DEL HYDRAULICS PNEUMATIC CONTROLS

CONTROL SOLUTIONS FOR MOBILE APPLICATIONS

24th Edition

DEL®

DEL Products are proudly assembled in Buffalo, New York with U.S. and Canadian Components

DEL Hydraulics, INC.
50 Stradtman Street Buffalo, NY 14206

DEL PUTS YOU IN CONTROL

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DEL PUTS YOU IN CONTROL

WHY CHOOSE DEL?

CUSTOMER SERVICE

Our customer service team has years of knowledge to help you with any of our products. At DEL Hydraulics we are dedicated to helping our customers with any request.

CUSTOM SPECIFICATIONS

Since 1945, DEL Hydraulics has been designing, engineering, and manufacturing evolutionary air controls for a wide variety of demands. No matter the application our team will find a solution!

VALUE

All of our products are assembled in in Buffalo, NY with U.S. and Canadian Components

DEL products are made to last using high quality materials

Most of our products can be rebuilt or repaired in the field saving you time and money

Quick and easy installation

AVAILABILITY

Standard orders ship within 1-2 business days

Short lead times so you can get your system up and running with little downtime

Parts can be expedited if needed

DEL Hydraulics helps each customer until the job is done and beyond!

DEL PUTS YOU IN CONTROL

SINGLE AXIS CONTROLS

Stackable *FEATHERING* Valves utilizes one common inlet port and exhaust port with one standard bolt length. Various bankable applications such as wet line kits, dump pump controls, municipal snowplow vehicles, dump bodies, refuse vehicles and more. Offset handles allow for a clean installation that results in labor cost savings.

- 0-120 psi feathering (proportional/metering) control
- Ability to stack the valves into bankable configurations
- Optimal PSI: between 85 and 120

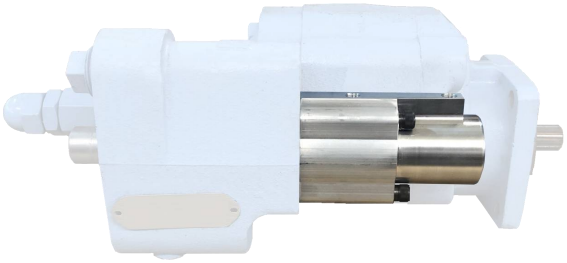
OPTIONS:
- Back-Lit Knobs for all driving conditions, especially at night
- Neutral Detent
- 3-Position Detent: Raise / Lower / Neutral
- Detent Clip
- Spacer to accept various straight handle configurations
- Decals to clearly show function of valve

DUAL AXIS CONTROLS

***FEATHERING* Joysticks** take advantage of a compact assembly allowing single lever control of dual axis valves. Capable of 360° articulation. Various applications include front end loaders, roll-offs and municipal snowplow trucks.

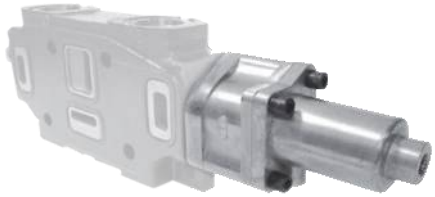
OPTIONS:
- Heavy duty return springs
- Various mounting plates to fit your application
- Push insert cartridge (PIC) fittings to make installation easy
- Electric control grips with hollow handles for hidden wire routing

DUMP PUMP ACTUATORS



Direct-mount **Dump Pump Actuators** for various hydraulic dump pumps. Allows proportional control for lowering dump bodies and dump trailers utilizing DEL single axis or dual axis air controls.

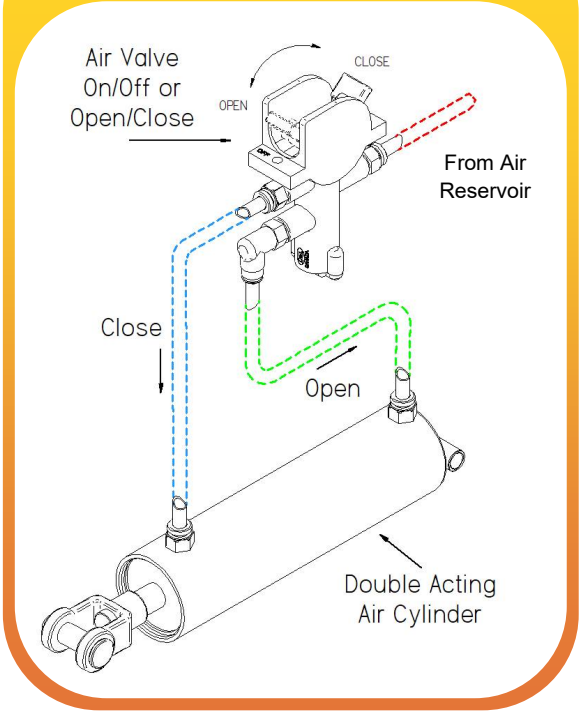
HYDRAULIC VALVE ACTUATORS



DEL's **Air Shift Cylinders** are designed to control the shifting of hydraulic valves. Directly mounts to the end of the hydraulic spool to allow full proportional/feathering control of various applications.

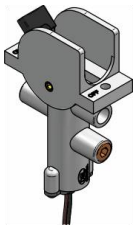
Features:
- Balanced areas for *True Proportional Control*
- Simple installation with no outside moving parts
- Die cast Zinc alloy or Aluminum body to deter corrosion
- Non-binding design
- Pre-assembled for quick installation
- Compact design

Valve Applications



1201 VALVE

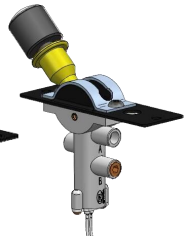
2 POSITION, A/B OR ON-OFF LEVER **D14-1201-99-05**
2 POSITION, A/B OR ON/OFF LEVER W/MICROSWITCH **D14-1201-99-06**
2 POSITION, A/B OR ON/OFF LOCKING TRACK W/MICROSWITCH & CHELSEA BRACKET W/ LED
2 POSITION, A/B OR ON/OFF LOCKING TRACK W/MICROSWITCH & DEL 1221 BRACKET W/ LED



D14-1201-99-06

D18-DMPBRK1201

D14-1201-99-13



D14-1201-99-14

AIR PTO LEVER KIT

1201 PTO AIR KIT

INCLUDES: 1201-99-06, PRESSURE PROTECTION VALVE, MOUNTING BRACKET, FLASHING LED, 1/4" TUBING AND FITTING KIT **D14-DEL-AK1201**

SLIM CONSOLE AND VALVE ASSEMBLIES

DESIGNED TO BE MOUNTED BETWEEN DRIVER DOOR & SEAT

NEEDS LESS THAN 3.75" OF SPACE

D14- 1202-99-01 AND D14-1201-99-06 VALVES MOUNTED IN CONKIT-1250/1201

D14-1250-99-01 AND D14-1201-99-06 VALVES MOUNTED IN CONKIT-DDSLIM

AVAILABLE AS A KIT OR À LA CARTE

See additional custom consoles and pre-made assemblies on *Page 24*

Call us today (716) 853-7996 to discuss your specific need!

PNEUMATIC CONTROL VALVES

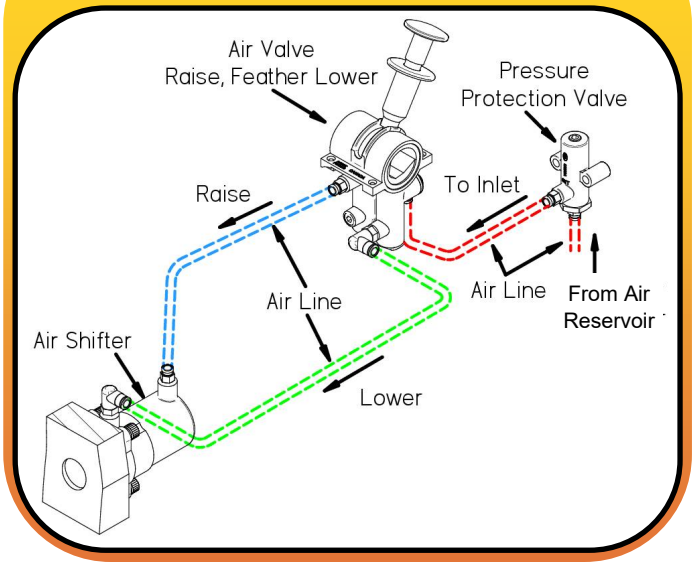
1202 VALVE

Main functions include **Raise, Hold, and Lower** the hoist of dump trucks and trailers.

The **1202 valve** can also control the movement of pneumatic shift cylinders fitted to various hydraulic work sections or dump pumps.

HOIST CONTROL, RAISE, NEUTRAL, LOWER	**D14-1202-99-01**
MINI HOIST CONTROL, RAISE, NEUTRAL, LOWER - 1/4" PTC FITTINGS INSTALLED	
HOIST CONTROL, RAISE, LOWER W/ WILLIAMS PLATE	**D14-1202-99-20**
HOIST CONTROL, SPRING RETURN FROM RAISE	**D14-1231-99-01**
HOIST CONTROL, SPRING RETURN FROM RAISE/LOWER	**D14-1232-99-01**

Valve Applications



2202 VALVE

Same functions as the 1202 valve but half the width!

