

## MIZERS

### **Pre-Engineered Circuit, Option MODEL A .....HZ2**

Load Holding Solenoid Operated, RV w/Adj. Press. Comp. Flow Control, RV w/Fixed Press. Comp. Flow Control, Unloading w/flow control, Lift Circuit w/RV, RV w/Flow Control, Unloading w/ Fixed Press. Comp. Flow Control Speed Control

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL B .....HZ4**

Lift, Check, & Dump. Startup Circuit, Lift, Check & Dump w/RV

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL C .....HZ6**

Dual RV, Dump, Flow Divider, Motor Speed Control, Selector, Hydrostatic (Anti-Cav)

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL D .....HZ8**

NC Poppet Valve, Single RV, Needle Flow Control, Flow Control w/Free Flow Check, NO Spool valve, Crossover RV

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL E .....HZ10**

Adj. Flow Control NC Poppet Dual Speed Circuit, Adj. Press. Comp. Flow Control NC Poppet Dual Speed Circuit, Press. Comp. Flow Control & Check Valve, Adj. Press. Comp. Flow Control NO Poppet Dual Speed Circuit, Adj. Flow Control NO Poppet Dual Speed Circuit, Press. Comp Flow Control and Check, Adj. Flow Control NC Spool Valve Dual Speed Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL F .....HZ12**

Dual Sequence Valve Manifold

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL G .....HZ14**

Rectifier Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL H .....HZ16**

4w3p Open Center, 4w3p Closed Center

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL I .....HZ18**

3way valve, Manual Lift Check & Dump, NC Poppet Valve and RV, Lift Check & Dump, Pump Check & RV, Needle Flow Control & Check, NO Poppet & Check, NO Poppet & RV

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL J .....HZ20**

4w3p Tandem Center

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL K .....HZ21**

2 NC Poppet Valves, NO Poppet Valve & Needle Valve, 2 NC Poppet Valves, NC Poppet Valve & Adj.Press. Comp Flow Control

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL L .....HZ22**

Dual Counterbalance Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL M .....HZ24**

Single 4:1 PO Check Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL N (BANJO BOLT) .....HZ26**

Velocity Fuse, NC Poppet Valve, Adj. Press, Comp. Flow Control, Needle Valve, NO Spool Valve

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL O .....HZ28**

Single Counterbalance Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL P .....HZ30**

Lift Circuit w/Needle Valve & RV, Lift Circuit w/Press. Comp Flow Control & RV, Lift Circuit w/Bypass & Needle Valve, Lift Circuit w/Bypass & Press. Comp Flow Control

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL Q .....HZ32**

Dual 3 way Valves

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL R .....HZ34**

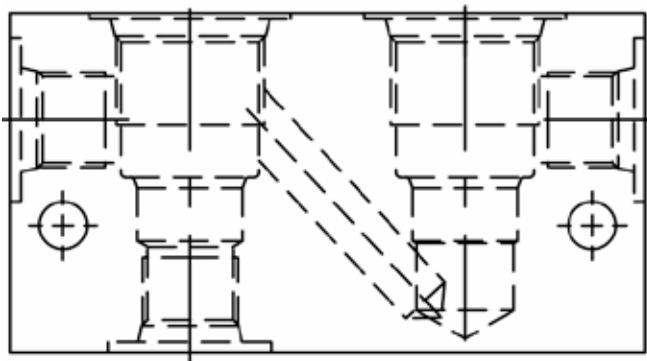
Single RV Circuit

### **PRE-ENGINEERED CIRCUIT, OPTION MODEL S .....HZ36**

Crossover Relief, Mower Breakaway, Unloading & RV



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**PRE-ENGINEERED CIRCUIT, OPTION MODEL A\***
**BASE BODY - 20200001 = #6 SAE**

**BODY WEIGHT: .83 lbs (.37 kg)**
**DESCRIPTION**

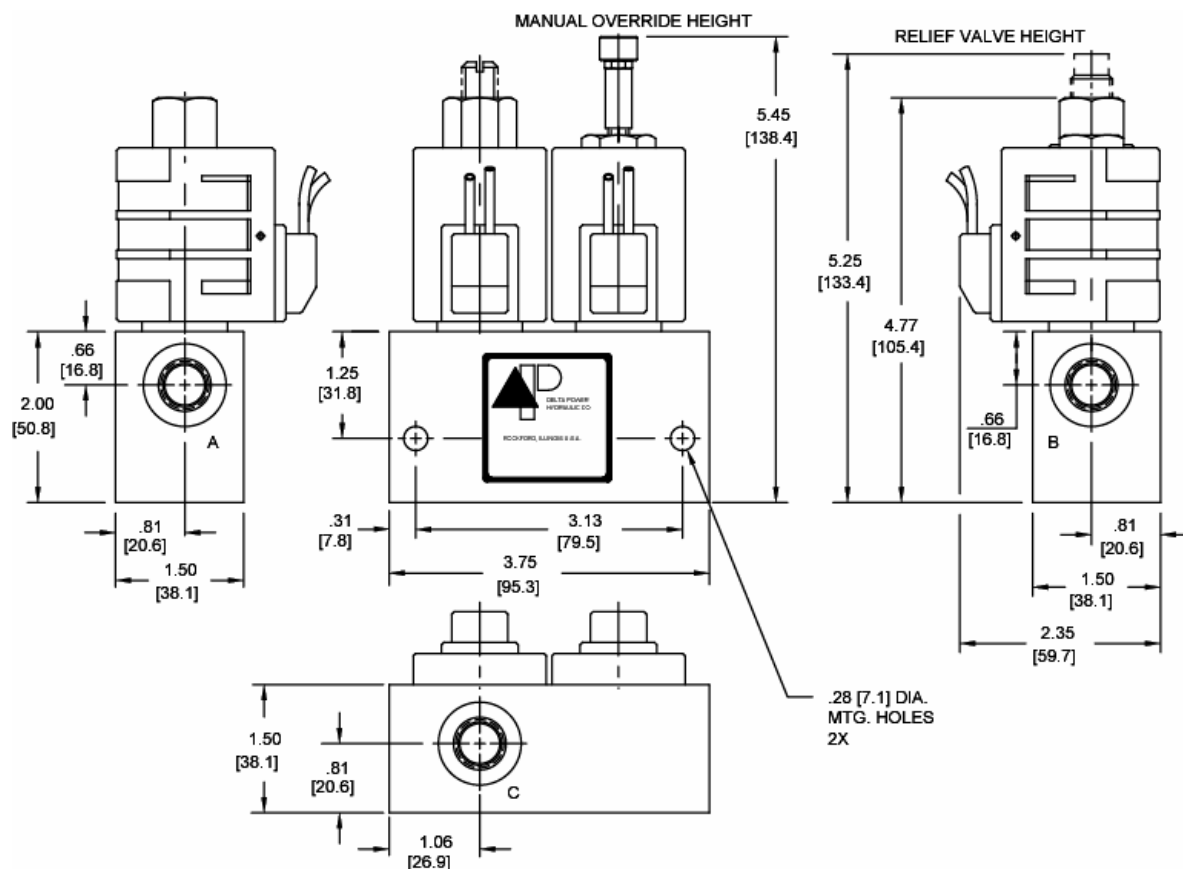
Pre-engineered circuit, option model A\*.

**OPERATION**

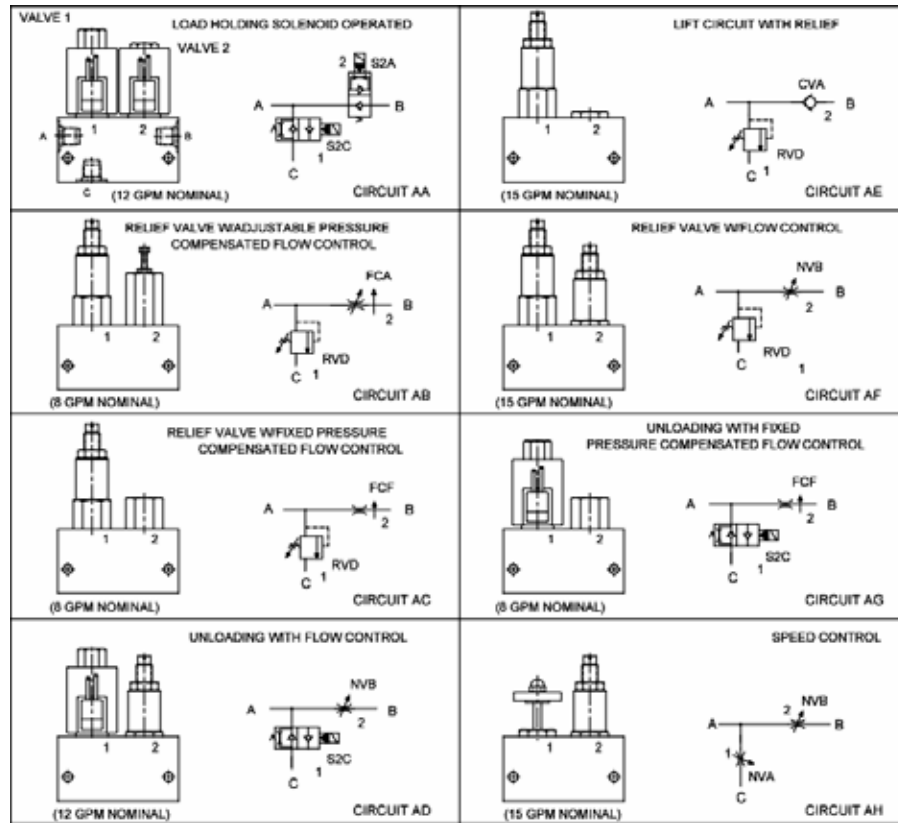
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

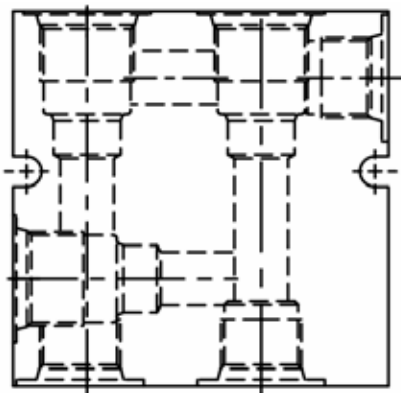
**DIMENSIONS**


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**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>		<u>OPTIONS</u>		<u>VOLTAGE</u>		<u>VALVE 2</u>		<u>VALVE 1</u>	
AA	Buna Standard	00	06	6 VDC	01	.5-1 GPM	02	01	.5-1 GPM
AB	Viton Standard	V0	12	12 VDC	02	1-2 GPM	15	02	1-2 GPM
AC	Manual Override	0M	24	24 VDC	04	2-4 GPM	30	04	2-4 GPM
AD			36	36 VDC	08	4-8 GPM	40	08	4-8 GPM
AE			48	48 VDC	FLOW CONTROL		RELIEF VALVE		
AF			25	25 VAC					
AG			11	120 VAC					
AH			22	220 VAC					
			44	440 VAC					
<u>OIL TERMINATION</u>									
(Except as Noted)									
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**PRE-ENGINEERED CIRCUIT, OPTION MODEL B\***
**BASE BODY - 20200002 = #8 SAE**

**BODY WEIGHT: 1.2 lbs (.54 kg)**
**DESCRIPTION**

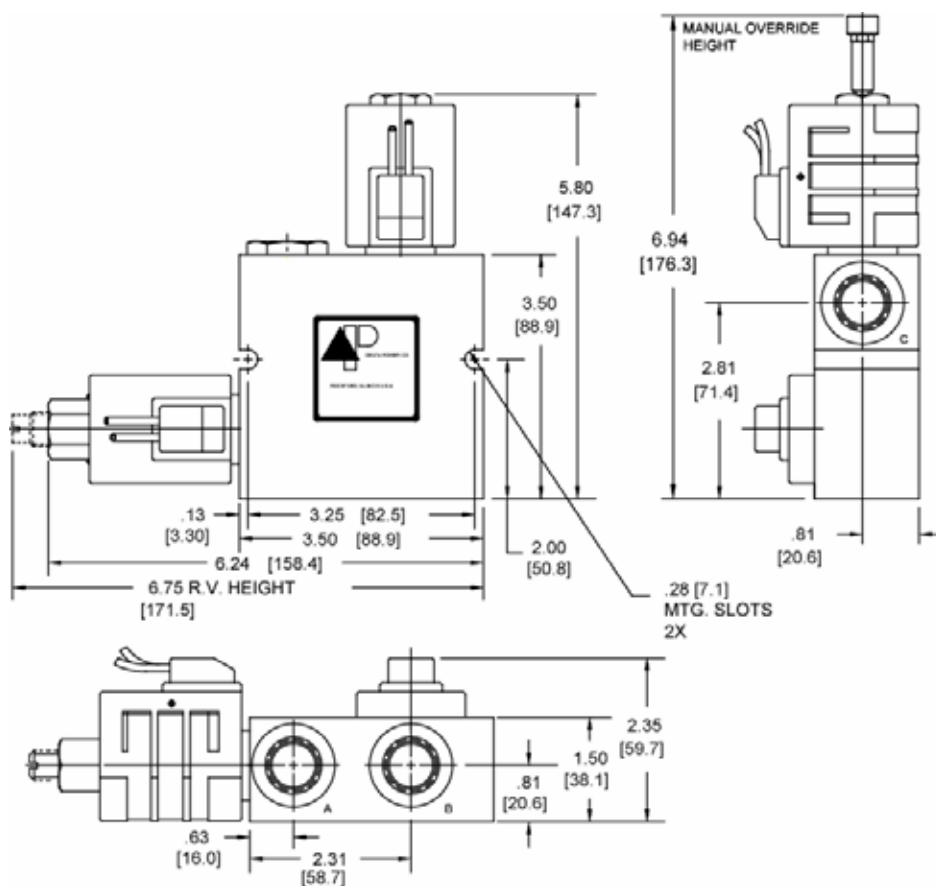
Pre-engineered circuit, option model B\*.

**OPERATION**

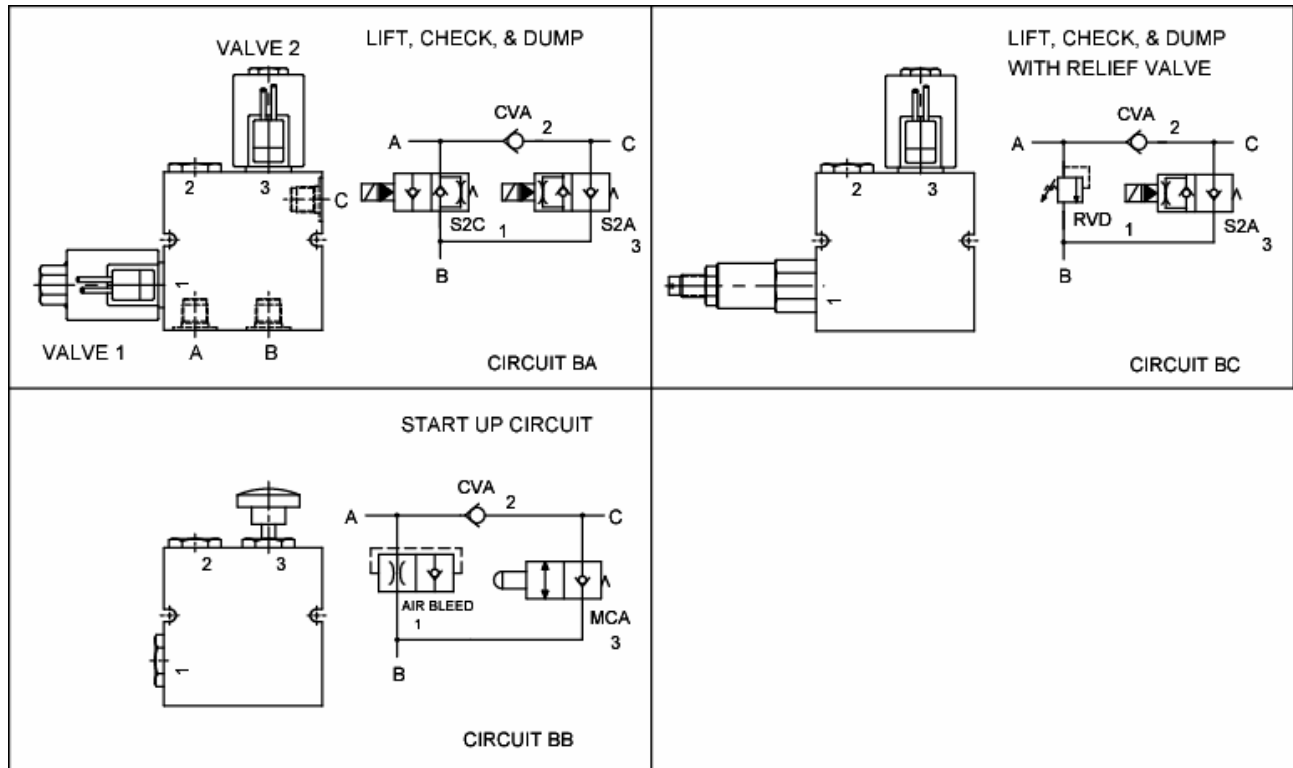
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	12 GPM (48 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


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**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

