTE: Always use in conjunction with a momentary contact switch (see Part No. 090202 on page E14)

## AIR ACCESSORY VALVES

### Power Take-off and Dump Pump Control Valve Kit



- Replaces Chelsea 328388-79X
- Kit includes combo control valve with 1/4" built-in push-to-connect fittings, in-line fuse holder with 9 amp fuse, cable, pressure protection valve 1/4" nylon tubing (50') and fittings-control valve assembly also sold separately

Part #	Description
032144	PTO and dump pump control valve kit
032142	Combo control valve (feathering valve)
034073	PTO cable
032086	Pressure protection valve

### Power Take-Off Air Shift Kit



- Power take-off kit controls add-on air-controlled accessories
- Kit includes control valve, indicator light, 1/4" nylon tubing (50') and fittings, cable, bracket and pressure protection valve. Control valve assembly, indicator light and cable sold separately

Part #	Description
034070	Power take-off air shift kit
034071	Air shift valve assembly
034072	Indicator light
034073	PTO cable
032086	Pressure protection valve

### Power Take-Off Four-Way Control Valve



- Replaces Chelsea 328865X
- Panel-mounted, three position valve
- 1/8" - 27 NPTF
- 150 psi maximum operating pressure
- Operating temperature range from -20° to +200°F

Part #	Description
032145	PTO four-way control valve assembly

### Power Take-Off Combo Control Valve with Shift Tower

- Combo valve controls PTO and dump pump operations
- 1/4" brass push-to-connect fittings included on valve assembly
- Shift tower measures 4-5/8" x 3-5/8" x 8" H overall with 2" access hole and mounting holes 4-1/4" on center



Part #	Description	Replaces
032143	PTO combo valve with shift tower	-
032142	Combo control valve (feathering valve)	Chelsea 329358X
032146	Control valve shift tower	Chelsea 329219X



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## AIR ACCESSORY VALVES

### In-Line Quick Release Valves

- Push-connect fittings mate easily with 1/4" nylon tubing for easy installation
- 150 psi maximum operating pressure
- On/Off faceplate Part No. 032039 fits air-electric and flipper valves Part Nos. 032232, 032233, 032234 and 032236 and installs using 10-24 x 1/4" screw
- Air-Electric Valves  
Technical Information:
  - » Switch Off Position: No air flow, electrical contacts open
  - » Switch On Position: Air flows through valve, electrical contacts closed
  - » Amperage: 5 amp resistive current load at 12 VDC
  - » Terminal Size: 1/4" blade
  - » Pressure Switch: Open below 10 psi, closed above 35 psi



Part #	Photo	Description	Toggle Style	Lever Position	Primary Vehicle Application
032225	A	Air-electric toggle valve	Paddle	-	Kenworth, Volvo
032227	B	Air-electric toggle valve	Blade	-	Mack
032228	C	Air-electric toggle valve	Bat	-	Peterbilt
032229	D	Air toggle valve	Paddle	-	Kenworth, Volvo
032231	E	Air toggle valve	Blade	-	Mack
032232	F	Air-electric flipper valve	-	Right off	Freightliner
032234	F	Air-electric flipper valve	-	Right off	Navistar
032235	F	Air-electric flipper valve	-	Right off	Navistar
032233	G	Air flipper valve	-	Right off	Freightliner
032236	G	Air flipper valve	-	Right off	Navistar

\*These are only primary listings-valves are universal and suitable for a variety of applications

### Transmission Selectors



Part #	Description
032400	Trans selector A4487
032401	Trans selector A4490
032402	Trans selector A4491

### Transmission Range



Part #	Description
032403	Range value A-6909
032404	Range value A-6913
032405	Range value A-6915
032406	Range Value A-6918

### Universal Three-Way Toggle Valve



- 1/8" NPT supply and delivery (2) ports
- Includes chrome-plated flip handle
- Faceplate sold separately - install using a 10-24 x 1/4" screw

Part #	Description
032037	Universal three-way toggle valve
032039	Faceplate - On/Off

