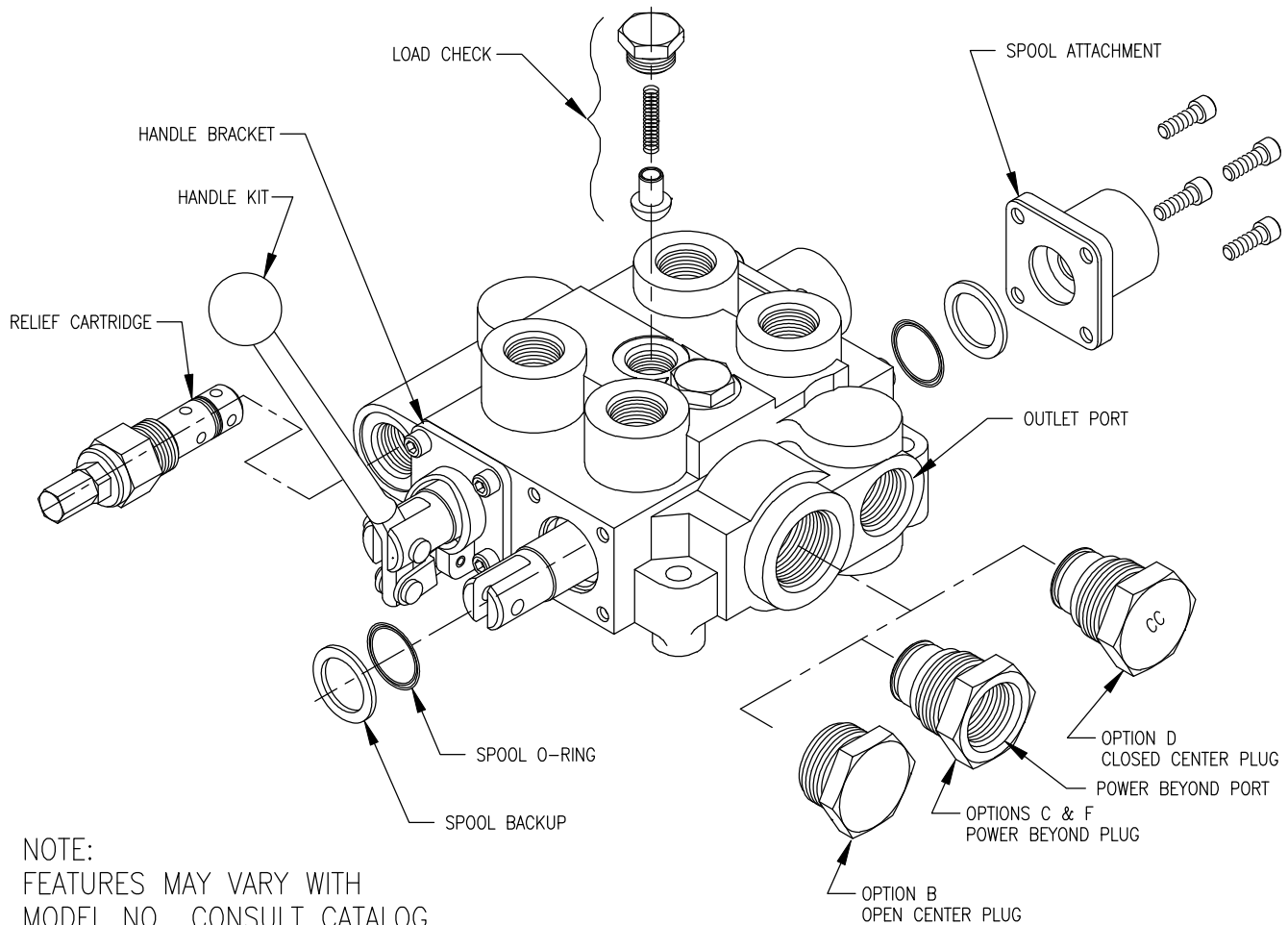


# RD5000 VALVE, TYPICAL



NOTE:  
FEATURES MAY VARY WITH  
MODEL NO., CONSULT CATALOG

RD5200 2 SPOOL MONO-BLOCK VALVE SHOWN. RD5100 & RD5300 ARE SIMILAR.

