



Fox Prints

1 PC vs. 2 Pc. Pistons

This information is provided to aid in part selection & communication; this does not replace equipment manufacturer's instructions. Always read, understand and follow manufacturer's instructions for disassembly, repair, reassembly & operation. We do not provide instructions with our seal kits; you must obtain service information from the equipment manufacturer.

The difference between 1 piece & 2 piece piston styles is literally that the piston is either made out of 2 pieces of steel, iron or aluminum, or it is made of 1 piece.

Generally 1 piece pistons have this type of 2 piece seal or similar; a stiff outer ring with a rubber energizing ring in a deep central groove, sometimes with backing rings also (4 piece seal)

1 Piece Piston

Wear Bands made of glass filled nylon or fabric reinforced nylon, load bearing.

2 Piece Piston

1/2 piston

Center adapter ring, Iron or Glass filled nylon, used on bi-directional Vee packings, doubles as a load bearing

Vee packings, on bi-directional pistons (cylinder sees loads in both push & pull) the vee sets are facing opposite directions on either side of the center adapter. On single direction pistons (such as a loader lift) there is no center adapter & only 1 vee set.

1/2 piston

This is just a typical example & your cylinder construction may vary greatly, however the terminology is generally applicable to a wide variety of designs. Please note that when we refer to the piston we are referring to the part of the cylinder called the piston, not the entire hydraulic cylinder.