## AIR ACCESSORY VALVES

### Universal Air Accessory Dash Valves

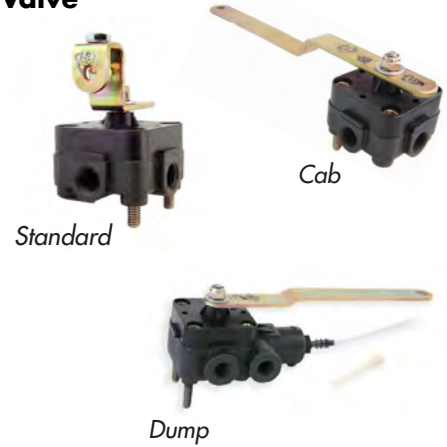


- Two position, three-way air valves
- Include DOT compliant (FMVSS 106) push-to-connect fittings for 1/4" tubing
- Built-in standard four pin electrical connector for backlit function
- Additional rear port used to easily jumper air lines between valves
- Fit standard 22 mm x 44 mm openings, easily replacing valves found on many current model trucks
- Operating Temperature: -10° to +160°F
- Rated Pressure: 150 psi maximum
- Rated Current Load: 1 amp at 14 VDC (max.)
- Electric Connector: Valve connector mates with Metri-Pack 150 Series connector Part No. 12045813 with female terminals (for reference only - not available from Velvac and not included)

Part #	Description
032247	Inter-axle differential lock dash valve
032248	Fifth wheel slide dash valve
032249	Air suspension dump dash valve
032250	Power take off dash valve
032253	Universal dash valve
032022	Inter-axle differential lock dash valve
032023	Differential lock dash valve

### Height Control Valves: Standard Leveling Valve, Cab Leveling Valve and a Rapid Dump Feature Valve

- Valves feature patent Shear-Seal® design technology
- Superior performance in high cycle and contaminated air conditions
- Precision machined metal sealing surface creates a zero leak\* seal
- Increased life expectancy and lower air consumption
- Direct replacement for many OE valve installations



Part #	Description	Ports	Replaces	Used with Vehicles
034101	Cab valve	1/4" NPT	WABCO S464 007 004-0 Barksdale KD2483	International cab, Peterbilt cab
034111	Standard chassis valve	1/4" NPT	WABCO S464 002 443-0 Barksdale KD2484 Midland KN 27000	International chassis
034112	Standard chassis valve	1/4" NPT	Hadley/Neway 90054007, Barksdale KD2485	Kenworth chassis
034113	Standard chassis valve	1/4" NPT	Delco King of the Road 12C-1 (KOR 5549705) & 12-6-2 (KOR 5549706), Barksdale KD2489	Volvo chassis
034114	Standard chassis valve	1/4" NPT	Hadley H00450CE Barksdale KD2482	Volvo / Mack chassis
034122	Dump valve	1/4" NPT	Hadley H00500RS Barksdale KD2486	International chassis
034123	Dump valve	1/4" NPT	WABCO 464 008 115-0 Barksdale KD2487	Volvo chassis
034124	Dump valve	1/4" NPT	International 2506169C91 Hadley HAD500NS, Barksdale KD2488	International chassis w/dump, Peterbilt chassis w/dump
034126	Dump valve	1/4" NPT	Haldex PR 90554950 & 90554945, Barksdale KD2490	Kenworth chassis w/dump, Volvo chassis
034137	Standard chassis valve	1/4" NPT	Barksdale KD2481, Volvo 85112638, Volvo 85108667, Volvo 85112623, Mack 99QK148M	Volvo / Mack chassis

NOTE: See photos on next page.  
\*Zero-leak is less than 4CC per minute

Shear-Seal® is a registered trademark of Barksdale Control Products



034137



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### Shear-Seal® Height Control Valve



034122



034123



034124



034112



034101



034126



034113



034114



034111

### Shear-Seal® Height Control Valve Linkage and Hardware

#### Adjustable Linkage

- Adjusts for 8-3/4" to 14-1/2"
- 1/4" diameter mounting bolts
- Zinc plated steel rods
- Elastomer ends



Adjustable linkage



034135



034136



034134

Part #	Description
034130	Adjustable Linkage - adjustment range 6.9-9.6 inches
034131	Adjustable Linkage - adjustment range 9.8-11.5 inches
034132	Adjustable Linkage - adjustment range 10.9-13.6 inches
034133	Adjustable Linkage - adjustment range 12.8-19.0 inches
034134	Linkage Hardware - 5/16-18 thread
034135	Linkage Hardware - 1/4-20 thread
034136	Linkage Hardware - 8 mm course thread



## AIR ACCESSORY VALVES

### Height Control Valves



032139



034065  
Delayed response\*\*



034064  
Immediate response



032140



032141  
Immediate response\*

Part #	Ports	Description	Replaces
032139	1/8" NPT	Includes linkage and brackets	Hadley H600
032140	1/4" NPT	Valve only	Midland/Haldex & Neway 90554241
032141*	1/4" NPT	Includes built-in dump valve	Midland/Haldex & Neway 90554271
034064	1/4" NPT	Includes linkage kit	Midland KN27000
034065**	1/8" NPT	Includes fitting package	Neway 90054007