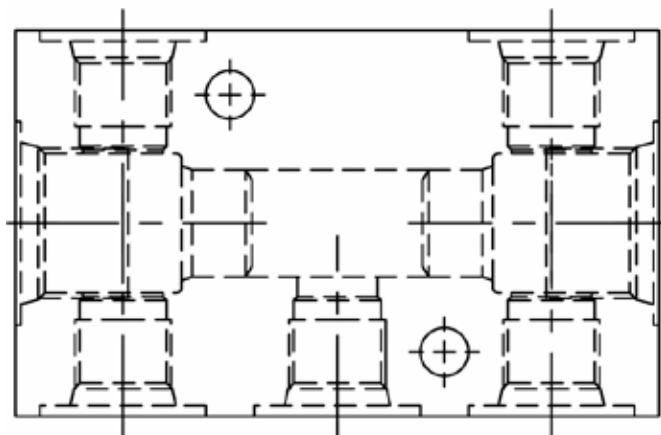
<b><u>CIRCUITS</u></b>		<b><u>OPTIONS</u></b>		<b><u>VOLTAGE</u></b>		<b><u>VALVE 2</u></b>			
BA	Buna Standard	00		06	6 VDC	01	.5-1 GPM	02	20-500 PSI
BB	Viton Standard	V0		12	12 VDC	02	1-2 GPM	15	200-1500 PSI
BC	Manual Override	0M		24	24 VDC	04	2-4 GPM	30	1500-3000 PSI
				36	36 VDC	08	4-8 GPM	40	2500-4000 PSI
				48	48 VDC	<b>FLOW CONTROL</b>		<b>RELIEF VALVE</b>	
				25	25 VAC				
				11	120 VAC	<b><u>VALVE 1</u></b>			
				22	220 VAC	<b><u>FLOW</u></b>		<b><u>PRESSURE</u></b>	
				44	440 VAC	01	.5-1 GPM	02	20-500 PSI
						02	1-2 GPM	15	200-1500 PSI
						04	2-4 GPM	30	1500-3000 PSI
						08	4-8 GPM	40	2500-4000 PSI
						<b>FLOW CONTROL</b>		<b>RELIEF VALVE</b>	

<b><u>OIL TERMINATION</u></b> <i>(Except as Noted)</i>		<b><u>IMMERSION PROOF "D" TYPE</u></b>	
DL	Double Lead	IA	"I" Coil AMP Superseal - Integral
DT	Deutsch on Leads DT04-2P	ID	"I" Coil Deutsch - Integral DT04-2P
ML	Metri-Pack on Leads	IJ	"I" Coil AMP Jr. Timer - Integral
PL	Packard on Leads	IM	"I" Coil Metri-Pack - Integral
WL	Weatherpack on Leads		
SS	Single Spade		
DS	Double Spade		

<b>FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY</b>			
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FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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**PRE-ENGINEERED CIRCUIT, OPTION MODEL C\***
**BASE BODY - 20200003 = #6 SAE**

**BODY WEIGHT: .83 lbs (.37 kg)**
**DESCRIPTION**

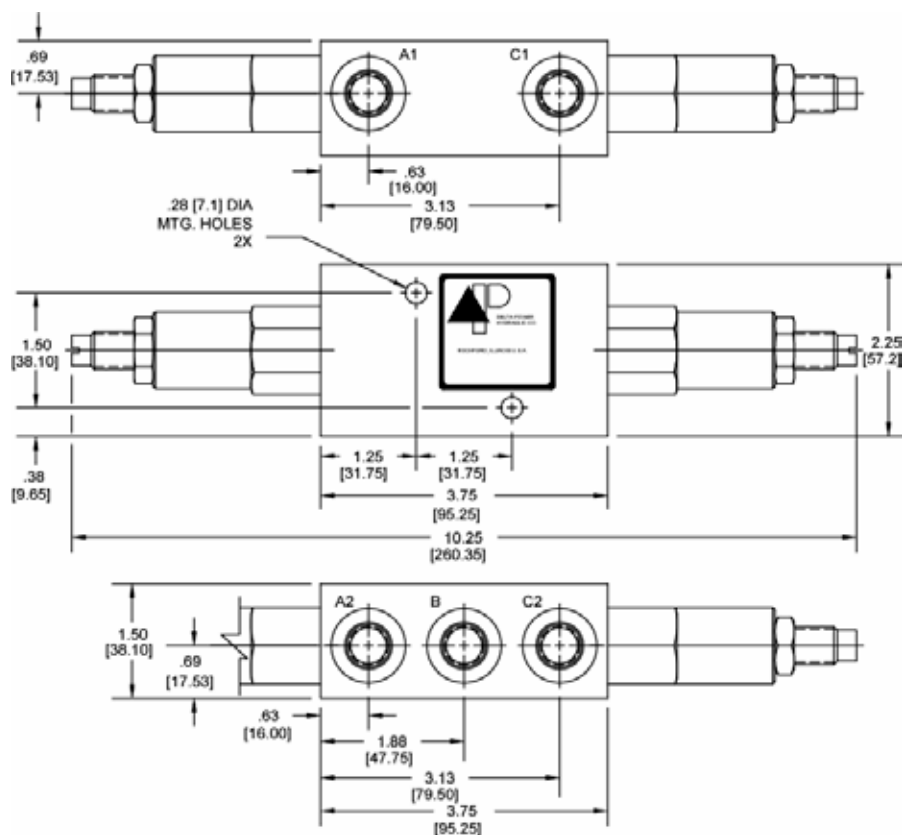
Pre-engineered circuit, option model C\*.

**OPERATION**

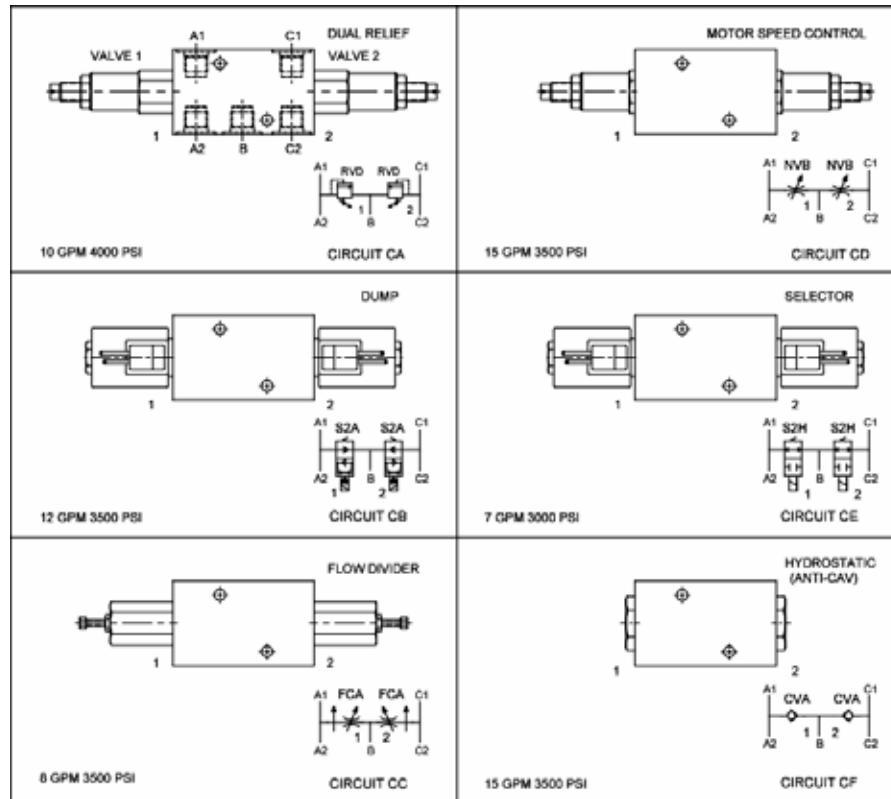
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


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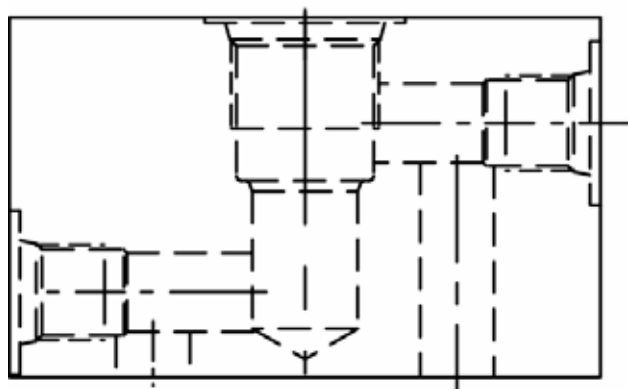
**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>		<u>OPTIONS</u>		<u>VOLTAGE</u>		<u>VALVE 2</u>			
CA	Buna Standard	00	06	6 VDC	01	.5-1 GPM	02	20-500 PSI	
CB	Viton Standard	V0	12	12 VDC	02	1-2 GPM	15	200-1500 PSI	
CC	Manual Override	0M	24	24 VDC	04	2-4 GPM	30	1500-3000 PSI	
CD			36	36 VDC	08	4-8 GPM	40	2500-4000 PSI	
CE			48	48 VDC	FLOW CONTROL				
CF			25	25 VAC	RELIEF VALVE				
			11	120 VAC					
			22	220 VAC					
			44	440 VAC					
<u>OIL TERMINATION</u>						<u>VALVE 1</u>			
(Except as Noted)						<u>FLOW</u>		<u>PRESSURE</u>	
						01	.5-1 GPM	02	20-500 PSI
						02	1-2 GPM	15	200-1500 PSI
						04	2-4 GPM	30	1500-3000 PSI
						08	4-8 GPM	40	2500-4000 PSI
						FLOW CONTROL		RELIEF VALVE	

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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**PRE-ENGINEERED CIRCUIT, OPTION MODEL D\***
**BASE BODY - 20200004 = #6 SAE**

**BODY WEIGHT: .83 lbs (.37 kg)**
**DESCRIPTION**

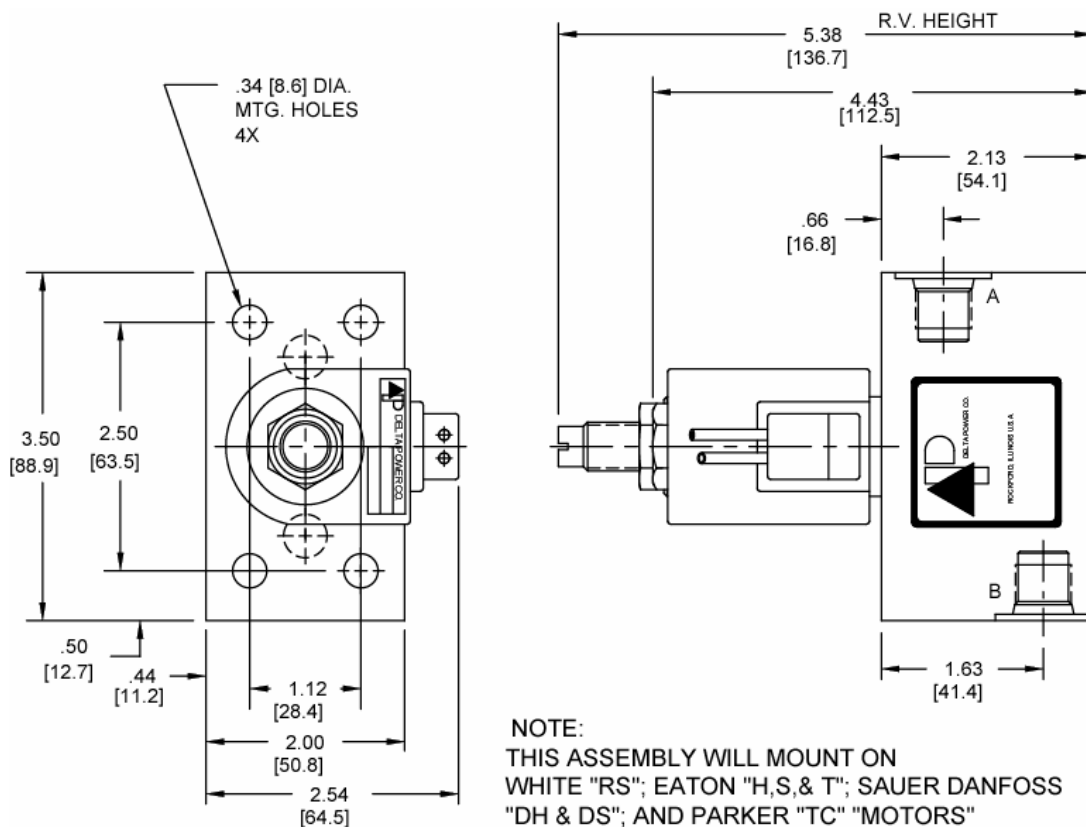
Pre-engineered circuit, option model D\*.

**OPERATION**

See options chart for specific operation.

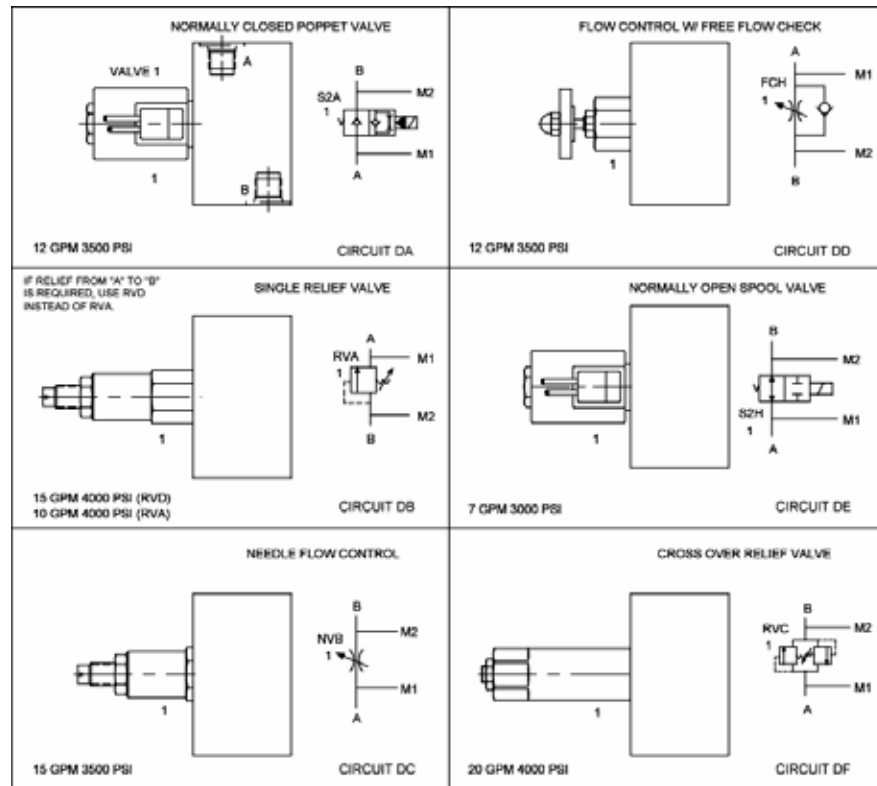
**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

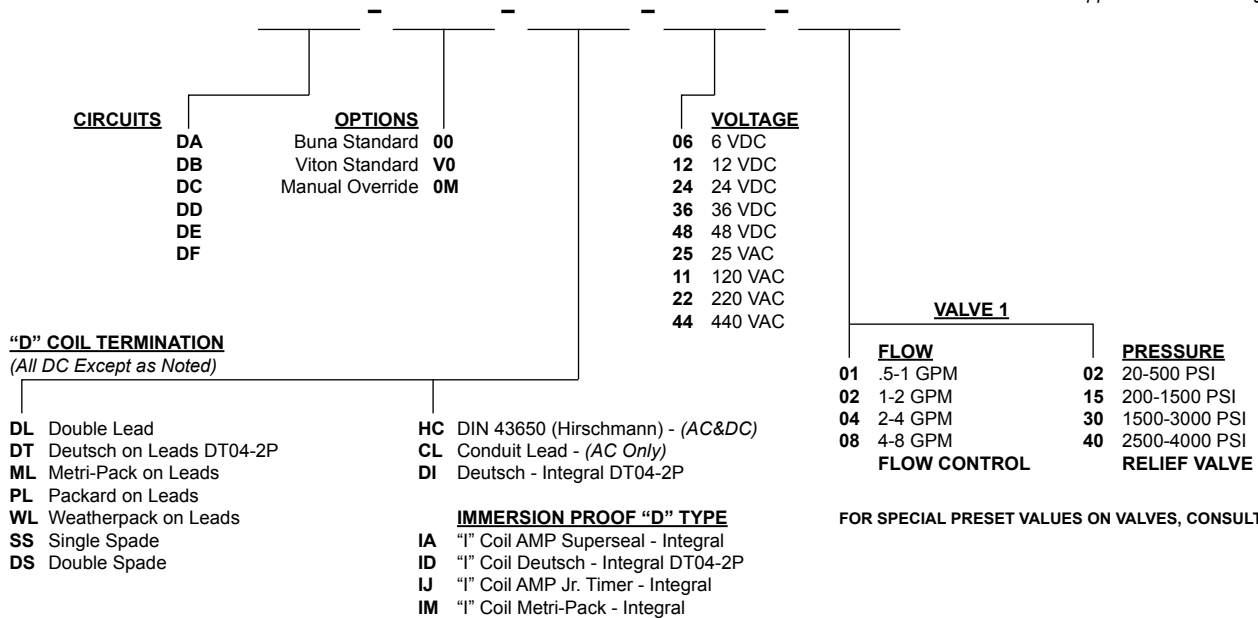
**DIMENSIONS**


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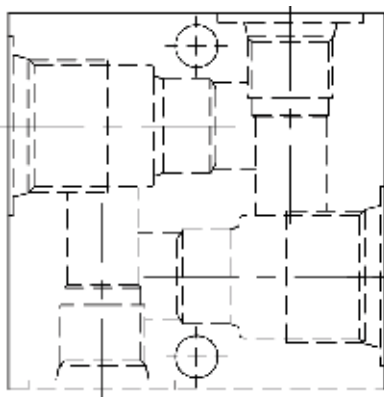


