



1310 Miller Road  
Greenville, SC 29607

# Barker Products

*Fluid Power Specialist*



Phone: 803-288-7384  
Fax: 803-297-1292

## POWER BEYOND TAP IN KIT SPECIFICATIONS

**THE FOLLOWING SPECIFICATIONS ARE INTENDED TO DESCRIBE EQUIPMENT FOR A SEMIAUTOMATED REFUSE COLLECTION SYSTEM WHICH WILL UTILIZE HEAVY DUTY EIGHTY OR NINETY GALLON RESIDENTIAL CARTS AND HYDRAULIC LIFTING MECHANISMS INSTALLED ON REAR OR SIDE LOADING PACKER BODIES FOR DUMPING THESE CARTS.**

- 1. THE KIT MUST CONTAIN ALL HOSES, HOSE MOUNTING BRACKETS, FITTINGS , DIVERTER VALVE AND HAND VALVES REQUIRED TO INSTALL AND OPERATE THE LIFT UNITS.**
- 5. THE DIVERTER VALVE MUST BE A CARTRIDGE TYPE DESIGN SO THAT ALL COMPONENTS ARE EASILY REPLACEABLE. IF THE KIT IS FOR A SINGLE UNIT INSTALLATION, THE DIVERTER MUST BE CAPABLE OF BEING CONVERTED TO DOUBLE OPERATION WITHOUT REPLACING THE COMPLETE VALVE. THE DOUBLE UNIT DIVERTER VALVE MUST OPERATE EITHER UNIT INDEPENDENTLY OR BOTH LIFTS SIMULTANEOUSLY WITHOUT ANY LOSS OF LIFTING POWER TO EITHER UNIT. THE DIVERTER WILL CONTAIN A SPEED LIMITING DEVICE WHICH WILL REGULATE THE OPERATING TIME OF BOTH UNITS TO BE WITHIN AN EIGHT TO TEN SECOND CYCLE TIME. THE SPEED LIMITING DEVICE MUST NOT BE ABLE TO BE ADJUSTED BY OPERATORS, BUT EASILY CHANGED BY SHOP PERSONNEL**
- 6. THE HAND VALVE WILL BE A THREE-POSITION, POWER BEYOND STYLE, FOUR WAY DIRECTIONAL CONTROL WITH A MINIMUM RATED FLOW CAPACITY OF TWENTY GALLONS PER MINUTE AND A MAXIMUM OPERATING PRESSURE OF 3000 PSI. IF THE OPERATOR RELEASES THE HANDLE AT ANY POINT DURING THE LIFTING CYCLE, THE VALVE MUST RETURN TO THE CENTER POSITION AND HOLD THE LIFT UNIT AT THAT POINT.**
- 7. THE KIT MUST CONTAIN A TANK LINE ADAPTER SO THAT THE TANK LINE OF THE HAND VALVE RETURNS DIRECTLY TO TANK. THIS PREVENTS HAND VALVE SPOOL LEAKAGE BECAUSE THE SPOOL SEALS NEVER SEE TRUCK OPERATING PRESSURE.**
- 5. THE HYDRAULIC HOSES MUST BE OF 2-WIRE BRAID CONSTRUCTION AND MAXIMUM OPERATING PRESSURE OF 3000 PSI. HOSES MUST MEET OR EXCEED ALL REQUIREMENTS OF SAE 100R2 SPECIFICATIONS.**
- 6. THE LIFT SYSTEM WILL NOT STEAL ANY HYDRAULIC FLUID FROM THE TRUCK SYSTEM DURING OPERATION OF THE PACKER CYCLE.**



