

# VP120 Load-Sense Directional Control Valve

Build Program

Bulletin HY14-2008-B1/US

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**Technical Information**

General Description ..... 1  
Operation ..... 1  
Assembly Callout Drawing ..... 2  
Benefits ..... 2  
Specifications ..... 3  
Weights ..... 3  
Connections ..... 3

**Ordering Information**

Inlets ..... 4  
Outlets ..... 4  
Clipper Relief Valves ..... 5  
Work Sections ..... 5  
Spool Positioner Kits ..... 6  
Spools ..... 6  
Stud Kits ..... 7  
Seal Kits ..... 7  
Port Accessories ..... 8

**Terms of Sale with Warranty Limitations** ..... II

**Safety Guide** ..... II



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## General Description

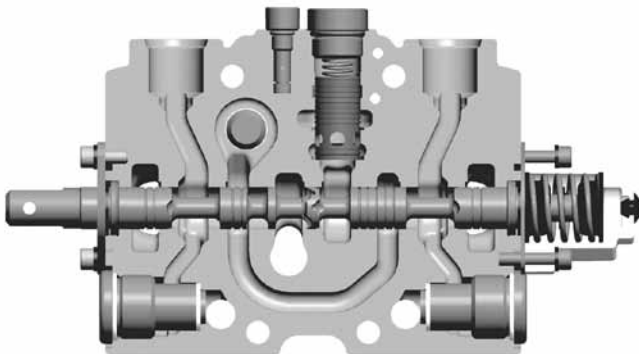
The VP120 can be configured either as pressure-compensated load-sense (PCLS) or as load-sense (LS). Both have the flexibility of sectional construction. The PCLS work section has its own compensator, so that speed control of multiple functions is achieved, regardless of changes in pressure or engine rpm's. The key technology integrated into the VP120 is flow-sharing. In pump over-demand conditions, flow-sharing benefits machine productivity by maintaining the speed relationship of the selected functions, but at a reduced speed. Thus, the operator can maintain the rhythm of the machine.

A new technology available in the VP120 is pressure-limiting. This feature allows for selected functions to operate at pressures lower than load-sense relief-valve setting. The advantage of using pressure limiters to accomplish this vs. port relief-valves is that less flow is lost – which means less heat generation.

Another new technology developed for the VP120 is margin control, which can be used to selectively boost or reduce the flow out of a work-section.

The combination inlet/outlet can be installed on both ends of the valve, facilitating the routing of pump flow to both ends of the valve.

The valve can be operated manually, hydraulic-remote and with solenoids. The same solenoid is used for on/off and proportional control. A bypass compensator is available for use with fixed displacement pumps. Also, priority flow control is an option for steering requirements. In addition, low pressure regeneration is an option designed to overcome the damaging affects of cavitation – namely premature component wear and spongy operation.