The D14-2202-99-01 includes 1/4" push to connect fittings

1203 VALVE

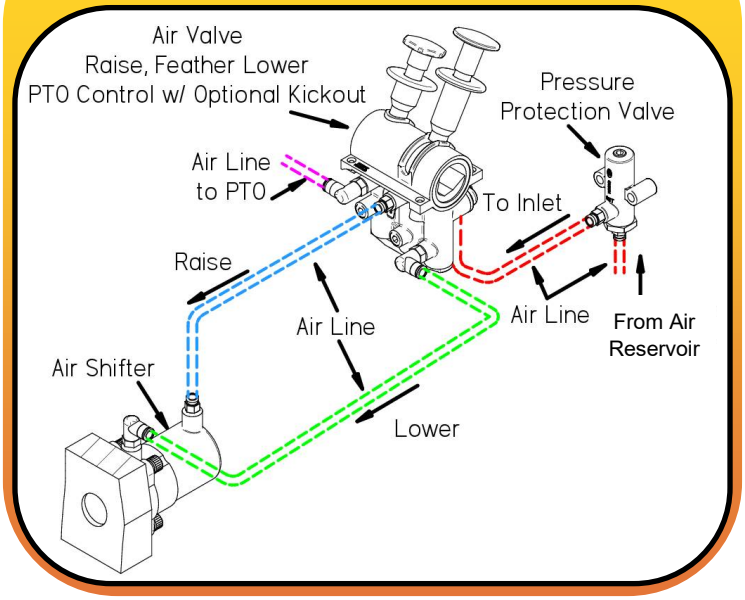
DUAL VALVES
3 POSITION:
RAISE
NEUTRAL - FEATHERING
LOWER

2 POSITION:
ON-OFF

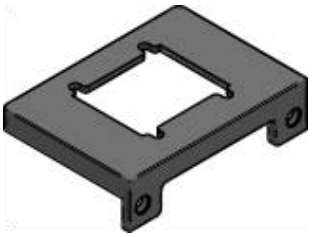
OPTIONAL: PTO disengagement when the dump body is **FULLY LOWERED.**

HOIST PTO CONTROL	**D14-1203-99-01**
HOIST PTO CONTROL PTO DISENGAGEMENT	**D14-1203-99-02**

Valve Applications



1202 & 1203 ACCESSORIES



1202 BRACKET

1202 DASH MOUNTED BRACKET
D18-DMPBRK1202

1202 WM BRACKET

1202 WILLIAMS BRACKET
D18-1202-99-20

1203 BRACKET

1203 DASH MOUNTED BRACKET
D18-DMPBRK1203

Our brackets are made to fit our DEL air control valves for easy installation for any application

See console control ***page 21***

1202 & 1203 REPAIR KITS

Minor Repair Kits

- Includes O-rings, springs, and screws
- **DOES NOT** include pistons

Major Repair Kits

- Includes O-rings, springs, screws, pistons

Screws NOT pictured

1202 Minor Repair Kit
D02-1202S001M

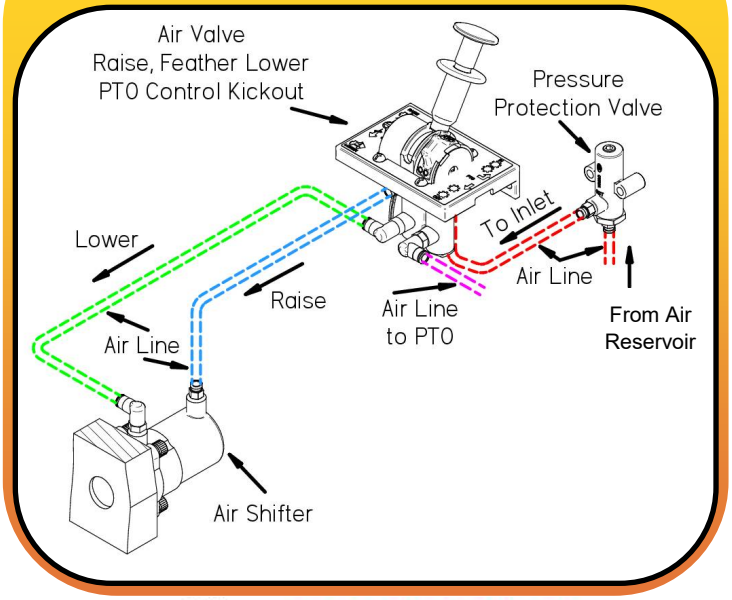
1202 Major Repair Kit
D02-1202S002M

1203 Minor Repair Kit
D02-1203S001M

1203 Major Repair Kit
D02-1203S002M

1295 VALVE

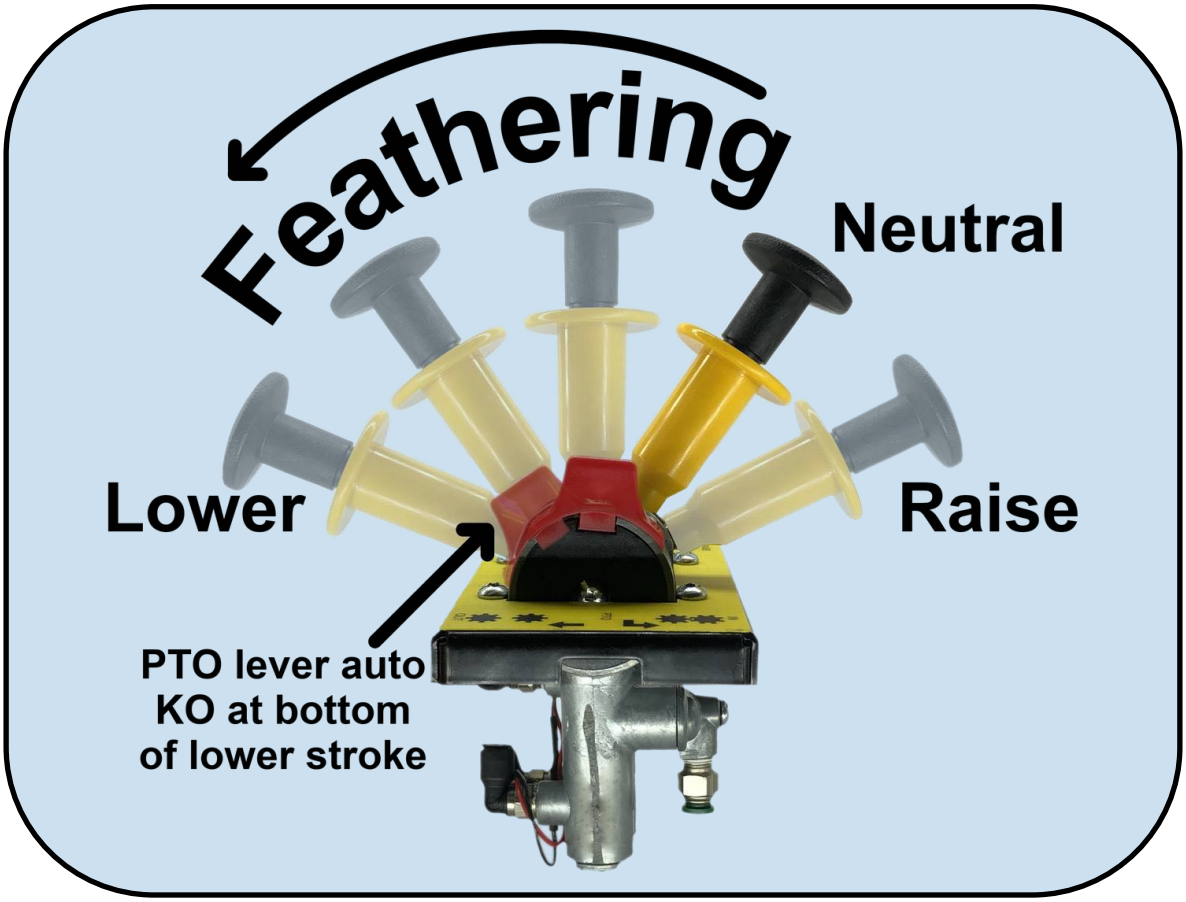
Valve Applications



PTO HOIST AIR CONTROL
D14-1295-99-01

- Similar to our **D14-1203-99-02** but with a smaller footprint for easier installation into tight spaces
- Automatic disengagement of the PTO when the **red** lever is moved to the *FULLY LOWER* position
- Standard 1/8” NPT ports with 1/4” push to connect fittings (PTC) installed
- Pre-mounted in bracket that can be used in our precisely designed consoles

See console control ***page 21***



1295 REPAIR KITS

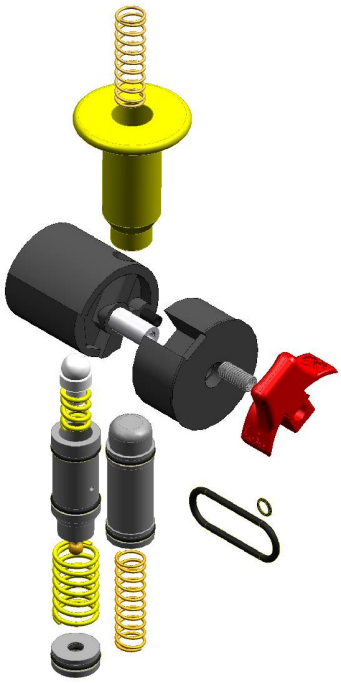
Minor Repair Kits

- Includes O-rings, springs, and screws*
- **DOES NOT** include pistons

Major Repair Kits

- Includes O-rings, springs, screws*, and pistons

Screws NOT pictured

1295 Minor Repair Kit D02-DAV1295MNRE	1295 Major Repair Kit D02-DAV1295MJRE
	

1204 VALVE

ADJ PRESSURE PROTECTION VALVE

D14-1204-99-01

- Protects against total loss of pressure in the system caused by a broken airline or leak
- Automatically cuts the airflow downline to protect critical air systems that require a minimum pressure to operate
- Automatically opens when target pressure is reached
- Factory closing pressure is from 60 to 70 PSI
- Factory opening pressure is from 80 to 90 PSI
- Close and open pressures are adjustable

