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www.BRAND-HYD.COM



## LA DIRECTIONAL CONTROL VALVES INSTALLATION & USER GUIDE

### SAFETY PRECAUTIONS:

- It is the purchaser's responsibility to determine the suitability of any Brand Hydraulics Co. product for an intended application, and to ensure that it is installed in accordance with all federal, state, local, private safety and health regulations, codes and standards. Due to the unlimited variety of machines, vehicles and equipment on which our products can be used, it is impossible for Brand Hydraulics Co. to offer expert advice on the suitability of a product for a specific application. It is our customer's responsibility to undertake the appropriate precautions, testing and evaluation to prevent injury to the end-user.
- Overpressure may cause sudden and unexpected failure of a component in the hydraulic system, resulting in serious personal injury or death. Always use a gauge when adjusting a relief valve.

### SPECIFICATIONS:

- Flow Ratings:
  - 18 gpm (38 lpm)
- Rated up to 3000 psi (207 bar).
- Port Sizes:
  - Inlet/Outlet - #12SAE (1-1/16-12).
  - Work Ports - #10SAE (7/8-14).
- 25 Micron Filtration Recommended.
- Weight - 14 lbs (6.4 kg)

### MOUNTING, ADJUSTMENT & ASSEMBLY INSTRUCTIONS:

**Mounting** – Valve can be mounted in any orientation. Valve must be mounted on a flat surface. Special attention should be paid to not bend or twist the casting when mounting. Doing so may cause the valve to fail.

**Relief Adjustment** – Relief setting is factory preset to 2300 psi, unless otherwise noted within model code. Relief valve can be set anywhere within the range of 2300 psi to 3000 psi by switching out the relief spring to one of the following:

- **2300 - 2500 psi** – Use spring P/N: P1270 (Yellow, standard)
- **2400 – 3000 psi** – Use spring P/N: P1279 (White)

**To adjust relief pressure:** Loosen hex lock nut using a 1" wrench. This gives you access to the relief set screw. Turning the relief adjustment screw with a 5/16" allen clockwise will increase relief pressure.

**Handle Assembly** – Regardless of handle style, the handle retainer comes preinstalled on valve.

**L-Style Handle:** The mounting point of handle retainer is **above** the spool.

**J-Style Handle:** The mounting point of handle retainer is **below** the spool.

**To install handle(s):**

1. Align the 2 handle linkage brackets so they taper toward each other. When pressed together they will resemble a "Y".
2. Using the longest clevis pin, mount the linkage brackets at their widest point to the outside of the handle retainer. Secure the linkages with one of the hitch pins.
3. Using the shortest clevis pin, mount the handle between the linkages using the hole closest to the edge of the handle. Secure the handle with one of the remaining hitch pins.
4. Using the remaining clevis pin & hitch pin, secure the handle to spool using the slot in the spool.
5. Repeat 1-4 for 2nd spool.



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## FREQUENTLY ASKED QUESTIONS:

### **Q: Can I paint the valve?**

**A:** Painting valves is acceptable as long as the following precautions are taken:

- 1- All ports must be plugged
- 2- Spool must be masked or taped off completely.

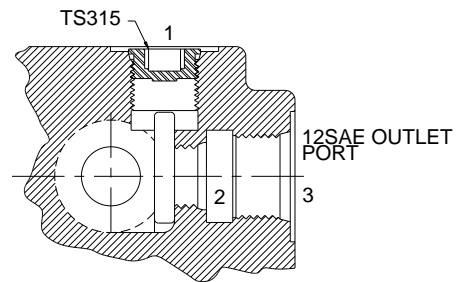
Any paint on the spool will cause leakage when it chips off. Warranty is void if any valve is returned with paint on the spool

Please note you can order a valve already painted from factoring by adding a P to beginning of model number.

### **Q: Can I plumb another valve downstream from this valve, using the outlet of this valve?**

**A:** You cannot plumb direct to another valve, unless your valve is equipped with power beyond or has been converted to use power beyond. A valve can be ordered with power beyond already set up by adding a W to the end of the model code.

