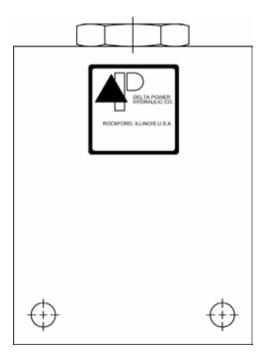
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HYDRAULIC INTEGRATED CIRCUITS (HIC)

> Manufacturers of hydraulic cartridge valves and electro-hydraulic systems

SINGLE, P.O. CHECK VALVES (PRE-ENGINEERED BLOCKS)







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SERIES SINGLE PILOT OPERATED CHECK VALVE

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
c o v	5	3000	19	207	5/8-18	MS-POC	HS4
	10	3500	38	241	3/4-16	PS-POC	HS6
_'∘ PILOT	15	3500	57	241	7/8-14	DS-POC	HS8
	40	3500	151	241	1 5/16-12	SS-POC	HS10

TYPICAL SCHEMATIC

Typical application for this valve is load holding when pump is off.

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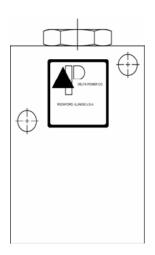


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MS-POC SINGLE PILOT OPERATED CHECK VALVE



DESCRIPTION

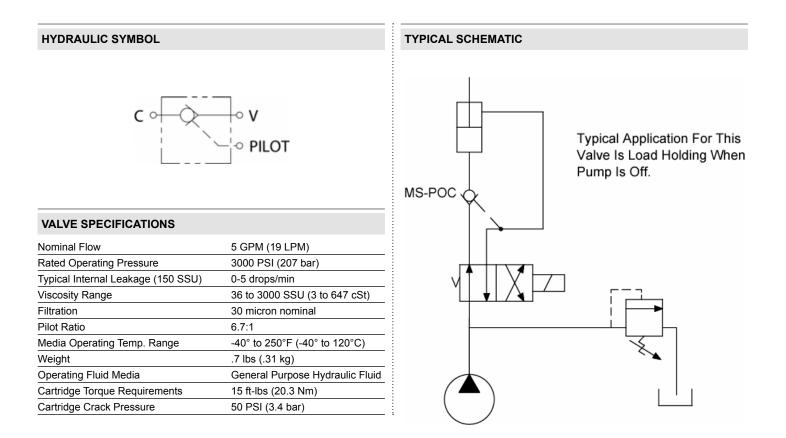
7 size, 5/8-18 thread, "Mini" series, pilot operated check valve.

OPERATION

The MS-POC allows flow to pass from (V) to (C) and blocks flow from (C) to (V). When pilot pressure is applied to pilot port the valve allows flow from (C) to (V). The valve has a 6.7:1 pilot ratio, so at least .149 of the load pressure is required at the (PILOT) port to open the flow passage to allow flow from ports (C). The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.

FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.



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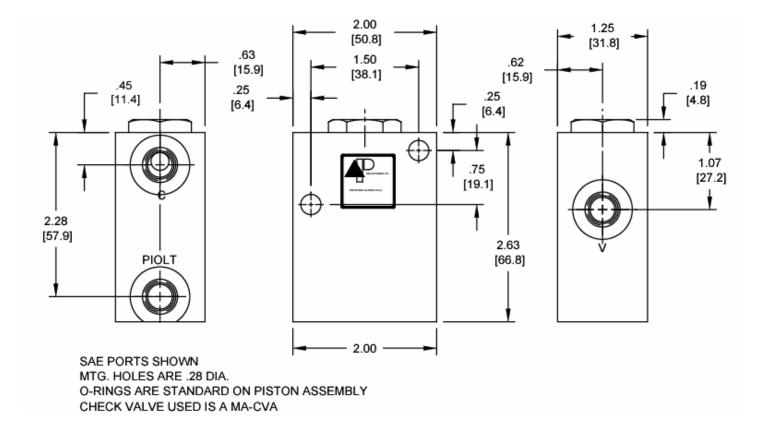




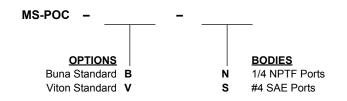
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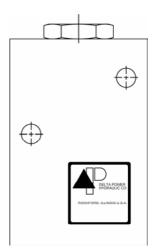


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PS-POC SINGLE PILOT OPERATED CHECK VALVE



DESCRIPTION

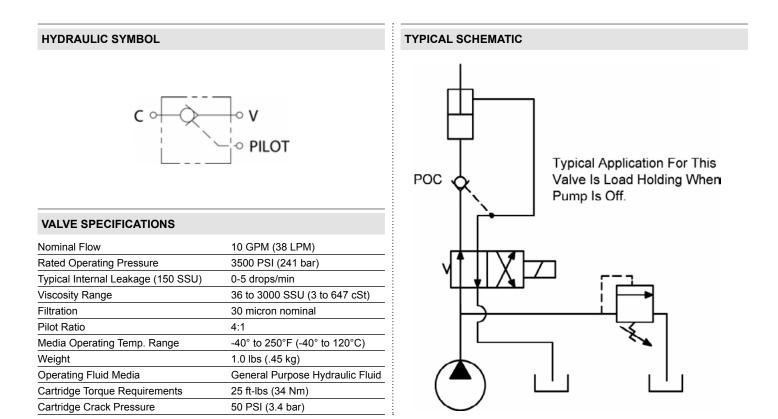
8 size, 3/4-16 thread, "Power" series, pilot operated check valve.

OPERATION

The PS-POC allows flow to pass from (V) to (C) and blocks flow from (C) to (V). When pilot pressure is applied to pilot port the valve allows flow from (C) to (V). The valve has a 4:1 pilot ratio, so at least .250 of the load pressure is required at the (PILOT) port to open the flow passage to allow flow from ports (C). The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.



- Hardened internal parts for long life.
- · Anodized aluminum body for corrosion protection.

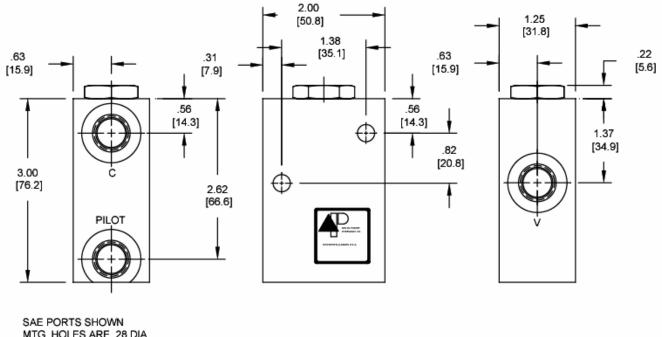


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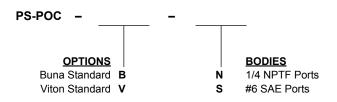


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SAE PORTS SHOWN MTG. HOLES ARE .28 DIA. O-RINGS ARE STANDARD ON PISTON ASSEMBLY CHECK VALVE USED IS A PB-CVC

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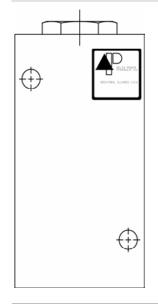


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DS-POC SINGLE PILOT OPERATED CHECK VALVE



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, pilot operated check valve.

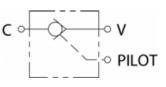
OPERATION

The DS-POC allows flow to pass from (V) to (C) and blocks flow from (C) to (V). When pilot pressure is applied to pilot port the valve allows flow from (C) to (V). The valve has a 4:1 pilot ratio, so at least .250 of the load pressure is required at the (PILOT) port to open the flow passage to allow flow from ports (C). The check is spring-biased at 90 PSI (6.2 bar) to assure holding in static or no-load conditions.