**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)



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**PRE-ENGINEERED CIRCUIT, OPTION MODEL E\***
**BASE BODY - 20200005 = #6 SAE**

**BODY WEIGHT: .75 lbs (.34 kg)**
**DESCRIPTION**

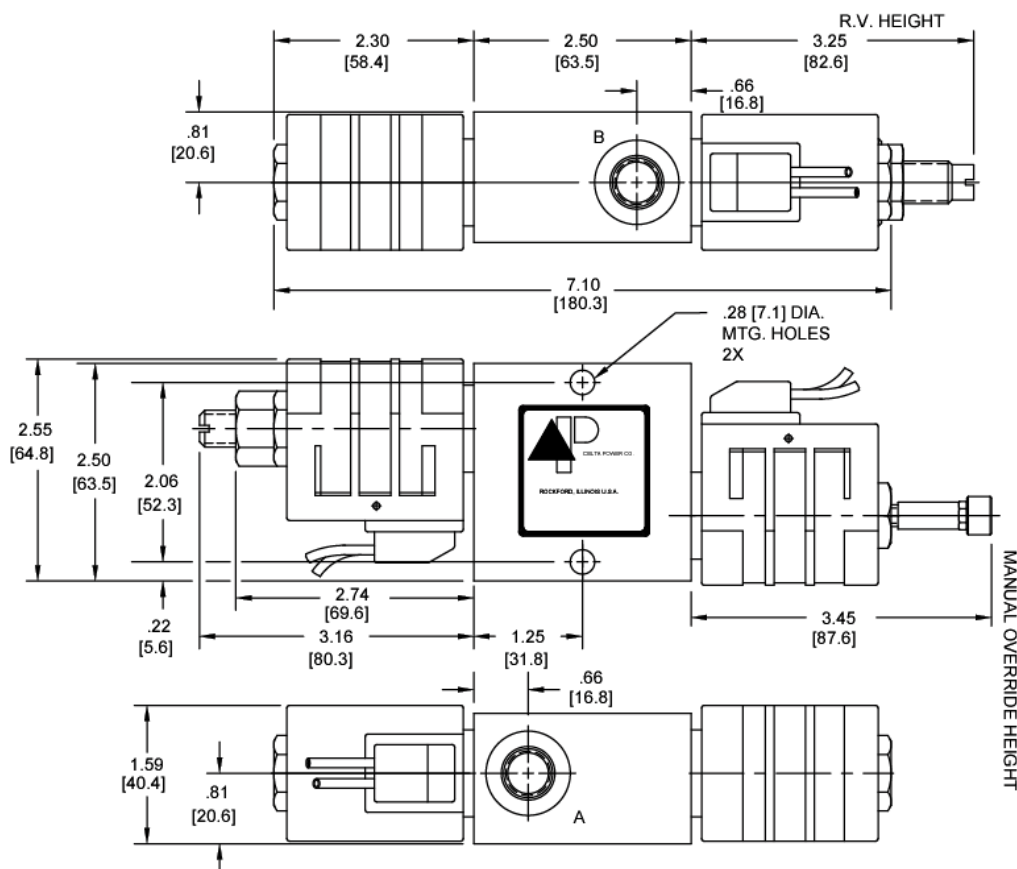
Pre-engineered circuit, option model E\*.

**OPERATION**

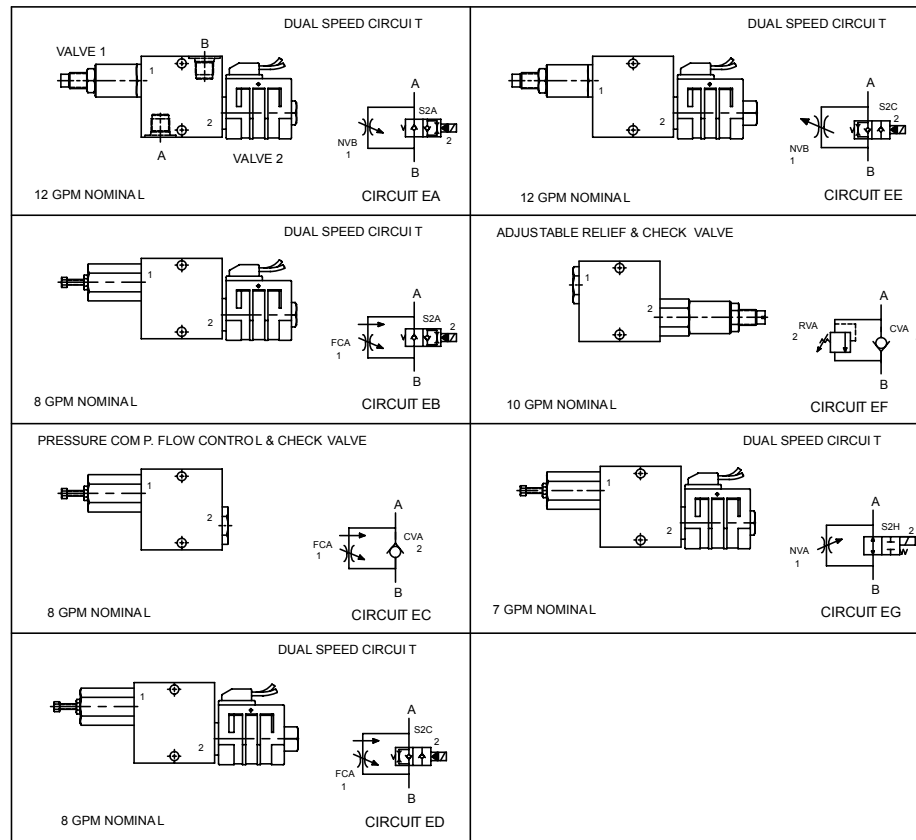
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


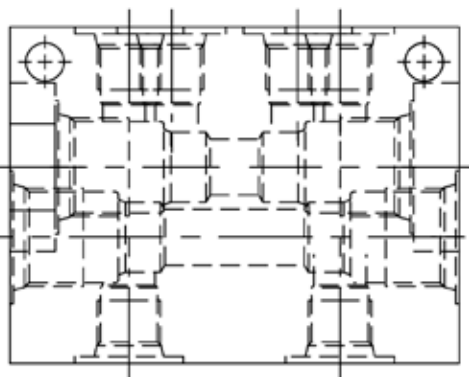
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**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

CIRCUITS	OPTIONS	VOLTAGE	VALVE 2	VALVE 1
EA	Buna Standard 00	06 6 VDC	01 .5-1 GPM	01 .5-1 GPM
EB	Viton Standard V0	12 12 VDC	02 1-2 GPM	02 1-2 GPM
EC	Manual Override 0M	24 24 VDC	04 2-4 GPM	04 2-4 GPM
ED		36 36 VDC	08 4-8 GPM	08 4-8 GPM
EE		48 48 VDC		
EF		25 25 VAC		
EG		11 120 VAC		
		22 220 VAC		
		44 440 VAC		
<b>"D" COIL TERMINATION</b> (All DC Except as Noted)				
DL Double Lead	HC DIN 43650 (Hirschmann) - (AC&DC)			
DT Deutsch on Leads DT04-2P	CL Conduit Lead - (AC Only)			
ML Metri-Pack on Leads	DI Deutsch - Integral DT04-2P			
PL Packard on Leads				
WL Weatherpack on Leads				
SS Single Spade				
DS Double Spade				
	<b>IMMERSION PROOF "D" TYPE</b>			
	IA "I" Coil AMP Superseal - Integral			
	ID "I" Coil Deutsch - Integral DT04-2P			
	IJ "I" Coil AMP Jr. Timer - Integral			
	IM "I" Coil Metri-Pack - Integral			
			<b>FLOW CONTROL</b>	<b>RELIEF VALVE</b>
			02 20-500 PSI	02 20-500 PSI
			15 200-1500 PSI	15 200-1500 PSI
			30 1500-3000 PSI	30 1500-3000 PSI
			40 2500-4000 PSI	40 2500-4000 PSI

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL F\***
**BASE BODY - 20200006 = #6 SAE**

**BODY WEIGHT: 1.5 lbs (.68 kg)**
**DESCRIPTION**

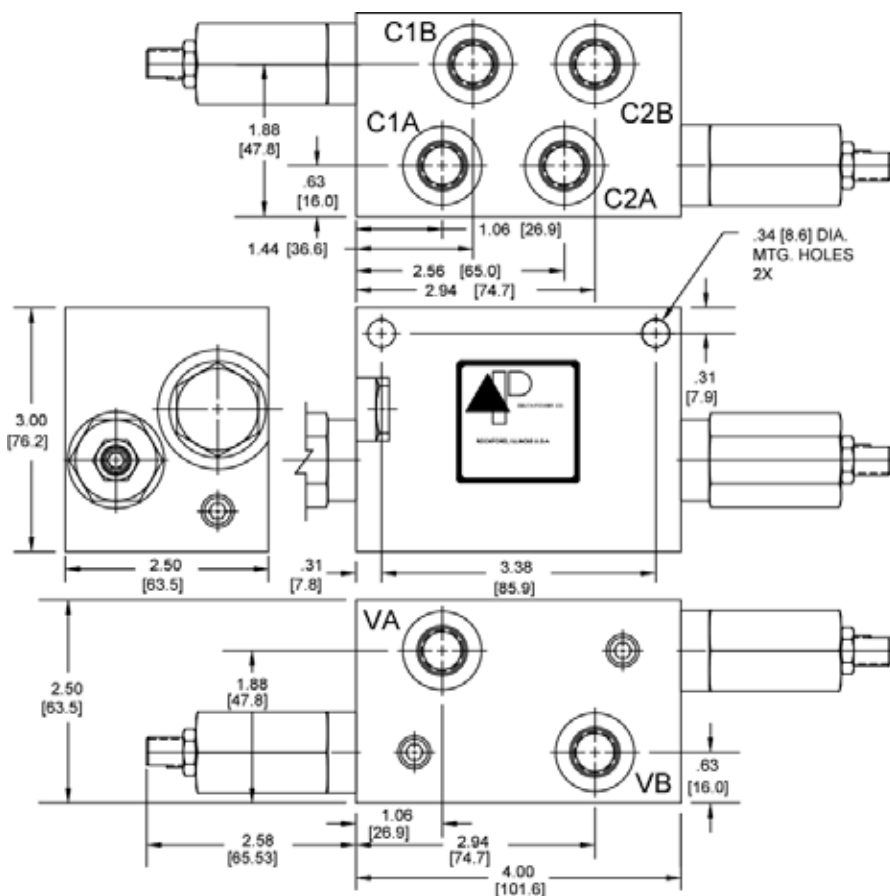
Pre-engineered circuit, option model F\*.

**OPERATION**

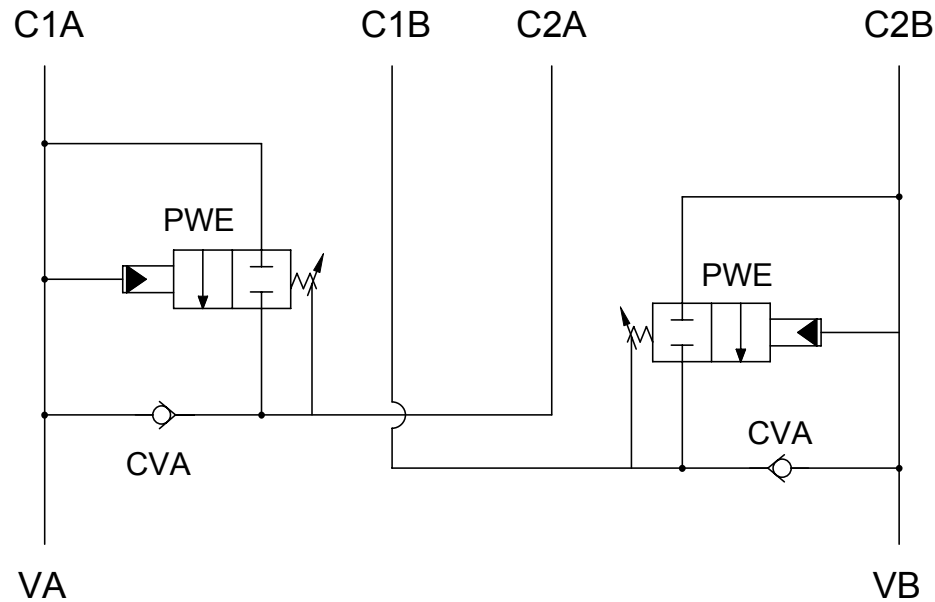
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	9 GPM (34 LPM)
Rated Operating Pressure	50-1500 PSI (4-103 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

**DIMENSIONS**


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**TYPICAL SCHEMATIC**


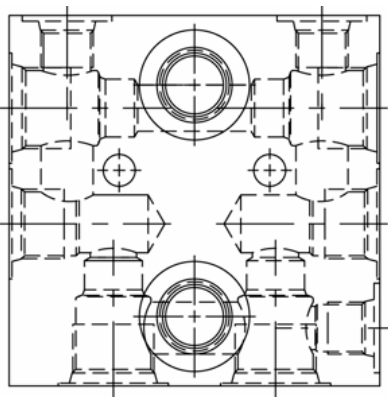
DUAL SEQUENCE VALVE MANIFOLD  
AUTOMATICALLY CONTROLS THE  
SEQUENCING OF TWO CYLINDERS.

CIRCUIT FA

**ORDERING INFORMATION**

CIRCUITS	OPTIONS	VALVE 1 PRESSURE	VALVE 2 PRESSURE
FA	Buna Standard 00 Viton Standard V0	04 50-425 PSI 15 400-1500 PSI	04 50-425 PSI 15 400-1500 PSI

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL G\***
**BASE BODY - 20200007 = #8 SAE**

**BODY WEIGHT: 1.36 lbs (.62 kg)**
**DESCRIPTION**

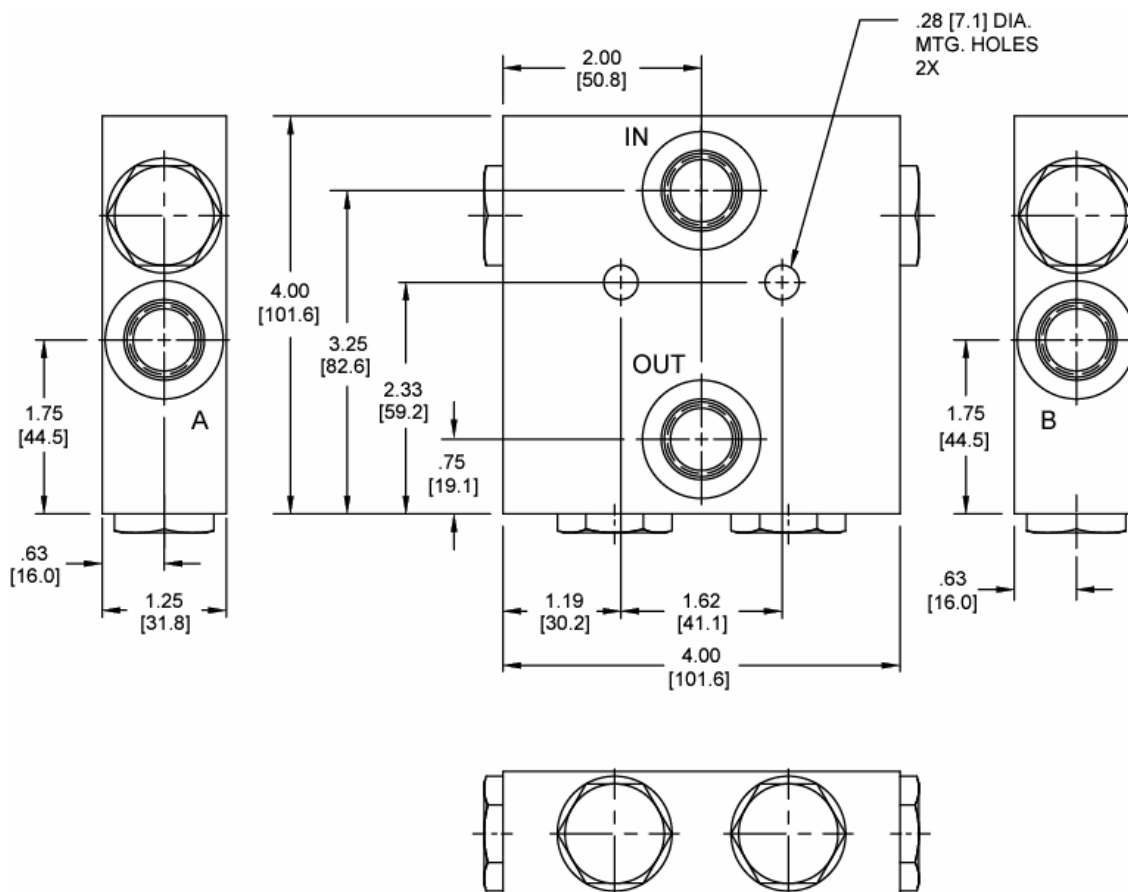
Pre-engineered circuit, option model G\*.