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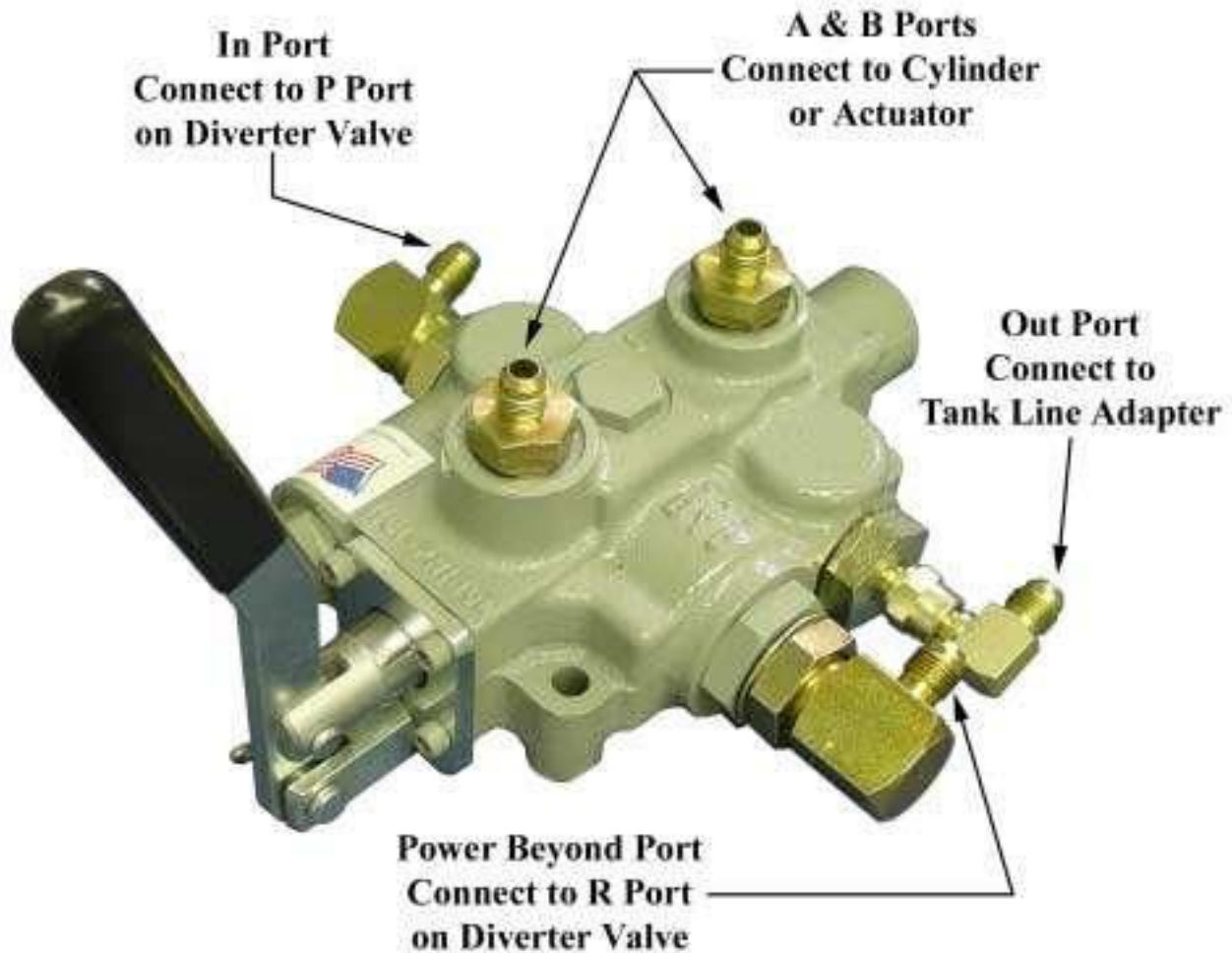
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*Lift Unit Specialist*



Phone: 864-288-7384  
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## *Power Beyond Hand Valve Installation*