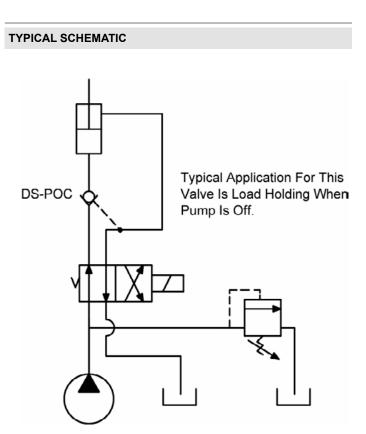
FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

HYDRAULIC SYMBOL



VALVE SPECIFICATIONS	
Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	0-5 drops/min
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Pilot Ratio	4:1
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.1 lbs (.50 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cartridge Crack Pressure	90 PSI (6.2 bar)

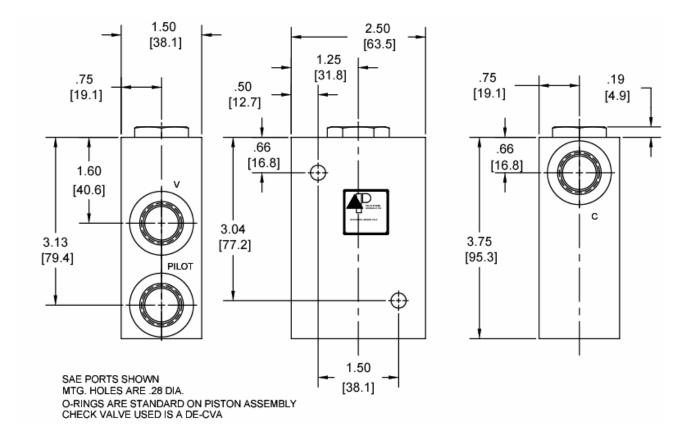


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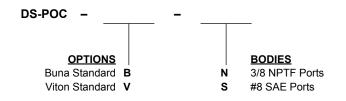




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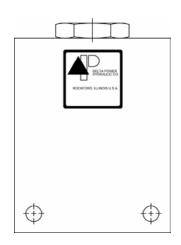
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SS-POC SINGLE PILOT OPERATED CHECK VALVE



DESCRIPTION

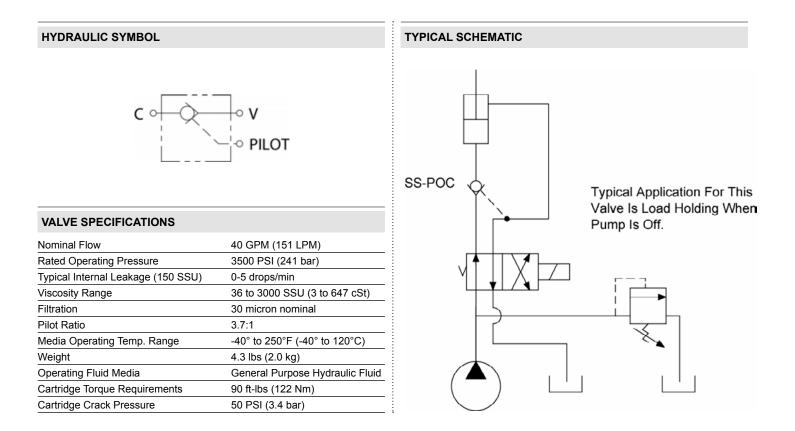
16 size, 1 5/16-12 thread, "Super" series, pilot operated check valve.

OPERATION

The SS-POC allows flow to pass from (V) to (C) and blocks flow from (C) to (V). When pilot pressure is applied to pilot port the valve allows flow from (C) to (V). The valve has a 3.7:1 pilot ratio, so at least .270 of the load pressure is required at the (PILOT) port to open the flow passage to allow flow from ports (C). The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.

FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

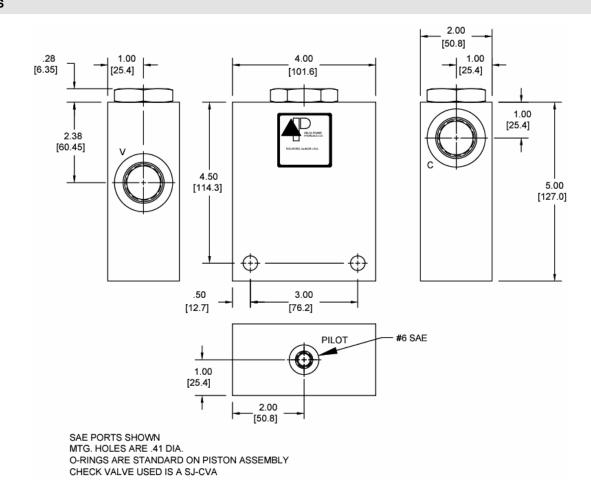


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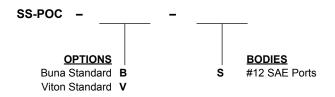




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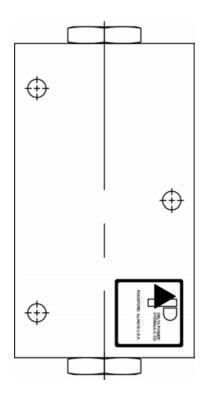


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DOUBLE, P.O. CHECK VALVES (PRE-ENGINEERED BLOCKS)



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SERIES DOUBLE PILOT OPERATED CHECK VALVE

	GPM	PSI	LPM	BAR	CAVITY	MODEL	PAGE
	5	3500	19	241	5/8-18	MD-POC	HD4
	10	3500	38	241	3/4-16	PD-POC	HD6
	15	3500	57	241	7/8-14	DD-POC	HD8
V_1	40	3500	151	241	5/46-12	SD-POC	HD10
	15	4000	57	276	7/8-14	DD-POT	HD12

TYPICAL SCHEMATIC

Typical application for this valve is load holding when pump is off.

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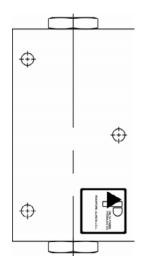


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MD-POC DOUBLE PILOT OPERATED CHECK VALVE



DESCRIPTION

7 size, 5/8-18 thread, "Mini" series, double pilot operated check valve.

OPERATION

The MD-POC allows flow to pass from (V1) to (C1) and (V2) to (C2). The valve blocks flow from (C1) to (V1) and from (C2) to (V2). Blocked flow is released when pilot pressure is applied to port opposite valve (V1) and/or port (V2) accordingly. The valve has a 6.7:1 pilot ratio, so at least .141 of the load pressure at port (C1) or (C2) is required at the pilot lines ports (V2) or (V1) respectively to open the flow passage to allow flow from ports (C1) or (C2) respectively. The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.

FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

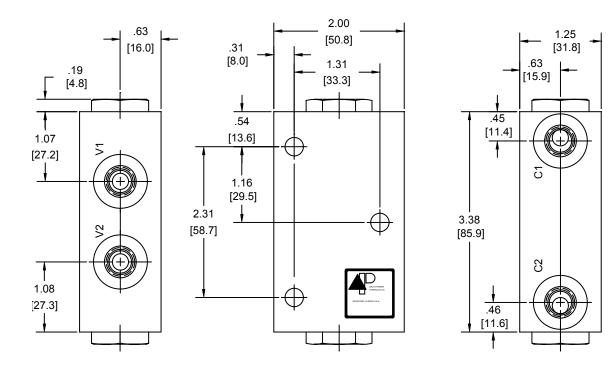
TYPICAL SCHEMATIC HYDRAULIC SYMBOL C1 C2 V1 V2 MD-POC VALVE SPECIFICATIONS Typical Application For This Nominal Flow 5 GPM (19 LPM) Valve Is Load Holding When **Rated Operating Pressure** 3500 PSI (241 bar) Pump Is Off. Typical Internal Leakage (150 SSU) 0-5 drops/min Viscosity Range 36 to 3000 SSU (3 to 647 cSt) Filtration 30 micron nominal Pilot Ratio 6.7:1 Media Operating Temp. Range -40° to 250°F (-40° to 120°C) Weight .92 lbs (.42 kg) **Operating Fluid Media** General Purpose Hydraulic Fluid Cartridge Torque Requirements 15 ft-lbs (20.3 Nm) Cartridge Crack Pressure 50 PSI (3.4 bar)

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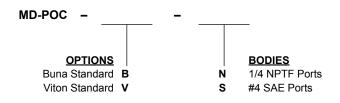
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SAE PORTS SHOWN MTG. HOLES ARE .28 DIA. NOTE: DIMENSIONS IN BRACKETS ARE MILLIMETERS O-RINGS ARE STANDARD ON PISTON ASSEMBLY CHECK VALVE USED IS A MA-CVA

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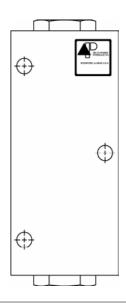


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PD-POC DOUBLE PILOT OPERATED CHECK VALVE



DESCRIPTION

8 size, 3/4-16 thread, "Power" series, double pilot operated check valve.

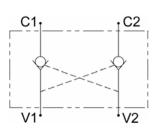
OPERATION

The PD-POC allows flow to pass from (V1) to (C1) and (V2) to (C2). The valve blocks flow from (C1) to (V1) and from (C2) to (V2). Blocked flow is released when pilot pressure is applied to port opposite valve (V1) and/or port (V2) accordingly. The valve has a 4:1 pilot ratio, so at least .250 of the load pressure at port (C1) or (C2) is required at the pilot lines ports (V2) or (V1) respectively to open the flow passage to allow flow from ports (C1) or (C2) respectively. The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.