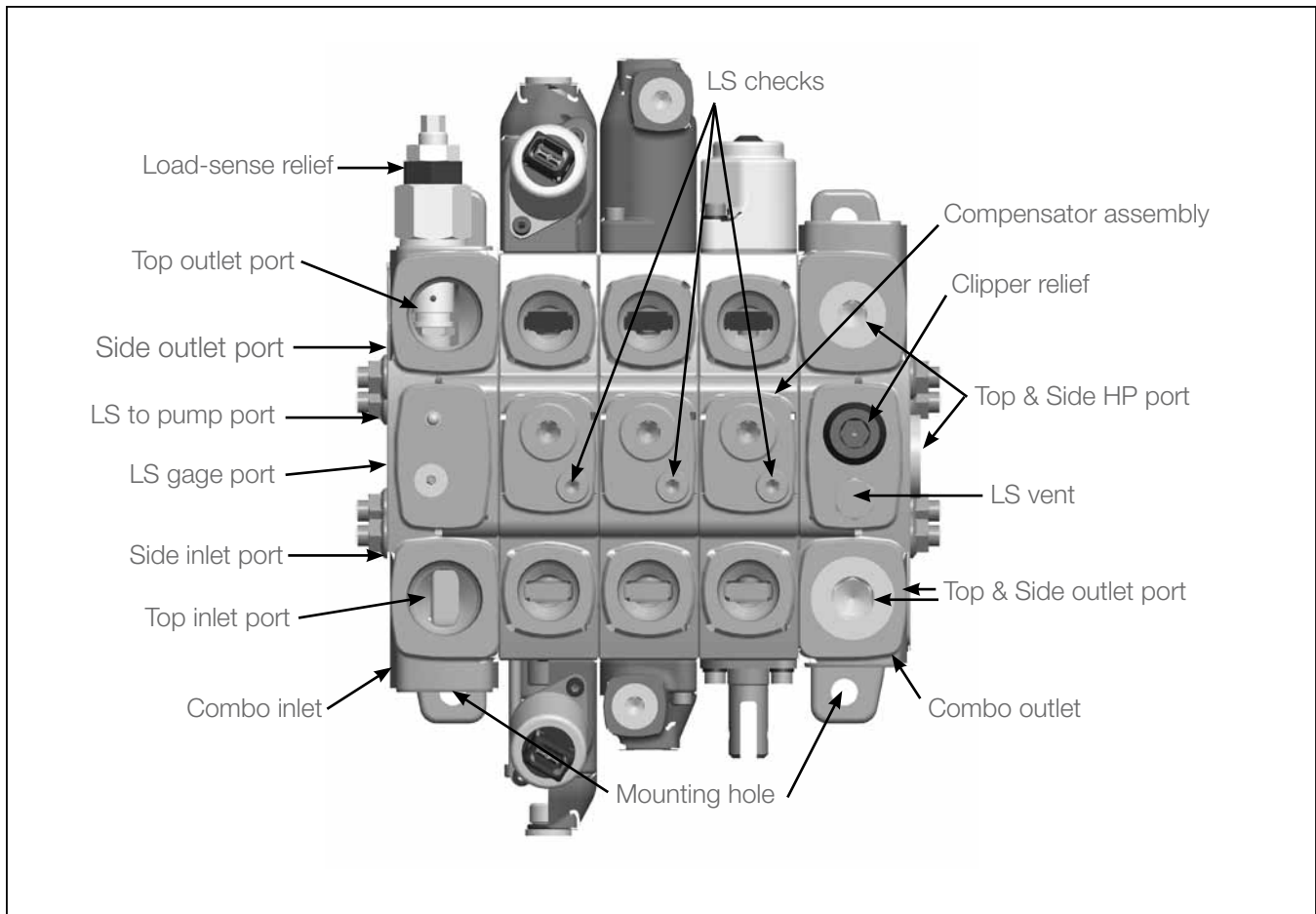
The VP120 uses the same port accessories, load-sense relief valve and pressure-reducing valve that are used in our other valves. The standard spool types are 3-way, 4-way and 4-position float. A full range of flow limited spools are available.

## Operation

The VP120 (PCLS) is an individually pressure-compensated load-sense valve. For optimum horsepower utilization, it is normally used with a piston pump. However, it does have the flexibility to be interfaced with a fixed (gear or vane) displacement pump.

During single function use, the pump control will determine the flow to the valve, based upon the area opening of the spool notch and the load-sense signal being sent back to the pump.

During multi-function operation, the pump control will determine the flow for the highest loaded function, while the work-section compensator will control the flow for the lighter loaded function.



## Benefits

- **Excellent machine controllability** – individual pressure compensation in each work section delivers predictable metering with single and multi-function operation; regardless of changed in pressure and input flow. This enhances machine control, improves productivity and helps to make every operator an “expert” operator – all of which saves money. This valve type also lends itself to closed-loop control.
- **Improved system efficiency** – optimized horsepower utilization and heat management are features that are inherent with load-sense pressure-compensated valves due to a closer match between horsepower consumption and horsepower demand. Fuel savings of up to 30% can be achieved vs. open-center type systems. Also, better horsepower utilization may enable the use of a smaller engine or elimination of a heat exchanger.
- **Enhanced machine productivity** – the VP120 incorporates flow-sharing technology. This means that during a pump over-demand condition the valve will automatically apportion the available flow to the selected functions, based upon the area openings of the spool notches. The selected functions will maintain their speed relationship, but at a lower overall speed. This automatic adjusting by the valve can improve machine productivity as much as 20% and reduce operator fatigue.
- **Enhanced speed control** – the optional margin control boosts or reduces flow of the selected work sections. This enables the hydraulic circuit designer to better utilize the available pump flow and possibly reduce the size of the engine.
- **Reduced heat generation** – pressure limiting is a feature not common on valves with flow sharing technology. This feature allows for selected functions to operate at a pressure less than the setting of the load-sense relief-valve, while only passing a few liters of oil to tank. The alternative method for achieving this is with a port relief-valve. But they can pass anywhere from 75 LPM (20 GPM) to full flow to tank.
- **Flexible design** – the VP120 is available as a pressure-compensated load-sense valve (PCLS) or just as a load-sense (LS) valve. The combination inlet/outlet casting can be installed on both ends of the valve, which means that pump flows can be routed to both ends of the valve.
- **Ease of service** – the load-sense check and the compensator are located on the top of the work section, making them accessible for trouble-shooting without having to disassemble the valve bank.

