



Diamond Slimline Ball Valve

INSTALLATION AND OPERATING INSTRUCTIONS IMPORTANT - PLEASE READ CAREFULLY BEFORE INSTALLING YOUR VALVE

INSTALLATION

A process system can generally be associated with many varying conditions such as water hammer, pressure shock, vibration and thermal expansion due to temperature change. Stress and strain within the pipeline will result and unless such conditions are allowed for at the system design and installation stages, the valve and pipe assembly may be damaged. When installing the Ball Valve into a pipe assembly system, careful consideration must be made to ensure good alignment and adequate support for the weight of the valve and pipe assembly by means of framework and pipe clip fasteners. For future maintenance, always make allowance for pipe movement within the pipe assembly (by releasing clips etc) to allow access to the valve seals / coupling seals.

VALVES WITH COUPLING FITTINGS

If the valve is fitted with end connections the valve does not require dismantling prior to installation.

VALVES WITH PLAIN ENDS FOR BUTT WELDING

If welding the valve directly into the pipeline, the valve should be fully dismantled and all seal components removed from the valve halves (see page 2). This will prevent heat damage to the valve seals and other internal components. The alignment and squareness of the butt weld joints is important to ensure correct operation and leak tightness of the valve. Gas backed TIG welding is recommended, a minimum weld bead should be produced to reduce the risk of heat distortion within the valve flanges.

VALVE SPARES KITS

The user should establish a valve maintenance programme dependant upon the product and frequency of use. Spares kits (part numbers below) with full maintenance instructions are available from DPL.

Valve Size:	Spares Kit Part No. (With Cavity Fillers)	Spares Kit Part No. (Without Cavity Fillers)
1.0"	KSLH10	KSLS10
1.5"	KSLH15	KSLS15
2.0"	KSLH20	KSLS20
2.5"	KSLH25	KSLS25
3.0"	KSLH30	KSLS30

PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU

Article 4, paragraph 3 - Sound Engineering Practise (SEP) applies to this product for non-group 1 use and at pressures not exceeding 10 bar.



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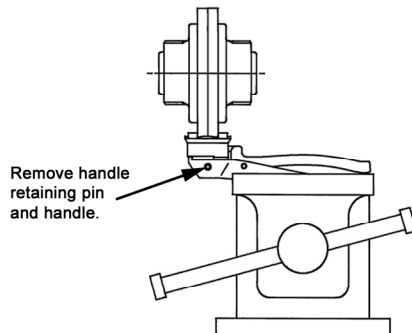
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WELD IN PLACE PROCEDURE

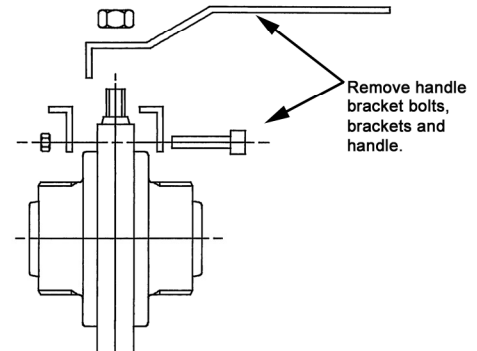
1. Secure the valve in a soft jaw vice and remove the handle or actuator as depicted below.
2. Loosen the valve flange bolts, a little at a time each, and remove.
3. Carefully remove the valve from the vice, taking care to hold the valve halves together, thus preventing the valve internals from dropping from the valve.
4. Place the valve on the bench, separate the valve flanges, and carefully remove the seals and all valve internals
5. Re-assemble the two valve halves, replacing the body bolts finger tight only.
6. Prepare your tube / valve ends ready for welding using your welding procedure accordingly.
7. **IMPORTANT:** There must be movement in your pipework to enable re-assembly of the valve internals once the valve halves have been welded in place. This should be measured prior to welding to ensure that enough space is available to be able to re-fit the ball and all other components in situ accordingly.
8. Tack the valve ends to your pipe, ensuring correct alignment, then weld fully. Leave to cool.
9. Once fully cooled, remove the body bolts once more and replace the valve internals. PTFE seals are easily damaged, take care when re-fitting. A small amount of food grade / process compatible grease may be used to aid assembly.
10. On tightneing the body bolts, ensure even tightening by turning the bolts a little at a time, working in a diagonal rotation until all bolts are fully tight. Open and close the valve by hand to ensure correct operation of the valve.
11. Re-fit the valve handle or actuator. If an actuator is fitted, this should be tested prior to use. Keeping fingers clear of moving parts, open and close the valve several times to ensure correct operation / correct open & closed orientation. Pressure test prior to use where ever possible.

REMOVE HANDLE WHERE FITTED:

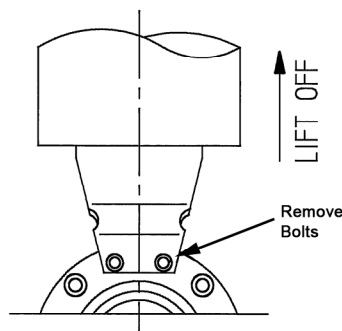
1.0" to 2.0" Valves:



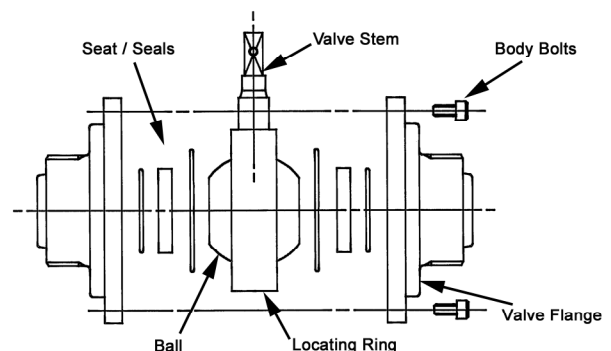
2.5" & 3.0" Valves:



REMOVE ACTUATOR WHERE FITTED:



VALVE ASSEMBLY:



VALVE SPARES KITS with full maintenance instructions are available from DPL please contact us using the information provided below.



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