\* Normally open dump feature; needs air pressure to dump from air spring

\*\*7-12 seconds prior to releasing air to air bags; also known as self-leveling

### Air Horn Actuator Valves

- Direct replacements for air horn valves found on many trucks
- Replace similar valves from both Grover and Hadley
- Molded mounting bracket and push-connect fittings provide easy installation



Part #	Photo	Description	Ports	Vehicle Application
032240	A	Single outlet	(3) 1/4"	Kenworth
032241	A	Dual outlet	(3) 1/4"	Kenworth
032242	B	Dual outlet	(3) 1/4", (1) 3/8"	Freightliner
032243	B	Single outlet	(3) 1/4", (1) 3/8"	Freightliner
032244	C	Medium-duty	(2) 3/8"	Navistar
032245	D	Conventional cab	(2) 3/8"	Navistar
032246	E	Cab over	(2) 3/8"	Navistar

### Rapid Dump Air Suspension Valve



- Replaces Humphrey 250A N/O valves
- Pilot operated
- Dual delivery design allows for in-line plumbing of air spring lines and eliminates need for tee fittings
- (4) 1/8" FPT ports
- Mounts on either right or left frame rail using 1/4" mounting holes

Part #	Description
032195	Rapid dump air suspension valve



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## AIR ACCESSORY VALVES

### Pressure Protection Valves

- Nominally closed
- Nominal closing pressure 65-75 psi
- (2) 1/4" FPT ports
- 150 psi maximum operating pressure



- Designed for convenient in-tank mounting on tanks with dual outlet ports
- All valves except Part No. 032221 include Vibraseal sealant on mounting thread for easy installation

Part #	Description
032086	Pressure protection valve

- Direct replacement for Bendix 286500
- 1/4" NPT supply and delivery ports
- 85 psi nominal closing pressure
- Non-adjustable



PR-4 Style

Part #	Description
034037	Pressure protection valve

### Three-Way Pilot Valve

- Direct replacement for Neway 90054079
- For Neway suspension systems
- 1/4" NPT supply / delivery / exhaust ports



Part #	Description
034074	Three-way pilot valve

Part #	Inlet Port (NPTM)	Outlet Ports (NPTF)	Nominal Opening Pressure (psi)	Nominal Closing Pressure (psi)	Primary Vehicle Application
032216	3/8"	3/8"	55	45	Freightliner
032217	3/8"	3/8"	85	67	Ford
032218	1/2"	3/8"	55	45	Freightliner
032219	1/2"	3/8"	85	67	Freightliner
032220	1/2"	1/4"	65	55	Peterbilt
032221	1/2"	1/4"	100 (max)	70 (min)	Kenworth
032222	1/4" Hex nipple	1/4"	100 (max)	70 (min)	Mack*

NOTE These are only primary listings-valves are universal and suitable for a variety of applications

\* Replaces Mack number 20QE2326A

### Height and Lumbar Control Seat Valves



- Valves control air ride truck seats and lumbar supports
- Available in push/pull and paddle type configurations
- Spring-loaded, three-way function

- Electro-pneumatic combination valve designed to operate air seats using an electric air compressor
- Designed to replace valves on seats by major manufacturers such as Bostrom, National and Sears

Part #	Photo	Description	Ports	Primary Seat Application
032110	A	End and side ported with removable chrome knob	(2) 1/8" FPT	Various
032205	B	End ported with removable chrome knob	(2) 1/8" FPT	Various
032206	C	Electro-pneumatic with removable black knob & (2) 1/4" blade terminals	(1) 1/8" FPT	Various
032201	D	Paddle type	(2) 3/16" Barbs	Bostrom

NOTE These are only primary listings-valves are universal and suitable for a variety of applications

## PRESSURE SWITCHES AND INDICATORS

### Air Pressure Gauge

- 1-1/2" diameter dial
- Accommodates a 1/8" FPT port
- Pressure range of 0 - 160 psi



Part #	Description
035065	Air pressure gauge

### Brake Light Switch (SL-4 Style)

- Direct replacement for Bendix 228600
- 1/4" NPT supply
- Actuates at 3-5 psi



Part #	Description
036036	Stop light switch

### Low Pressure Indicators (LP-3 Style)

- 1/4" NPT supply
- Automatic pressure release at 60 +/- 6 psi



Part #	Description	Replaces
034041	Single terminal	Bendix 279416
034042	Double terminal	Bendix 228750

NOTE: Use in conjunction with either warning buzzer Part No. 036043 or warning light Part No. 036049

### Pressure Regulator Valve

- A compact, high quality in-line pressure regulator with gauge and bracket kit, rated to 125 psi with 1/4" NPT ports



