## HYDRAULIC KICK OFF CONTROL VALVE

### INSTRUCTION MANUAL

### SAFETY

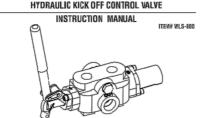
Pressure Release Detent (Kick out mechanism)
This feature provides a pressure release detent for the handle "out" position. When the spool is manually placed in the detent position, oil is directed to the "A" work port (the port closest to the nandle). When the pressure in the "A" port reaches a preset level, the detent will release and the spool will center. The factory setting is 700gsi. The detent release pressure is non-adjustable.

Relet Valve
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IMPROPER MOUNTING: Always use the proper size fittings. Hook up "in" & "out" as noted on the valve body. Do not over torque pipe fittings. (Use liquid pipe sealant only/Mounting surfaces should be that and care should be thanken when lightening mounting bolts. Over-lightened bolts can cause spcol bind and casting breakage.

- DO NOT hold the valve handle in the return position. This position is held firm by the detent mechanism until the cylinder retracts and kicks out to neutral position by hydraulic pressure. Holding the valve lever puts undue stress on all components and could cause serious injury. EO NOT change or adjust hydraulic system components while under pressure. Serious injury
- . DO NOT remove any internal parts from this valve assembly in an attempt to modify its function.
- DO NOT Use Tellon Tape, use Liquid Pipe sealant only
- Make sure all botts are tightened and torqued to the recommended specification. Bent or broken parts should not be used. Replace immediately. Always use exact replacements. Always protect Valve spool from paint overspray.

  Faulty quick disconnects can cause high back pressures and sticking spools. Check quick
- disconnects periodically to make sure they are functioning properly. If valve spool does not center Or appears to stick, do not use!
- . Gracked ports are not covered under warranty.



## SPECIFICATIONS

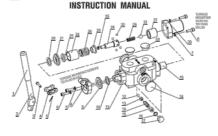
MAXIMUM TANK PRESSURE	a
MAXIMUM OFERATING PRESSURE 3265 PS	Ŕ
MAXIMUM OPERATING TEMPERATURE	F
MAXIMUM FLOW PATING	Ň
RECOMENDED SYSTEM FILTRATION	N

- . Inlet/Outlet Ports: 3/4" NPT
- . Working Ports: 1/2" NPT
- Relief valve adjusable to 3,625 PSI, preset at 2,250 PSI© 4 GPM and 120°F
   Refer release pressure presst at 700 PSI
- . Automatically kiels back to neutral when cylinder completes stroke
- · Meal for too splitter building

# INSTALLATION DIMENSION

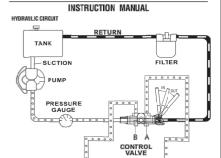
4 0F4

# HYDRAULIC KICK OFF CONTROL VALVE



Pag No.	QTY			Part No.	O'ty	Description	
11	1	Control Valve Body		1	- 1	Grip(Black)	
18	1	Valve Spool		2	1	Control Lever	
10	1	O-Ring	Seal Kit	3 4	1	Cleuis Pin	
16	1	O-Ring			1	Chain Link	
85	1	Seal		5	1	Cotter Pin	
20	1	O-Ring		6 7	2	Screw	Handle Kit
21	1	Seal Retainer		7	2	Washer	
24	1	Machinery Bushing		8	1	Handle Bracket	
25	2	Spring Steeve		9	1	Seal Retainer	
26	1	Spring.Valve Spool	Detent Kit	33	2	Working Port Plug	
27	1	Detent Sleeve		34	2	In&Oulet Port Plug	
\$2	4	Steel Ball					-
28	1	Defent Ball Holder					
29	1	Spring, Compression					
31	1	Steel Ball					
7	2	Washer					
6	2	Screw					
80	1	Spring Cover					
12	1	Steel Ball		1			
13	1	Adapter					
14	1	Spring	Relief Kit				
15	1	Adjusting Screw	Institut No.				
17	1	Hex Plug					

# HYDRAULIC KICK OFF CONTROL VALVE



The valve is mounted so the handle is on the cylinder rod end as shown. Push handle IN, cylinder extends to spit tiog. Pull bandle out, cylinder retract. When the cylinder retracts completely, handle kick bas to enutral automatically. The kind-out pressure is non-diguisable present at 700pc.

Basa En

DO NOT connect bases to ephinter apposite from the diagram or the valve will stay in pover extend (splitting) position and could cause serious injury. This includes connecting the input flow to the out open or connecting the "Y" port to the base and of the eyInder.

THE OIL FLOW WHICH STROKES THE CYLINDER IN THE LOGSPLITTING DIRECTION MUST COME FROM THE WALVE FORT AWAY FROM THE HANDLE-("P" PORT, "B" port should always be plumbed to the base and of the cylinder. Oil is supplied to this part by shifting the Walke handle IN

DO NOT cornect a return line (low pressure) filter directly to the outlet of the legsplitter valve.

Decompression of the sylinder could blow off the litter cartridge, causing an of spill and jossible spraying of operators or bystanders with hot hydraulic oil.

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# INSTRUCTION MANUAL FOR LOG SPLITTER VALVE (MODELS WLS-800) INSTRUCTION MANUAL TO BE PROVIDED BY VALVE SUPPLIER. ONE MANUAL IS TO BE INCLUDED INSIDE THE BOX OF EACH VALVE SHIPPED.

SYM.	REVISION ——	DRAWN BY: WP DATE:7/19/12 CHECKED BY: MO DATE:7/20/12 APPROVED BY: MO DATE:7/20/12	PRINCE MANUFACTURING CORPORATION 612 North Derby Lane, P.O. Box 7000 North Sloux City, South Dakota 57049-7000
		TOLERANCES: ANGLES ±1'	North Sloux City, South Dakota 57049-7000 www.princehyd.com
		FRACTION ±1/32 [± 0.79] .00 ±.010 [±0.25] .000 ±.005 [± 0.13]	INSTRUCTION SHEET
		WELD CALLOUTS: +.06/00 [+1.52/.00]  DEBURR & BREAK ALL EDGES  DO NOT SCALE DRAWING	SIZE NEXT ASS'Y SE 67210056
		DIMENSIONS ARE IN INCHES OR [MILLIMETERS] UNLESS OTHERWISE SPECIFIED	SCALE: N/A MATERIAL: SHT: 1 OF

PARTS REPAIR KITS CROSS-REFERENCE:							
ITEM:	PMC P/N:	VENDOR P/N:	DESCRIPTION:				
1	660170077	C353446-DK	DETENT ATTACHMENT KIT				
2	660170078	C353446-RK	RELIEF KIT				
3	660170079	C353446-HK	HANDLE KIT				
4	660170080	C353446-SK	SEAL KIT				

NOTE: SPOOL AND VALVE BODY ARE NOT AVAILABLE AS REPAIR PARTS.