## Specifications

<b>Pressures</b>	Pump inlets: 280 Bar (4060 PSI) Service Ports: 320 Bar (4640 PSI) Pilot-EH (input or internal supply): 35 Bar (508 PSI) Tank Return: 15 Bar (220 PSI) Solenoid Drain: 2 Bar (29 PSI) Pilot-Hydraulic Remote: 7-28 Bar (100-400 PSI)
<b>Flow Rates</b>	Maximum Input: 160 LPM (42 US GPM) Maximum Flow out of Service Ports: 120 LPM (32 US GPM)
<b>Leakage Performance</b> With mineral oil, 100 SUS @ 120°F at 1100 PSI differential	Workport w/Steel Plug or no Accessory: 20 cc/min max. Thru Compensator Only: 1100 cc/min max.
<b>Hydraulic Fluid</b>	Mineral base oil. For other fluids consult factory. Viscosity, working range: 15-380mm <sup>2</sup> /s (15-380 cSt).
<b>Hydraulic Oil Temperature</b>	Recommended Operating Range without Solenoid Operation: -30° to 90°C (-22° to 194°F) Recommended Operating Range with Solenoid Operation: -20° to 80°C (-4° to 176°F)
<b>Filtration (ISO 4406)</b>	20/18/14 in Main Flow Paths 18/16/13 Pilot Supply

## Weights

### Inlets/Outlets

<b>Std. Combination Inlet/Outlet</b>	4.58 kg (10.1 lb)
<b>EH Combination Inlet/Outlet</b>	15.81 kg (12.8 lb)
<b>Combination Inlet/Outlet with priority flow divider</b>	6.89 kg (15.2 lb)
<b>Combination Inlet/Outlet with bypass compensator</b>	6.94 kg (15.3 lb)
<b>Combination Inlet/Outlet with low pressure regeneration</b>	6.85 kg (15.1 lb)
<b>Simple turnaround cover</b>	3.1 kg (6.8 lb)
<b>Work Sections</b>	
Manual with 2 port access.	4.17 kg (9.2 lb)
Hydraulic Remote with 2 port access.	4.58 kg (10.1 lb)
EH with 2 port access.	6.03 kg (13.3 lb)

## Mounting Surface

There is no restriction on orientation.  
 Flatness should be at least 0.5 mm (0.020")  
 Surface must be stable and not put stress on valve.

## Connections

O-ring boss ports SAE-J1926-1  
 BSPP ports ISO 1179-1  
 Pump gage port standard  
 O-ring boss 9/16"-18 UNF, BSPP ports 1/4"-19

Description	SAE #	Thread Size	
		O-ring Boss (UNF)	BSPP
inlet, top	12	1 <sup>1</sup> / <sub>16</sub> -12	3/4"-14
inlet, side	12	1 <sup>1</sup> / <sub>16</sub> -12	3/4"-14
EH inlet, pilot	6	9/16-18	1/4"-19
outlet, top	12	1 <sup>1</sup> / <sub>16</sub> -12	3/4"-14
outlet, side	16	1 <sup>5</sup> / <sub>16</sub> -12	1"-11
work section	8	3/4-12	(none)
work section	10	7/8-14	1/2"-14

## Solenoid Specifications

<b>Voltage</b>	12 or 24 VDC		
<b>Pilot</b>	35 Bar (508 PSI), 15-23 LPM (4-6 GPM)		
<b>Current Input (I)</b>	1.5A for 12 VDC 0.75A for 24 VDC		
<b>Current (mA) for Spool Shift</b>	Start Shift	12V 500	24V 250
	Full Shift	1250	625
<b>Insulation Material</b>	Class H		
<b>Duty Cycle</b>	100%		
<b>R20 Ohm</b>	5.3 (±5%) for 12 VDC 21.2 (±5%) for 24 VDC		
<b>Fluid Cleanliness</b>	17/14 per ISO 4406		
<b>Ambient Temperature</b>	-30° to 80°C (-22° to 176°F)		
<b>Fluid Temperature</b>	-20° to 80°C (-4° to 176°F)		

