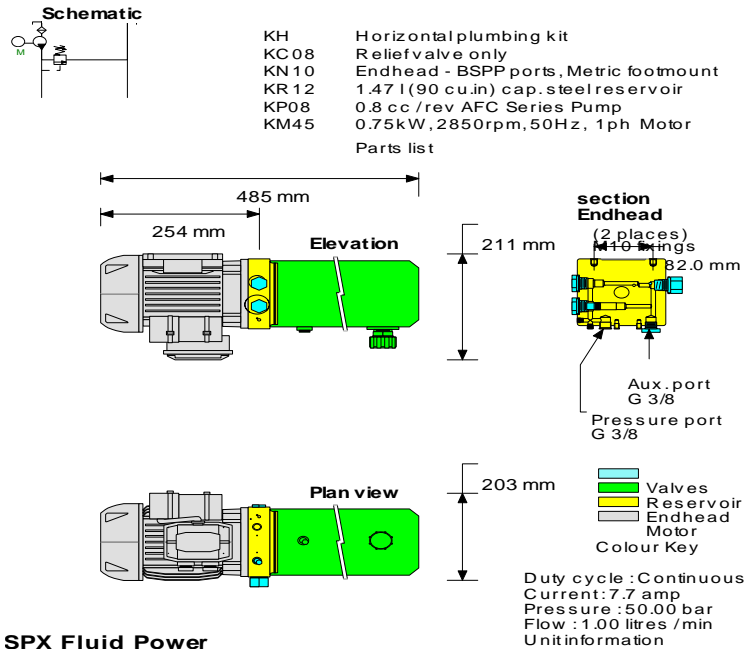


Application: Press molding machine

Product Group: PT Hydraulics and cylinders

Produced by: -



SPX Fluid Power

Summary:

A customer approached us with a problem with his plastic molding machines. The power unit and cylinders provided by a competitor for the molding machines were not performing to expectations. The customer said that the cylinders will still close the mould plates but then will not push hard enough to set the mould. Moreover, there was a lot of resin deposited on the rails which the moulds sit on due to the fact that the mould does not push hard enough on the other mould plate. Thus, resin is escaping through gaps and falling on the rails.

Solution:

Upon close inspection, it was found that the power unit provided by a competitor was very old and dirty. The filter breather was missing and the customer said that their only method of filtration was changing the oil every now and then by openly pouring the oil straight into the tank with a funnel found on the shop floor. It was also found that due to the ingress of dirt and dust, it causes the system pump to cavitate. This generates a lot of noise and makes the cylinders jerky while not producing the power needed.

Custom Fluidpower supplied a brand new PT hydraulics power unit that runs at a higher pressure and re-serviced the cylinder. The system now runs smoother and is performing up to the customer's specifications. With the higher working pressure, the cylinder can now push the mould harder and this it scrapes off any fallen resin off the rails thus maintaining a smooth rail.