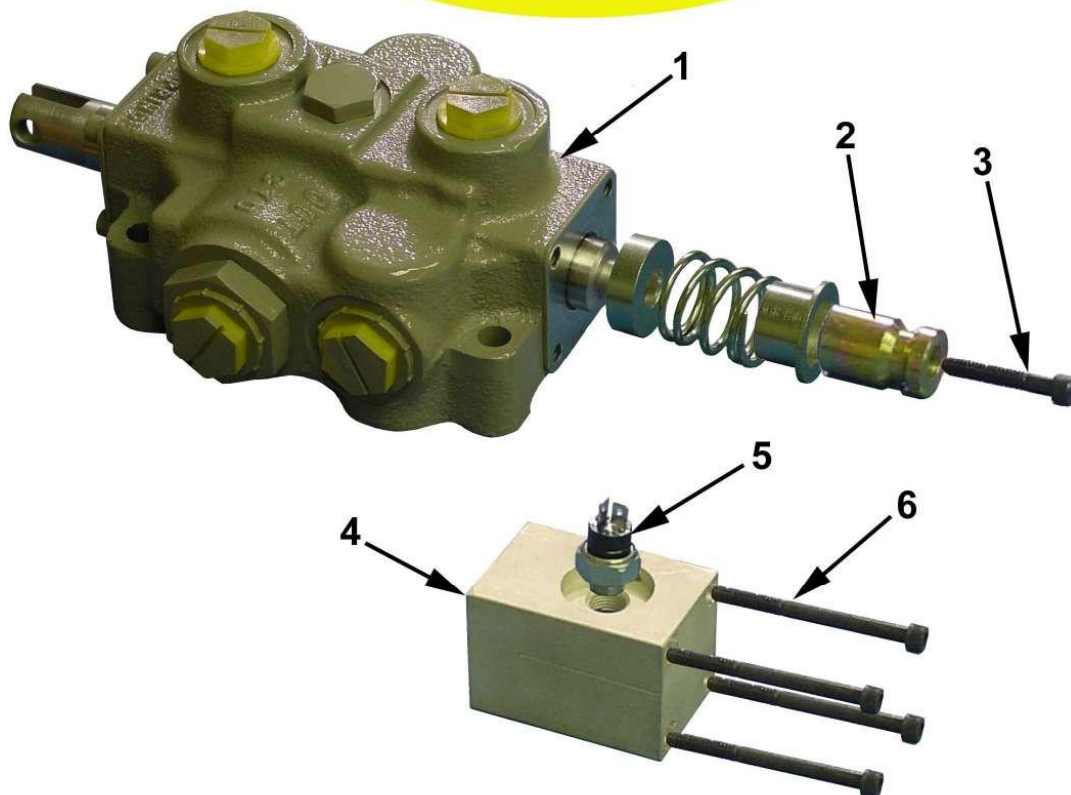
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## Power Beyond Hand Valve Electric Switch

Item	Part #	Quan	Description
1	BV10000	1	Power Beyond Hand Valve
2	BV01690	1	Piston
3	XAB042012	1	1/4-20 X 1 1/2 Socket Head Cap Screw
4	BV01685	1	Switch Cap
5	BV01700	1	Hand Valve Electric Switch
6	XAB042024	4	1/4-20 X 3 Socket Head Cap Screw





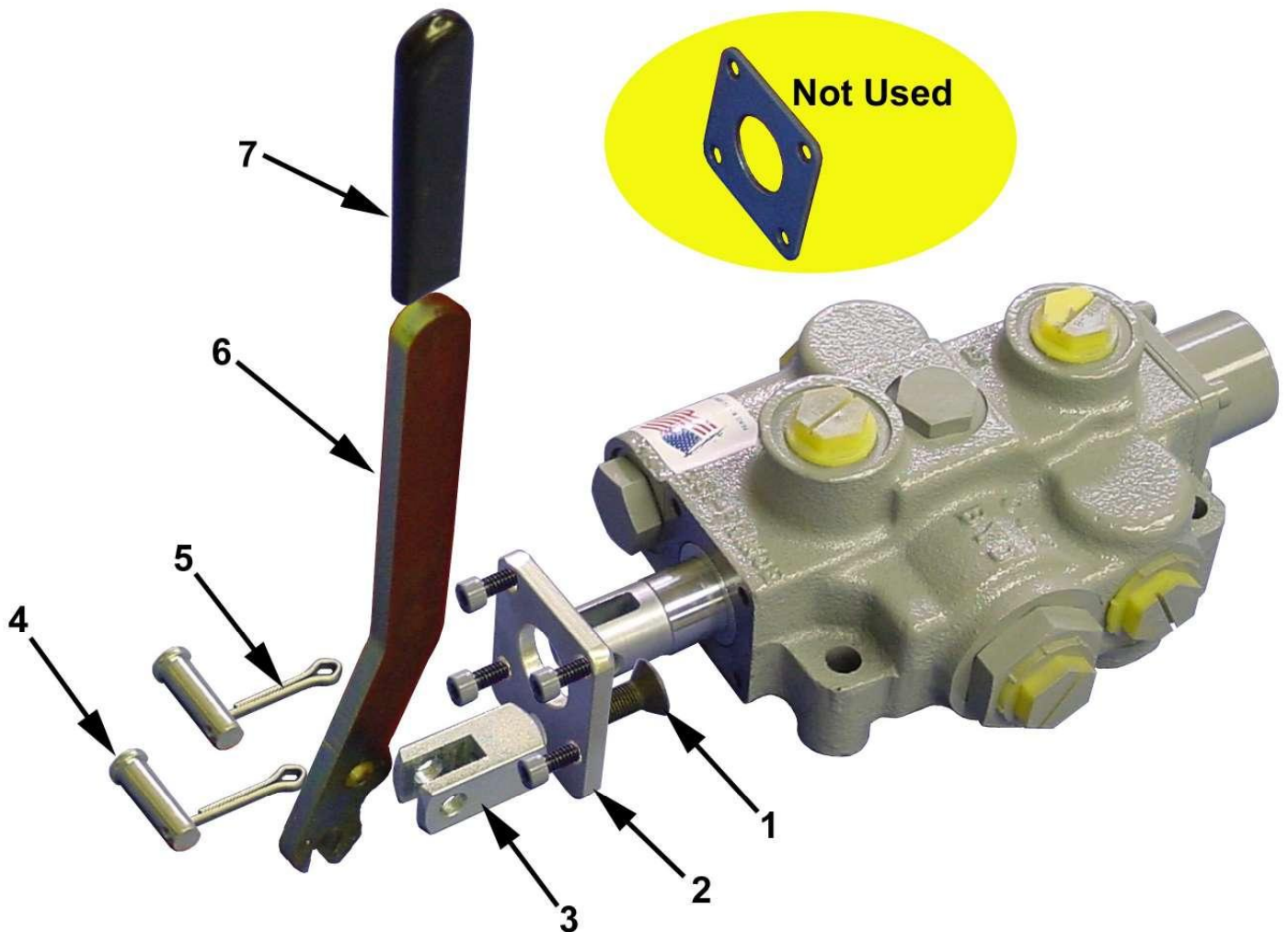
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## Standard Handle Kit BV10500