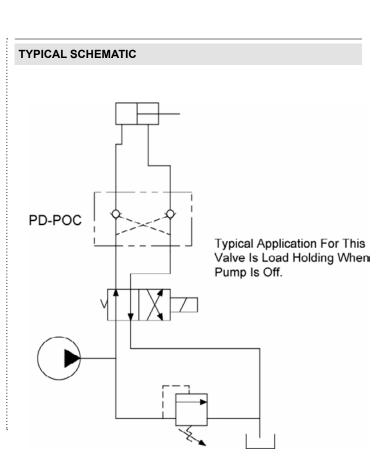
FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

HYDRAULIC SYMBOL



VALVE SPECIFICATIONS Nominal Flow 10 GPM (38 LPM) **Rated Operating Pressure** 3500 PSI (241 bar) Typical Internal Leakage (150 SSU) 0-5 drops/min Viscosity Range 36 to 3000 SSU (3 to 647 cSt) Filtration 30 micron nominal Pilot Ratio 4:1 Media Operating Temp. Range -40° to 250°F (-40° to 120°C) Weight 1.2 lbs (.54 kg) **Operating Fluid Media** General Purpose Hydraulic Fluid Cartridge Torque Requirements 25 ft-lbs (34 Nm) Cartridge Crack Pressure 50 PSI (3.4 bar)



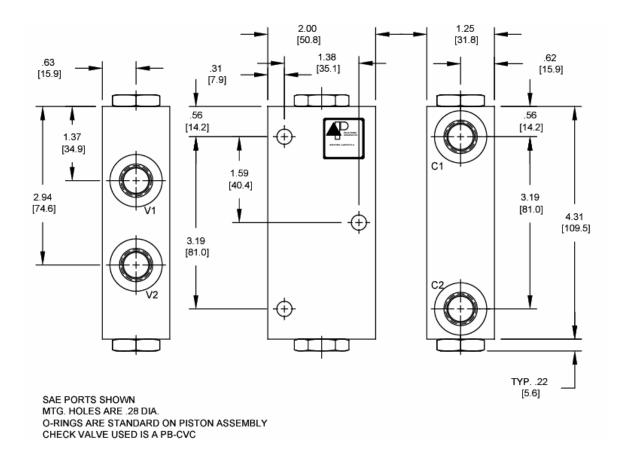
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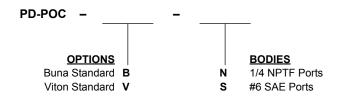


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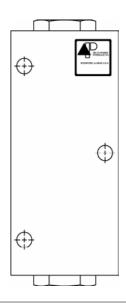


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TECNORD

DD-POC DOUBLE PILOT OPERATED CHECK VALVE



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, double pilot operated check valve.

OPERATION

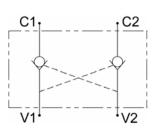
The DD-POC allows flow to pass from (V1) to (C1) and (V2) to (C2). The valve blocks flow from (C1) to (V1) and from (C2) to (V2). Blocked flow is released when pilot pressure is applied to port opposite valve (V1) and/or port (V2) accordingly. The valve has a 4:1 pilot ratio, so at least .250 of the load pressure at port (C1) or (C2) is required at the pilot lines ports (V2) or (V1) respectively to open the flow passage to allow flow from ports (C1) or (C2) respectively. The check is spring-biased at 90 PSI (6.2 bar) to assure holding in static or no-load conditions.

TYPICAL SCHEMATIC

FEATURES

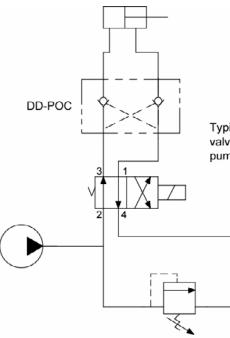
- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

HYDRAULIC SYMBOL



VALVE SPECIFICATIONS

Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	0-5 drops/min
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Pilot Ratio	4:1
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.5 lbs (.68 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cartridge Crack Pressure	90 PSI (6.2 bar)



Typical application for this valve is load holding when pump is off.

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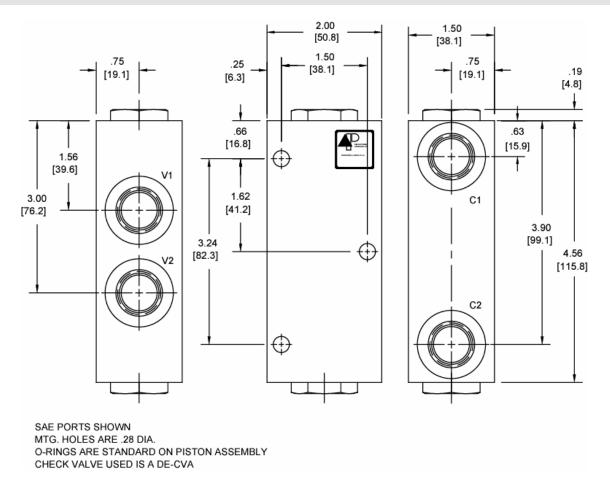
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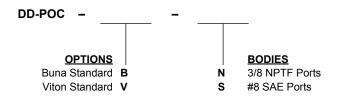




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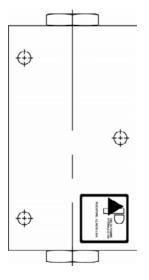


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TECNORD

SD-POC DOUBLE PILOT OPERATED CHECK VALVE



DESCRIPTION

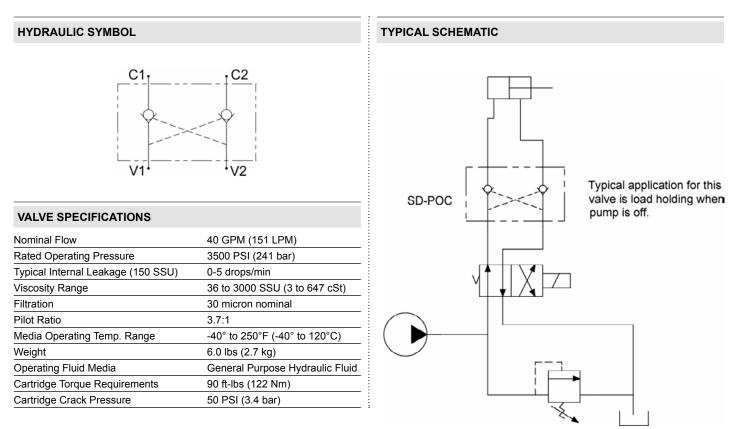
16 size, 1 5/16-12 thread, "Super" series, double pilot operated check valve.

OPERATION

The SD-POC allows flow to pass from (V1) to (C1) and (V2) to (C2). The valve blocks flow from (C1) to (V1) and from (C2) to (V2). Blocked flow is released when pilot pressure is applied to port opposite valve (V1) and/or port (V2) accordingly. The valve has a 3.7:1 pilot ratio, so at least .267 of the load pressure at port (C1) or (C2) is required at the pilot lines ports (V2) or (V1) respectively to open the flow passage to allow flow from ports (C1) or (C2) respectively. The check is spring-biased at 50 PSI (3.4 bar) to assure holding in static or no-load conditions.

FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

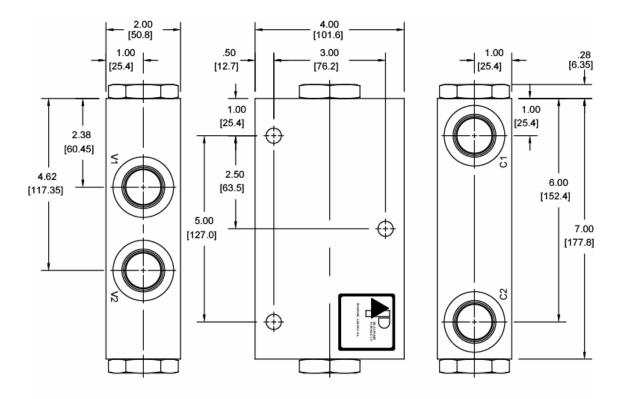


WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



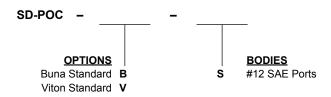


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SAE PORTS SHOWN MTG. HOLES ARE .41 DIA. O-RINGS ARE STANDARD ON PISTON ASSEMBLY CHECK VALVE USED IS A SJ-CVA

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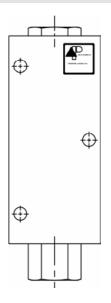


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TECNORD

DD-POT DOUBLE PILOT OPERATED CHECK VALVE W/THERMAL RELIEF VALVE



DESCRIPTION

10 size, 7/8-14 thread, "Delta" series, double pilot operated check valve with thermal relief valve.