1205 VALVE

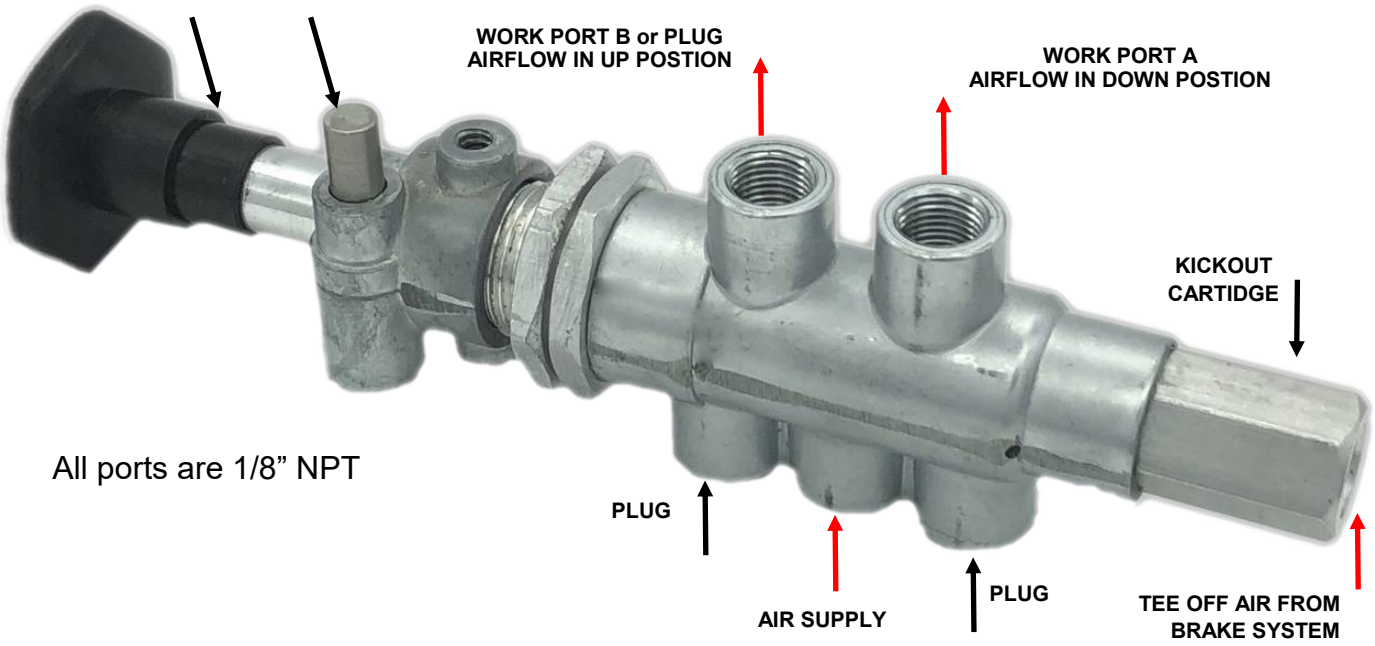
2 POSITION, ON/OFF VALVE WITH PIN LOCK

D14-1205-99-01

1208 VALVE

2 POSITION, LOCK OUT PTO DISENGAGEMENT **D14-1208-99-01**

1208 IN ACTION



All ports are 1/8” NPT

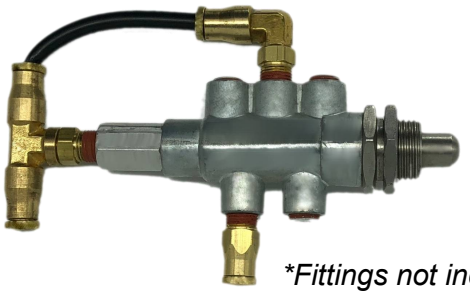
Use the **PTO SAVER** function designed by **DEL Hydraulics** to automatically disengage the PTO when spring parking brakes are released.

In addition to the **PTO SAVER**, use the spring parking brake release action to kick out other air controlled functions to create custom air control solutions.

1213 VALVE

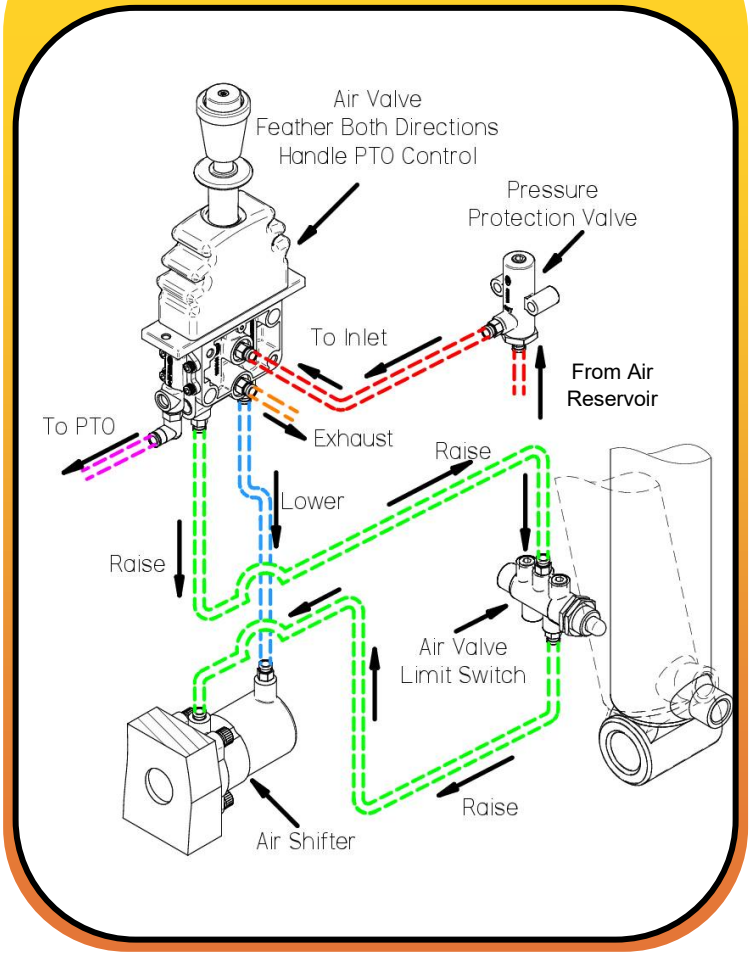
KNOCK IN LIMIT VALVE / BODY UP INDICATOR **D14-1213-99-01**

- Prevents air flow from suppling controls unless pin is depressed
- Stop unwanted control usage in certain setups
- Connect pressure sensor to output to switch electrical circuits - *Ex: Body up indicator*



**Fittings not included*

Valve Applications



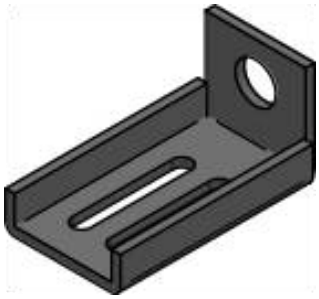
1214 VALVE

DUMP ANGLE LIMIT VALVE **D14-1214-99-01**

- Limits the stroke of the hydraulic cylinder
- **NO MORE** limit cables
- Stops the hydraulic cylinder at the end of the stroke
- *See below for optional adjustable bracket*

1214 BRACKET

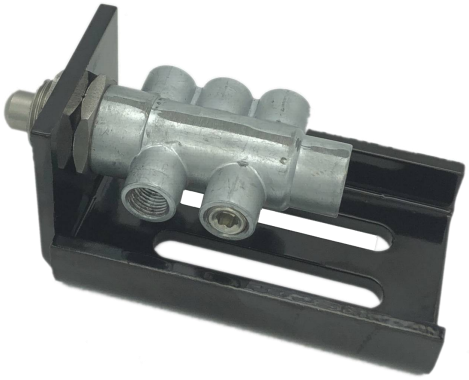
1214 ADJUSTABLE BRACKET **D18-DMPBRK1214**



Bracket ONLY

1214 VALVE & BRACKET KIT

1214 VALVE WITH BRACKET KIT **DAV1214K**



1221 VALVES

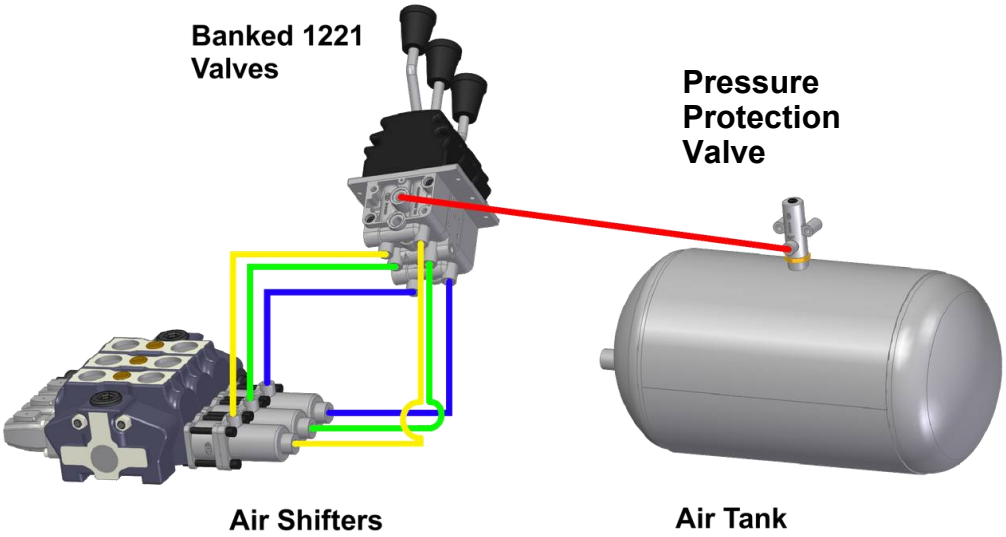
Stackable *feathering* valves using one common inlet and exhaust port with one standard bolt length. Provides various bankable applications such as **wet line kits, dump pump controls, municipal snowplow vehicles, dump bodies, refuse vehicles and more.**

