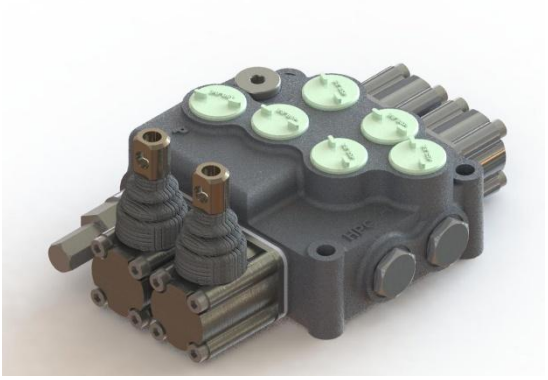
Mono-block or Sectional valve ?

Mono-block Directional control valves are compact with lower weight as compared to a equivalent sectional valve. The price to performance ratio is higher compared to sectional valve. The opportunity for leakage that can happen between sections in a sectional valve does not exist in mono-block. Also, there are less serviceable parts in a mono-block valve.

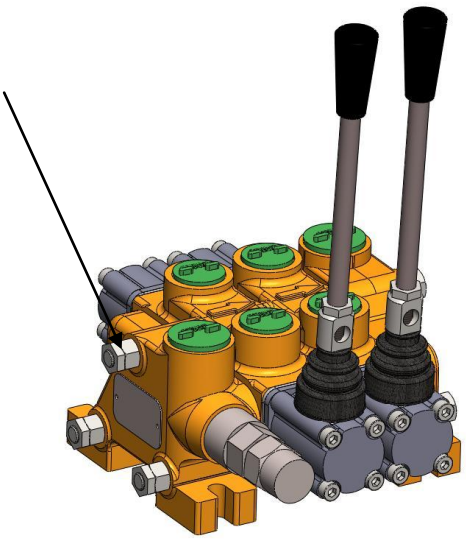
If the mono-block valve malfunctions and needs spool replacement, the entire valve will be under breakdown. In a sectional valve, a complete assembled section can be used to replace a defective section. The mono-block valve generally has a common relief valve for all the spools, vis-a-is individual check valve for each spool in a sectional valve. This is a beneficial feature in section valve.

In a sectional valve the sections are held together by tie rods and the nuts for these tie rods are to be torqued adequately. However, during servicing, if excessive torquing or unequal torquing is done for tie rod nuts, the spool can get jammed. Such a problem does not occur in mono-block valve.

Hence, a mono-block valve is more robust in construction, but expensive to service.



A 45 LPM Monoblock DC valve



A 45 LPM Sectional DC valve