OPERATION

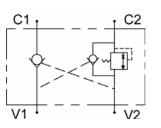
The DD-POT allows flow to pass from (V1) to (C1) and (V2) to (C2). The valve blocks flow from (C1) to (V1) and from (C2) to (V2). Blocked flow is released when pilot pressure is applied to port opposite valve (V1) and/or port (V2) accordingly. Also (C2) port is protected by thermal relief.

The valve has a 4:1 pilot ratio, so at least .250 of the load pressure at port (C1) or (C2) is required at the pilot lines ports (V2) or (V1) respectively to open the flow passage to allow flow from ports (C1) or (C2) respectively. The check is spring-biased at 90 PSI (6.2 bar) to assure holding in static or no-load conditions.

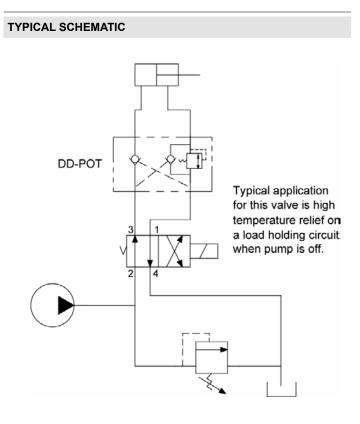
FEATURES

- Hardened internal parts for long life.
- Anodized aluminum body for corrosion protection.

HYDRAULIC SYMBOL



VALVE SPECIFICATIONS	
Nominal Flow	15 GPM (57 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Typical Internal Leakage (150 SSU)	0-5 drops/min
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Pilot Ratio	4:1
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	1.4 lbs (63 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cartridge Crack Pressure	90 PSI (6.2 bar)

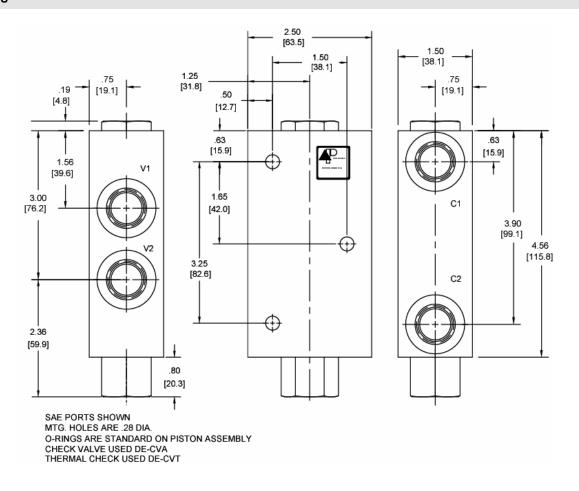


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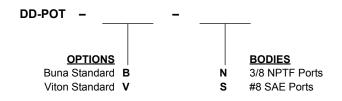








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TECNORD

MIZERS

Pre-Engineered Circuit, Option MODEL AHZ2 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 BHZ4 Lift, Check, & Dump. Startup Circuit, Lift, Check & Dump w/RV

PRE-ENGINEERED CIRCUIT, OPTION MODEL CHZ6 Dual RV, Dump, Flow Divider, Motor Speed Control, Selector, Hydrostatic (Anti-Cav)

PRE-ENGINEERED CIRCUIT, OPTION MODEL DHZ8 NC Poppet Valve, Single RV, Needle Flow Control, Flow Control w/Free Flow Check, NO Spool valve, Crossover RV

PRE-ENGINEERED CIRCUIT, OPTION MODEL EHZ10 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 FHZ12 Dual Sequence Valve Manifold

PRE-ENGINEERED CIRCUIT, OPTION MODEL GHZ14 Rectifier Circuit

PRE-ENGINEERED CIRCUIT, OPTION MODEL HHZ16 4w3p Open Center, 4w3p Closed Center

PRE-ENGINEERED CIRCUIT, OPTION MODEL IHZ18 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 JHZ20

4w3p Tandem Center

PRE-ENGINEERED CIRCUIT, OPTION MODEL KHZ21 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 LHZ22
Dual Counterbalance Circuit

PRE-ENGINEERED CIRCUIT, OPTION MODEL M HZ24 Single 4:1 PO Check Circuit

PRE-ENGINEERED CIRCUIT, OPTION MODEL OHZ28 Single Counterbalance Circuit

PRE-ENGINEERED CIRCUIT, OPTION MODEL PHZ30 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 SHZ36 Crossover Relief, Mower Breakaway, Unloading & RV



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TECNORD

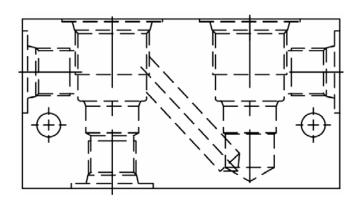


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PRE-ENGINEERED CIRCUIT, OPTION MODEL A*

BASE BODY - 20200001 = #6 SAE



BODY WEIGHT: .83 lbs (.37 kg)

DIMENSIONS

DESCRIPTION

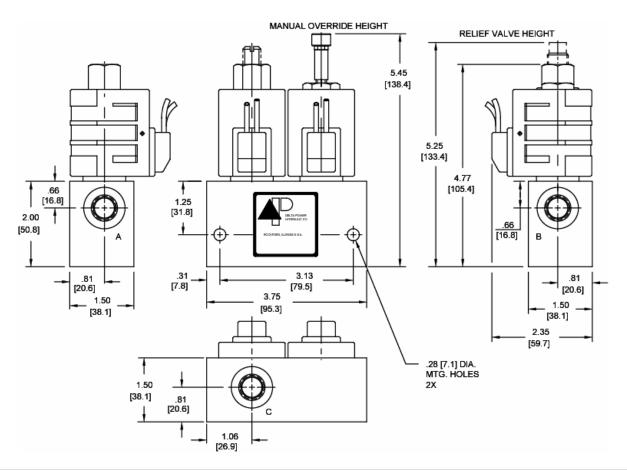
Pre-engineered circuit, option model A*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

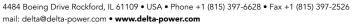
Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge 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)



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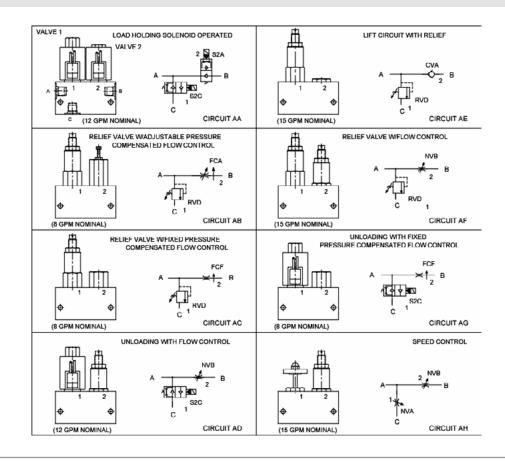
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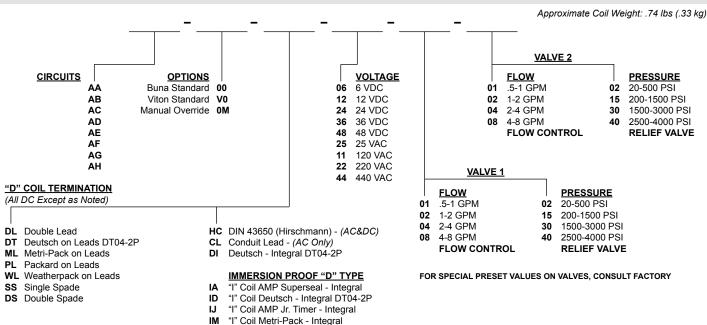




OPTIONS CHART



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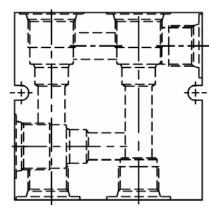
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL B*

BASE BODY - 20200002 = #8 SAE



BODY WEIGHT: 1.2 lbs (.54 kg)

