

3/4 NPT OUTLET PORT

11/32 DIA. (3)

3.25



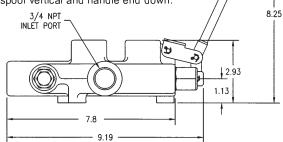
1/2 NPT

1.84

A & B WORK PORTS

SPECIFICATIONS:

- 1. Max design and test pressure 2750 PSI
- 2. Max tank port pressure-150 PSI
- 3. Flow rating-25 GPM max.
- 4. Relief valve setting-2250 PSI
- 5. This valve has one position pressure release handle in) with spring center to neutral
- 6. Weight: 10 lbs.
- 7. Recommended filtration-ISO 4406 17/14
- 8. Max operation temp-180°F
- 9. In exposed environments do not mount with popular properties and handle end down.



STANDARD FEATURES

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• Hydraulically balanced, hard chrome plated spool

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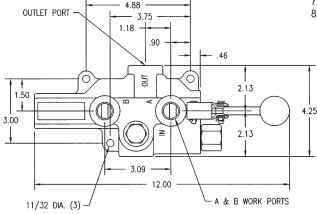
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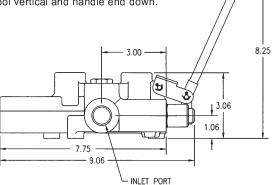
- Handle can be installed in "up" or "down" position
- Detent release pressure adjustable from 1000 to 2000 PSI
- For use with system flows up to 25 GPM
- Relief valve adjustable up to 2750 PSI
- Tandem center spool (in neutral position, both work ports blocked, pump unloaded to tank)
- Ideal for logsplitter applications. Available with 3/4" NPTF work ports for higher flow applications

MODEL RD2500 DIMENSIONAL DATA

SPECIFICATIONS:

- 1. Max design and test pressure 3000 PSI
- 2. Max tank port pressure-150 PSI
- 3. Flow rating-20 GPM max.
- 4. Relief valve setting-1500 PSI
- 5. Weight: 9.5 lbs.
- 6. Recommended filtration-ISO 4406 17/14
- 7. Max operation temp-180°F
- 8. In exposed environments, do not mount with spool vertical and handle end down.





STANDARD FEATURES

- Economical monoblock construction of high tensile strength gray cast iron
- Load check
- · Hard chrome plated spool
- Adjustable ball spring relief

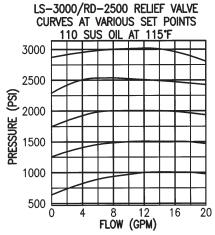
- Open center to closed center conversion available on some models
- For use with system flows to 20 GPM
- For use with system pressures to 3000 PSI



LS-3000, RD-2500 PRESSURE DROP, RELIEF CURVE AND STANDARD MODELS

PRESSURE DROP

440 CLIC OIL AT 44E°F A D DCI							
	110 SUS OIL AT 115°F △P-PSI						
		RD-2500		LS-3000			
FLOW (GPM)	INLET TO OUTLET	INLET TO A OR B	A OR B TO OUTLET	INLET TO OUTLET	INLET TO A OR B	A OR B TO OUTLET	
5	5	20	8	3	5	4	
10	9	39	15	5	11	13	
15	19	60	32	7	23	24	
20	31	90	54	11	40	42	



STANDARD VALVES AVAILABLE:

All standard valves have a load check (except LS3000 models), a complete lever handle assembly, and an adjustable ball-spring relief, see below for settings. For other relief settings, please specify.

	SPOOL TYPE			SPOOL ACTION						
VALVE PART NUMBER	4 WAY 3 POSITION	4 WAY 3 POSITION MOTOR	3 WAY 3 POSITION		3 POSITION DETENT	PRESSURE RELEASE DETENT SPRING CENTER TO NEUTRAL	IN/OUT PORT SIZE	WORK PORT SIZE	RELIEF SETTING To specify other settings see next page	CONVERTIBLE FROM OPEN CENTER TO CLOSED CENTER
RD-2555-T4-ESA1	Х			Х			1/2 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	NO
RD-2575-T4-ESA1	Х			X			3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	YES
RD-2575-T4-EDA1	Х				Х		3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	YES
RD-2575-T3-ESA1			Х	Х			3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	YES
RD-2575-M4-ESA1		Х		Х			3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	YES
RD-2508-T4-ESA1	Х			X			#10 SAE	#8 SAE	1500 PSI @ 12 GPM	NO
RD-2575-M4-EDA1		Х			Х		3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	YES
LS-3000-1	Х					Х	3/4 NPTF	1/2 NPTF	2250 PSI @ 3 GPM	NO
LS-3000-2	Х					Х	3/4 NPTF	3/4 NPTF	2250 PSI @ 3 GPM	NO
LS-3030-1	Х			Х			3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	NO
LS-3030-2	Х			Х			3/4 NPTF	3/4 NPTF	1500 PSI @ 12 GPM	NO
LS-3040-1	Х				Х		3/4 NPTF	1/2 NPTF	1500 PSI @ 12 GPM	NO