Part #	Description
320149	Pressure regulator valve

### Low Air Warning Buzzer

- 12 volt buzzer
- 9/32" diameter mounting holes



Part #	Description
036043	Low air warning buzzer

NOTE: Use in conjunction with a low pressure switch, Part No. 034041 or 034042

### Low Air Pressure Warning Light

- 12 volt red light
- Uses #57, 1895 or 293 bulb
- Mounts through 3/4" hole
- Complete with low air face plates



Part #	Description
036049	Low air pressure warning light assembly
002063	Replacement red pilot light
036045	Replacement faceplate

NOTE: Use in conjunction with a low pressure switch Part Nos. 0304041, 034042 or 175043

### Pressure Regulator Valve

- Direct replacement for Bendix 217380 & Midland KN31070
- Non-exhaust type regulator
- 3/8" NPTF delivery and supply ports
- 10-125 psi adjustable pressure gauge



Part #	Description
032060	Pressure regulator valve



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## AIR TANK ACCESSORIES

### Air Dryer Replacement Cartridges



- All include seal rings

Part #	Description	Replaces
034046	Fits AD-SP type air dryers	Bendix 109994, Bosch 1-487-434-901 & WABCO 432-410-020-2, 432-420-220-2 (also fits System Saver 1200)
034047	Fits AD-4 air dryers	Bendix 103981, 104358
034048	Fits AD-9 air dryers	Bendix 107794, 107796


### AD-9 Air Dryer Rebuild Purge Kits



- Installation instructions and all necessary lubricants included
- 12 and 24 VDC heater/thermostat kits also sold separately. These include the heater/thermostat assembly, seal rings and mounting hardware

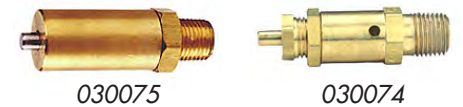
Part #	Description	Replaces
034087	Purge valve kit w/ purge piston assembly	Bendix 5005037, 5004336, 5004337, 107798
034088	Purge assembly kit - 12V (includes aluminum purge housing, purge valve kit and 12V heater/thermostat kit)	Bendix 800405
034089	Purge assembly kit - 24 Volt (includes aluminum purge housing, purge valve kit and 24V heater/thermostat kit)	Bendix 5004338
034092	Heater/thermostat kit only - 12V	Bendix 109578

### Air Dryer Wiring Harness

- Direct replacement for Bendix 109869, 109871, 298948 
- Fits both 12 and 24 volt AD-9, AD-SP, AD-IP and System Saver 1200 units
- 22" leads

Part #	Description
034091	Air dryer wiring harness

### Safety Valves (ST-3 and ST-4 Styles)



- ST-3 Style
- Automatic pressure release at 150 psi
- 1/4" NPT
- Adjustable valve preset to 125 psi by factory; adjustable from 41-149 psi

Part #	Description	Replaces
030075	Safety valve	Bendix 284142 & Midland KN31200, KN31400
030074	Adjustable safety valve	Bendix 205105

- ST-4 Style 
- 1/4" NPT 034090
- Automatic pressure release at 150 psi
- Low profile valve fits AD-9, AD-SP, AD-IP, and System Saver 1200 air dryers

Part #	Description	Replaces
034090	Safety valve	Bendix 800350

## AIR TANK ACCESSORIES

### Single Check Valves



034044



320014



320001



034045



320003

Part #	Description	Replaces
034044	1/4" Threads	Bendix 229603, 800375
320014	3/8" Threads	Bendix 227870, 800373 & Midland KN23010
320001	1/2" Threads	Bendix 227717, 227788, 227871, 800372 & Midland KN23000
034045	1/2" Female threads	Bendix 800370
320003	3/4" Threads	Midland KN23040

### Air Tank Drain Cocks



036003



036019,  
036020



036021

- 1/4" MPT (except 036020)

Part #	Description
036003	Lever handle drain cock
036019	Back seating drain cock - 1/4" MPT
036020	Back seating drain cock - 3/8" MPT
036021	Wing handle drain cock

### Drain Pull Valves



- Attached vinyl coated aircraft cable
- .075" diameter cable
- 1/4" MPT
- 120 psi maximum pressure

Part #	Description
032135	Valve with 3' cable
032058	Valve with 4' cable
032082	Valve with 5' cable
032160	Valve with 5' cable uncrimped on free end - includes one extra sleeve
032081	Valve without cable
032170	100' Bulk cable
032083	Replacement 5' cable & sleeves
032185	Replacement cable sleeve

### Automatic Reservoir Drain Valve (DV-2 Style)



Non-heated

- Direct replacement for Bendix 281923 & Midland KN24000
- All ports 3/8" NPT

Part #	Description
034043	Automatic reservoir drain valve

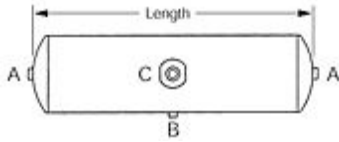
**NOTE: Part numbers listed in RED are NEW!**