FEATURES:

- 0-120 PSI proportional control
- Offset handles allow for clean installation that reduces labor cost
- All 1221 valves **feather** in both directions

OPTIONS:

- Valve spacer to accept various straight-handle configurations
- Decal to clearly show the function of each valve
    - *See **page 13** for decal options*
- Detent clip kit which can hold in the upper, lower, or both positions



1221 SINGLE VALVES

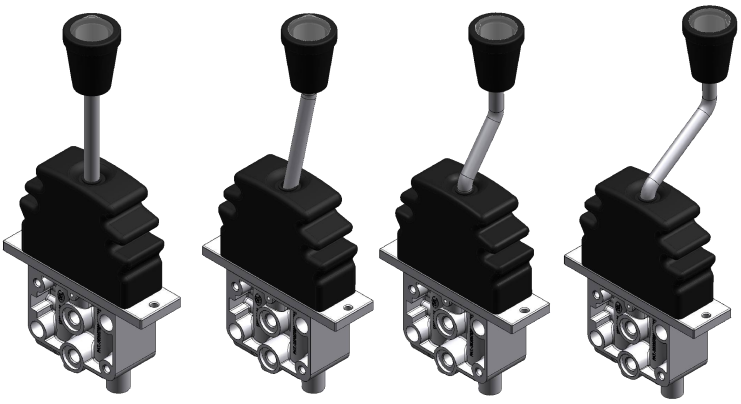
STRAIGHT HANDLE VALVE (ST)	**D14-1221-99-01**
QUARTER BEND HANDLE VALVE (QB)	**D14-1221-99-07**
SHORT BEND HANDLE VALVE (SB)	**D14-1221-99-02**
LONG BEND HANDLE VALVE (LB)	**D14-1221-99-03**

1221 SPECIALTY VALVES

STRAIGHT 3” HANDLE VALVE	**D14-1221-99-10**
STRAIGHT HANDLE, SINGLE DETENT VALVE*	**D14-1222-99-01**
STRAIGHT HANDLE, DOUBLE DETENT VALVE*	**D14-1223-99-01**

**Detent also available for offset handles*
EX: D14-1222-99-03 for LB with single detent

1221 HANDLE EXAMPLES

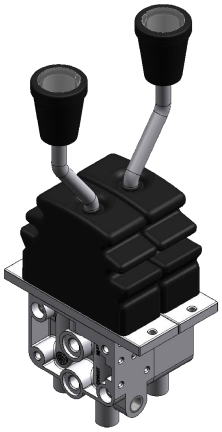


STRAIGHT | QUARTER BEND | SHORT BEND | LONG BEND

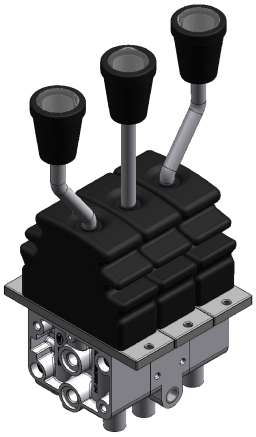
Please call our office at 716-853-7996 for custom valve applications

1221 BANKED VALVES

2-BANK AIR CONTROL VALVE SB X SB	**D14-1221-2B-01**
3-BANK AIR CONTROL VALVE SB X ST X SB	**D14-1221-3B-01**
4-BANK AIR CONTROL VALVE LB X SB X SB X LB	**D14-1221-4B-01**
5-BANK AIR CONTROL VALVE LB X SB X ST X SB X LB	**D14-1221-5B-01**
6-BANK AIR CONTROL VALVE LB X SB X QB X QB X SB X LB	**D14-1221-6B-01**
7-BANK AIR CONTROL VALVE LB X SB X QB X ST X QB X SB X LB	**D14-1221-7B-01**



2 Bank Assembly



3 Bank Assembly

1221 ACCESSORIES

1221 REPAIR KITS

MINOR REPAIR KIT	**D02-DAV1221MNRE**
MAJOR REPAIR KIT WITH ST HANDLE	**D02-DAV1221MJRE**
MAJOR REPAIR KIT WITH QB HANDLE	**D02-DAV1221MJ-07**
MAJOR REPAIR KIT WITH SB HANDLE	**D02-DAV1221MJ-02**
MAJOR REPAIR KIT WITH LB HANDLE	**D02-DAV1221MJ-03**

1221 EXTRAS

BANKING ASSEMBLY ORING*	**D02-DAV1221ORING**
BANKING ASSEMBLY SCREW*	**D03-DAV1221SCREW**
RUBBER BOOT	**D02-DAV1221RBT**
DETENT CLIP KIT	**D24-DETENTCLIPS**
SPACER MANIFOLD BLOCK - BANKABLE	**D24-DAV1221SPCRS**

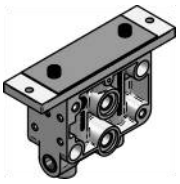
**To make custom valve assemblies, use 4 orings and 2 screws for each extra valve*
Examples: 3 valves to be banked = 8 Banking Orings, 4 Banking Screws
4 valves to be banked = 12 Banking Orings, 6 Banking Screws

1221 UPPER HANDLES

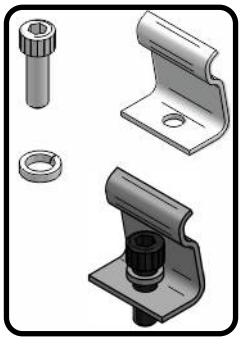
UPPER HANDLE ASSEMBLY - ST HANDLE	**D24-DAV1221UH**
UPPER HANDLE ASSEMBLY - QB HANDLE	**D24-DAV1221UH-07**
UPPER HANDLE ASSEMBLY - SB HANDLE	**D24-DAV1221UH-02**
UPPER HANDLE ASSEMBLY - LB HANDLE	**D24-DAV1221UH-03**

D24-DAV1221UH

D24-DAV1221SPCRS



D24-DETENTCLIPS



Supplied as kit

1224 VALVES

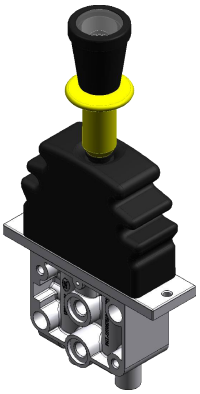
Stackable *feathering* valves using one common inlet and exhaust port with one standard bolt length similar to our **1221** valves. Mainly used for the **raising and lowering of the hoist** on **refuse vehicles, municipal snowplow vehicles, dump bodies, and more.**

FEATURES:

- 0-120 PSI proportional control
- Equipped with a locking handle to avoid accidental movement of the valve
- All 1224 valves **feather** in both directions

OPTIONS:

- Valve spacer to accept various straight-handle configurations
  - *See **page 10** for valve spacer*
- Decal to clearly show the function of each valve
  - *See **page 13** for decal options*
- Steel track that can hold in the neutral, lower, upper, or all 3 positions

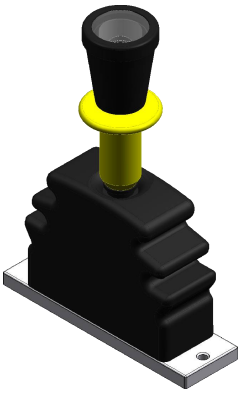


VALVE, LOCK IN NEUTRAL	**D14-1224-99-03**
VALVE, LOCKS IN 2 POSITIONS	**D14-1224-99-04**
VALVE, LOCKS IN 3 POSITIONS	**D14-1224-99-05**
DUAL LOCK IN NEUTRAL ASSEMBLY	**D14-1224-1224**

1224 ACCESSORIES

1224 UPPER HANDLES

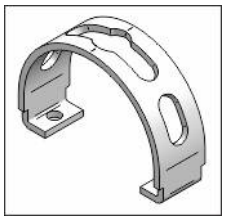
D14-1224-99-03 UPPER HANDLE ASSEMBLY	**D24-DAV1224UH-03**
D14-1224-99-04 UPPER HANDLE ASSEMBLY	**D24-DAV1224UH-04**
D14-1224-99-05 UPPER HANDLE ASSEMBLY	**D24-DAV1224UH-05**



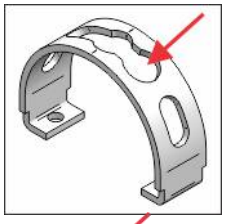
Our 1224 upper handles are interchangeable. Just switch the handles as the application changes.