DIMENSIONS

DESCRIPTION

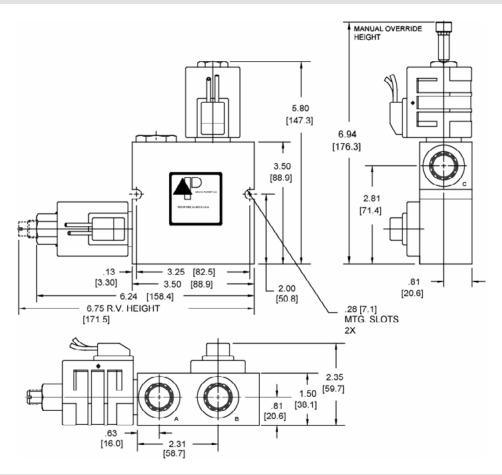
Pre-engineered circuit, option model B*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

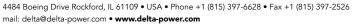
Nominal Flow	12 GPM (48 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 7/8-14 Thread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



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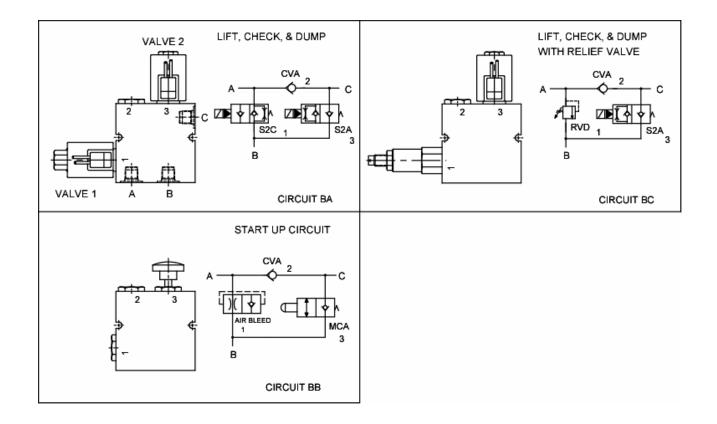
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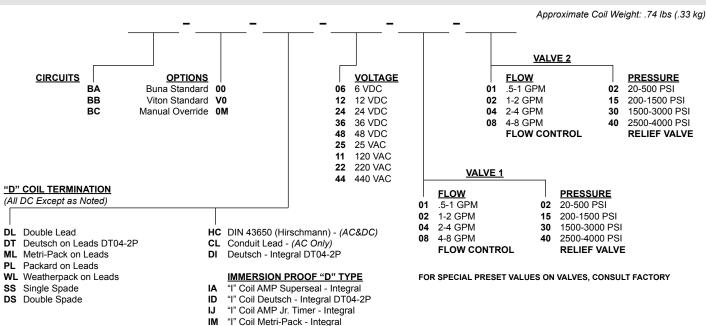




OPTIONS CHART



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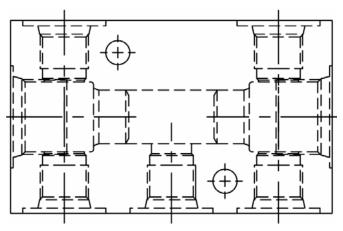
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL C*

BASE BODY - 20200003 = #6 SAE



BODY WEIGHT: .83 lbs (.37 kg)

DIMENSIONS

DESCRIPTION

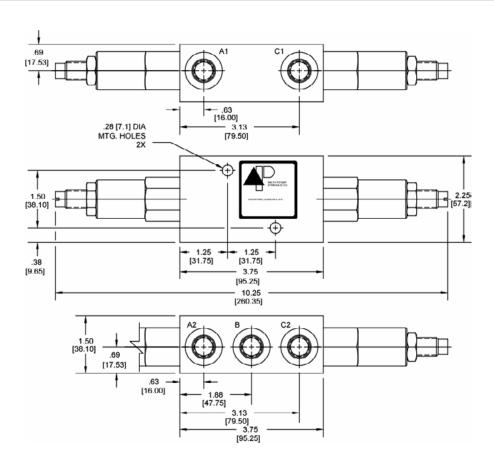
Pre-engineered circuit, option model C*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

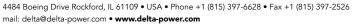
Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge 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)



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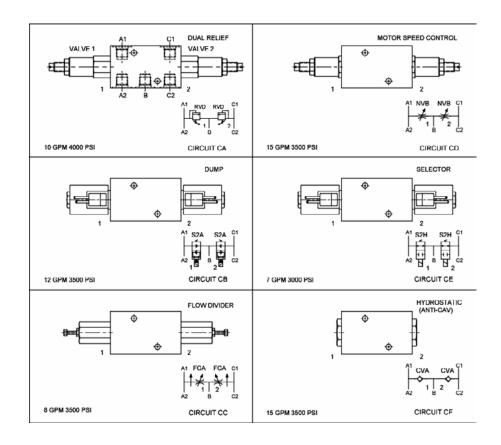
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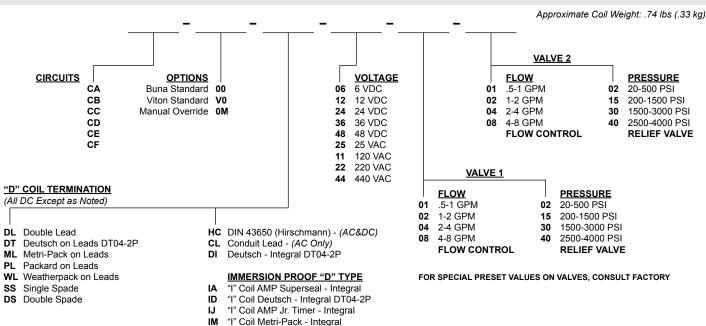




OPTIONS CHART



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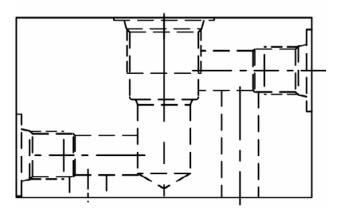
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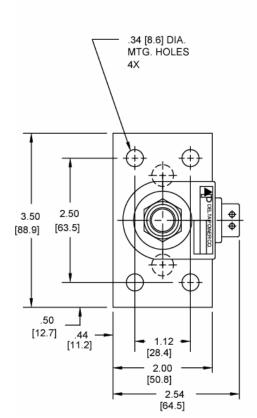
PRE-ENGINEERED CIRCUIT, OPTION MODEL D*

BASE BODY - 20200004 = #6 SAE



BODY WEIGHT: .83 lbs (.37 kg)

DIMENSIONS



DESCRIPTION

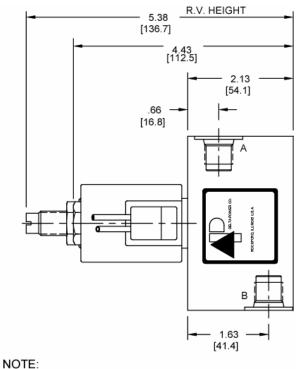
Pre-engineered circuit, option model D*.

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)



THIS ASSEMBLY WILL MOUNT ON WHITE "RS"; EATON "H,S,& T"; SAUER DANFOSS "DH & DS"; AND PARKER "TC" "MOTORS"

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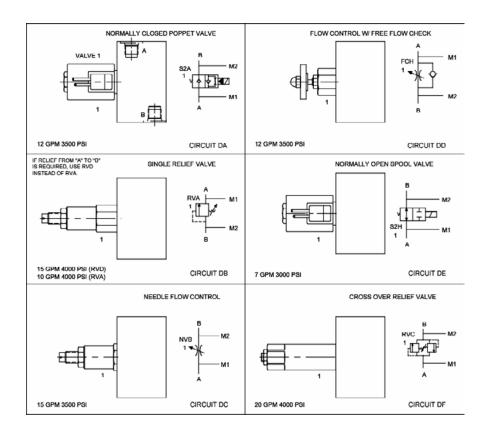
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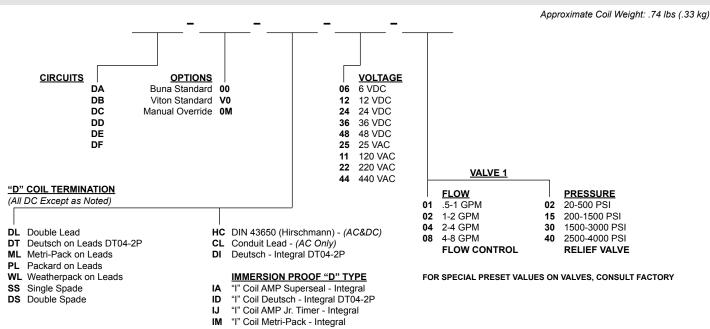
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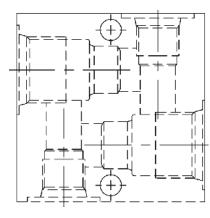
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL E*