RD5000 KITS AND CARTRIDGES	
PART NO.:	DESCRIPTION:
660551001	RD5100 SEAL KIT (1 SPOOL)
660552001	RD5200 SEAL KIT (2 SPOOL)
660553001	RD5300 SEAL KIT (3 SPOOL)
660150015	LOAD CHECK KIT
660150004	STANDARD HANDLE KIT (HANDLE, KNOB & PINS)
660150039	COMPLETE HANDLE KIT
660150022	PIN KIT
660350001	HANDLE CLEVIS SUB-ASSY
660150012	JOYSTICK HANDLE KIT (BENT)
660150011	JOYSTICK HANDLE KIT (STRAIGHT)
660150001	SPRING CENTER KIT
660150002	3 POSITION DETENT KIT
660150003	FRICITION DETENT KIT
660150014	SPRING CENTER W/FLOAT DETENT KIT (REPAIR ONLY)
660150018	1 POS. DETENT SPOOL OUT SPRING CENTER KIT
660150020	2 POS. DETENT SPOOL IN AND OUT SPRING CENTER KIT
660150023	1 POS. DETENT SPOOL IN SPRING CENTER KIT
660312003	CONVERSION PLUG, OPEN CENTER (OPTION B)
660312004	3/4-NPTF POWER BEYOND PLUG (OPTION C)
660312008	#12 SAE POWER BEYOND PLUG (OPTION F)
660312005	CLOSED CENTER CONVERSION PLUG (OPTION D)
660250006	NO-RELIEF PLUG (OPTION 1)
660250003	ADJUSTABLE RELIEF CART. 500-1500 PSI (OPTION 4)
660250002	ADJUSTABLE RELIEF CART. 1500-3000 PSI (OPTION 5)
	RELIEF: STANDARD SETTING OPTIONS 3 & 5; 2000 PSI
	STANDARD SETTING OPTIONS 2 & 4; 1000 PSI

**CLOSED CENTER PLUG, OPTION D:**

This option provides for closed center operation. This is typically used with a variable displacement pressure compensated pump or in a system with an unloading valve. When the spools are in neutral the inlet port is blocked. The power beyond plugs can be used for closed center conversion by plugging the power beyond port. PLEASE NOTE: It may be necessary to increase the relief pressure above pump compensator setting.

**POWER BEYOND PLUG WITH 3/4 NPTF (OPT. C) OR #12 SAE (OPT. F):**

This option provides for a high pressure power beyond port. This would be used if a valve is to be added downstream. PLEASE NOTE: The outlet must be connected to tank. When spools are in neutral the inlet is connected to power beyond port.