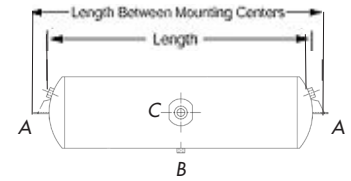
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## AIR TANKS, BRAKE CHAMBERS AND DIAPHRAGMS

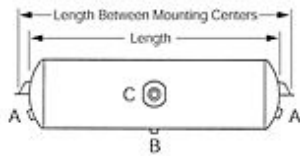
### Air Tanks



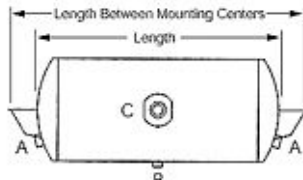
Type 1 - Bracket Mounted



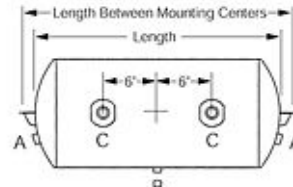
Type 2 - Flange Mounted



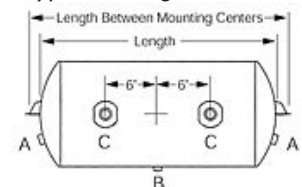
Type 3 - Flange Mounted



Type 4 - Flange Mounted



Type 5 - Flange Mounted



Type 6 - Flange Mounted

- All tanks feature dual main ports except Part No 035103
- All steel construction
- All tanks are water tested prior to shipping
- Dipped tanks are rust resistant and primer sealed
- Internally corrosion resistant
- Tanks meet SAE J10 requirements

### Air Tank Check Valve Kit

- Provides a second dry air reservoir
- Kit includes 1425 cu. in. air tank, mounting brackets, one-way check valve, reducer bushing and 1/4" drain plug

Part #	Description
131045	Air tank check valve kit

### Air Tank Mounting Brackets



- For tanks up to 8-3/16" in diameter

Part #	Description
501051	Air tank mounting brackets

Part #	Tank Type	Diameter	Length	A	B	C	Cu. in. Capacity	Mounting Centers
035103*	1	8"	29-1/4"	1/2"	1/4"	3/4"	1425	-
035101	2	8"	29-1/4"	3/8"	1/4"	3/4"	1425	32"
035102	3	8"	29-1/4"	3/8"	1/4"	3/4"	1425	32"
035106	3	9-1/2"	22-1/2"	3/8"	1/4"	3/4"	1488	27-1/2"
035104	4	9-1/2"	22-1/2"	3/8"	1/4"	3/4"	1488	27-1/2"
035105	4	9-1/2"	22-1/2"	1/2"	1/4"	3/4"	1488	27-1/2"
035108	3	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"
035107**	5	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"
035109**	6	12"	27"	3/8"	1/4"	3/4"	2850	29-1/2"

\* This tank can also be used for vacuum applications - also see mounting brackets Part No. 501051

\*\* Dual main ports on same side of tank-ports are 12" apart on center

### Air Brake Chambers



- Direct replacement for all popular service brake chambers
- Fully threaded shaft for maximum adjustability
- Mounting hardware, clevis and cotter pin included

Part #	Dia.	Type	Working Stroke
030013	5.785"	12	1-3/4"
030015	6.5"	16	2-1/4"
030017	7"	20	2-1/4"
030019	7.5"	24	2-1/2"
030021	8.25"	30	2-1/2"

### Air Brake Diaphragm



- Gas and oil resistant
- Rubber/neoprene blend
- Fabric reinforced for extra strength and long life

Part #	Diameter	Type
031021	6"	9
031023	5.5"	12
031025	6"	16
031027	6.5"	20
031031	7"	24
031033	8"	30
031035	9"	36

## AIR CYLINDER CONTROL VALVES

- Anodized aluminum black bodies
- Nitrile seals for long cycle life
- High impact knobs
- Balanced spool design
- Operating temperature range from -40° F to +180°F
- Stainless steel hardware
- Normal operating pressure 100 psi

### Four-Way Push/Pull Valves



- Aluminum shaft with delrin detent ring provides easy ID of valve position
- Threaded aluminum mounting boss for 1" diameter through hole mounting (nuts included)
- (3) 9/32" dia. body mounting holes
- (5) 1/4" - 18 FPT ports
- Normal operating pressure 100 psi
- Includes two faceplates:
  - » Pull to open/Push to close
  - » Pull to raise/Push to lower

### Applications for valves:

- Two position valve operates any double acting air cylinder
- Three position valve operates systems where full air or vacuum pressure must be isolated

Part #	Description
320175	2-position valve
320176	3-pos, holding type valve
320125	Replacement knob, faceplates and nuts

### Viper™ Four-Way Push/Pull



- One piece stainless steel shaft
- Can be mounted using (2) 3/16" diameter body mounting holes or through a 1/2" diameter through hole
- (3) 1/8" NPT ports, (2) 10-32 exhaust ports
- Includes faceplate

Part #	Description
320177	"Viper" four-way valve

Viper™ is a trademark of Velvac, Inc.