**OPERATION**

See options chart for specific operation.

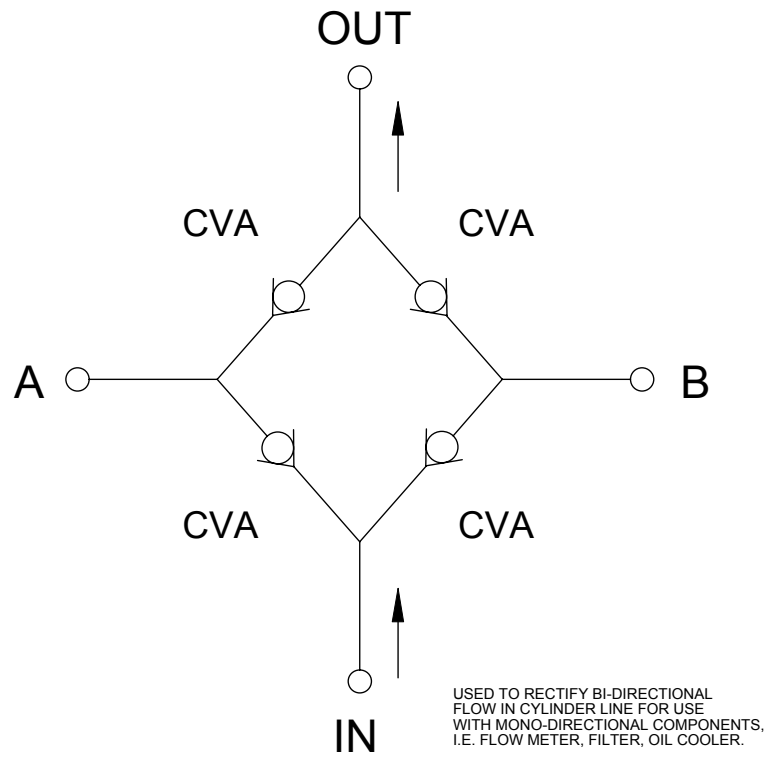
**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

**DIMENSIONS**


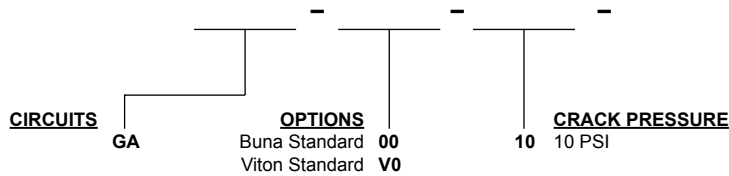
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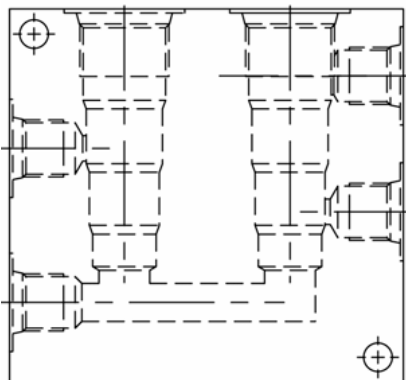
**TYPICAL SCHEMATIC**



CIRCUIT GA RECTIFIER CIRCUIT

**ORDERING INFORMATION**



**PRE-ENGINEERED CIRCUIT, OPTION MODEL H\***
**BASE BODY - 20200008 = #6 SAE**

**BODY WEIGHT: 1.50 lbs (.68 kg)**
**DESCRIPTION**

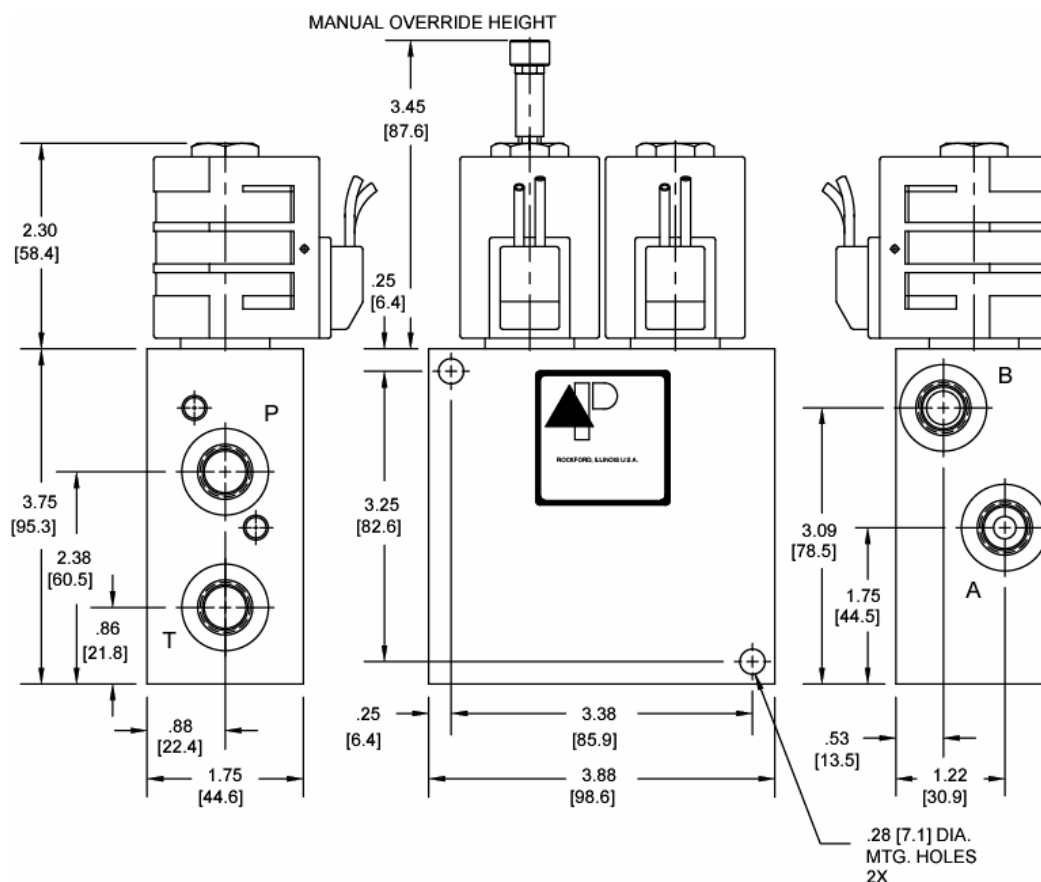
Pre-engineered circuit, option model H\*.

**OPERATION**

See options chart for specific operation.

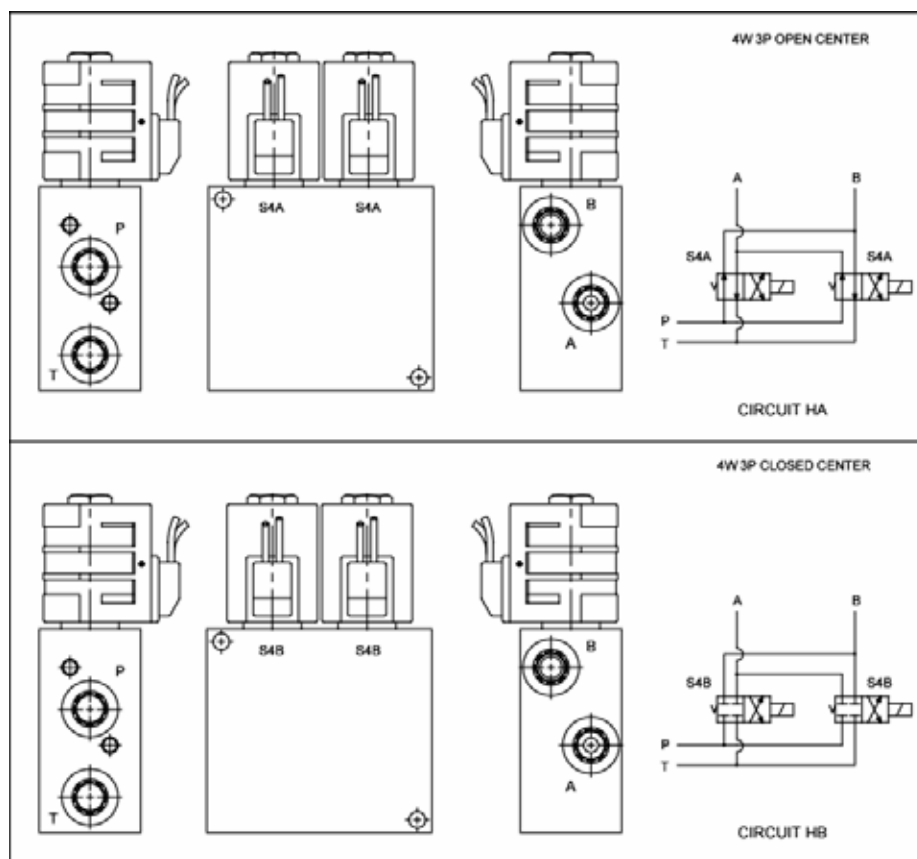
**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


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**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>	<u>OPTIONS</u>	<u>VOLTAGE</u>
HA	Buna Standard <b>00</b>	<b>06</b> 6 VDC
HB	Viton Standard <b>V0</b>	<b>12</b> 12 VDC
	Manual Override <b>0M</b>	<b>24</b> 24 VDC
		<b>36</b> 36 VDC
		<b>48</b> 48 VDC
		<b>25</b> 25 VAC
		<b>11</b> 120 VAC
		<b>22</b> 220 VAC
		<b>44</b> 440 VAC

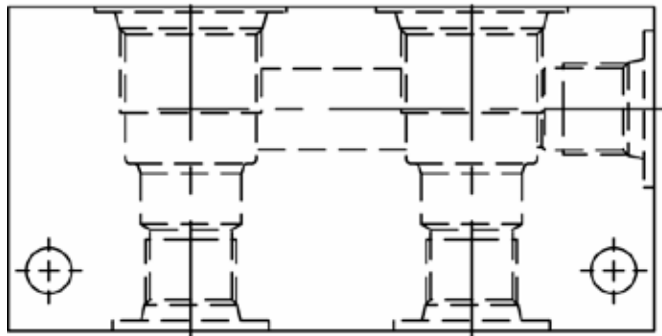
**"D" COIL TERMINATION**  
(All DC Except as Noted)

**DL** Double Lead  
**DT** Deutsch on Leads DT04-2P  
**ML** Metri-Pack on Leads  
**PL** Packard on Leads  
**WL** Weatherpack on Leads

**SS** Single Spade  
**DS** Double Spade  
**HC** DIN 43650 (Hirschmann) - (AC&DC)  
**CL** Conduit Lead - (AC Only)  
**DI** Deutsch - Integral DT04-2P

**IMMERSION PROOF "D" TYPE**

**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

**PRE-ENGINEERED CIRCUIT, OPTION MODEL I\***
**BASE BODY - 20200009 = #6 SAE**

**BODY WEIGHT: .83 lbs (.37 kg)**
**DESCRIPTION**

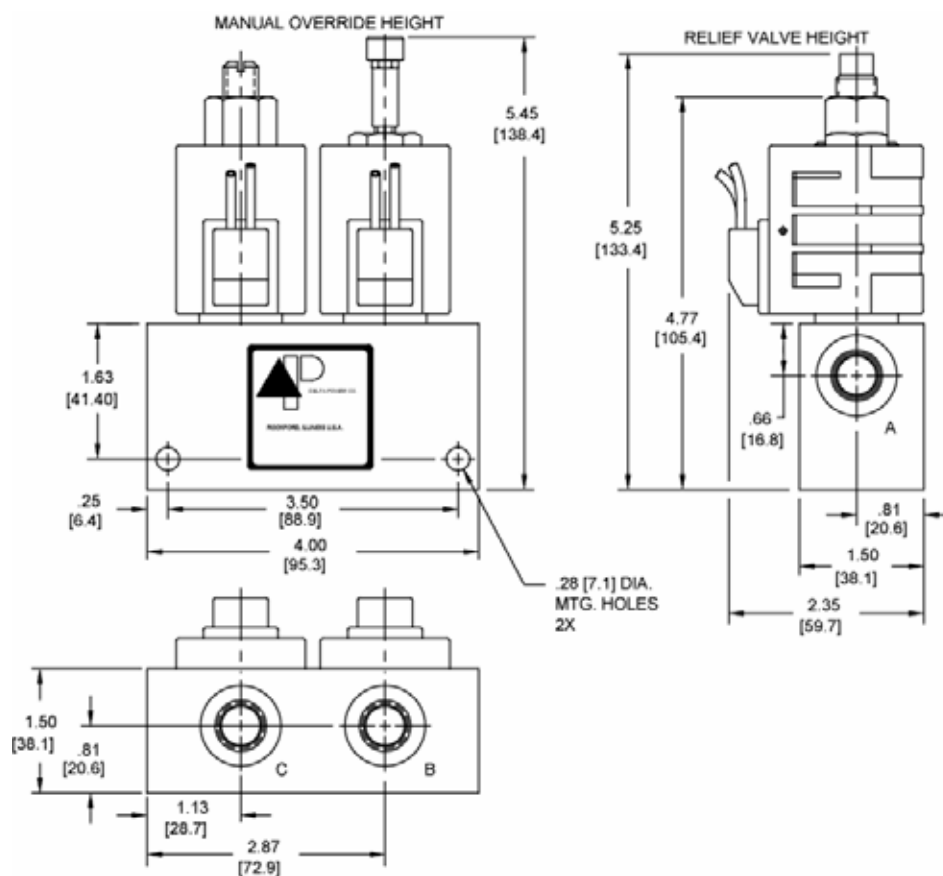
Pre-engineered circuit, option model I\*.

**OPERATION**

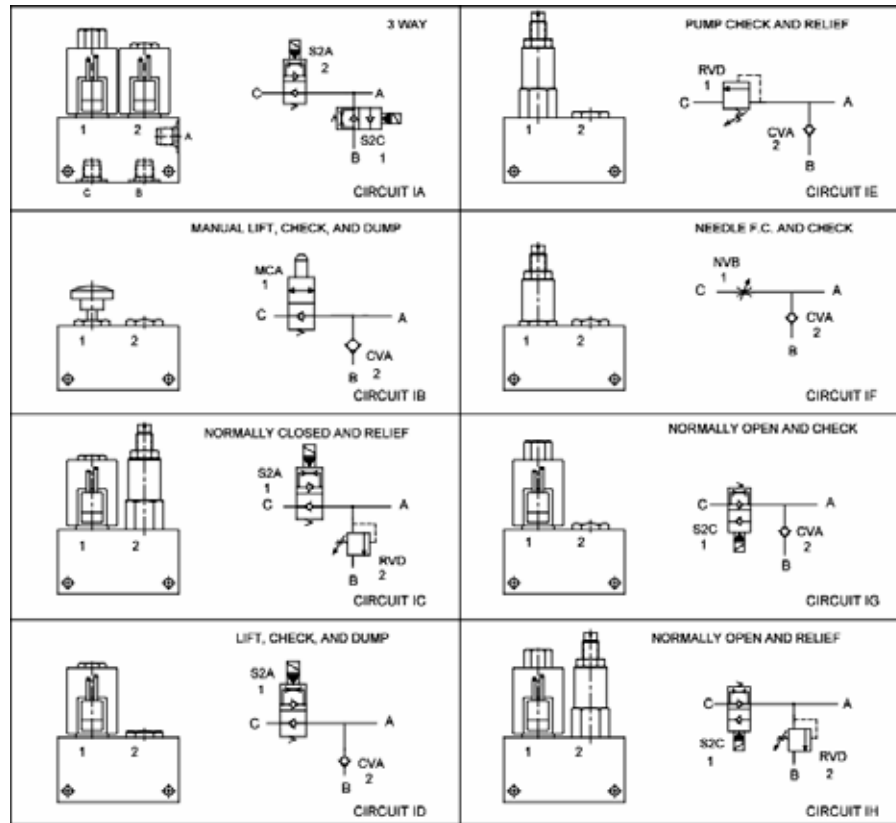
See model options for specific operation (back).

