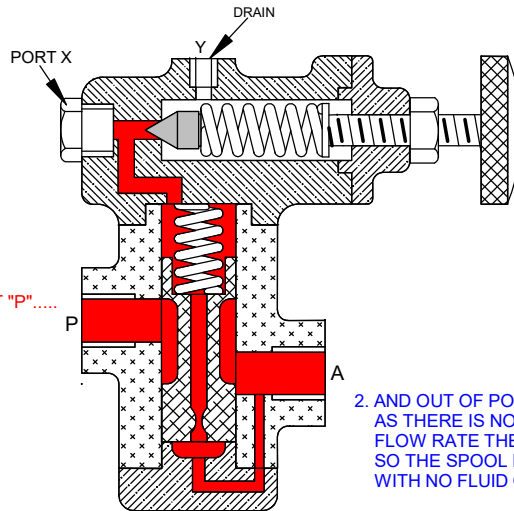
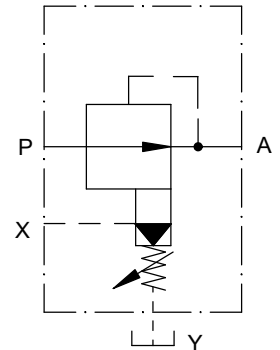


PRESSURE REDUCING VALVE- PILOT OPERATED

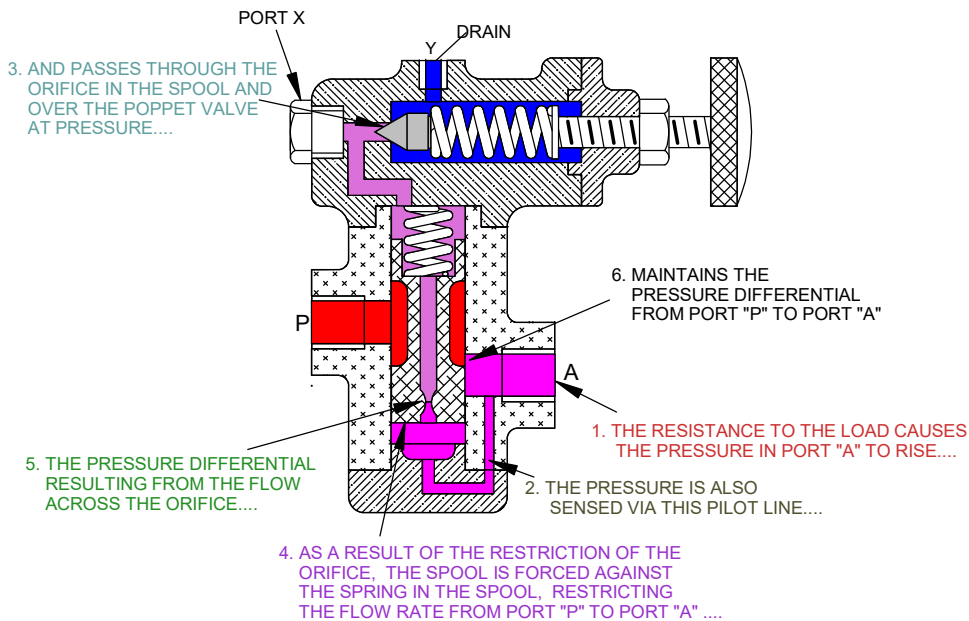


1. HYDRAULIC FLUID IS PASSING FROM PORT "P".....

2. AND OUT OF PORT "A" TO THE ACTUATOR, AS THERE IS NO RESISTANCE TO THE FLOW RATE THERE IS ALSO NO PRESSURE, SO THE SPOOL REMAINS FULLY OPEN AND WITH NO FLUID OUT OF THE DRAIN PORT.



NOTE:
PORT 'X' MAY BE USED FOR A REMOTE PRESSURE CONTROL.



3. AND PASSES THROUGH THE ORIFICE IN THE SPOOL AND OVER THE POPPET VALVE AT PRESSURE....

6. MAINTAINS THE PRESSURE DIFFERENTIAL FROM PORT "P" TO PORT "A"

5. THE PRESSURE DIFFERENTIAL RESULTING FROM THE FLOW ACROSS THE ORIFICE....

1. THE RESISTANCE TO THE LOAD CAUSES THE PRESSURE IN PORT "A" TO RISE....

2. THE PRESSURE IS ALSO SENSED VIA THIS PILOT LINE....

4. AS A RESULT OF THE RESTRICTION OF THE ORIFICE, THE SPOOL IS FORCED AGAINST THE SPRING IN THE SPOOL, RESTRICTING THE FLOW RATE FROM PORT "P" TO PORT "A"

A PRESSURE REDUCING VALVE MAINTAINS A PREDETERMINED MAXIMUM PRESSURE IN THE SECONDARY CIRCUIT