### Four-Way Rotary Handle Valve



- Three position valve
- (3) 1/4" - 18 FPT ports
- 1/4" NPT threaded exhaust ports
- (2) 1/4" diameter body mounting holes at 1-15/16" on center
- Operating pressure to 150 psi
- Includes solid one-piece handle and two faceplates (Raise/Lower and Open/Close)

Part #	Description
320179	Rotary handle valve
321034	Raise/Lower faceplate
030092	1/4" Cone filter

### Four-Way Push/Pull Compact Design Valve

- The compact design fits into today's small dash board designs
- Pneumatic valve is designed to control the operations of a typical air cylinder
- 150 psi max air pressure
- 0.4 Cv air flow
- Aluminum body and end caps
- 40 micron filtration

### Four-Way Electronic Solenoid Valve



- Operates any single acting or pressure double acting air cylinder
- Actuated with a std On/Off switch
- Air-piloted assist
- (5) 1/4" -18 FPT port
- (3) 9/32" dia valve body mtg holes
- Normal operating pressure 100psi
- Exhaust cone filters included

Part #	Description
320178	4-way solenoid
320132	Electrical coil
320133	Solenoid mounting nut
030092	1/4" Cone filter
030084	1/8" Cone filter

### Four-Way Mini Electronic Solenoid Valve



- Compact design - 4" overall length
- Air-piloted assist
- 1/8" supply and delivery ports
- 10-32 exhaust ports
- 12VDC coil with low 2 watt draw
- Normal operation pressure
- 100 psi

Part #	Description
320180	4-way mini solenoid
030093	10-32 Cone filter

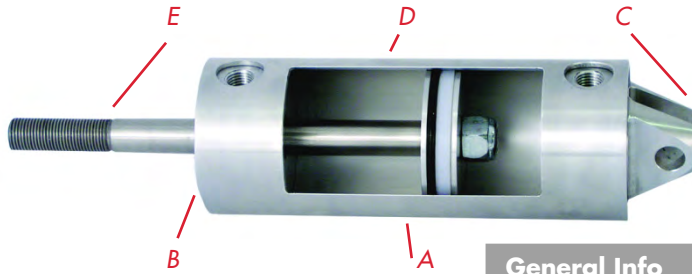


Part #	Description	Parker #
320187	Four-way valve	410939002



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## AIR CYLINDERS



Backed by a 3 year warranty

Velvac's heavy-duty Enforcer™ series of air cylinders are built tough for long life and made from some of the strongest materials available today!

- Machined from 6061 series aluminum, 303 stainless steel, with Nitrile "O" rings and a UHMW polyethylene wear band
- Cycle tested into the millions. The solid construction means the cylinders will keep on working even in extreme conditions where other air cylinders fail. These cylinders are available in push/pull, solenoid operated and spring return versions

General Info	Feature	Type
Cylinder Construction	A	Aluminum cylinder tubing with a 16 RMS finish, lock ring construction secures end caps to tube
Front Cover	B	Solid aluminum with oilight bronze bushing, Delrin seal and 1/4" NPT port
Rear Cover	C	Solid aluminum with mounting hole for 1/2" clevis pin and 1/4" NPT port
Piston Cup	D	Solid aluminum with Nitrile "O" ring rated at -40° to +185°F and UHMW polyethylene wear band
Piston Rod	E	5/8" diameter 303 series stainless steel with 5/8" - 18 thread
Temp Rating	-	-40° to +185°F
Pressure Rating	-	10 psi minimum to 150 psi maximum Standard operating pressure 100 psi

### 2-1/2" Air Cylinder



Part #	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100204	Push/Pull	4"	9.89"	13.89"	491 lb	460 lb
100226	Spring Return	6"	13.75"	19.75"	251 lb	460 lb
100206	Push/Pull	6"	11.89"	17.89"	491 lb	460 lb
100208	Push/Pull	8"	13.89"	21.89"	491 lb	460 lb

### 3-1/2" Air Cylinder

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length	Thrust at 100 psi	Draw at 100 psi
100308	Push/Pull	8.68"	15.60"	24.28"	962 lb	930 lb
100310	Bullet Type	10"	16.92"	26.95"	962 lb	930 lb