BASE BODY - 20200005 = #6 SAE



BODY WEIGHT: .75 lbs (.34 kg)

DIMENSIONS

DESCRIPTION

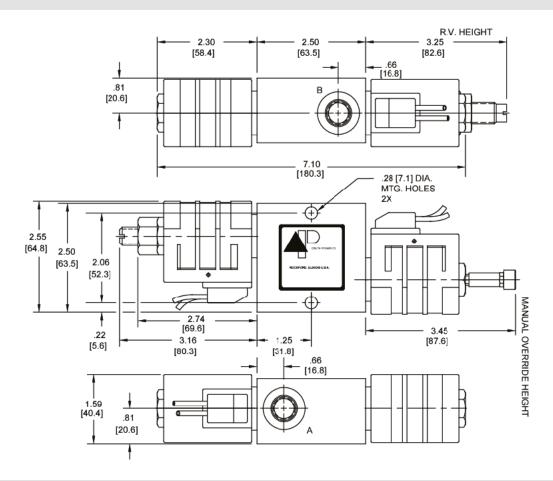
Pre-engineered circuit, option model E*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

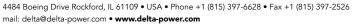
Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Size	Delta Series 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)



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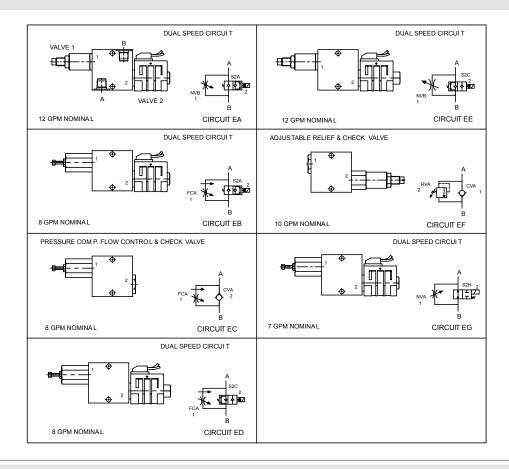
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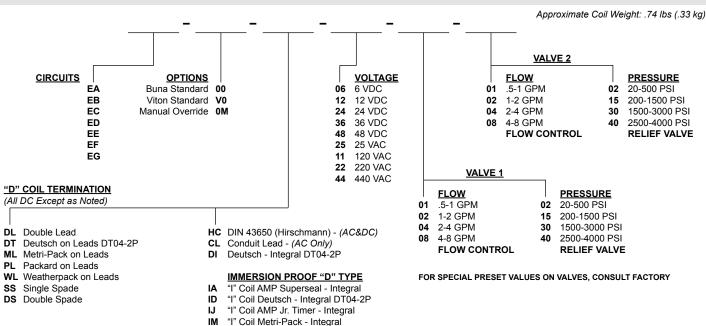




OPTIONS CHART



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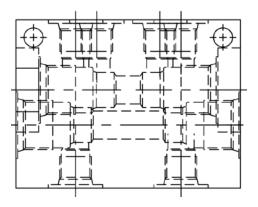
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL F*

BASE BODY - 20200006 = #6 SAE



BODY WEIGHT: 1.5 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

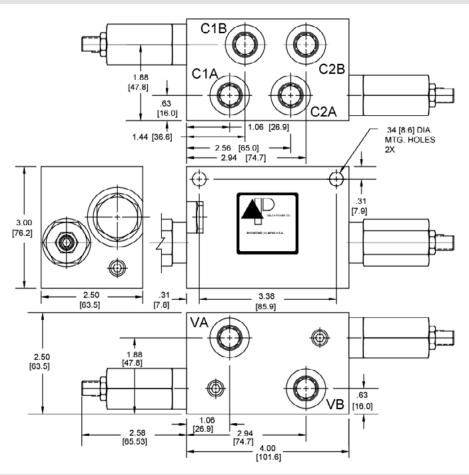
Pre-engineered circuit, option model F*.

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)

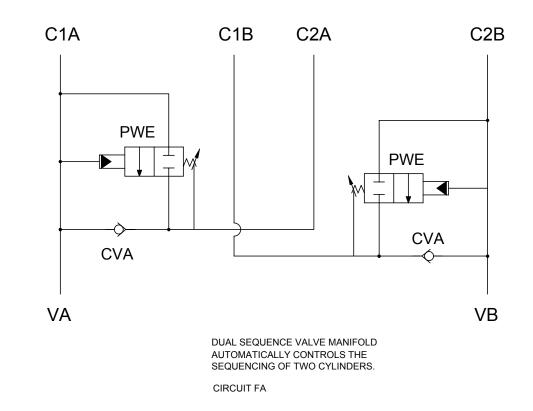


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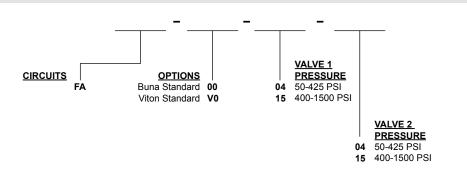
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FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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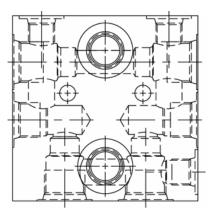
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PRE-ENGINEERED CIRCUIT, OPTION MODEL G*

BASE BODY - 20200007 = #8 SAE



BODY WEIGHT: 1.36 lbs (.62 kg)

DIMENSIONS

DESCRIPTION

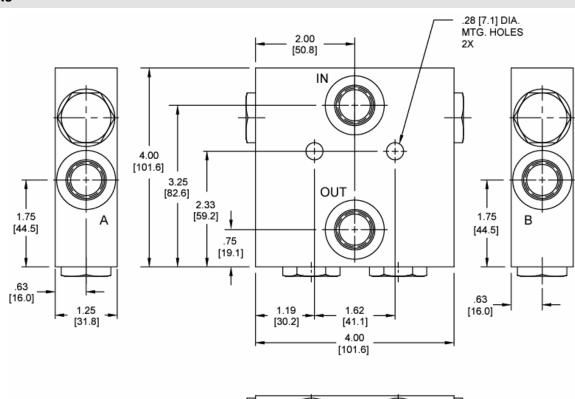
Pre-engineered circuit, option model G*.

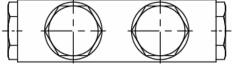
OPERATION

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)



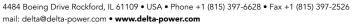


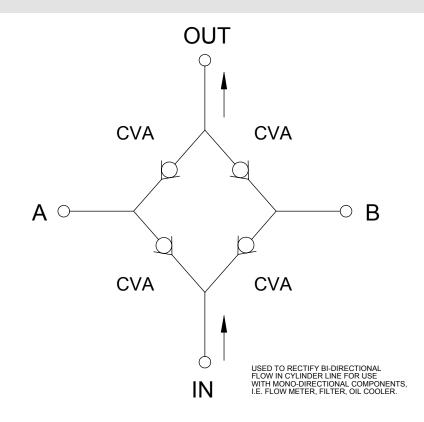
TECNORD

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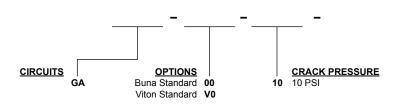








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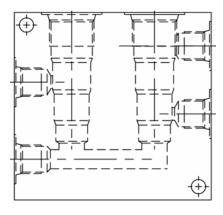
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL H*

BASE BODY - 20200008 = #6 SAE



BODY WEIGHT: 1.50 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

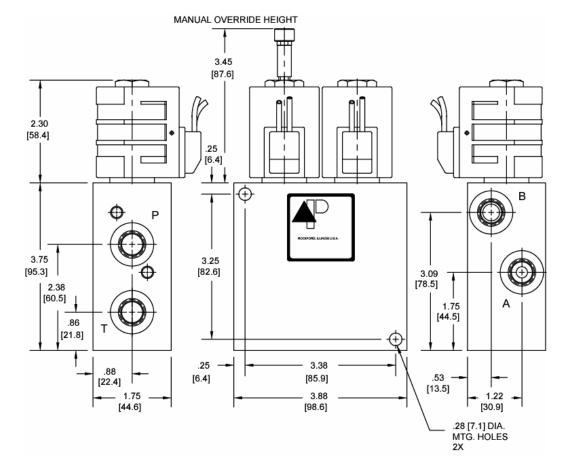
Pre-engineered circuit, option model H*.