1224 STEEL TRACKS

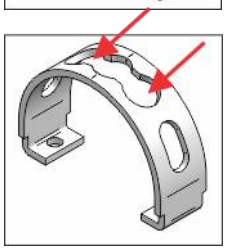
Used in **D14-1224-99-03**
Locks in the neutral position
D24-1264-84-21



Used in **D14-1224-99-04**
Locks in 2 positions
D24-1264-84-22



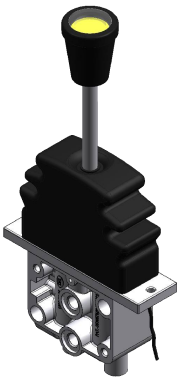
Used in **D14-1224-99-05**
Locks in 3 positions
D24-1264-84-23



AIR CONTROLS with BACK-LIT KNOBS

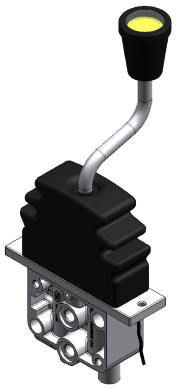
1261 SINGLE VALVES

STRAIGHT HANDLE LIT KNOB VALVE (ST)	**D14-1261-99-01**
SHORT BEND HANDLE LIT KNOB VALVE (SB)	**D14-1261-99-02**
LONG BEND HANDLE LIT KNOB VALVE (LB)	**D14-1261-99-03**

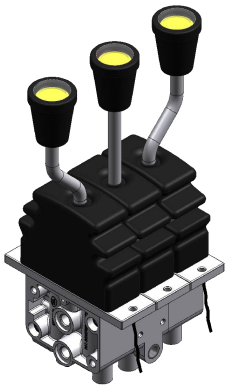


STRAIGHT

SHORT BEND



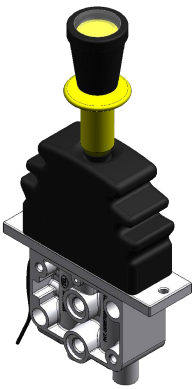
LONG BEND



1261 BANKED VALVES

2-BANK VALVE, LIT KNOBS SB X SB	**D14-1261-2B-01**
3-BANK VALVE, LIT KNOBS SB X ST X SB	**D14-1261-3B-01**
4-BANK VALVE, LIT KNOBS LB X SB X SB X LB	**D14-1261-4B-01**
5-BANK VALVE, LIT KNOBS LB X SB X ST X SB X LB	**D14-1261-5B-01**

- Minimal current draw (1.18mA at 12 volt D.C.) LED lit knobs clearly shows the function of each valve no matter what the driving conditions are.
- *See **page 13** for decal options*



1264 VALVES

VALVE, LOCK IN NEUTRAL, LIT KNOB	**D14-1264-99-01**
VALVE, LOCKS IN 2 POSITIONS, LIT KNOB	**D14-1264-99-02**
VALVE, LOCKS IN 3 POSITIONS, LIT KNOB	**D14-1264-99-03**

DECAL CHOICES

Used with our **1221, 1224, 1261 and 1264** style valves

Our decals can show a number of functions in various bankable valves and can be customized to your application

Mounted under our **removable magnifying cap** (MAGCAP) to ensure they do not wear or get damaged

Below is a chart of the stock decals we offer following the simple part number scheme of **a number and letter**

For example: PLOW DOWN/UP is part number: ***D39-DECAL1A***

	A	B	C	D	E	F
1	DOWN PLOW UP DEL	RIGHT PLOW LEFT DEL	CLOSE PIN LOCK OPEN DEL	DOWN JIB UP DEL	OUT POWER OUT IN DEL	RVRSE CONVEYOR FWD DEL
2	FRONT CONVEYOR BACK DEL	DOWN HOIST UP DEL	DOWN FRONT WING UP DEL	DOWN REAR WING UP DEL	DOWN WING SLIDE UP DEL	DOWN WING BRACE UP DEL
3	DOWN PUSH ARM UP DEL	UNLOCK FRONT HITCH LOCK DEL	DOWN SIDE DUMP UP DEL	DOWN FEED GATE UP DEL	DOWN SIDE TILT UP DEL	OUT TAIL IN DEL
4	DOWN SCRAPER UP DEL	RIGHT SCRAPER LEFT DEL	DOWN SCRAPER CURL UP DEL	RIGHT SCRAPER CURL LEFT DEL	OUT WINCH IN DEL	DOWN LEFT FT WING UP DEL
5	DOWN LEFT RR WING UP DEL	DOWN RIGHT FT WING UP DEL	DOWN RIGHT RR WING UP DEL	OPEN LOAD COVER CLOSE DEL	OPEN TARP CLOSE DEL	LOWER RAISE DEL
6	DOWN UP DEL	RIGHT LEFT DEL	OUT IN DEL	BACK FRONT DEL	CLOSE OPEN DEL	LEFT PLOW RIGHT DEL
7	DOWN FORK UP DEL	DOWN ARMS UP DEL	ON BRAKE OFF DEL	IN EXTENSION OUT DEL	DOWN HIGHLIFT UP DEL	IN TOE HEEL OUT DEL
8	UP TOE HEEL DOWN DEL	IN JIB OUT DEL	UP FRONT WING DOWN DEL	UP REAR WING DOWN DEL		
9	OUT JIB IN DEL	DOWN PONY HOIST UP DEL	A AUX 1 B DEL	A AUX 2 B DEL		

Custom Decals

Have a specific application and don't see it?

Let us design it for you!

Low minimums on prototype designs

Same great benefits of our DEL branded Decals but with:

CUSTOM FUNCTIONS
COMPANY LOGOS
CUSTOM COLORS

1229 VALVES

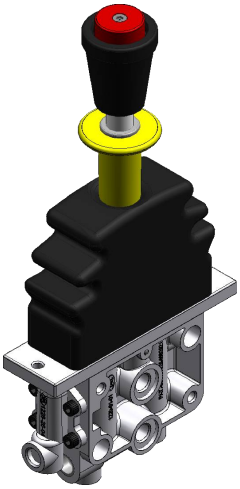
Stackable *feathering* valves using one common inlet and exhaust port with one standard bolt length similar to our **1221** valves. However, the **1229** valve series can operate **two functions** in **one!** The main use of this valve is to operate the **PTO and hoist functions.**

FEATURES:

- 0-120 PSI proportional control
- Has a raised **red** PTO button
- Tamper resistant screw in the **red** PTO button so that the PTO stroke cannot be adjusted
- All 1229 valves **feather** in both directions

OPTIONS:

- Valve spacer to accept various straight-handle configurations
  - *See **page 10** for valve spacer*
- Pressure switch that converts an air signal into an electrical signal



PTO/HOIST VALVE, RAISED BUTTON	**D14-1229-99-21**
PTO/HOIST VALVE, PTO DISENGAGEMENT	**D14-1229-99-02**
PTO/HOIST VALVE, DOUBLE DETENT	**D14-1229-99-03**
PTO/HOIST VALVE, SINGLE DETENT	**D14-1229-99-04**
PTO/HOIST VALVE, PTO DISENGAGEMENT, SINGLE DETENT	**D14-1229-99-05**
PTO/HOIST VALVE WITH PRESSURE SWITCH	**D14-1229-99-06**

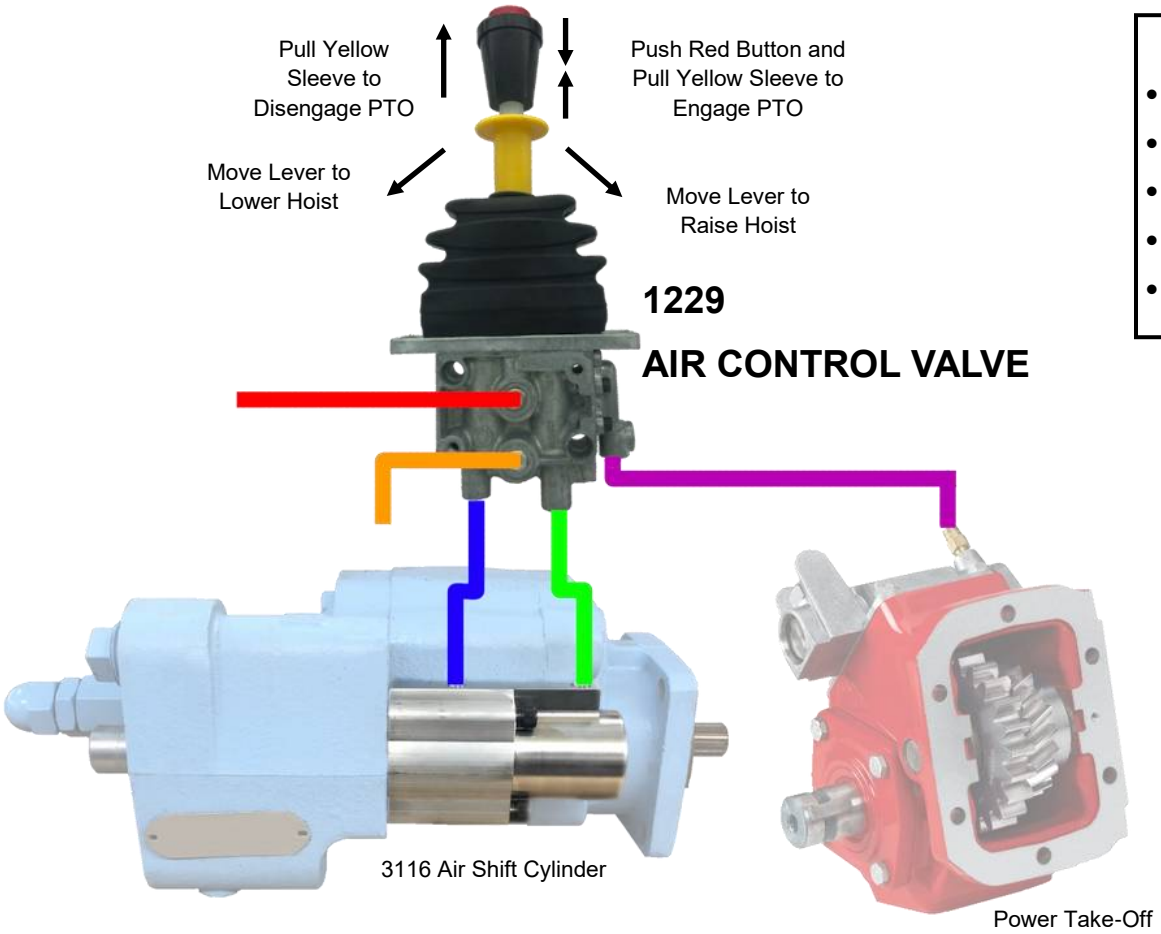


Diagram Key:

- **Purple:** Auxiliary/PTO Port
- **Blue:** Work Port A
- **Green:** Work Port B
- **Red:** Supply
- **Orange:** Exhaust

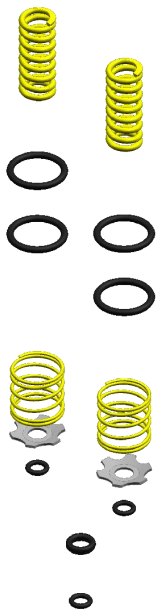
1229 ACCESSORIES

1229 REPAIR KITS

Minor Repair Kit

- Includes O-rings and springs
- **DOES NOT** include pistons or center poppet

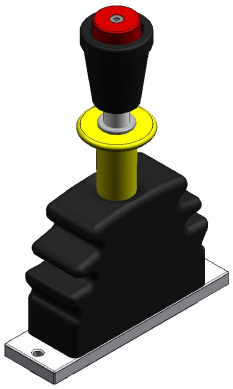
1229 Minor Repair Kit
D02-DAV1229MNRE



1229 Major Repair Kit
D02-DAV1229MJRE

Major Repair Kit

- Includes O-rings, springs, pistons, and center poppet



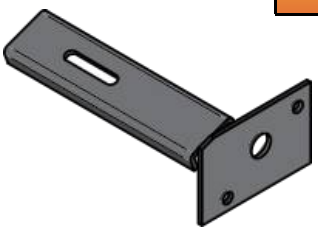
1229 UPPER HANDLE

D14-1229-99-21 UPPER HANDLE ASSEMBLY
D24-1229-9S-32

*See console control **page 21** for more custom fit applications*

1229 BRACKET

1229 VALVE BRACKET
D19-DMP1229BRK



Our **1229 bracket** can also be used for the following:

- 1221, 1224, 1261, and 1264 single valve series

PNEUMATIC CONTROL JOYSTICKS

Feathering joysticks mainly used for **front end loaders, roll-off vehicles, municipal snowplow trucks and more.**

JOYSTICK PLATE DIAGRAM

MT - Monsun-Tison

WM - Williams

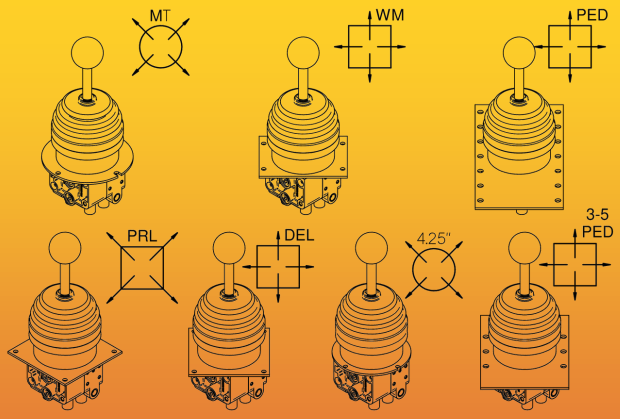
PED - Pedestal

PRL - Parallel

DEL - DEL Offset

4.25” - 4.25” Round

3-5 PED - 3 to 5 PED



FEATURES:

- 0-120 PSI proportional control
- Compact assembly of two 1221 valves to allow simultaneous operation of various functions with one lever
- 360° articulation

OPTIONS:

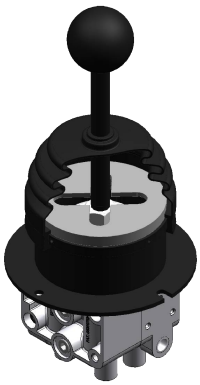
- Various mounting plates for aftermarket and OEM applications
- Lit knob
- Electric control handle grip
- Detent in one position for float function
- Push insert cartridge (PIC) fittings
- Directional gate that prevents 360° rotation for more precise control
- Heavy duty return springs

PLATE	JOYSTICK CONTROL ORIENTATION
MT	Corner to Corner
WM	Up, Down, Left, Right
PED	Up, Down, Left, Right
*PED plate fits our **7 position** pedestal top*	
PRL	Corner to Corner
DEL	Up, Down, Left, Right
4.25”	Corner to Corner
3-5 PED	Up, Down, Left, Right
*3-5 PED plate fits our **3 or 5 position** pedestal tops*	
See page 22 for all pedestal options	

Any joystick series and plate style can be combined to fit your application

See next page for our standard joystick part numbers

1226 Series



1226 Gated Series

1226 Push Insert Cartridge (PIC) Fittings Series

1227 Series
*Detented

1285 Series
*Detented
*Lit Knob

1286 Series
*Momentary 3 Pos. Switch

PART NUMBER	DESCRIPTION
1226 Series	
D45-1226-99-01	MT Plate
D45-1226-99-02	Williams Plate
D45-1226-99-03	Pedestal Plate
D45-1226-99-04	Parallel Plate
D45-1226-99-05	DEL Offset Plate
D45-1226-99-06	4.25” Round Plate
D45-1226-99-08	3 to 5 PED Plate
Specialty 1226 Series	
D45-1226-99-11	MT Plate, Gated
D45-1226-99-31	MT Plate, PIC fittings
D45-1226-99-32	Williams Plate, PIC fittings
D45-1226-99-34	Parallel Plate, PIC fittings
D45-1226-99-43	Two Dual Joysticks, Pedestal Plate
1227 Series	
D45-1227-99-11	MT Plate, Detented
D45-1227-99-13	Pedestal Plate, Detented
1285 Series	
D45-1285-99-03	Pedestal Plate, Lit Knob, Detented
1286 Series	
D45-1286-99-06	MT Plate, 3-pos., Momentary Grip, HD springs
D45-1286-99-09	Parallel Plate, 3-pos., Momentary Grip, HD springs
D45-1286-99-10	DEL Offset Plate, 3-pos., Momentary Grip, HD springs
D45-1286-99-11	MT Plate, 3-pos., Momentary Grip, HD springs, PIC fittings

Call our office at 716-853-7996 for specialized joystick applications

JOYSTICK REPAIR KITS

1226 REPAIR KITS

For 1226, 1227, and 1285 series joysticks

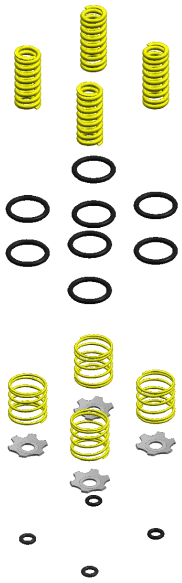
Minor Repair Kits

- Includes O-rings and springs
- **DOES NOT** include pistons

Major Repair Kits

- Includes O-rings, springs, and pistons

1226 Minor Repair Kit
D02-DAV1226MNRE



1226 Major Repair Kit
D02-DAV1226MJRE

1286 REPAIR KITS

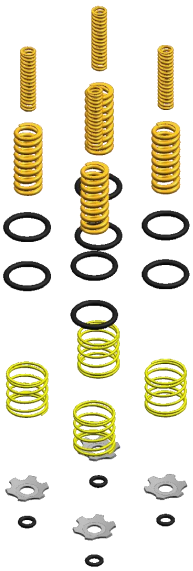
Minor Repair Kit

- Includes O-rings and HD springs
- **DOES NOT** include pistons

Major Repair Kit

- Includes O-rings, HD springs, and pistons

1286 Minor Repair Kit
D02-DAV1226HDMNRE



1286 Major Repair Kit
D02-DAV1226HDMJRE

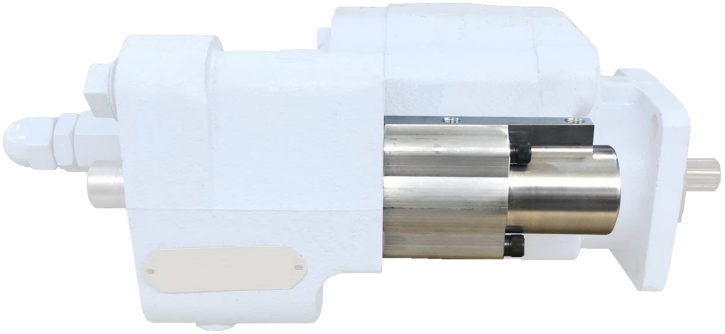
DUMP PUMP ACTUATORS

DEL Hydraulics manufactures direct mount air shift cylinders for various hydraulic dump pumps. They allow proportional control for lowering dump bodies, end dump trailers, etc. that utilize pneumatic controls. Benefits include less installation time and lower overall maintenance costs.