**VALVE SPECIFICATIONS**

Nominal Flow	12 GPM (45 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

**CIRCUITS**

IA  
IB  
IC  
ID  
IE  
IF  
IG  
IH

**OPTIONS**

Buna Standard **00**  
Viton Standard **V0**  
Manual Override **0M**

**VOLTAGE**

**06** 6 VDC  
**12** 12 VDC  
**24** 24 VDC  
**36** 36 VDC  
**48** 48 VDC  
**25** 25 VAC  
**11** 120 VAC  
**22** 220 VAC  
**44** 440 VAC

**VALVE 2**
**FLOW**

**01** .5-1 GPM  
**02** 1-2 GPM  
**04** 2-4 GPM  
**08** 4-8 GPM

**FLOW CONTROL**
**PRESSURE**

**02** 20-500 PSI  
**15** 200-1500 PSI  
**30** 1500-3000 PSI  
**40** 2500-4000 PSI

**RELIEF VALVE**
**VALVE 1**
**FLOW**

**01** .5-1 GPM  
**02** 1-2 GPM  
**04** 2-4 GPM  
**08** 4-8 GPM

**FLOW CONTROL**
**PRESSURE**

**02** 20-500 PSI  
**15** 200-1500 PSI  
**30** 1500-3000 PSI  
**40** 2500-4000 PSI

**RELIEF VALVE**
**"D" COIL TERMINATION**  
(All DC Except as Noted)

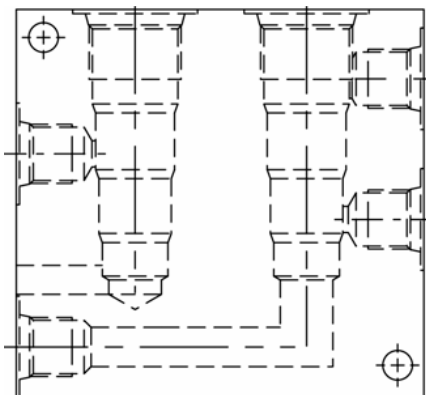
**DL** Double Lead  
**DT** Deutsch on Leads DT04-2P  
**ML** Metri-Pack on Leads  
**PL** Packard on Leads  
**WL** Weatherpack on Leads  
**SS** Single Spade  
**DS** Double Spade

**HC** DIN 43650 (Hirschmann) - (AC&DC)  
**CL** Conduit Lead - (AC Only)  
**DI** Deutsch - Integral DT04-2P

**IMMERSION PROOF "D" TYPE**

**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL J\***
**BASE BODY - 20200010 = #6 SAE**

**BODY WEIGHT: 1.50 lbs (.68 kg)**
**DESCRIPTION**

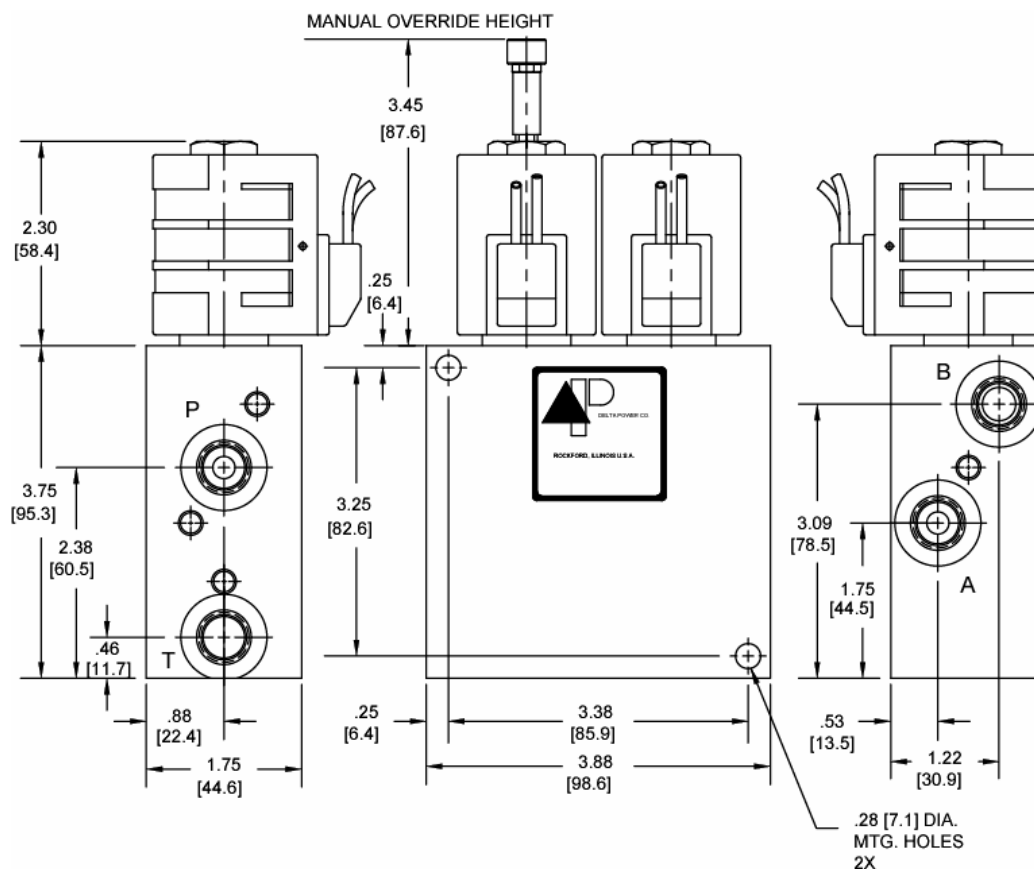
Pre-engineered circuit, option model J\*.

**OPERATION**

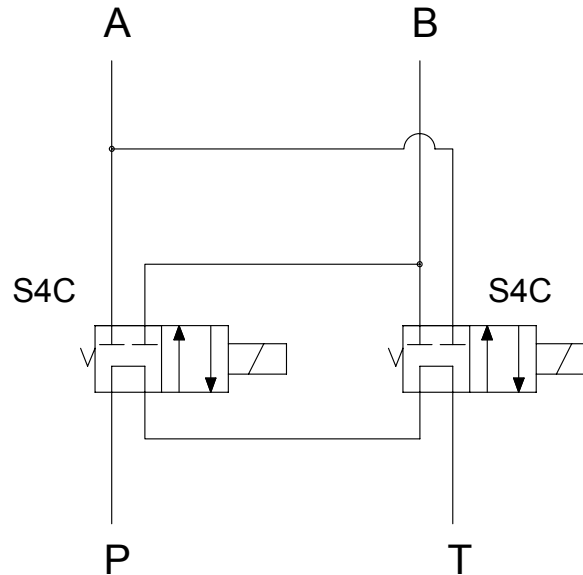
See typical schematic for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	3000 PSI (207 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


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**TYPICAL SCHEMATIC**
**4W 3P TANDEM CENTER**

**CIRCUIT JA**
**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>	<u>OPTIONS</u>	<u>VOLTAGE</u>
JA	Buna Standard 00 Viton Standard V0 Manual Override 0M	06 6 VDC 12 12 VDC 24 24 VDC 36 36 VDC 48 48 VDC 25 25 VAC 11 120 VAC 22 220 VAC 44 440 VAC

**"D" COIL TERMINATION**  
(All DC Except as Noted)

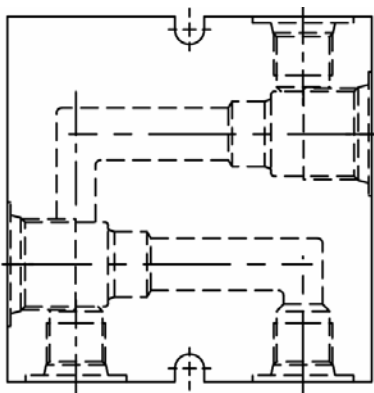
**DL** Double Lead  
**DT** Deutsch on Leads DT04-2P  
**ML** Metri-Pack on Leads  
**PL** Packard on Leads  
**WL** Weatherpack on Leads

**SS** Single Spade  
**DS** Double Spade  
**HC** DIN 43650 (Hirschmann) - (AC&DC)  
**CL** Conduit Lead - (AC Only)  
**DI** Deutsch - Integral DT04-2P

**IMMERSION PROOF "D" TYPE**

**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**PRE-ENGINEERED CIRCUIT, OPTION MODEL K\***
**BASE BODY - 20200011 = #6 SAE**

**BODY WEIGHT: 1.50 lbs (.68 kg)**
**DESCRIPTION**

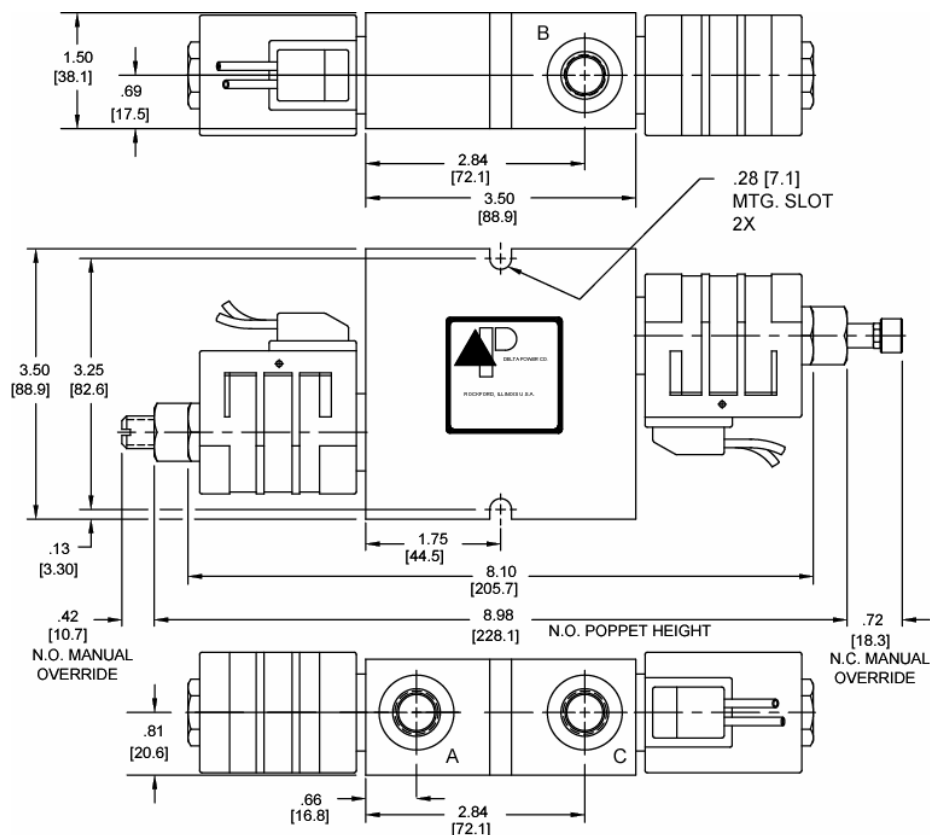
Pre-engineered circuit, option model K\*.

**OPERATION**

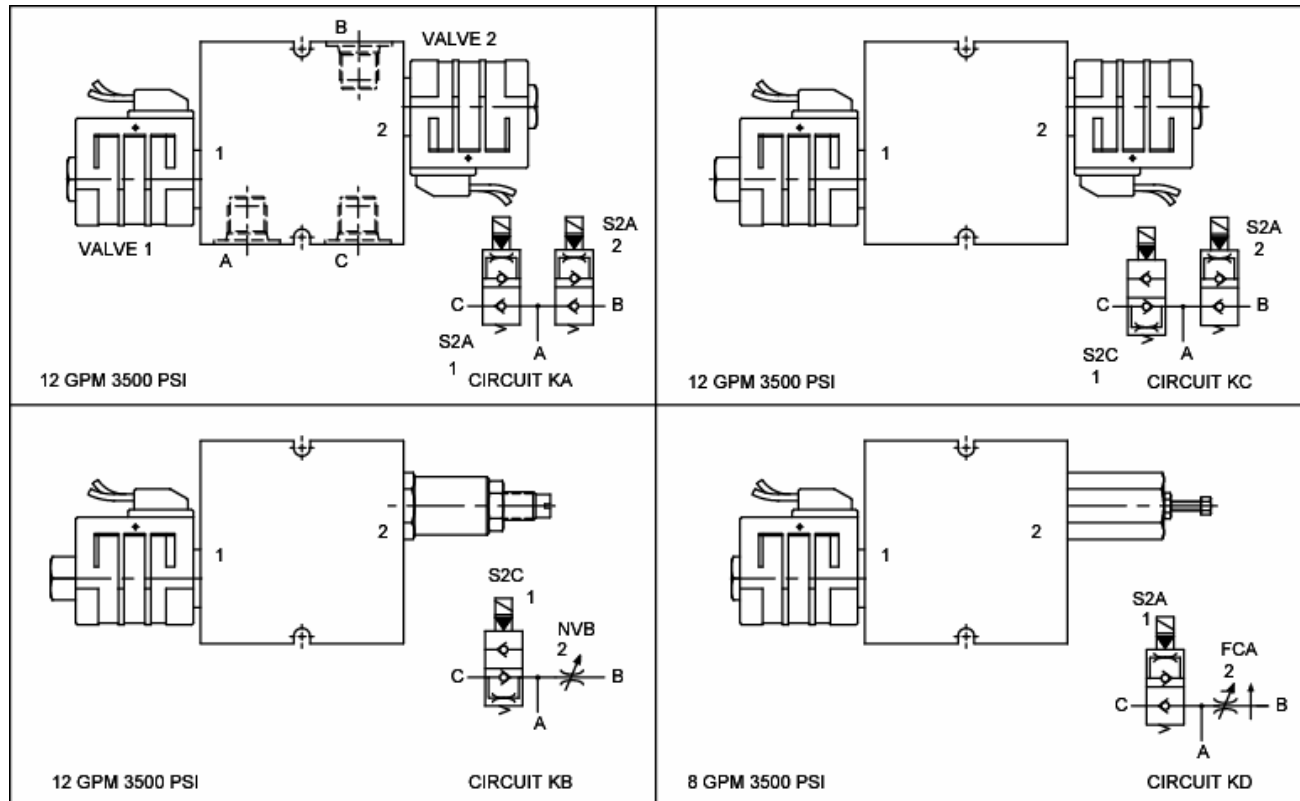
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>		<u>OPTIONS</u>		<u>VOLTAGE</u>		<u>VALVE 2</u>		<u>VALVE 1</u>	
KA	Buna Standard	00	06	6 VDC	01	.5-1 GPM	02	01	.5-1 GPM
KB	Viton Standard	V0	12	12 VDC	02	1-2 GPM	15	02	1-2 GPM
KC	Manual Override	0M	24	24 VDC	04	2-4 GPM	30	04	2-4 GPM
KD			36	36 VDC	08	4-8 GPM	40	08	4-8 GPM
KE			48	48 VDC	<u>FLOW CONTROL</u>		<u>RELIEF VALVE</u>		
			25	25 VAC					
			11	120 VAC					
			22	220 VAC					
			44	440 VAC					

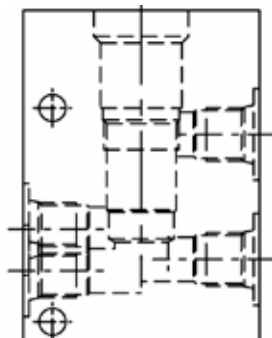
<u>OIL TERMINATION</u> <i>(Except as Noted)</i>		<u>IMMERSION PROOF "D" TYPE</u>	
DL Double Lead	HC DIN 43650 (Hirschmann) - (AC&DC)	IA "I" Coil AMP Superseal - Integral	
DT Deutsch on Leads DT04-2P	CL Conduit Lead - (AC Only)	ID "I" Coil Deutsch - Integral DT04-2P	
ML Metri-Pack on Leads	DI Deutsch - Integral DT04-2P	IJ "I" Coil AMP Jr. Timer - Integral	
PL Packard on Leads		IM "I" Coil Metri-Pack - Integral	
WL Weatherpack on Leads			
SS Single Spade			
DS Double Spade			

<u>VALVE 2</u>		<u>VALVE 1</u>	
01	.5-1 GPM	01	.5-1 GPM
02	1-2 GPM	02	1-2 GPM
04	2-4 GPM	04	2-4 GPM
08	4-8 GPM	08	4-8 GPM
<u>FLOW CONTROL</u>		<u>FLOW CONTROL</u>	
02	20-500 PSI	02	20-500 PSI
15	200-1500 PSI	15	200-1500 PSI
30	1500-3000 PSI	30	1500-3000 PSI
40	2500-4000 PSI	40	2500-4000 PSI
<u>RELIEF VALVE</u>		<u>RELIEF VALVE</u>	

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**PRE-ENGINEERED CIRCUIT, OPTION MODEL L\***
**BASE BODY - 20200012 = #6 SAE**

**BODY WEIGHT: 1.80 lbs (.82 kg)**
**DESCRIPTION**

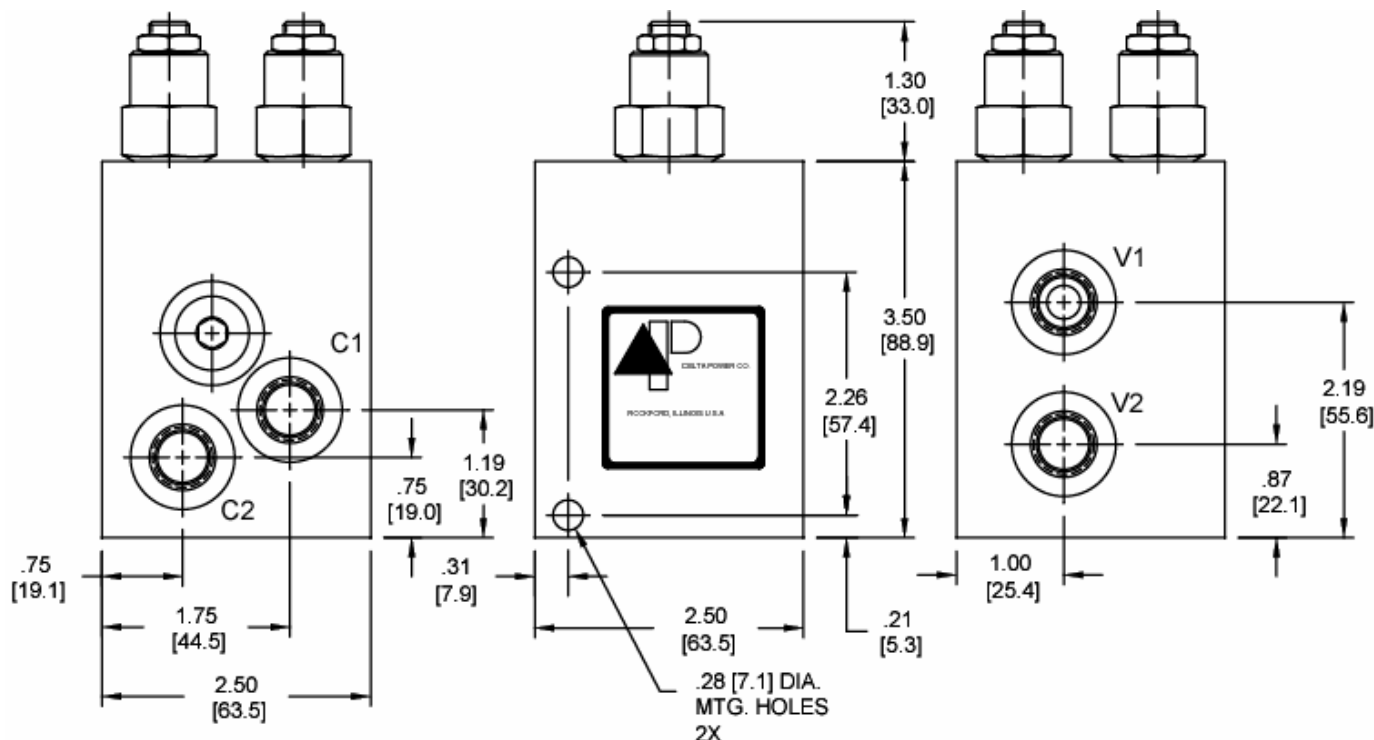
Pre-engineered circuit, option model L\*.