- **Converting valve to “Power Beyond”** – To convert the valve to power beyond operation, take the TS315 plug from the top port (1), remove o-ring and insert TS315 plug into the internal port (2). Next, plumb a #10 SAE fitting from the top port (1) to the adjoining valve. Lastly, run a line from the #12 SAE outlet port (3) to the reservoir. (See illustration right )



### **Q: Can I convert my valve to operate in a “Closed” system?**

**A:** Yes. To have the casting in closed center operation, both the top port (1) and internal port (2) must be plugged. Take the TS315 plug from the top port (1), remove o-ring and insert TS315 plug into the internal port (2). Then plug the top port (1) with any std. SAE plug (7/8 – 14) or purchase a plug from the factory. Closed center blocks “Pump” only, the condition of ports A and B depend on the spool type. (See illustration above right)

### **Q: What kits are available for this valve?**

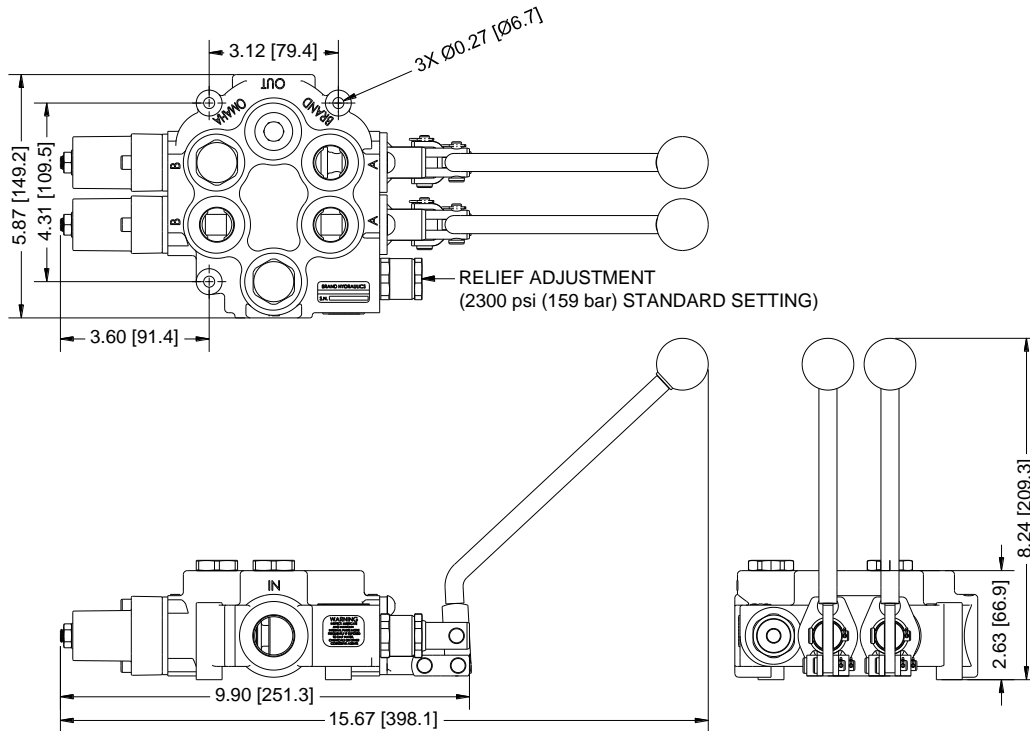
**A:** There is a replacement seal kit (Part #: TS-K), and replacement relief kit (Part #: 34R15) for this valve. There are also a number of different kits available for this valve depending on the spool action, and handle option the valve is equipped with. Please contact factory for specific kit numbers relating to different spool actions, and handle options.



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**DIMENSIONAL DATA:**



**AUTO-CYCLE HYDRAULIC CIRCUIT:**

