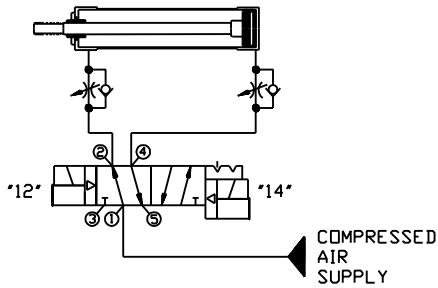
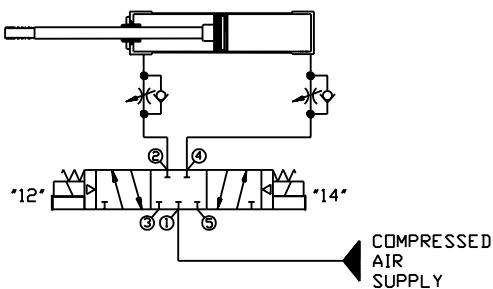


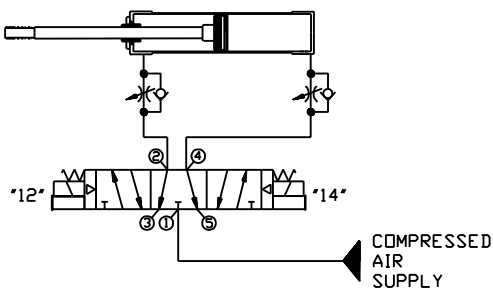
EXAMPLE MODEL NUMBER: 123BA4Z2MN00061  
 DESCRIPTION: 2-POSITION, SINGLE SOLENOID PILOT, SPRING RETURN, 4-WAY VALVE  
 FUNCTION: CYLINDER EXTENDS WHEN POWER IS APPLIED TO THE "14" SOLENOID AND RETRACTS WHEN POWER IS REMOVED. THIS IS THE VALVE OF CHOICE WHEN THE "SAFE" CONDITION IS THE FULLY RETRACTED POSITION.  
 UP-SIDE: 1-MECHANICALLY ASSURES THAT THE CYLINDER WILL BE IN A "KNOWN" POSITION AFTER POWER IS REMOVED FROM THE SOLENOID.  
 2-LEAST COMPLEX CONTROL CIRCUIT  
 3-LEAST EXPENSIVE DIRECTIONAL CONTROL VALVE.  
 DOWN-SIDE:



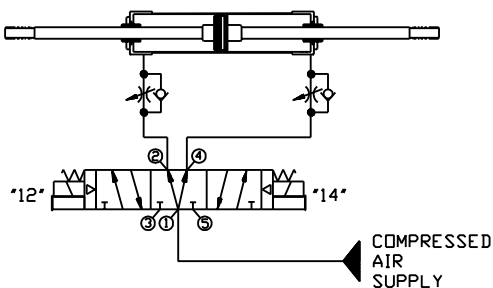
EXAMPLE MODEL NUMBER: 123BB4Z2MN00061  
 DESCRIPTION: 2-POSITION, DOUBLE SOLENOID PILOT, DETENTED, 4-WAY VALVE  
 FUNCTION: CYLINDER EXTENDS WHEN POWER IS APPLIED TO THE "14" SOLENOID AND RETRACTS WHEN POWER IS APPLIED TO THE "12" SOLENOID. THIS IS THE VALVE OF CHOICE WHEN THE SAFE CYLINDER POSITION IS THE "LAST SIGNALLED" CONDITION.  
 UP-SIDE: 1-MECHANICALLY ASSURES THAT THE CYLINDER WILL REMAIN IN ITS "LAST SIGNALLED" POSITION WHEN POWER IS REMOVED FROM BOTH SOLENOIDS.  
 DOWN-SIDE:



EXAMPLE MODEL NUMBER: 123BB6Z2MN00061  
 DESCRIPTION: 3-POSITION, DOUBLE SOLENOID PILOT, CLOSED CENTER, SPRING CENTERED, 4-WAY VALVE  
 FUNCTION: CYLINDER EXTENDS AND RETRACTS WHEN POWER IS APPLIED TO THE "14" AND "12" SOLENOIDS RESPECTIVELY. WHEN POWER IS REMOVED FROM BOTH SOLENOIDS THE CYLINDER STOPS.  
 UP-SIDE: 1-SIMPLEST "E-STOP" CIRCUIT  
 DOWN-SIDE: 1-CYLINDER WILL DRIFT OVER TIME WHETHER MOUNTED VERTICALLY OR HORIZONTALLY  
 2-AIR LEAKAGE OVER TIME WILL MAKE THE FLOW CONTROL VALVES INEFFECTIVE CAUSING A VIOLENT STROKE SURGE ON START UP.



EXAMPLE MODEL NUMBER: 123BB5Z2MN00061  
 DESCRIPTION: 3-POSITION, DOUBLE SOLENOID PILOT, OPEN CENTERED, SPRING CENTERED, 4-WAY VALVE  
 FUNCTION: CYLINDER EXTENDS AND RETRACTS WHEN POWER IS APPLIED TO THE "14" AND "12" SOLENOIDS RESPECTIVELY. WHEN POWER IS REMOVED FROM BOTH SOLENOIDS THE AIR WILL BE EXHAUSTED FROM BOTH SIDES OF THE PISTON.  
 UP-SIDE: 1-SIMPLE "E-STOP" CIRCUIT  
 2-CYLINDER/LOAD MAY BE MOVED MANUALLY WITH NO RESISTANCE FROM COMPRESSED AIR  
 3-MAY BE COMBINED WITH CHECK VALVES AND REGULATORS TO FORM FAST ACTING E-STOP CIRCUIT.  
 DOWN-SIDE: 1-ANY OUTSIDE FORCE CAN EASILY MOVE THE LOAD/CYLINDER.  
 2-COMPRESSED AIR IS EXHAUSTED FROM BOTH SIDES OF THE PISTON MAKING FLOW CONTROL VALVES INEFFECTIVE ON START-UP.  
 3-NON HORIZONTAL LOADS WILL FALL WHEN POWER IS REMOVED FROM BOTH SOLENOIDS.



EXAMPLE MODEL NUMBER: 123BB7Z2MN00061  
 DESCRIPTION: 3-POSITION, DOUBLE SOLENOID PILOT, MOTOR SPOOL, SPRING CENTERED, 4-WAY VALVE  
 FUNCTION: CYLINDER EXTENDS AND RETRACTS WHEN POWER IS APPLIED TO THE "14" AND "12" SOLENOIDS RESPECTIVELY. WHEN THE POWER IS REMOVED FROM BOTH SOLENOIDS, BOTH SIDES OF THE PISTON ARE PRESSURIZED.  
 UP-SIDE: 1-BOTH SIDES OF PISTON ARE PRESSURIZED MAKING FLOW CONTROL VALVES EFFECTIVE ON START-UP  
 2-VIABLE "E-STOP" FOR BALANCED ACTUATORS/LOADS  
 3-VALVE OF CHOICE FOR AIR MOTORS  
 DOWN-SIDE: 1-WITH AN UN-BALANCED ACTUATOR, LOAD WILL DRIFT IN THE EXTEND DIRECTION.  
 2-WITH THE POWER REMOVED FROM BOTH SOLENOIDS, THE ACTUATOR WON'T RESIST OUT-SIDE FORCES TO MOVE THE LOAD.  
 3-NON HORIZONTAL LOADS WILL DRIFT "DOWNHILL".