**OPERATION**

See typical schematic for specific operation.

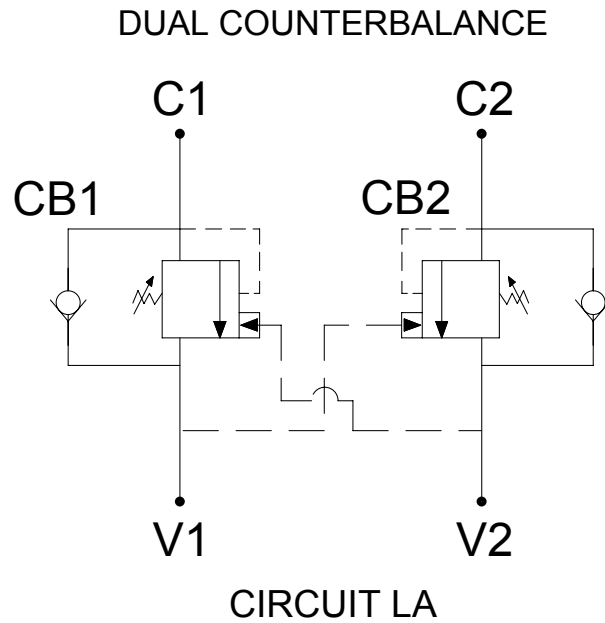
**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (60 LPM)
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Special Series M20X1.5-H6
	Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

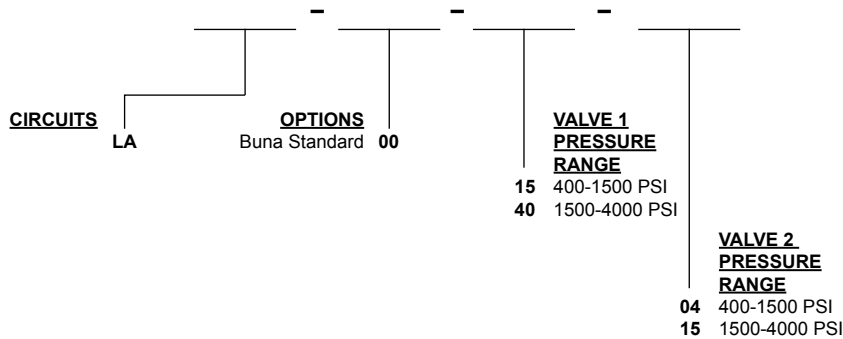
**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



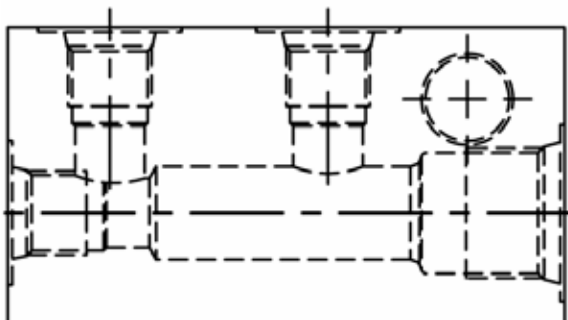
**TYPICAL SCHEMATIC**

**ORDERING INFORMATION**

*Approximate Coil Weight: .74 lbs (.33 kg)*



Note: Aluminum Bodies are NOT durability rated for 4000 PSI (276 bar). Consult factory for body options.

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL M\***
**BASE BODY - 20200013 = #6 SAE**

**BODY WEIGHT: 1.09 lbs (.49 kg)**
**DESCRIPTION**

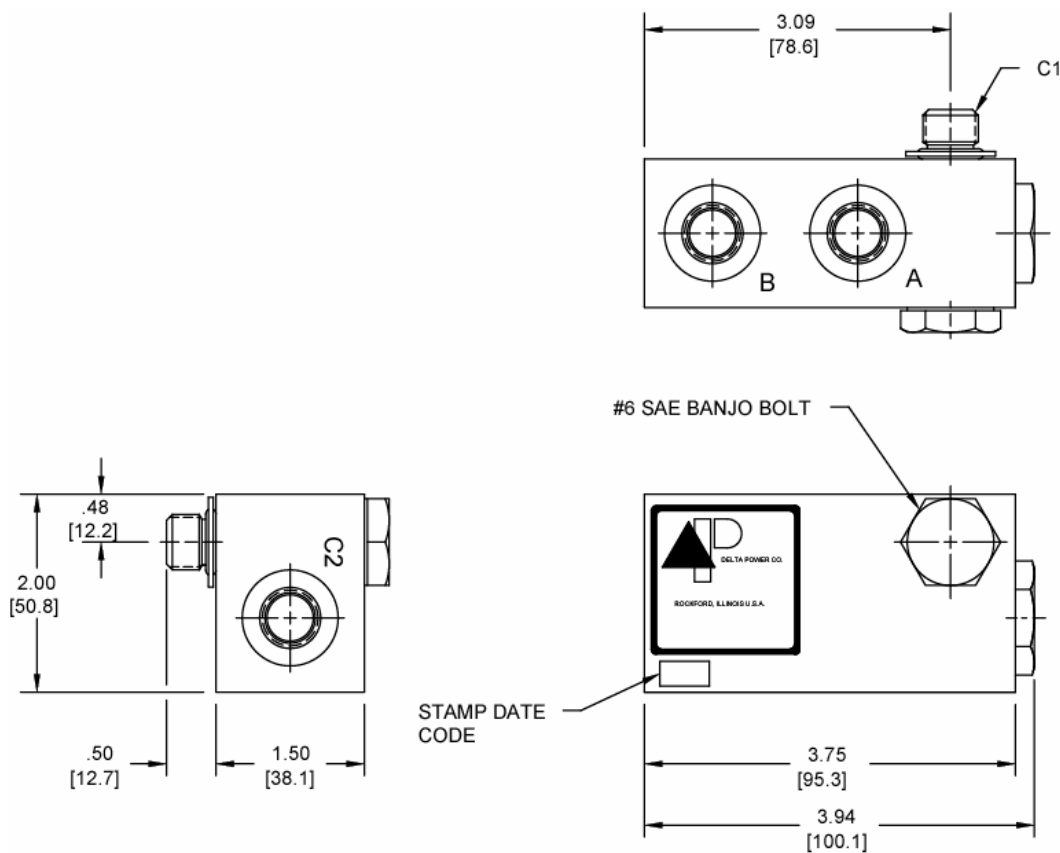
Pre-engineered circuit, option model M\*.

**OPERATION**

See typical schematic for specific operation.

**VALVE SPECIFICATIONS**

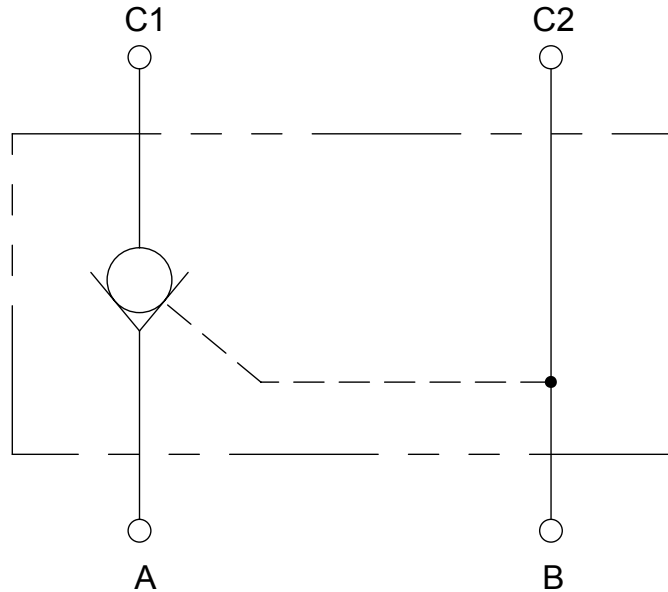
Nominal Flow	12 GPM (45 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Ratio	4:1
Cartridge Size	M20 X 1.5
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

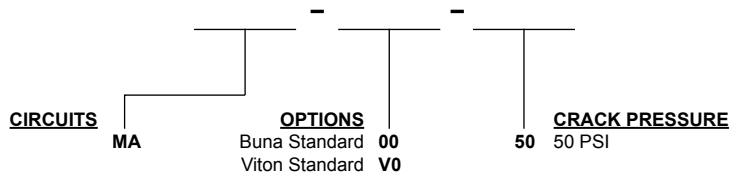
TYPICAL SCHEMATIC

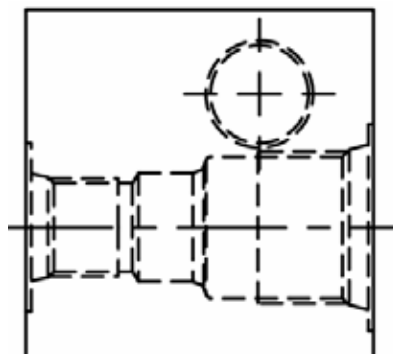
P.O. CHECK CIRCUIT  
4:1 RATIO



CIRCUIT MA

ORDERING INFORMATION



**PRE-ENGINEERED CIRCUIT, OPTION MODEL N\***
**BASE BODY - 20200014 = #6 SAE**

**BODY WEIGHT: 1.09 lbs (.49 kg)**
**DESCRIPTION**

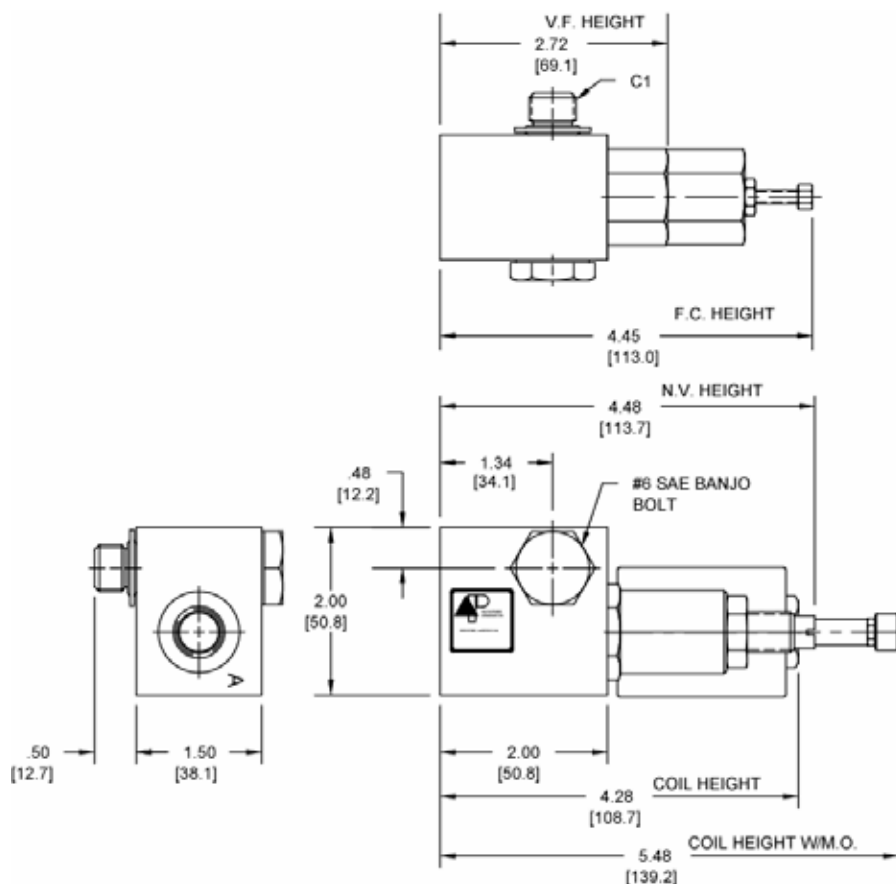
Pre-engineered circuit, option model N\*.

**OPERATION**

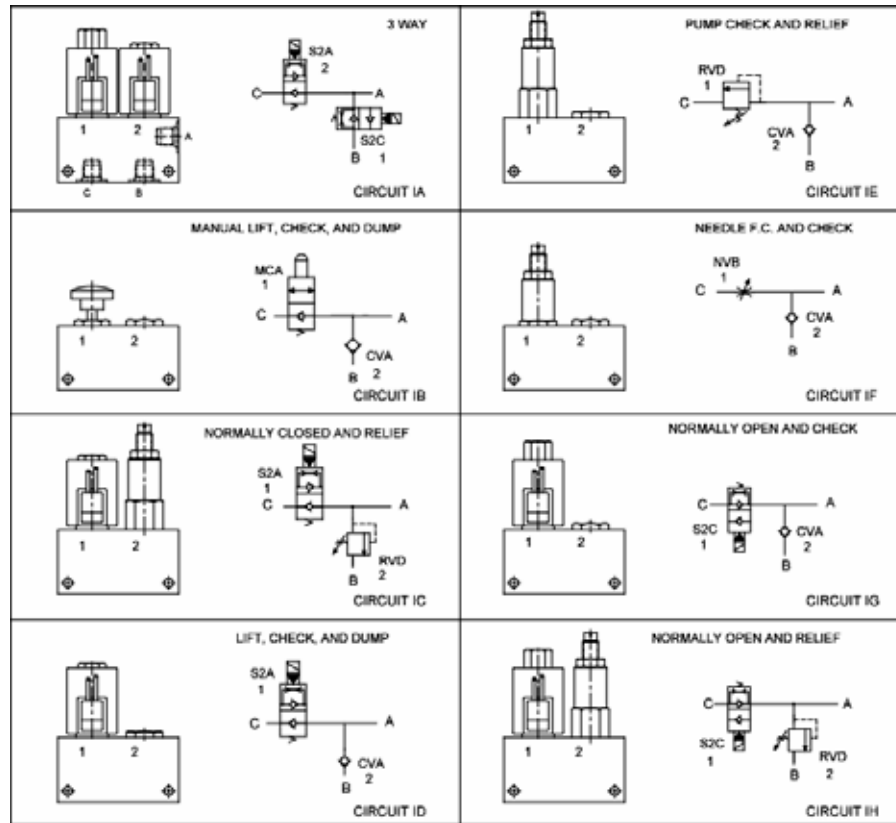
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

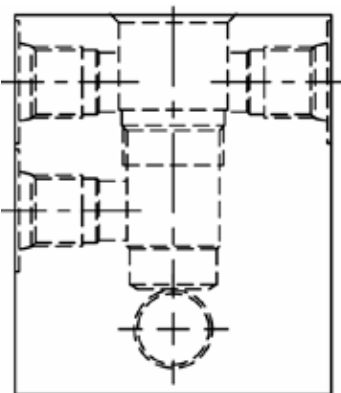
CIRCUITS		OPTIONS		VOLTAGE		FLOW		PRESSURE	
NA	Buna Standard	00		06	6 VDC	01	1 GPM	02	20-500 PSI
NB	Viton Standard	V0		12	12 VDC	02	2 GPM	15	200-1500 PSI
NC	Manual Override	OM		24	24 VDC	03	3 GPM	30	1500-3000 PSI
ND				36	36 VDC	04	4 GPM	40	2500-4000 PSI
NE				48	48 VDC	05	5 GPM	<b>RELIEF VALVE</b>	
				25	25 VAC	06	6 GPM		
				11	120 VAC	07	7 GPM		
				22	220 VAC	08	8 GPM		
				44	440 VAC	09	9 GPM		
						10	10 GPM	<b>FLOW CONTROL</b>	