**Standard Inlet**



**EH Inlet**



**Inlets**

Item No.	Description	Part Number	Top HP Porting	Side HP Porting	Top LP Porting	Side LP Porting	External Pilot	External Drain
1	Standard Inlet	4069105005	SAE 12	SAE 12	SAE 12	SAE 16		
2	EH Inlet	4069105008	SAE 10	SAE 12	SAE 12	SAE 16	•	•

**Notes:**

- Top inlet and side outlet ports with steel plug
- Side LS "In" & side LS gage ports SAE 6 with steel plug
- Side LS "In" & side LS gage ports SAE 6 with steel plug
- Side LS to pump & external pilot "In" port shipped with plastic enclosures
- Includes section seals
- Includes LS RV. Adjustable range is 2600-4060 PSI

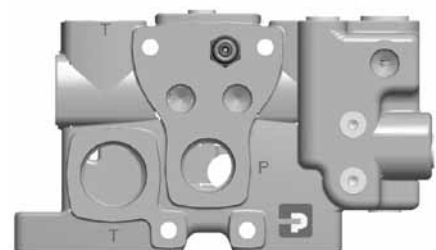
**Standard Outlet**



**Combination Outlet**



**EH Outlet**



**Outlets**

Item No.	Description	Part Number	Top HP Porting	Side HP Porting	Top LP Porting	Side LP Porting	External Pilot	External Drain
3	Simple Outlet	4069106007	N/A	N/A	SAE 6	N/A		•
4	Combination Outlet	4069106013	SAE 10	SAE 12	SAE 12	SAE 16		
5	EH Outlet	4069106008	SAE 10	SAE 12	SAE 12	SAE 16	•	•

**Notes:**

- Clip RV cavity shipped with a plastic enclosure

**Clipper Relief Valves**

Item No.	Description	Part Number	Pressure Setting (BAR)	Pressure Setting (PSI)
6	Clipper relief valve	393000K176	50	725
7	Clipper relief valve	393000K177	63	914
8	Clipper relief valve	393000K178	80	1160
9	Clipper relief valve	393000K179	100	1450
10	Clipper relief valve	393000K180	125	1813
11	Clipper relief valve	393000K181	140	2031
12	Clipper relief valve	393000K182	160	2321
13	Clipper relief valve	393000K183	175	2538
14	Clipper relief valve	393000K184	190	2756
15	Clipper relief valve	393000K185	210	3046
16	Clipper relief valve	393000K186	230	3336
17	Clipper relief valve	393000K187	250	3626
18	Clipper relief valve	393000K188	260	3771
19	Clipper relief valve	393000K189	280	4061
20	Clipper relief valve	393000K190	300	4351
21	Clipper relief valve	393000K191	320	4641
22	Clipper relief valve	393000K192	350	5076
23	Clipper relief valve	393000K193	Plug	N/A

**Work Sections**

Item No.	Description	Part Number
<b>Manual - spring return</b>		
24	DA cyl - 4 GPM	4069102027
25	DA cyl - 8 GPM	4069102028
26	DA cyl - 12 GPM	4069102029
27	DA cyl - 18 GPM	4069102030
28	DA cyl - 24 GPM	4069102031
29	DA cyl - 32 GPM	4069102032
30	SA cyl - 4 GPM	4069101001
31	SA cyl - 8 GPM	4069101002
32	SA cyl - 12 GPM	4069101003
33	SA cyl - 18 GPM	4069101004
34	SA cyl - 24 GPM	4069101005
35	SA cyl - 32 GPM	4069101006
<b>Hydraulic Remote</b>		
36	DA cyl - 4 GPM	4069102033
37	DA cyl - 8 GPM	4069102034
38	DA cyl - 12 GPM	4069102035
39	DA cyl - 18 GPM	4069102036
40	DA cyl - 24 GPM	4069102037
41	DA cyl - 32 GPM	4069102038
<b>Solenoid - 12V w amp Jr Connectors</b>		
42	DA cyl - 4 GPM	4069102039
43	DA cyl - 8 GPM	4069102040
44	DA cyl - 12 GPM	4069102041
45	DA cyl - 18 GPM	4069102042
46	DA cyl - 24 GPM	4069102043
47	DA cyl - 32 GPM	4069102044

**Notes:**

- All work ports are SAE 10.
- Section seals included.
- All worksections have machined port RV cavities with steel plugs.

### Spool Positioner Kits

Item No.	Description	Part Number
48	Spring Return	3961823508
49	Hydraulic Remote	3961823509
50	Proportional Solenoid, 3 Position	3961823510

**Notes:**

- Spools not included.
- Solenoids not included.