Item	Part #	Quan	Description
1	XAD062408	1	3/8-24 X 1 Flat Head Socket Screw
2	BV10510	1	Handle Base
3	BV10530	1	Handle Clevis
4	BV10531	2	Clevis Pin
5	BW02120	2	Cotter Pin
6	BV10520	1	Handle
7	BW02790	1	Handle Grip





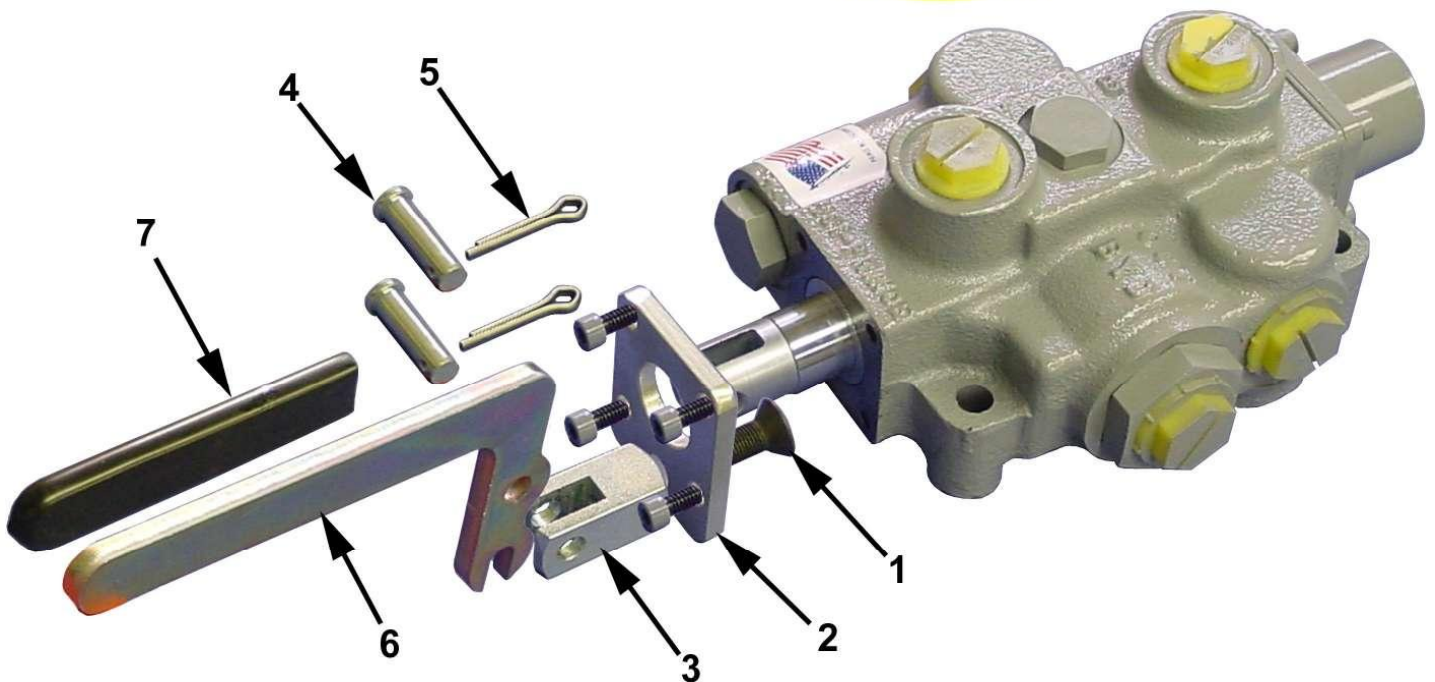
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## Horizontal Handle Kit BV10505