## AIR CYLINDER CONTROL VALVES

### Cone Filters



Part #	Description
030093	10-32 Cone filter
030084	1/8" Cone filter
030092	1/4" Cone filter
030094	3/8" Cone filter

NOTE: Air cylinders and tailgate kits are designed to operate the locking linkage on dump bodies and are NOT to be used as a means of mechanically holding the tailgate shut. Custom kits are available - contact Velvac for more information

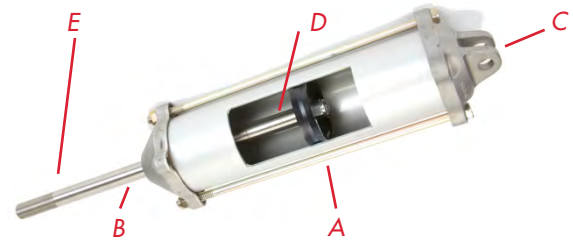
Enforcer™ is a trademark of Velvac, Inc.

## AIR CYLINDERS



Velvac's standard series of air cylinders are built for durability with a reputation for quality and affordability!

- Used in a wide variety of applications and conditions and can take the daily abuse associated with typical tailgate applications
- Backed with a 1 year warranty and 100% tested
- Available in push/pull, solenoid operated and spring return versions



General Info	Feature	Feature/Benefit
Cylinder Construction	A	Smooth cylinder grade aluminum tubing with a 32 RMS finish, tie rod construction secures end caps to tube
Front Cover	B	Die cast aluminum with Nitrile dirt wiper and pressure seal and oil impregnated bronze bushing and 1/4" NPT port
Rear Cover	C	Die cast aluminum with mounting hole for 1/2" clevis pin and 1/4" NPT port
Piston Cup	D	Emralon-coated, single piece, molded piston cup
Piston Rod	E	5/8" diameter 300 series stainless steel with 5/8" - 18 thread
Temp Rating	-	-20° to +185°F
Pressure Rating	-	10 psi minimum to 120 psi maximum Standard operating pressure 100 psi

### 2-1/2" Air Cylinder

At 100 psi:

- Thrust: 483 lb
- Draw: 452 lb

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length
100122	Push/Pull	4"	9.89"	13.89"
100125	Spring Return Norm. Ext.	4"	10.62"	14.62"
100123	Push/Pull	6"	11.89"	17.89"
100126	Spring Return Norm. Ext.	6"	13.89"	19.89"
100124	Push/Pull	8"	13.89"	21.89"

### 3-1/2" Air Cylinder

At 100 psi:

- Thrust: 962 lb
- Draw 918 lb

\*Kit contains air cylinder Part No. 100132 and extended clevis kit #019051. Use this kit when replacing previous cylinder Part No. 101028

Part #	Cylinder Type	Stroke	Retracted Length	Extended Length
100131	Push/Pull	6.68"	13.60"	20.28"
100132	Push/Pull	8.68"	15.60"	24.28"
100136	Push/Pull	8.68"	18.43"	27.12"
100137*	Push/Pull	8.68"	15.60"	24.28"

NOTE: Air cylinders and tailgate kits are designed to operate the locking linkage on dump bodies and are NOT to be used as a

means of mechanically holding the tailgate shut. For tailgate kits see page A33. Custom kits are also available - contact Velvac for information



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## AIR CYLINDER TAILGATE LOCK KITS

### Velvac Original



Part #	Cylinder Diameter/Stroke
100022	2-1/2" x 8" Kit, contents as shown
100028	2-1/2" x 8" Kit, contents as shown, plus 50' of 3/8" black nylon tubing and clips
101002	3-1/2" x 8" Kit, contents as shown, plus 50' of 3/8" black nylon tubing and clips and extended clevis kit Part No. 019051 (see FITTINGS & HARDWARE section)

Part #	Cylinder Diameter/Stroke
101054	2-1/2" x 8" Kit, contents as shown
101058	3-1/2" x 8" Kit, contents as shown

Part #	Cylinder Diameter/Stroke
101055	2-1/2" x 8" Kit, contents as shown
101059	3-1/2" x 8" Kit, contents as shown

Part #	Cylinder Diameter/Stroke
100144-7	3-1/2" x 8" Kit, contents as shown - designed to fit Ox bodies

Part #	Cylinder Diameter/Stroke
100036	2-1/2" x 6" Kit
100037	2-1/2" x 8" Kit
101003	3-1/2" x 8" Kit with extended clevis, Part No. 019051
101004	3-1/2" x 6" Kit
101078	3-1/2" x 8" Kit with clevis Part No. 019049