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D15-3010-99-02	Parker G101/102, Non-Detent	1/4-20
D15-3035-99-01	Permco DMD25	3/8-16
D15-3051-99-01	Permco DMD400 (Direct)	W/O Thread
	Permco DMR400 (Remote)	W/O Thread
D15-3116-99-03	Muncie E/EH, C101, C102	W/O Thread
	Parker C101/102	W/O Thread
	Permco DM640	W/O Thread

FEATURES:

- Die-cast Zinc Alloy or Aluminum body
- Non-Binding
- Compact size
- Proportional control
- Preassembled for quick and simple installation
- No exposed parts

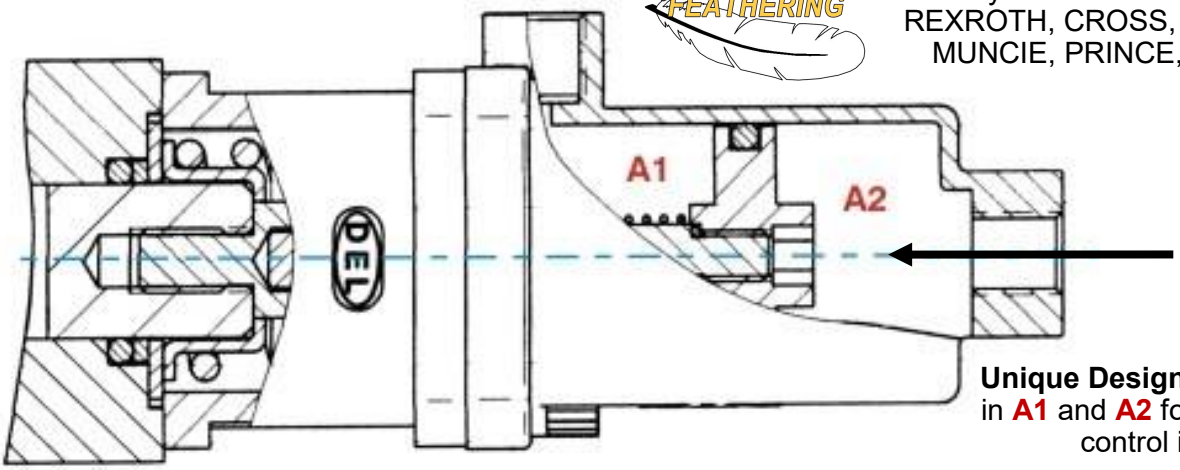


DEL D15-3116-99-03 installed on a dump pump

PRE-ASSEMBLED! ULTRA COMPACT! SIMPLE INSTALLATION!

All Moving Parts TOTALLY ENCLOSED!

Our air shift cylinders fit various dump pumps and hydraulic valves including: PARKER, REXROTH, CROSS, VALVOIL, PERMCO, MUNCIE, PRINCE, SALAMI and more



Simple installation!

Easy Access to spool thread - Just tighten with hex wrench

Unique Design creates balanced areas in **A1** and **A2** for consistent proportional control in both directions

Self-alignment feature prevents binding & jamming of the hydraulic spool

DON'T GET CAUGHT IN A BIND!

HYDRAULIC VALVE ACTUATORS

PARKER SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
ASC-A20	A20	3/8-16
ASC-V20	V20	5/16-18
D16-3015-99-03	V42	3/8-16
D16-3017-99-03	25P	3/8-16
3019-99-03	A35	3/8-16
D16-3027-99-03	V40	1/2-20
D16-3034-99-03	S-100	3/8-16
D16-3050-99-01	K-18	1/4-20

PRINCE SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3024-99-03	5100 Monoblock	1/4-20

SALAMI SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3062-99-03	VD8A	M7x1

CROSS SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3026-99-03	BA	1/4-20

HEIL SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3043-99-01	031-6131-HPT	3/8-24

BLB SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3075-99-03	150 Series	M8

HUSCO SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3038-99-03	5000 Series	5/16-24 & 3/8-24
D16-3039-99-03	6000 Series	M8x1.25

SAUER DANFOSS SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3082-99-04	PVG32-EL-SL	M8x1.25
D16-3083-99-06	PVG32-MAN	M8x1.25

WILLIAMS SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
D16-3025-99-03	08 Series	1/4-20

BUCHER SERIES

PART NUMBER	APPLICATION	SPOOL THREAD SIZE
3087-99-03	HDS-15	M8x1.25

Need Help Selecting an Air Shifter?

Please contact our office at 716-853-7996 with the below information to get started

1. **What is the application?**
2. **Measure the shifter mounting bolt pattern on the hydraulic valve from center to center.**
   See Figure 1 - A1/A2 or B1 depending on style
3. **Provide spool thread size.**
   See Figure 2 - C1 - Note: Can be threadless/pin
4. **Provide any part numbers on the hydraulic valve.**

Figure 1

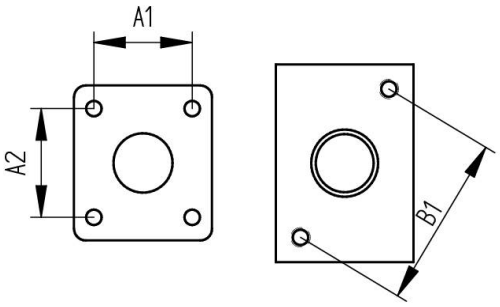
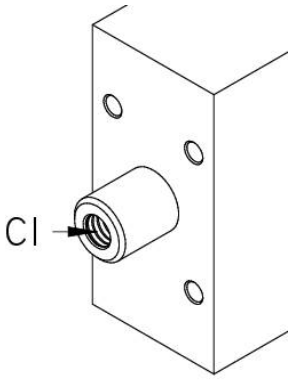


Figure 2



CONTROL CONSOLES

Guide to Ordering

- Know which DEL air control valve is to be installed in the console
- Height of console required
- *For example: a 1202 5" console is part number CONKIT-1202A*

CONKIT-1202A

CONKIT-1203B

CONKIT-1221B

CONKIT1221X2B

CONKIT1221X3C

CONKIT1221X4B

CONKIT1221X5C

CONKIT1295-01B

PART NUMBER	CONSOLE HEIGHT			
	5"	10"	14"	16"
CONKIT-1202	A	B	-	-
CONKIT-1203	A	B	-	-
CONKIT-1221 Can be used for: 1221, 1224, 1229, 1261 & 1264 series	-	B	C	D
CONKIT1221X2	-	B	C	-
CONKIT1221X3	-	B	C	-
CONKIT1221X4	-	B	C	-
CONKIT1221X5	-	B	C	-
CONKIT1295-01 Top Plate comes with 1295 Valve	A	B	-	-
TR-29-1016 Adjustable height from 10" -16" Can be used for: 1221, 1224, 1229, 1261 & 1264 series	-	ADJ.	ADJ.	ADJ.
TR-21-1016 Adjustable height from 10" -16" Can be used for: 2-Bank & 3-Bank series	-	ADJ.	ADJ.	ADJ.

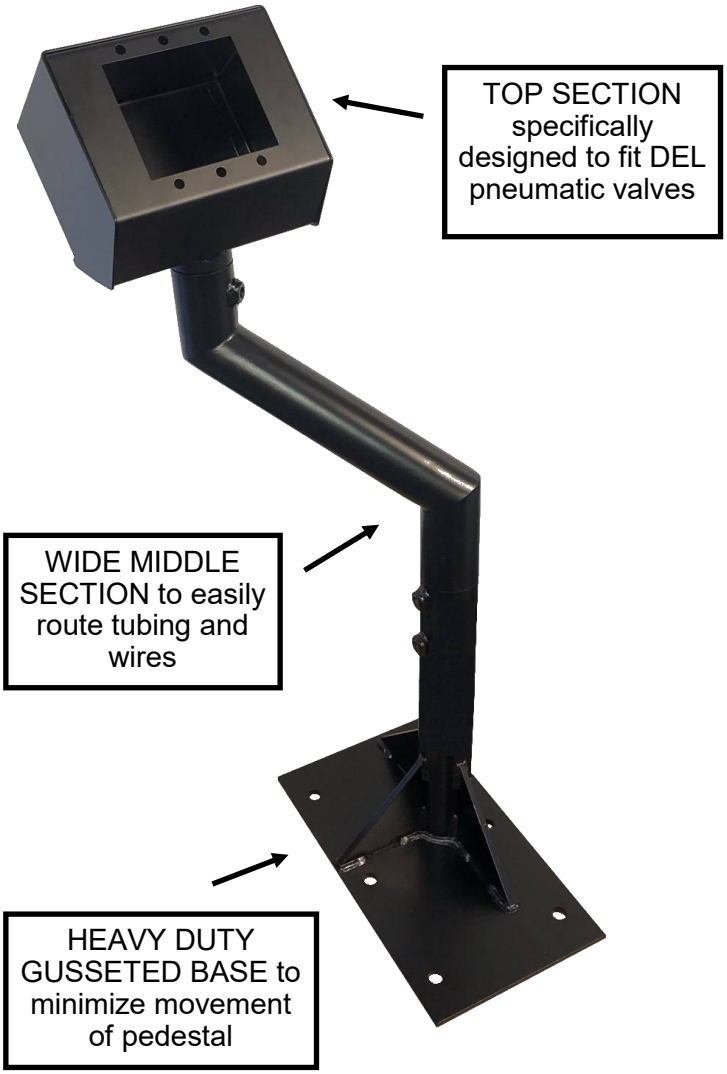
FEATURES: 14 Gauge Powder Coated Heavy Duty Steel
Valve & PTO Light Cutout
Includes: Main Housing, Side Panels, and Top Plate
*See **Page 23** for DEL Red Warning Light*

More Custom Control Kits Available to Fit Your Specific Applications - See *Page 24*

Call us today (716) 853-7996

***Console hardware is a separate line item our sales team will add at the time of order**

CONTROL PEDESTALS



Once the base is installed to the floor, the middle, and top sections can be rotated to either the driver or the passenger side by unlocking the lock knobs then tightening again.