Item	Part #	Quan	Description
1	XAD062408	1	3/8-24 X 1 Flat Head Socket Screw
2	BV10510	1	Handle Base
3	BV10530	1	Handle Clevis
4	BV10531	2	Clevis Pin
5	BW02120	2	Cotter Pin
6	BV10525	1	Handle
7	BW02790	1	Handle Grip



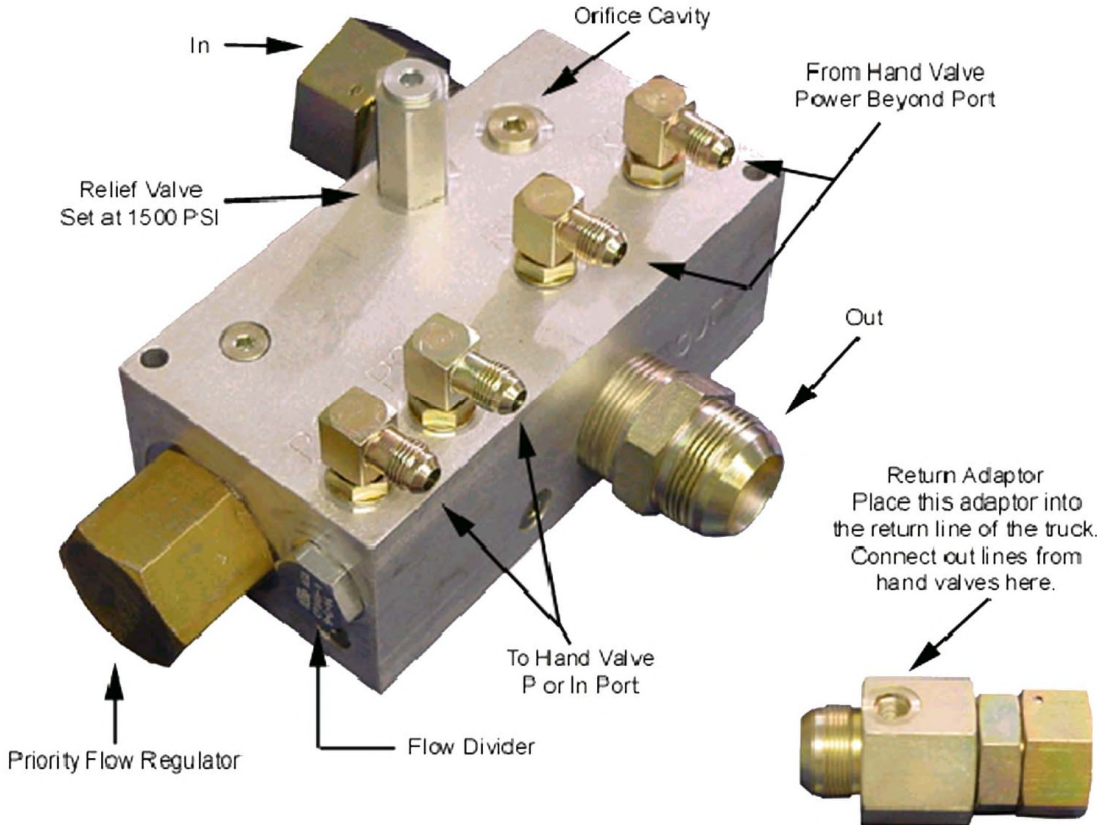


**BP LIFTS**  
BY BARKER PRODUCTS  
1310 Miller Road, Greenville, SC 29607  
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## *Installation Power Beyond System High Flow Double Diverter Valve*