**"D" COIL TERMINATION**  
(All DC Except as Noted)

<b>DL</b> Double Lead	<b>SS</b> Single Spade
<b>DT</b> Deutsch on Leads DT04-2P	<b>DS</b> Double Spade
<b>ML</b> Metri-Pack on Leads	<b>HC</b> DIN 43650 (Hirschmann) - (AC&DC)
<b>PL</b> Packard on Leads	<b>CL</b> Conduit Lead - (AC Only)
<b>WL</b> Weatherpack on Leads	<b>DI</b> Deutsch - Integral DT04-2P

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**IMMERSION PROOF "D" TYPE**  
**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

**PRE-ENGINEERED CIRCUIT, OPTION MODEL O\***
**BASE BODY - 20200015 = #6 SAE**

**BODY WEIGHT: 1.09 lbs (.49 kg)**
**DESCRIPTION**

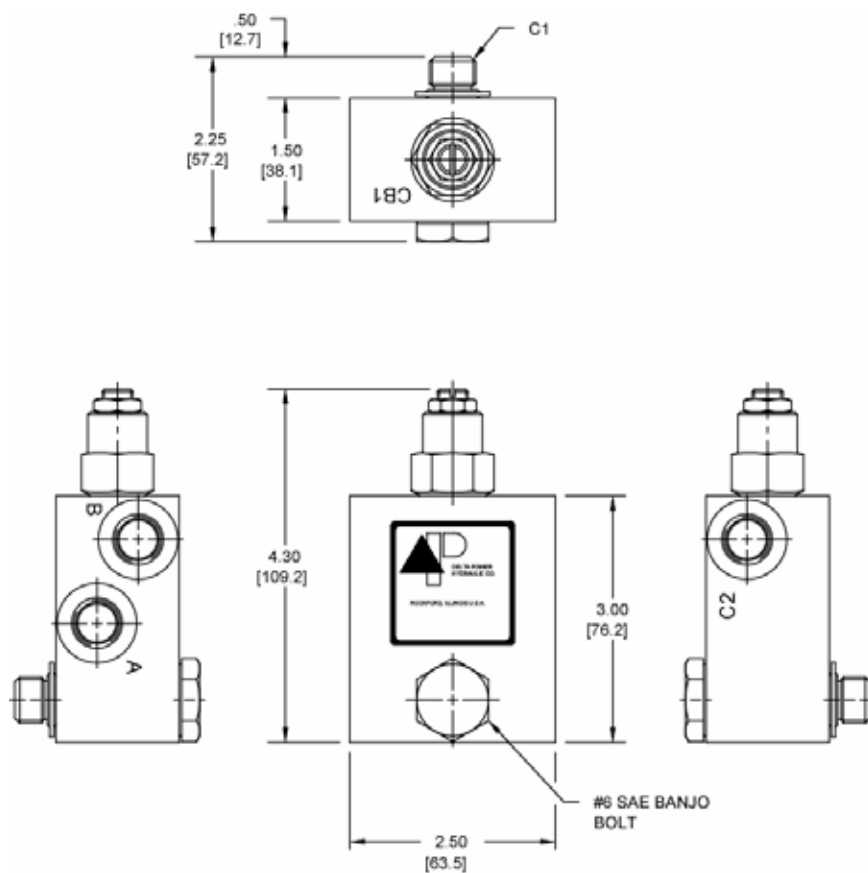
Pre-engineered circuit, option model O\*.

**OPERATION**

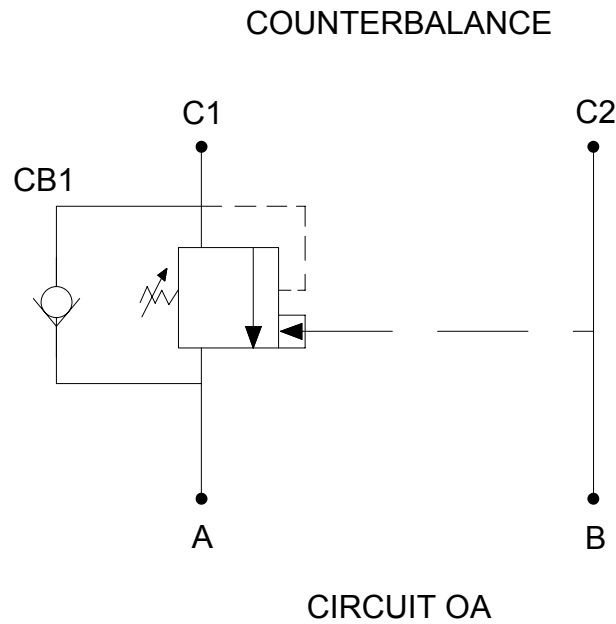
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	M20 X 1.5
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

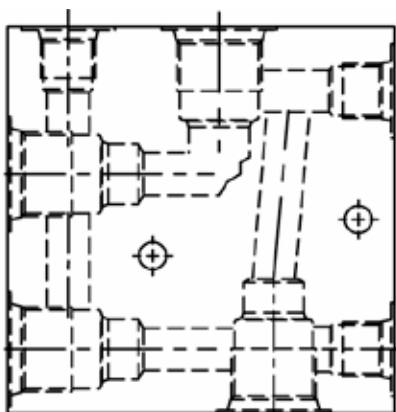
**DIMENSIONS**


**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**TYPICAL SCHEMATIC**

**ORDERING INFORMATION**

<u>CIRCUITS</u>	<u>OPTIONS</u>	<u>PRESSURE RANGE</u>
OA	Buna Standard 00 Viton Standard V0	15 400-1500 PSI 40 1500-4000 PSI

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL P\***
**BASE BODY - 20200017 = #6 SAE**

**BODY WEIGHT: 1.5 lbs (.68 kg)**
**DESCRIPTION**

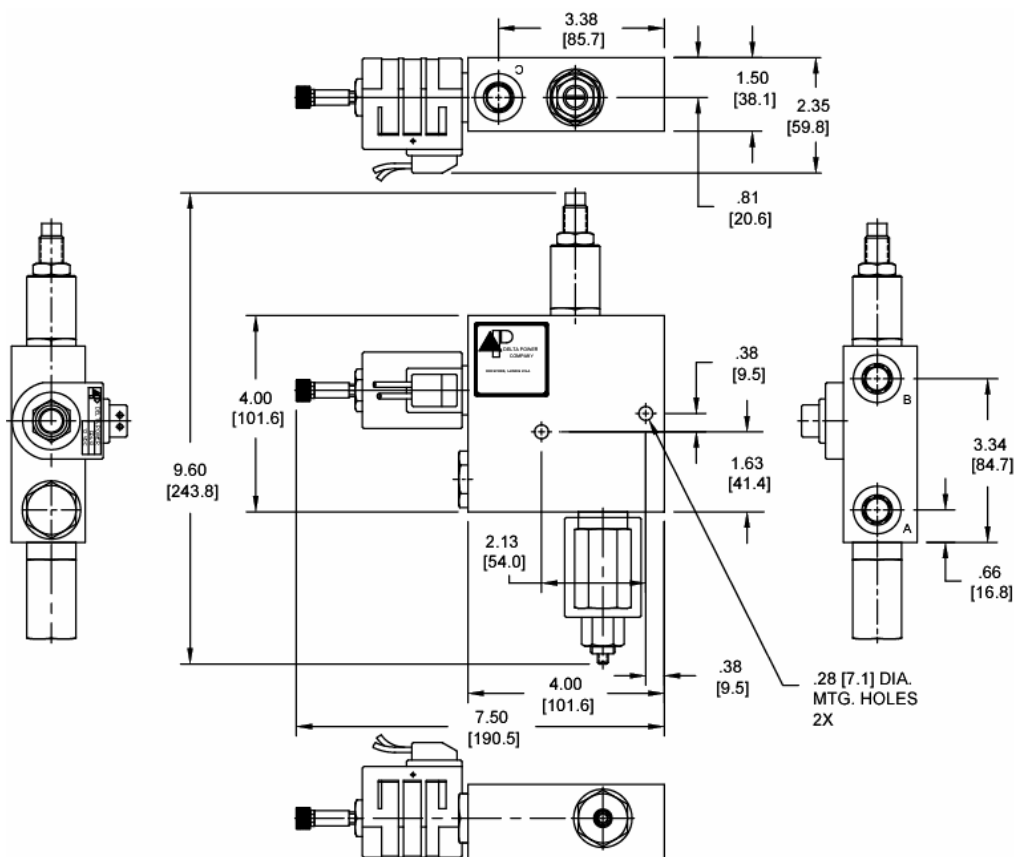
Pre-engineered circuit, option model P\*.

**OPERATION**

See options chart for specific operation (back).

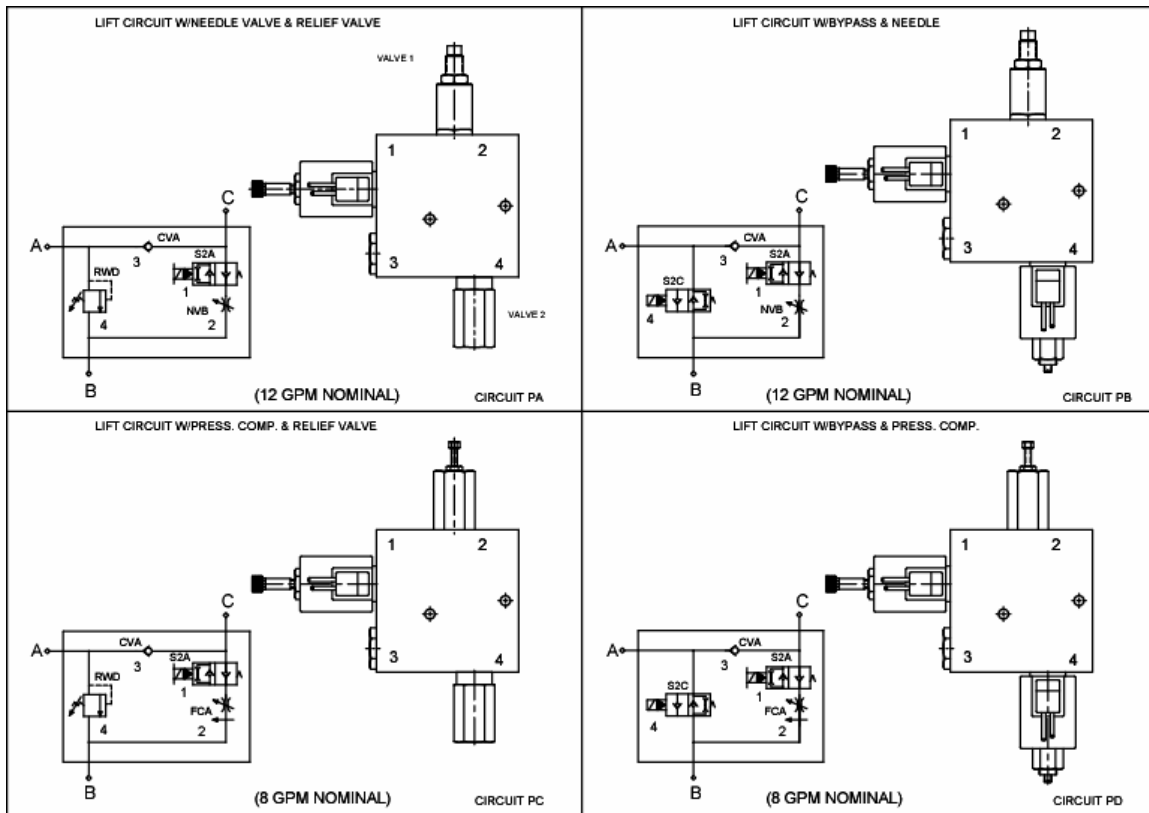
**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


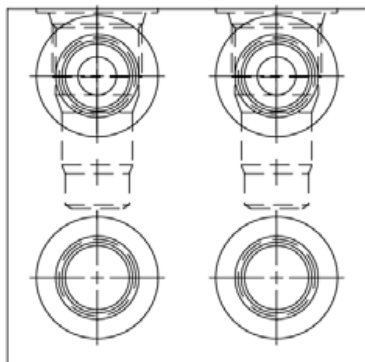
**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

<u>CIRCUITS</u>		<u>OPTIONS</u>		<u>VOLTAGE</u>		<u>VALVE 2</u>		<u>VALVE 1</u>	
PA	Buna Standard	00	06	6 VDC	01	.5-1 GPM	02	01	.5-1 GPM
PB	Viton Standard	V0	12	12 VDC	02	1-2 GPM	15	02	1-2 GPM
PC	Manual Override	0M	24	24 VDC	04	2-4 GPM	30	04	2-4 GPM
PD			36	36 VDC	08	4-8 GPM	40	08	4-8 GPM
			48	48 VDC	<b>FLOW CONTROL</b>		<b>RELIEF VALVE</b>		
			25	25 VAC					
			11	120 VAC					
			22	220 VAC					
			44	440 VAC					
<b>"D" COIL TERMINATION</b> (All DC Except as Noted)				<b>IMMERSION PROOF "D" TYPE</b>		<b>FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY</b>			
DL	Double Lead	HC	DIN 43650 (Hirschmann) - (AC&DC)	IA	"I" Coil AMP Superseal - Integral	07	100-700 PSI		
DT	Deutsch on Leads DT04-2P	CL	Conduit Lead - (AC Only)	ID	"I" Coil Deutsch - Integral DT04-2P	30	100-3000 PSI		
ML	Metri-Pack on Leads	DI	Deutsch - Integral DT04-2P	IJ	"I" Coil AMP Jr. Timer - Integral	40	3000-4000 PSI		
PL	Packard on Leads			IM	"I" Coil Metri-Pack - Integral		<b>RELIEF VALVE</b>		
WL	Weatherpack on Leads								
SS	Single Spade								
DS	Double Spade								

**PRE-ENGINEERED CIRCUIT, OPTION MODEL Q\***
**BASE BODY - 20200018 = #8 SAE**

**BODY WEIGHT: 1.50 lbs (.68 kg)**
**DESCRIPTION**

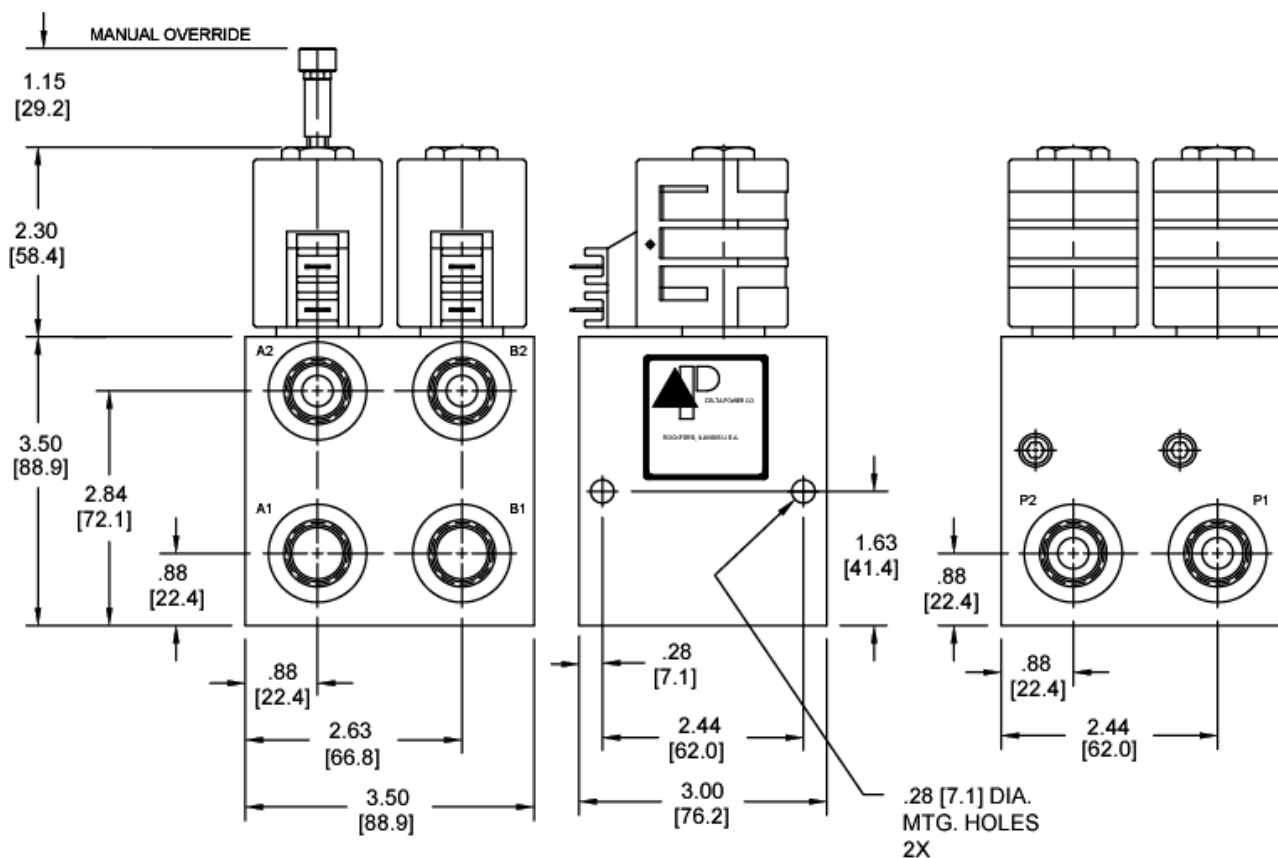
Pre-engineered circuit, option model Q\*.