- Solenoid operated cylinder kits allow the operator to electronically unlock tailgate without leaving the cab
- All kits include clevis and pins, electrical switch part No. 090177, cylinder with four-way solenoid attached

## FIFTH WHEEL AIR CYLINDERS



- Cast aluminum front and rear cover with 1/4" FTP port
- 100 psi operating pressure
- Mounting hole for 17/32" clevis, front and rear
- Gold anodized tube for corrosion resistance

Part #	Bore	Stroke	Replaces	Retracted Length	Extended Length
100101	2-1/2"	6-3/4"	Holland XA-2524-R	12-5/8"	19-13/32"
100102	3-1/2"	2"	Holland XA-2524-R-13-1	7-21/32"	9-21/32"



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## LIFT AXLE AND SUSPENSION VALVES

### Manual Push/Pull Valves

- High flow dual pressure air valves for lift axles, suspension dump systems and tailgate control
- Solid aluminum construction
- Nitrile seals for long cycle life
- High impact knobs with face plates
- Balanced stainless steel and aluminum spool design
- Operating temperature range from -40° to +180°F
- Stainless steel hardware
- Normal operating pressure 100 psi



320188



320184



320192



320146

Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320188	"Mini" valve w/ built in exhaust filter	3 Way	1/4" NPT	1.5 Cv	Single acting air cylinders, lift axles or suspension systems	
320184	Valve w/ remote 1/4" NPT exhaust air pilot reset option	3 Way	3/8" NPT	2.2 Cv	Single acting air cylinders, lift axles or suspension systems	
320192	3 position valve with center exhaust feature	4 Way	1/4" NPT	1.5 Cv	Single or double acting air cylinders	
320146	2 position with soft 4 way detent and 1/8" NPT remote air pilot reset option	4 Way	3/8" NPT	2.2 Cv	Single acting air cylinders, lift axles or suspension systems	

### Lift Axle Control Valve

- Designed for the heavy duty truck and trailer industry
- Includes two industry-proven brake-style relay valves integrated into a single unit for compactness and ease of installation
- Excellent flow capability for rapid axle actuation
- Optional control solenoid for electric control operating system

Part #	Description
034139	Lift axle control valve

**NOTE:**  
Part numbers listed in RED are NEW!



### Silicone Lubricant

- Specially formulated silicone lubricant protects and extends the life of air valves and air brake valves. Helps repair the drying effects caused by alcohol and antifreeze
- Light oil can be added directly into the air lines and the heavy oil can be added directly into the valves.



Part #	Description
320170	Light weight oil - 4 oz bottle
320171	Light weight oil - 5 pack of 4 oz bottles
320172	Heavy weight oil - 4 oz bottle
320173	Heavy weight oil - 5 pack of 4 oz bottles

#### Helpful hint:

To prevent damage to seals, premature air product failures,

### Brass Electric Coil Air Converter

- Solenoid override adapter mounts on the coil and allows the conversion of the electrical signal into an air signal
- 1/8" NPT ports
- Solid brass construction



Part #	Description
320148	Brass electric coil air converter

and possible warranty claim rejection, many OE manufacturers instruct customers to avoid the use of petroleum based products and de-icing agents in their air systems. It is recommended to change the air dryer filters regularly and use silicone valve oils to help repair seal damage and extend the life of air valves

## LIFT AXLE AND SUSPENSION VALVES

### Solenoid Valves

- Solenoid valves allow the driver to operate single or double acting cylinders, lift axles or suspension dump systems electronically
- Constructed with the same materials as Velvac's air accessory valves
- Normal operating pressure 100 psi
- The solenoid valves have a 12-volt power consumption coil that uses only 4.8 watts



Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320185	Spring return valve with 1/8" NPT external pilot	4 Way	3/8" NPT	2.2 Cv	Lift axles or suspension systems	
320181	Spring return valve with internal pilot assist	4 Way	3/8" NPT	2.2 Cv	Lift axles or suspension systems	
320186	Spring return valve with internal manual override	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320189	Spring return valve with air operated external manual override	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320190	Push-pull valve with solenoid air pilot return	4 Way	3/8" NPT	2.2 Cv	Single or double acting air cylinders and lift axles	

### Air-Pilot Valves



Part #	Description	Valve Type	Ports	Air Flow	Applications	Schematic
320191	Air pilot spring return with 1/4" NPT air pilot supply support	3 Way	3/8" NPT	2.2 Cv	Suspension systems	
320183	Shuttle air pilot spring return valve	4 Way	3/8" NPT	2.2 Cv	Lift axles	
320182	Air pilot spring return valve with 1/8" external pilot port	4 Way	3/8" NPT	2.2 Cv	Lift axles	



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