**3 WAY SPOOLS, OPTION 'A':**

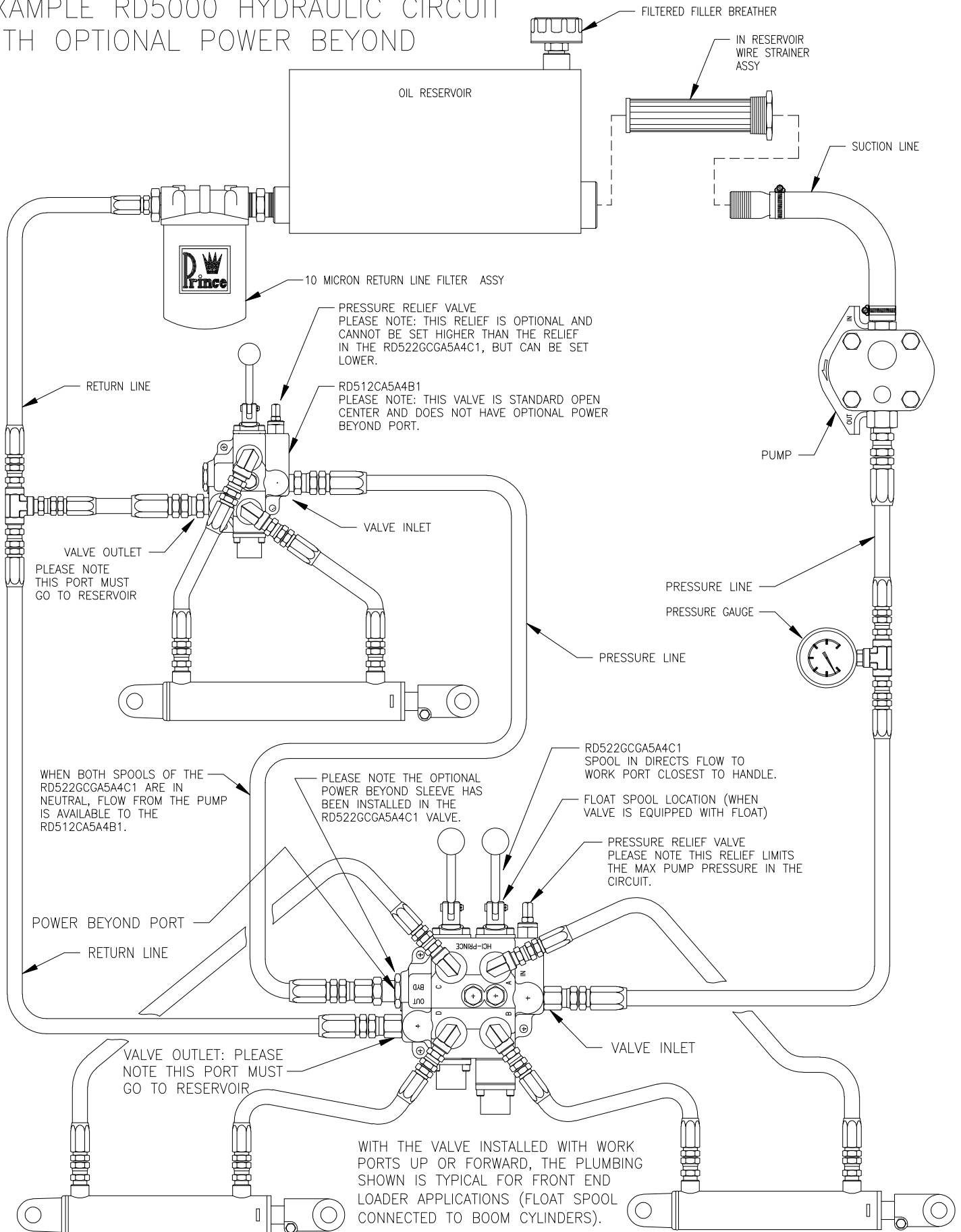
Have the 'A' work port plugged. Connect 'B' work port to cylinder.

**LOAD CHECK:**

The load check feature is standard on all RD5000 series valves. Each spool has a separate load check. The load check will prevent the fall of a cylinder as the spool is shifted. It also prevents the backflow of oil from the work port to the inlet. The pump must build up enough pressure to overcome the pressure on the work port caused by the weight of the load before the cylinder can move.

PLEASE NOTE: The load check has nothing to do with how well the valve will hold up a cylinder with the spool in neutral. The load check is functional only when the spool is shifted.

# EXAMPLE RD5000 HYDRAULIC CIRCUIT WITH OPTIONAL POWER BEYOND



NOTE: THREAD SEALANT—  
 USE OF A QUALITY NON-TEFLON THREAD SEALANT IS RECOMMENDED FOR  
 TAPERED PIPE THREADS. (USE OF TEFLON TAPE IS NOT RECOMMENDED.)