- **Install Diverter Valve in the truck pressure line between the hydraulic pump and the stack valve at the rear of the truck. The IN port of the diverter is connected to the pump and the OUT port is connected to the stack valve.**
- **Connect the Ports Marked P on the Diverter Valve to the Ports Marked P or IN on the hand valve.**
- **Connect the Ports Marked R on the Diverter Valve to the Ports Marked Power Beyond on the hand valves.**
- **The hand valves must be Power Beyond Style.**
- **The IN and OUT fittings may need to be reversed for your application.**
- **The operating speed of the lifts may be changed by changing the orifice size.**
- **CAUTION: Operating lifts faster than 6 seconds total cycle will void your lifter and cart warranty.**





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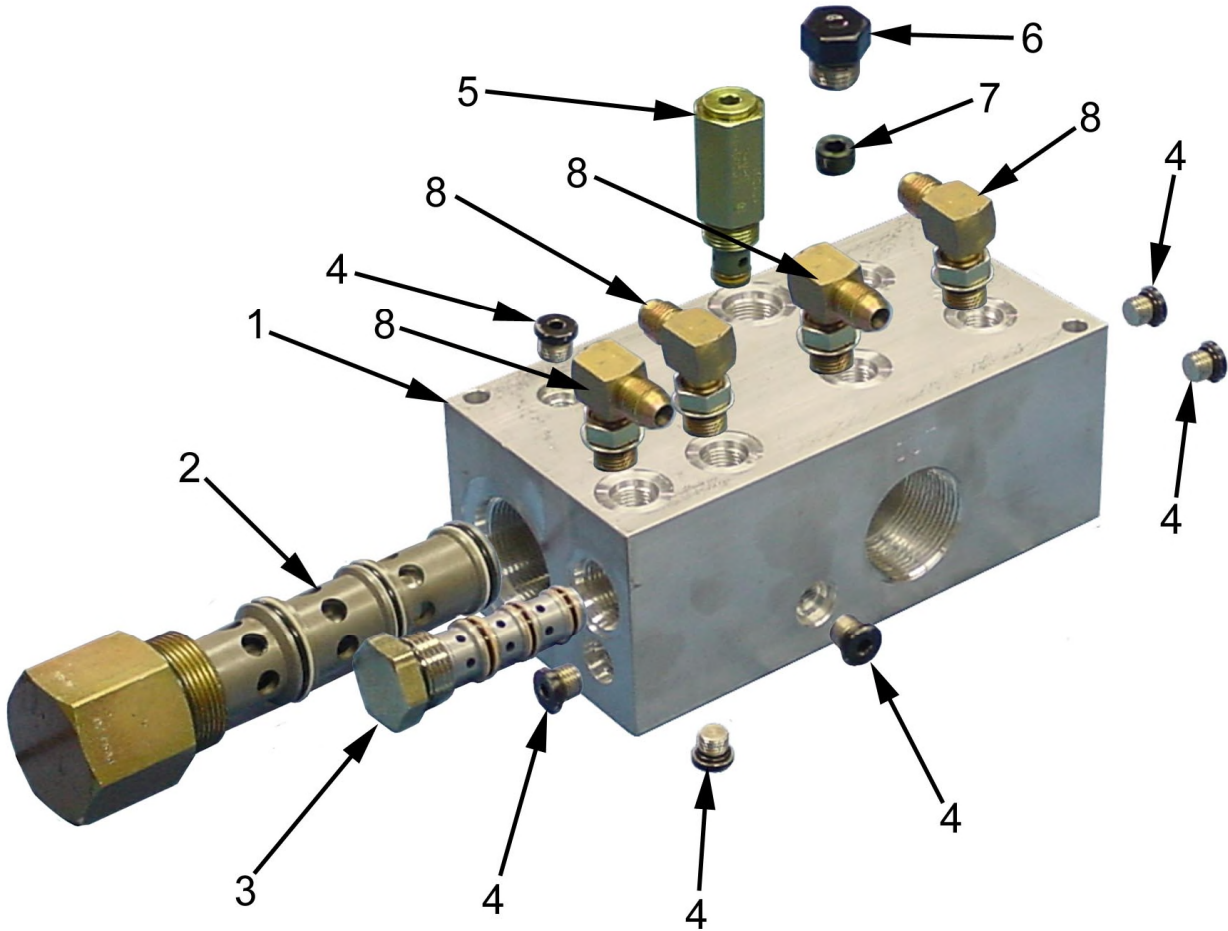
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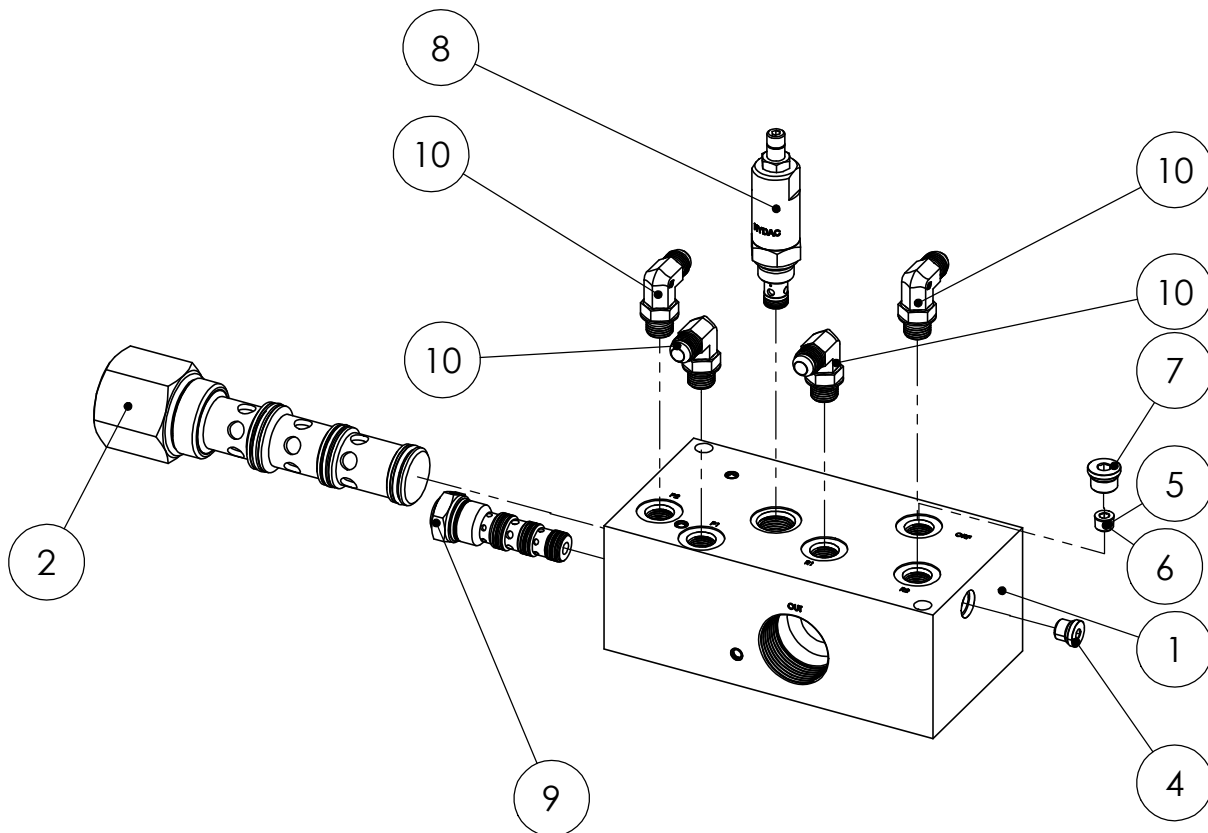
## Double Diverter Valve Parts

Sold prior to 6/20/2013—Serial Number 22089

Item	Part #	Quan	Description
	BV03355		Complete Valve
1	BV04075	1	Diverter Valve Body
2	BV00640	1	Flow Regulator Spool
3	BV00600	1	Flow Divider Spool
4	BR04550	6	#4 O-Ring Plug
5	BV00530	1	Relief valve
6	BR04570	1	#6 O-Ring Plug
7		1	Orifice Plug
8	BR05210	4	6 X 6 Adapter - 90 Degree