**OPERATION**

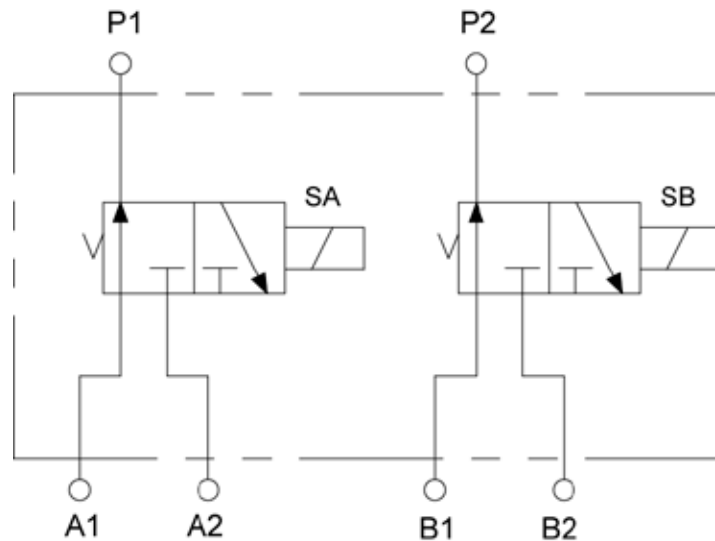
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	8 GPM (30 LPM)
Rated Operating Pressure	400-3500 PSI (28-241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	4-6 ft-lbs (5.4-8.1 Nm)

**DIMENSIONS**


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**TYPICAL SCHEMATIC**

**CIRCUIT QA**
**ORDERING INFORMATION**
*Approximate Coil Weight: .74 lbs (.33 kg)*

<u>CIRCUITS</u>	<u>OPTIONS</u>	<u>VOLTAGE</u>
QA	Buna Standard <b>00</b> Viton Standard <b>V0</b> Manual Override <b>0M</b>	<b>06</b> 6 VDC <b>12</b> 12 VDC <b>24</b> 24 VDC <b>36</b> 36 VDC <b>48</b> 48 VDC <b>25</b> 25 VAC <b>11</b> 120 VAC <b>22</b> 220 VAC <b>44</b> 440 VAC

**"D" COIL TERMINATION**  
*(All DC Except as Noted)*

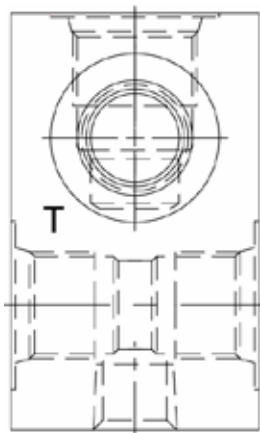
**DL** Double Lead  
**DT** Deutsch on Leads DT04-2P  
**ML** Metri-Pack on Leads  
**PL** Packard on Leads  
**WL** Weatherpack on Leads

**SS** Single Spade  
**DS** Double Spade  
**HC** DIN 43650 (Hirschmann) - (AC&DC)  
**CL** Conduit Lead - (AC Only)  
**DI** Deutsch - Integral DT04-2P

**IMMERSION PROOF "D" TYPE**

**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

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**PRE-ENGINEERED CIRCUIT, OPTION MODEL R\***
**BASE BODY - 20200019 = #8 SAE**

**BODY WEIGHT: .66 lbs (.30 kg)**
**DESCRIPTION**

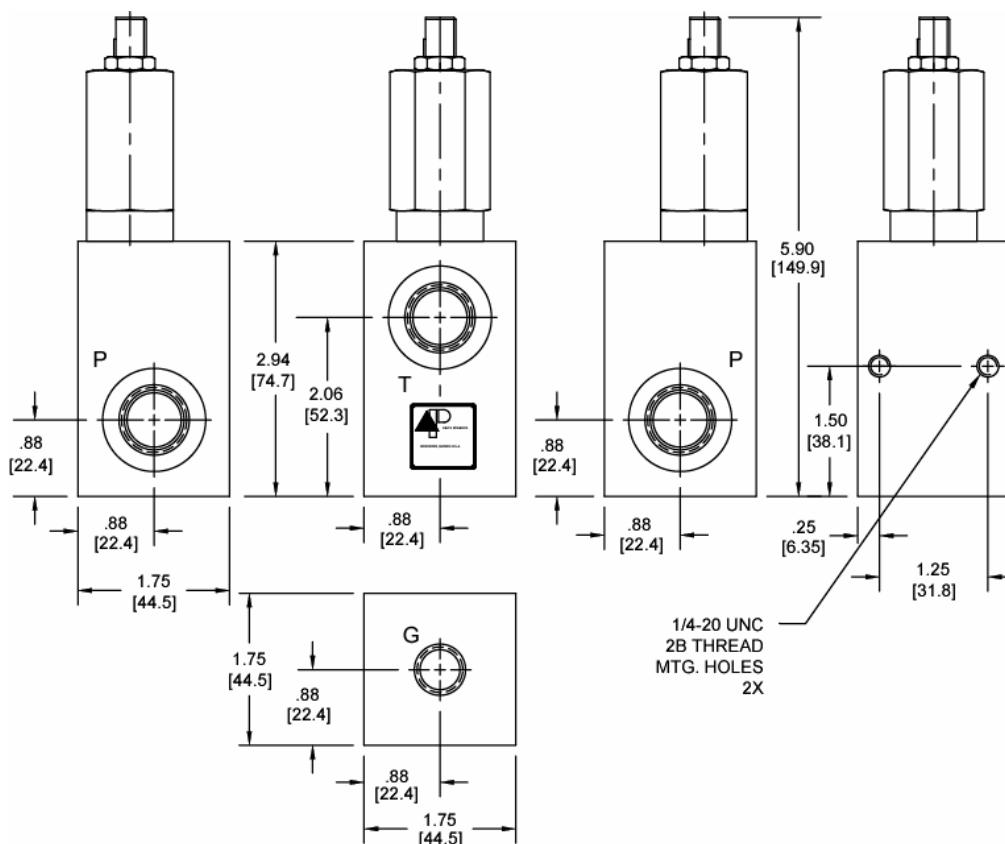
Pre-engineered circuit, option model R\*.

**OPERATION**

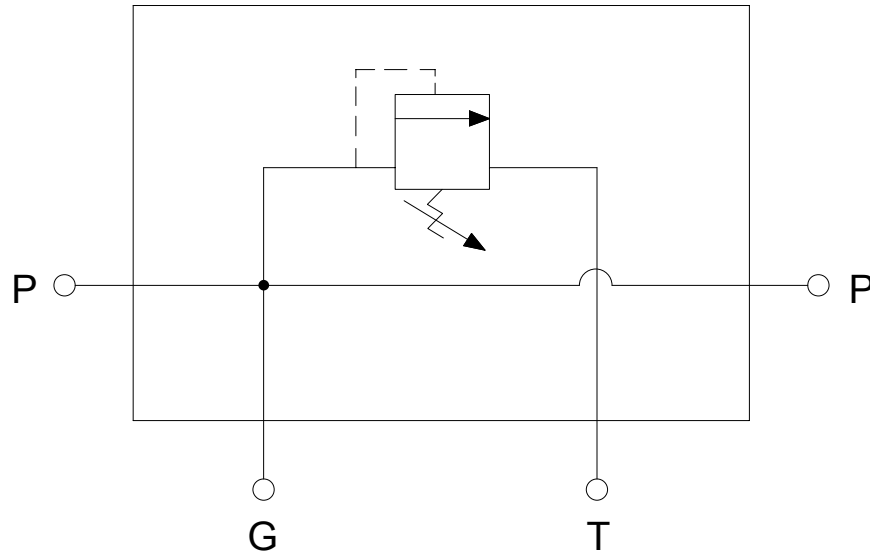
See typical schematic for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)

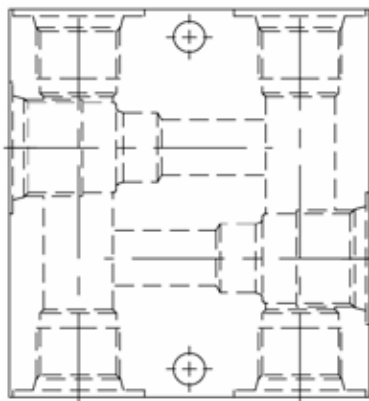
**DIMENSIONS**


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**TYPICAL SCHEMATIC**

**CIRCUIT RA**
**ORDERING INFORMATION**

CIRCUITS	OPTIONS	PRESSURE RANGE
RA	Buna Standard 00 Viton Standard V0	40 100-4000 PSI

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

**PRE-ENGINEERED CIRCUIT, OPTION MODEL S\***
**BASE BODY - 20200020 = #8 SAE**

**BODY WEIGHT: 1.2 lbs (.54 kg)**
**DESCRIPTION**

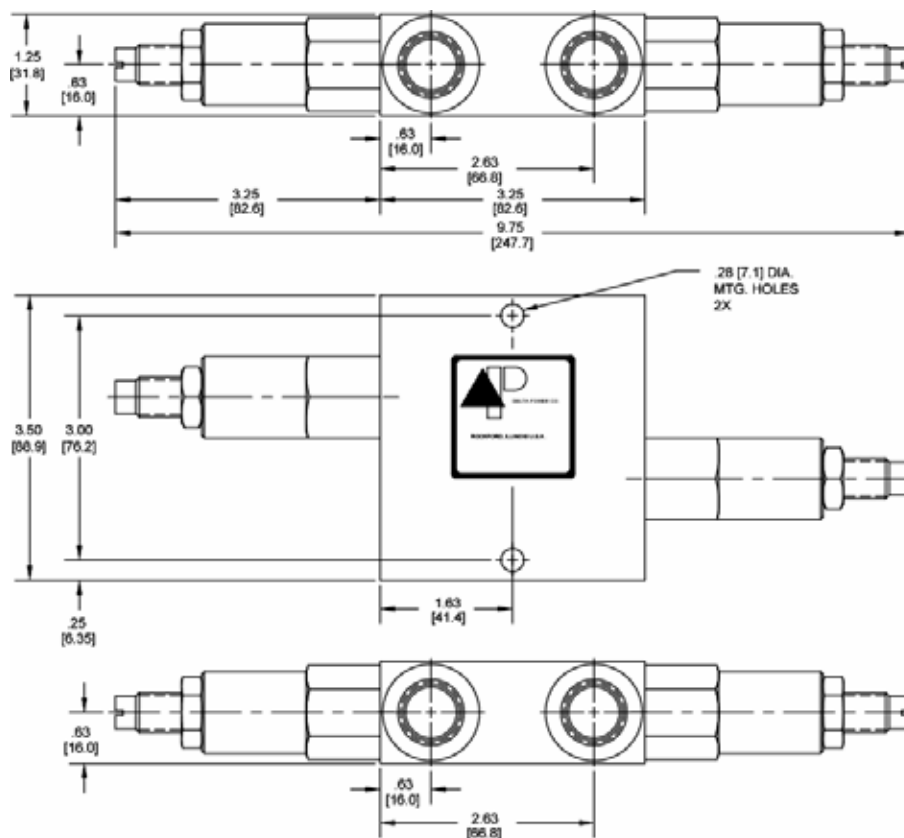
Pre-engineered circuit, option model S\*.

**OPERATION**

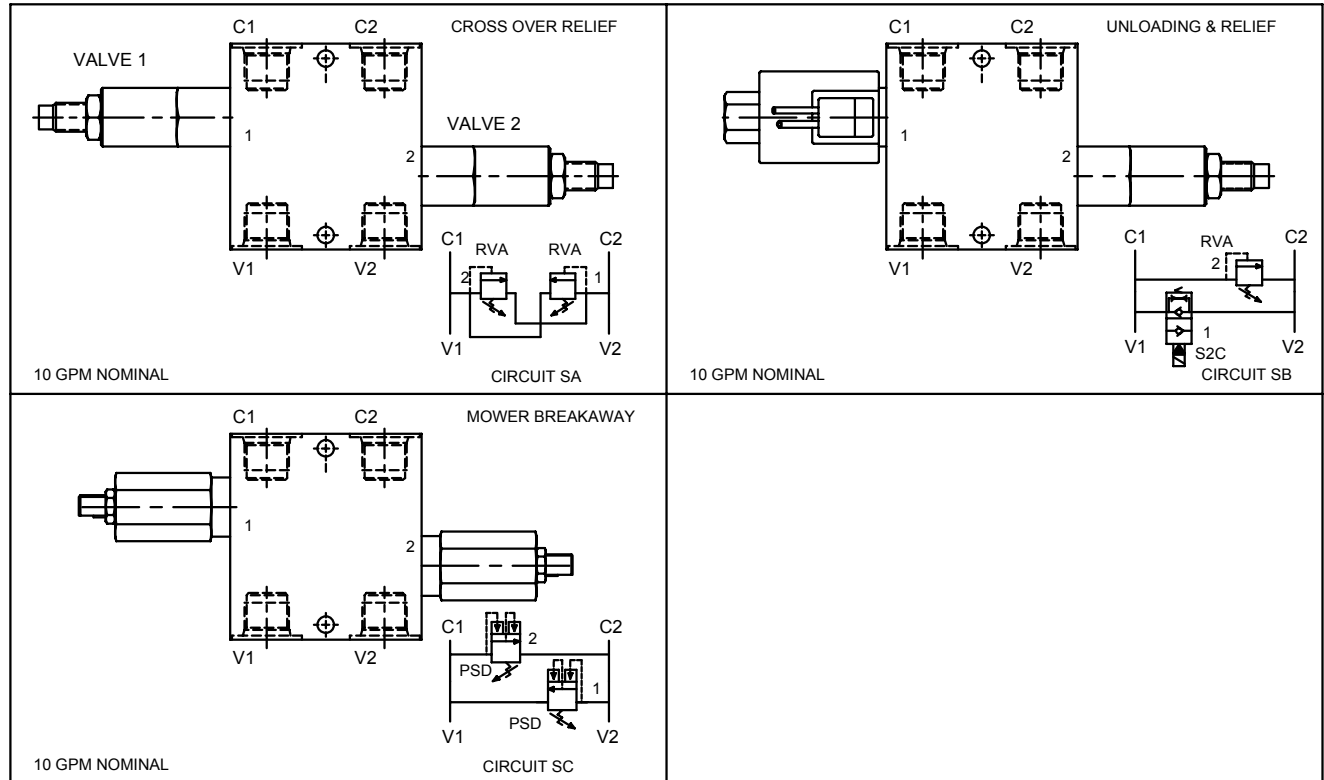
See options chart for specific operation.

**VALVE SPECIFICATIONS**

Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Torque Nut Requirements	6 ft-lbs (8.1 Nm)

**DIMENSIONS**


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**OPTIONS CHART**

**ORDERING INFORMATION**

Approximate Coil Weight: .74 lbs (.33 kg)

CIRCUITS		OPTIONS		VOLTAGE		VALVE 2	
SA		Buna Standard	00	06	6 VDC	01	.5-1 GPM
SB		Viton Standard	V0	12	12 VDC	02	1-2 GPM
SC				24	24 VDC	04	2-4 GPM
				36	36 VDC	08	4-8 GPM
				48	48 VDC	FLOW CONTROL	
				25	25 VAC		
				11	120 VAC	VALVE 1	
				22	220 VAC	01	.5-1 GPM
				44	440 VAC	02	1-2 GPM
						04	2-4 GPM
						08	4-8 GPM
						FLOW CONTROL	
						15	150-1500 PSI
						30	1500-3000 PSI
						40	2500-4000 PSI
						RELIEF VALVE	

"D" COIL TERMINATION (All DC Except as Noted)		IMMERSION PROOF "D" TYPE	
DL	Double Lead	IA	"I" Coil AMP Superseal - Integral
DT	Deutsch on Leads DT04-2P	ID	"I" Coil Deutsch - Integral DT04-2P
ML	Metri-Pack on Leads	IJ	"I" Coil AMP Jr. Timer - Integral
PL	Packard on Leads	IM	"I" Coil Metri-Pack - Integral
WL	Weatherpack on Leads		
SS	Single Spade		
DS	Double Spade		

VALVE 2		VALVE 1	
01	.5-1 GPM	01	.5-1 GPM
02	1-2 GPM	02	1-2 GPM
04	2-4 GPM	04	2-4 GPM
08	4-8 GPM	08	4-8 GPM
FLOW CONTROL		FLOW CONTROL	
02	150-1500 PSI	15	150-1500 PSI
15	1500-3000 PSI	30	1500-3000 PSI
30	2500-4000 PSI	40	2500-4000 PSI
40	RELIEF VALVE	RELIEF VALVE	

FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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