4 WAY SPOOL

3 WAY SPOOL

4 WAY MOTOR SPOOL

LOAD CHECK

This spool option is used to control a double acting cylinder. In neutral both of the work ports are blocked and oil goes through the open center passage to the outlet. This is the most popular spool option.



This spool option is used to control a single acting cylinder or a uni-directional motor. In neutral the work port is blocked and oil goes through the open center passage to the outlet. The "B" work port is plugged for this option.



This spool option is used to control a reversing motor or a double acting cylinder. In neutral the work ports are connected to tank and oil goes through the open center passage to the outlet. This allows a motor to free-wheel or a cylinder to float in the neutral position.

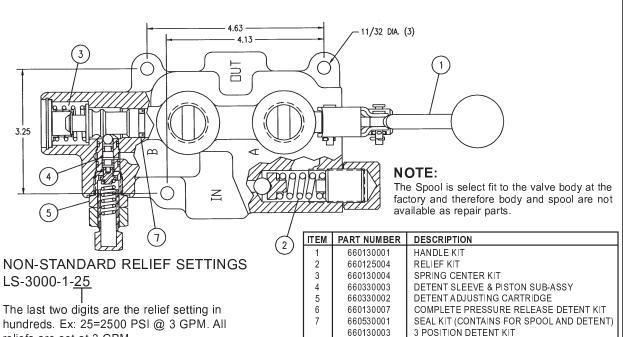


The load check feature is standard on all RD-2500 valve models. The load check will prevent the fall of a cylinder as the spool is shifted. It does this by preventing the backflow of oil from work port to inlet. The pump must build up enough pressure to overcome the pressure on the work port and lift the load check poppet. The load check has nothing to do with holding a cylinder when the spool is in neutral.

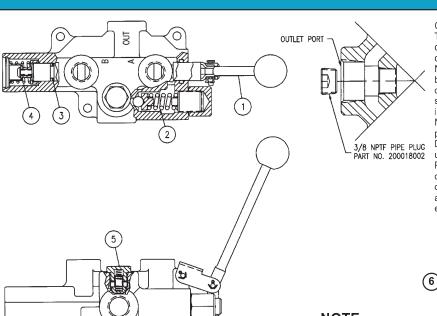
reliefs are set at 3 GPM.



LS-3000-1/LS-3000-2 PARTS BREAKDOWN



RD-2555-T4-ESA1 PARTS BREAKDOWN



OPEN TO CLOSED CENTER CONVERSION This feature allows an otherwise open center valve to be converted to closed center operation. As shown, a 3/8 NPTF pipe plug is installed in the bottom of the outlet port to block open center passage. A pipe thread sealant should be used. This feature is standard on all valves with 3/4 NPTF inlet and outlet ports. The pipe plug is included with these models. Discard the pipe plug if the valve is used on an open center application.
PLEASE NOTE that this closed center option does not provide for the drain off of standby spool leakage. This can allow a very small amount of oil to enter the work ports when in neutral.

3 POSITION DETENT

NOTE:

The Spool is select fit to the valve body at the factory and therefore body and spool are not available as repair parts.

ITE	М	PART NUMBER	DESCRIPTION
1		660130001	HANDLE KIT
2		660125004	RELIEF KIT
3		660525001	SEAL KIT
4		660125002	SPRING CENTER KIT
5		660150015	LOAD CHECK KIT
6		660125001	3 POSITION DETENT KIT

NON-STANDARD RELIEF SETTINGS RD2575-T4-ESA1-25

The last two digits are the relief setting in hundreds. Ex: 25=2500 PSI @ 12 GPM. All reliefs are set at 12 GPM.