### Spools

Item No.	Description	Part Number
51	DA cyl - 4 GPM	4068700104
52	DA cyl - 8 GPM	4068700108
53	DA cyl - 12 GPM	4068700112
54	DA cyl - 18 GPM	4068700118
55	DA cyl - 24 GPM	4068700124
56	DA cyl - 32 GPM	4068700132
57	DA cyl - Full Flow	4068700100

58	SA cyl - 4 GPM	4068700304
59	SA cyl - 8 GPM	4068700308
60	SA cyl - 12 GPM	4068700312
61	SA cyl - 18 GPM	4068700318
62	SA cyl - 24 GPM	4068700324
63	SA cyl - 32 GPM	4068700332

64	DA motor - 4 GPM	4068700204
65	DA motor - 8 GPM	4068700208
66	DA motor - 12 GPM	4068700212
67	DA motor - 18 GPM	4068700218
68	DA motor - 24 GPM	4068700224
69	DA motor - 32 GPM	4068700232

70	SA motor - 4 GPM	4068700404
71	SA motor - 8 GPM	4068700408
72	SA motor - 12 GPM	4068700412
73	SA motor - 18 GPM	4068700418
74	SA motor - 24 GPM	4068700424
75	SA motor - 32 GPM	4068700432

**Notes:**

- Spools do not come with a clevis



**Stud Kits (Used with Inlet & Standard/EH Outlet)**

Item No.	Description	Part Number
76	Stud kit for a (1) work section assembly	3969425037
77	Stud kit for a (2) work section assembly	3969425038
78	Stud kit for a (3) work section assembly	3969425039
79	Stud kit for a (4) work section assembly	3969425040
80	Stud kit for a (5) work section assembly	3969425041
81	Stud kit for a (6) work section assembly	3969425042
82	Stud kit for a (7) work section assembly	3969425043
83	Stud kit for a (8) work section assembly	3969425044
84	Stud kit for a (9) work section assembly	3969425045
85	Stud kit for a (10) work section assembly	3969425046

**Notes:**

-Each stud kit contains (4) studs and (8) serrated hex nuts. Stud torque is 264 inch lbs.

**Stud Kits (Used with Inlet & Simple Outlet)**

Item No.	Description	Part Number
86	Stud kit for a (1) work section assembly	3969425047
87	Stud kit for a (2) work section assembly	3969425048
88	Stud kit for a (3) work section assembly	3969425049
89	Stud kit for a (4) work section assembly	3969425050
90	Stud kit for a (5) work section assembly	3969425051
91	Stud kit for a (6) work section assembly	3969425052
92	Stud kit for a (7) work section assembly	3969425053
93	Stud kit for a (8) work section assembly	3969425054
94	Stud kit for a (9) work section assembly	3969425055
95	Stud kit for a (10) work section assembly	3969425056

**Notes:**

-Each stud kit contains (4) studs and (8) serrated hex nuts. Stud torque is 264 inch lbs.

**Seal Kits**

Item No.	Description	Part Number
96	Face seal kit	3961823506

**Notes:**

-All combinations of face seal kits are incorporated in the above kit

**Port Accessories**

Item No.	Description	Part Number	Pressure Setting Bar (PSI)
97	Relief Valve	6763034	25 (363)
98	Relief Valve	6763035	32 (464)
99	Relief Valve	6763036	40 (580)
100	Relief Valve	6763037	50 (725)
101	Relief Valve	6763038	63 (914)
102	Relief Valve	6763039	80 (1160)
103	Relief Valve	6763040	100 (1450)
104	Relief Valve	6763041	125 (1813)
105	Relief Valve	6763042	140 (2031)
106	Relief Valve	6763043	160 (2321)
107	Relief Valve	6763044	175 (2538)
108	Relief Valve	6763045	190 (2756)
109	Relief Valve	6763046	210 (3046)
110	Relief Valve	6763058	225 (3263)
111	Relief Valve	6763047	230 (3336)
112	Relief Valve	6763048	250 (3626)
113	Relief Valve	6763056	265 (3844)
114	Relief Valve	6763057	270 (3916)
115	Relief Valve	6763049	280 (4061)
116	Relief Valve	6763050	300 (4351)
117	Relief Valve	6763051	330 (4786)
118	Relief Valve	6763052	350 (5076)
119	Relief Valve	6763053	380 (5511)
120	Relief Valve	6763054	400 (5801)
121	Relief Valve	6763055	420 (6092)
122	Anti-Cavitation	4069004026	————
123	Port RV Plug	4069001006	————

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