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)



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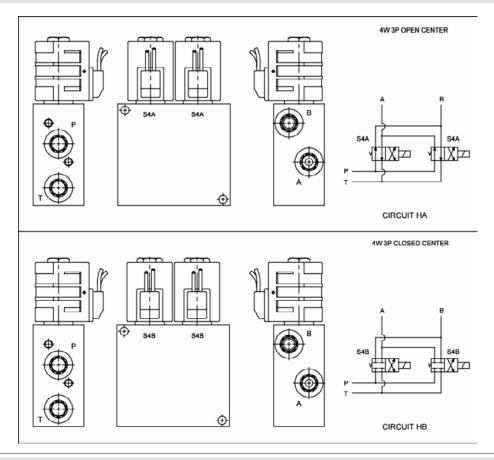
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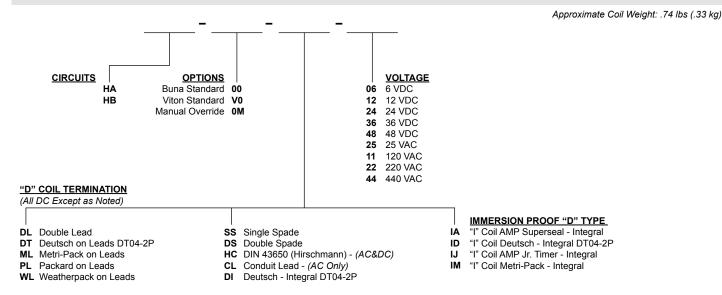


TECNORD

OPTIONS CHART



ORDERING INFORMATION



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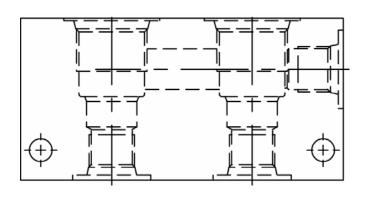


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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL I*

BASE BODY - 20200009 = #6 SAE



BODY WEIGHT: .83 lbs (.37 kg)

DIMENSIONS

DESCRIPTION

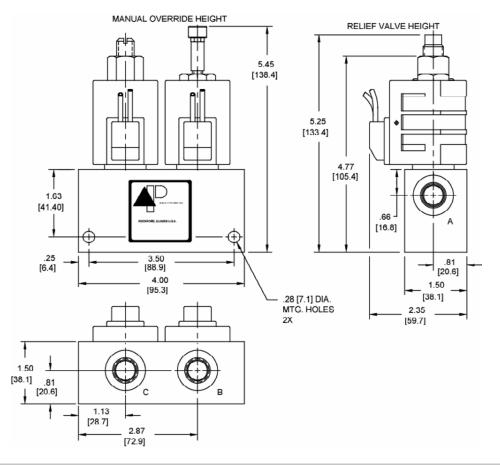
Pre-engineered circuit, option model I*.

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)



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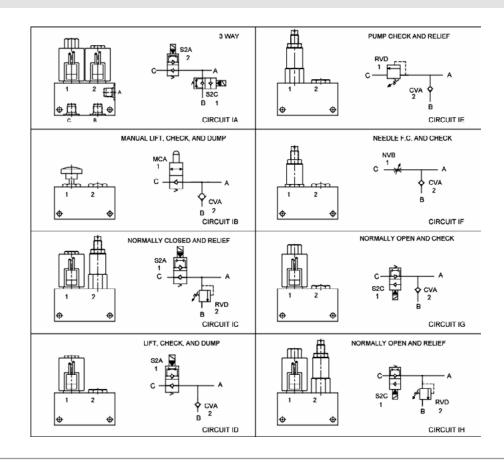
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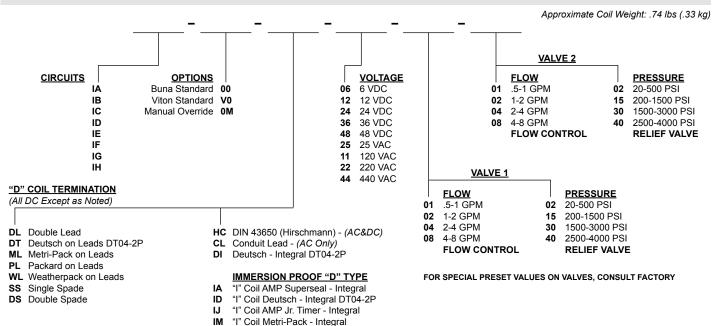
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OPTIONS CHART



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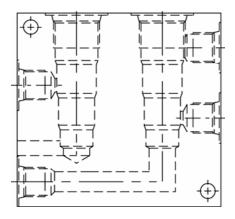
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL J*

BASE BODY - 20200010 = #6 SAE



BODY WEIGHT: 1.50 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

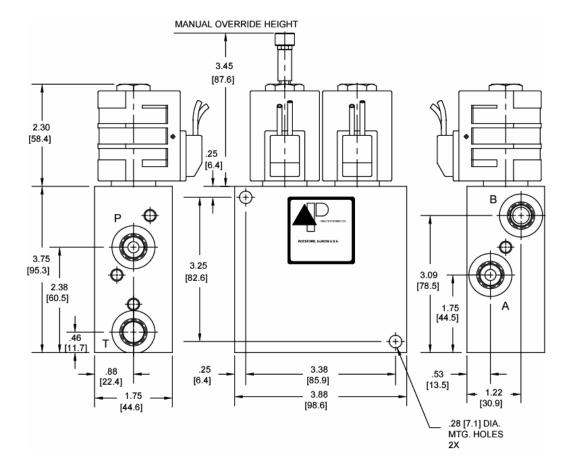
Pre-engineered circuit, option model J*.

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)



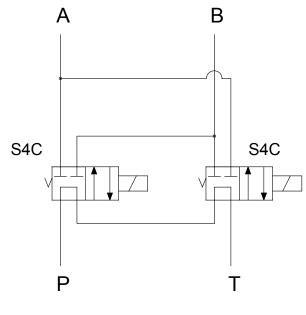
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

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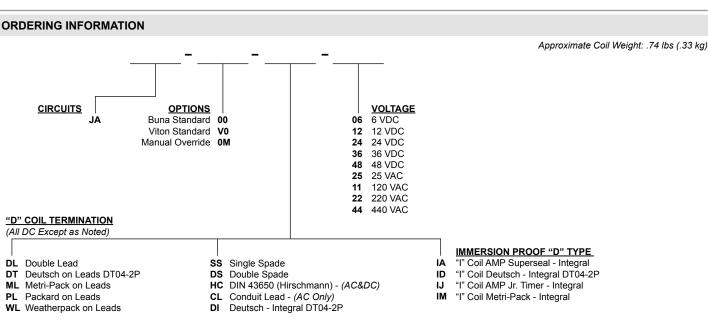
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TECNORD



4W 3P TANDEM CENTER

CIRCUIT JA



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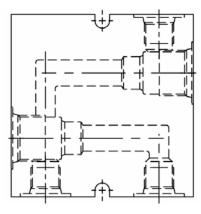


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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL K*

BASE BODY - 20200011 = #6 SAE



BODY WEIGHT: 1.50 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

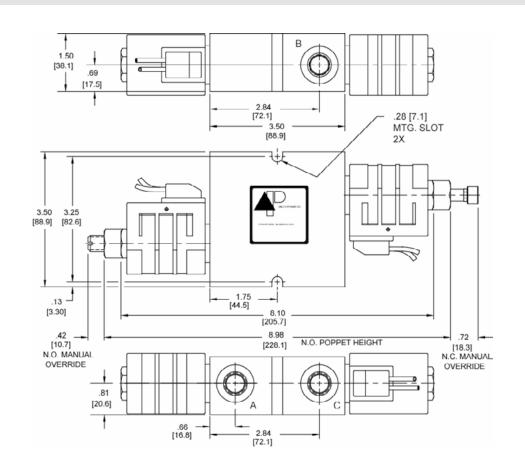
Pre-engineered circuit, option model K*.