ITEM NO.	PART #	DESCRIPTION	QTY.
1	BV04020	DIVERTER VALVE BODY	1
2	BV00640	FLOW REGULATOR SPOOL (20)	1
4	BR04550	6408-H04 O-RING PLUG	1
5	BV00030	0.135 X 1/8 PLUG FOR 15K ACTUATOR & 612 CYLINDER	
6	BV00032	0.166 X 1/8 PLUG FOR 27K ACTUATOR	
7	BR04570	6408-H06 O-RING PLUG	1
8	BV00520	RELIEF VALVE DB08A	1
9	BV00655	FLOW DIVIDER SPOOL (10)	1
10	BR05210	6801-06-06 90 DEG ADAPTER	4



DO NOT SCALE DRAWING		DOUBLE DIVERTER VALVE BLANK	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm 0.010$ THREE PLACE DECIMAL $\pm 0.005$		DRAWING NO BV03360	REV 00
DRAWN BY: R WYMAN	DATE: 5/3/2021	SCALE: 1:4	WEIGHT: 11.870 # SHEET 1 OF 1
MATERIAL: NOTED			

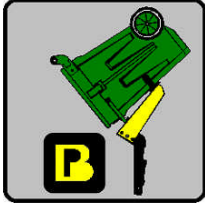


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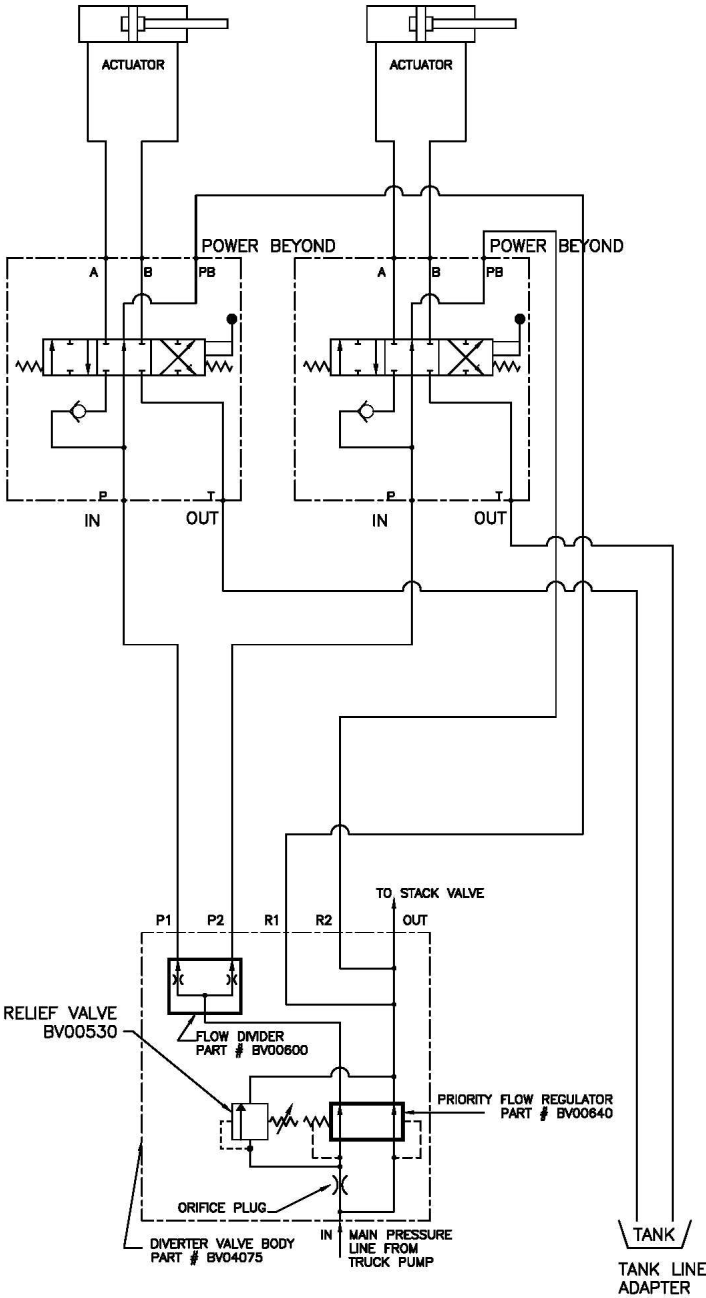




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# Hydraulic Schematic Power Beyond Double Tap In Kit



DOUBLE POWER BEYOND TAP IN KIT