FEATURES:

- Removable top and middle sections for easy access
- Simple installation saves on overall costs
- Accepts round tubing through the base, middle, and top
- Powder coated to blend into the cab

OPTIONS:

- Pedestal tops can fit multiple valves including spacers for a wide range of applications
- Various pedestal base heights available

PEDESTAL TOPS

2 POS. PEDESTAL TOP	**D20-DSNP2T**
3 POS. PEDESTAL TOP	**D20-DSNP3T**
4 POS. PEDESTAL TOP	**D20-DSNP4T**
5 POS. PEDESTAL TOP	**D20-DSNP5T**
6 POS. PEDESTAL TOP	**D20-DSNP6T**
7 POS. PEDESTAL TOP	**D20-DSNP7T**
9 POS. PEDESTAL TOP	**D20-DSNP9T**
11 POS. PEDESTAL TOP	**D20-DSNP11T**
13 POS. PEDESTAL TOP	**D20-DSNP13T**

PEDESTAL MIDDLE

PEDESTAL MIDDLE SECTION	**D20-DSNPM**

PEDESTAL BASES

6” GUSSETED PEDESTAL BASE	**D20-DSNPBG6**
8” GUSSETED PEDESTAL BASE	**D20-DSNPBG8**
12” GUSSETED PEDESTAL BASE	**D20-DSNPBG12**
16” GUSSETED PEDESTAL BASE	**D20-DSNPBG16**

PEDESTAL HARDWARE

PEDESTAL LOCK KNOB	**3035BF**

ACCESSORIES

DEL Hydraulics offers a variety of accessories to complete your pneumatic system. These can be added on at the same time as the air controls or at a later date.

TUBING & FITTING KITS

1/4" TUBING/FITTING KIT - **COLOR:** CLEAR
D17-DAK250FK

1/4" DOT APPROVED TUBING/FITTING KIT
COLOR: BLACK
D17-DAKFLDKITDOT

5/32" TUBING/FITTING KIT
8 COLOR OPTIONS:
BLACK, CLEAR, RED, ORANGE, YELLOW, GREEN, BLUE, AND GRAY
D17-DAK532FK

5/32" Tubing and Fitting Kit
Eight colors available

1/4" Tubing and Fitting Kit
Non-DOT shown

- Each tubing/fitting kit is supplied with 30' of tubing
- All fittings are **1/8" male NPT**
- **D17-DAK250FK** includes:
  - 3x straight 1/4" compression fittings
  - 3x 90° 1/4" compression fittings (non-swivel)
- **D17-DAKFLDKITDOT** has the same style fittings as **D17-DAK250FK** but are **DOT** approved
- **D17-DAK532FK** includes:
  - 3x straight 5/32" PTC fittings
  - 2x 90° 5/32" PTC fittings (swivel)

OILER LUBRICATOR & REGULATOR

FILTER/LUBRICATOR & REGULATOR
D27-F14G11B-RWE

FEATURES:

- Compact all in one filter/lubricator and regulator with 1/8" NPT ports
- Bracket incorporated for simple installation
- Includes air gauge

FLASHING WARNING LIGHT

RED LED WARNING LIGHT - 14V
D22-DAVLLLIGHTS

WARNING BUZZER

3/4" PANEL MOUNTED WARNING BUZZER - 14V
D02-DAVBUZZER

AIR SHUTTLE VALVE

AIR SHUTTLE VALVE
D27-S125

FEATURES:

- Dual inputs with check valves to prevent cross flow between inputs
- Single output - operate a function from two different controls: inside and outside the cab
- 1/8" NPT Female ports

Pre-assembled Control Packages

Pre-assembled Control & Consoles

Our control and console packages are delivered fully assembled for immediate integration.
Installation is as easy as 1, 2, 3!

1. **Mount the console in the truck**
2. **Connect the supplied tubing and wiring**
3. **Check the system for desired functionality**

13” CONSOLE - HOIST, PTO, AND HIGH PRESSURE CONTROL, PRE PLUMBED AND WIRED, WARNING LIGHT AND BUZZER
DVC-1295-HP-13

13” CONSOLE - HOIST AND HIGH PRESSURE CONTROL, PRE PLUMBED AND WIRED, WARNING LIGHT AND BUZZER
DVC-2202-HP-13

13” CONSOLE - HOIST AND TAILGATE CONTROL, PRE PLUMBED AND WIRED, WARNING LIGHT AND BUZZER
DVC-2202-TG-13

Custom Assemblies

Expanding on our pre-assembled control and console offerings, DEL provides made-to-order custom console and control assemblies. Let DEL partner with you to create a control solution that aligns seamlessly with your operational requirements.

Key Benefits:

- Designed precisely for your unique setup
- Enhance brand visibility with specific branding elements
- Seamless integration means fewer adjustments and quicker deployment

Interested? Contact us today to get started!
716-853-7996 - sales@delhydraulics.com

**Minimum order quantity required*

DEL INTERLOCK SYSTEM FOR PTO APPLICATIONS

PREVENTS UNINTENTIONAL USAGE OF YOUR TRUCKS PTO SYSTEM

The risks of leaving a PTO engaged range from PTO burnout to overhead collisions. Tying into the trucks 4-way flasher light circuit, the PTO can only engage when the flashers are running. Our **patented*** interlock system can be retrofitted into existing setups or installed by an OEM / upfitter

Key Features:

- Prevents early PTO failure due to burnout
- Reduce the risk of a costly and potentially fatal bridge strike
- Audible and visual signal to operator via the trucks flasher system
- Easy integration into existing systems
- Quick connect electrical terminals
- 1/4” Compression fittings for easy pneumatic connections

*Patent #11,813,977

DIS FOR AIR SHIFT PTO	**DIS-PTO-A**
DIS FOR ELECTRIC SHIFT PTO	**DIS-PTO-E**

DEL INTERLOCK SYSTEM FOR OTHER APPLICATIONS

DIS WITH LIFTGATE DECAL	**D03-DIS-SP**
DIS WITH NO DECAL	**D03-DIS**

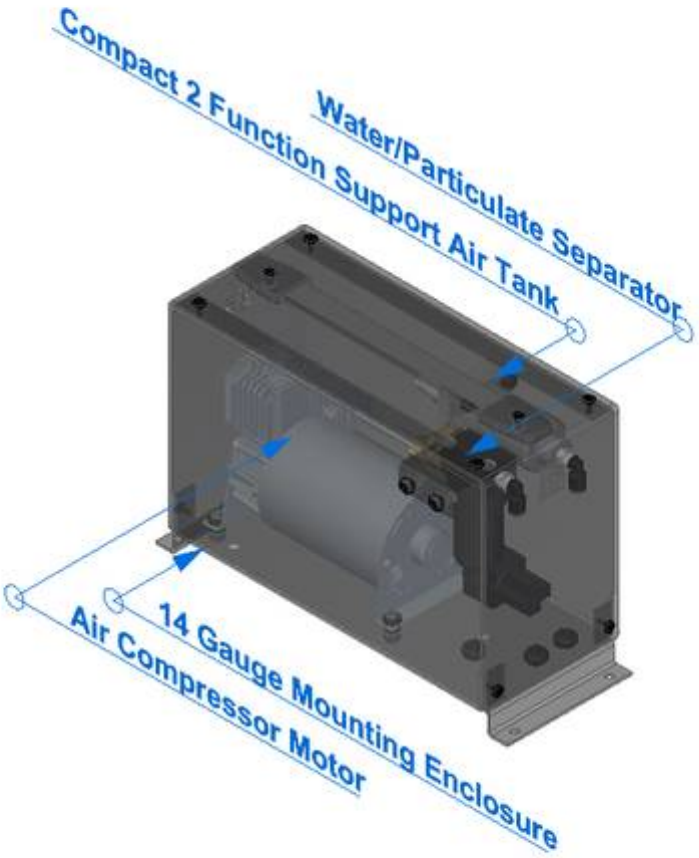
FEATURES:

- Can be used in hydraulic circuits being operated with an exterior switch such as small hoists or tailgate liftgates
- Turning the hazard lights off shuts the application’s electric motor off preventing accidents and warning any bystanders

DEL ACK SYSTEM

Interested in deploying DEL pneumatic controls but the application doesn't have air brakes or an air compressor?

The DEL ACK system offers a way to introduce air to operate our controls in trucks without air.



Kit Includes:

- **Oil-less operated Air Compressor/Motor**
  - **Features:**
    - Heavy duty, permanently lubricated, low upkeep, thermal overload protected motor
    - Vibration isolated mounting feet
    - Remote Air Inlet
  - **Ratings:**
    - Voltage: 12 VDC
    - Max. Amperage: 18 Amps
    - Max Duty Cycle @ 72°F & 100 PSI: 25%
- **Compact and Efficient Air Tank for 2 function support**
- **Water and Particulate Separator with Auto Drain**
- **14 GA Mounting Enclosure:** Black Textured Powder Coated finish
  - **Dimensions: 12" x 4.6" x 7.5" (LxWxH)**
- **Reinforced strap handle for ease of installation and relocation**

Use our ACK system with our *feathering* air controls for a complete package!

NOTES

NOTES

BUILDING *FOR THE* FUTURE

CONTROL SOLUTIONS FOR MOBILE APPLICATIONS

DEL®

DEL Products are proudly assembled in Buffalo, New York with U.S. and Canadian Components

DEL Hydraulics, INC.
TEL: 716-853-7996 EMAIL: sales@delhydraulics.com