Control Valves ^{a Baker Hughes business} Safe Handling Instructions



WARNING:

- Take necessary precautions to ensure safety of all personnel during installation.
- Control valve assembly units are very heavy
- The valve body carries most of the weight of the assembly & must be supported always during lifting or maneuvering
- Ensure that handling equipment is rated for the load to be lifted

Disclaimer: The information and instructions herein should be used as a guide only and should not be relied upon. Not all control valve assembly units have the same size, weight, configuration, or parts. The actual lifting of a control valve assembly unit may differ from what is shown. No warranty, expressed or implied, is made with respect to the information contained herein. Baker Hughes is not responsible for any loss, inconvenience, or damage arising out of the use of the information contained herein is stamped on the face side of the tag. The shipping date and seven-character part number are stamped on the bottom side of the tag. The letter after the seven-digit part number identify the pilot revision series.

Recommended Types of Lifting and Handling Equipment

- Lift equipment
- Ratchet puller
- · Chains for lifting
- Dimensional lumber
- Nylon straps for lifting
- · Shackles for lifting
- · Lever chain hoists for lifting
- Other lifting/handling equipment as specified by qualified rigging specialist



Suggested Lifting Practices

- Before lifting, remove tubing and/or instrumentation that may interfere with lifting chain or straps to prevent damaging the units instrumentation.
- Before lifting, remove any plugs from the valve body that may be damaged
- The valve body carries most of the weight of the assembly. Valve weight must be supported at all times during lifting or maneuvering.
- Do not use the actuator to support the weight of the assembly.
- Do not use the cylinder actuator to support the weight of the assembly.
- Do use the lifting lugs on the valve body to lift & handle the valve assembly.
- For smaller valves, or valves without lift lugs, straps may be required to be used around valve flanges to lift as detailed below with qualified rigging specialist discretion.
- A small amount of refresh valves may not have lift lugs as depicted within and will require lifting similar to legacy units (i.e.: two lift lugs 90° from valve stem).
- Wrap chain or sling below the cylinder bottom to stabilize and/or balance the assembly.
- Note: if any lift lugs attached to closure studs are removed or moved, torquing of closure studs to manufacture torque specifications is required.
- · See following page for reference model.

Becker Control Valves - Safe Handling Guidelines



Becker Actuator: showing lift lugs on top of valve. (Valves 6" to 42")

Support strap or chain under flange Protect strap/chain from edge. Do not lift around pneumatic cylinder !!

Support Straps

- Basket or choker dependent on flange to closure stud clearance and with qualified rigging specialist discretion.
- Timber or bottle style jacks under valve flanges may be utilized during installation and bolting valve to pipeline.
- One or multiple lift straps below pneumatic cylinder must be utilized to balance load appropriately along with lever chain hoists.



Valve/Actuator Assembly

Support strap or chain under flange Protect strap/chain from edge. **Do not lift around pneumatic cylinder !!**



Becker Control Valves - Safe Handling Guidelines Actuator Only



Typical lifting equipment for Becker Retrofit Actuator for attaching actuator to housing (for reference only).



Becker Actuator: Representation of above ground installation