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)



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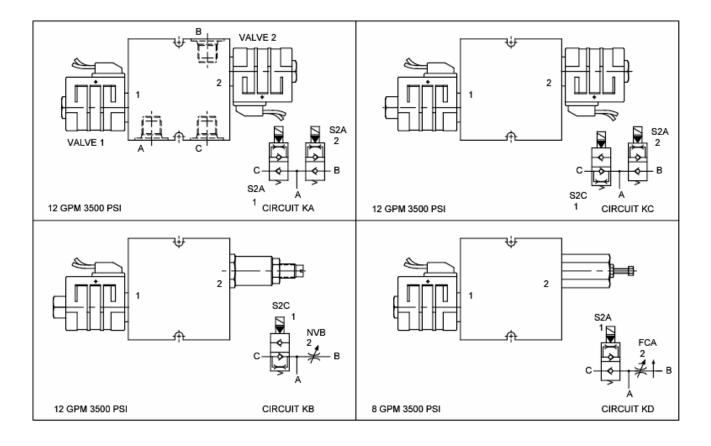
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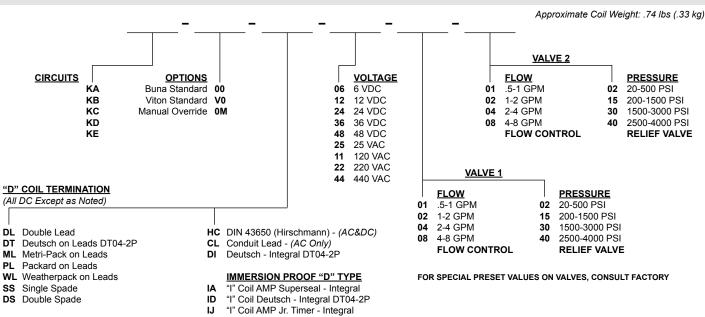
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OPTIONS CHART



ORDERING INFORMATION



IM "I" Coil Metri-Pack - Integral

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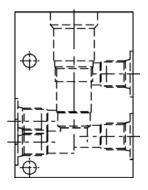
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL L*

BASE BODY - 20200012 = #6 SAE



BODY WEIGHT: 1.80 lbs (.82 kg)

DIMENSIONS

DESCRIPTION

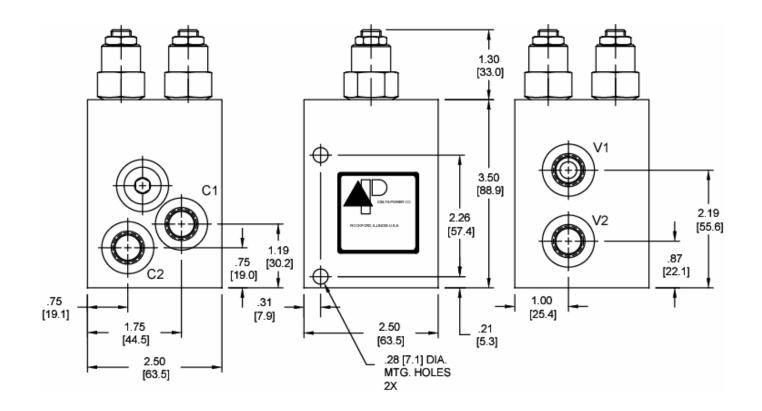
Pre-engineered circuit, option model L*.

OPERATION

See typical schematic for specific operation.

VALVE SPECIFICATIONS

15 GPM (60 LPM)
See Options Chart for Pres. Range
36 to 3000 SSU (3 to 647 cSt)
30 micron nominal
-40° to 250°F (-40° to 120°C)
General Purpose Hydraulic Fluid
Special Series M20X1.5-H6
Thread
30 ft-lbs (40.6 Nm)



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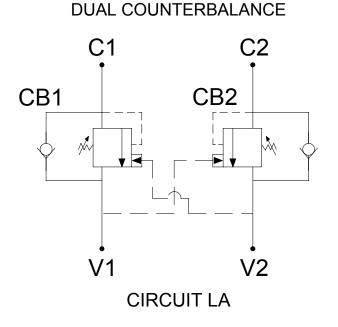
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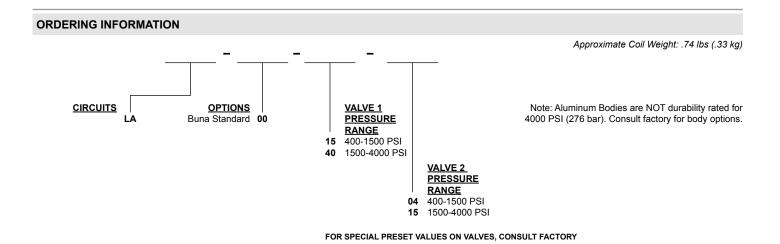


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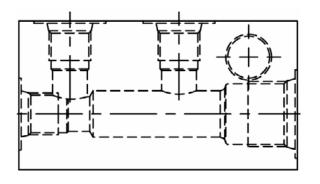
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL M*

BASE BODY - 20200013 = #6 SAE



BODY WEIGHT: 1.09 lbs (.49 kg)

DIMENSIONS

DESCRIPTION

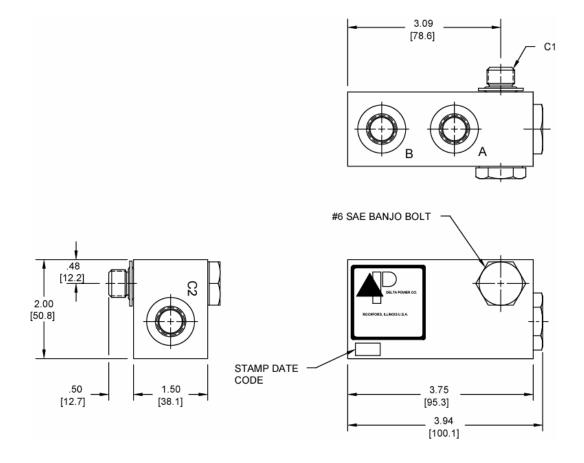
Pre-engineered circuit, option model M*.

OPERATION

See typical schematic for specific operation.

VALVE SPECIFICATIONS

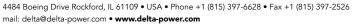
Nominal Flow	12 GPM (45 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Ratio	4:1
Cartridge Size	M20 X 1.5
Cartridge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



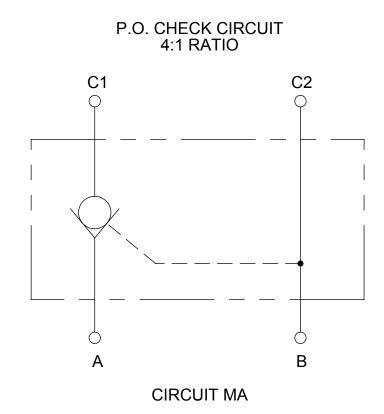
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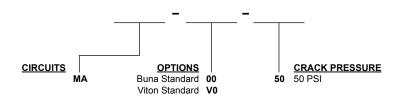




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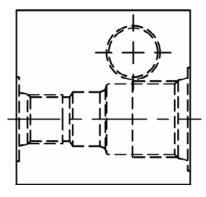
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL N*

BASE BODY - 20200014 = #6 SAE



BODY WEIGHT: 1.09 lbs (.49 kg)

DIMENSIONS

DESCRIPTION

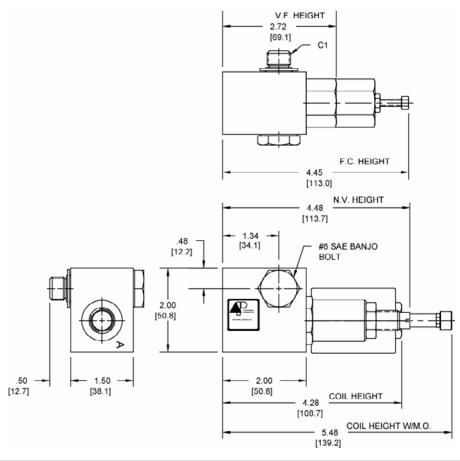
Pre-engineered circuit, option model N*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

See Options Chart for Flow Range
See Options Chart for Pres. Range
36 to 3000 SSU (3 to 647 cSt)
30 micron nominal
-40° to 250°F (-40° to 120°C)
General Purpose Hydraulic Fluid
Delta Series 7/8-14 Thread
30 ft-lbs (40.6 Nm)
4-6 ft-lbs (5.4-8.1 Nm)



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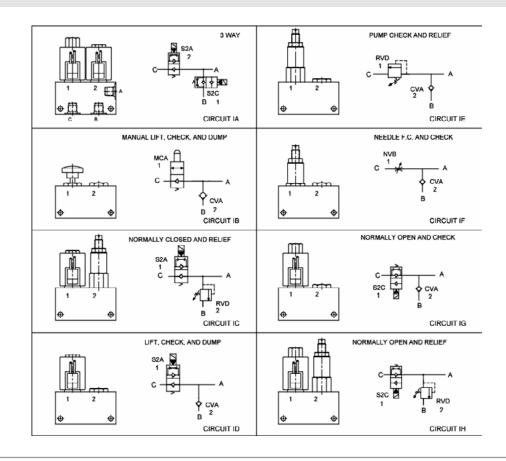
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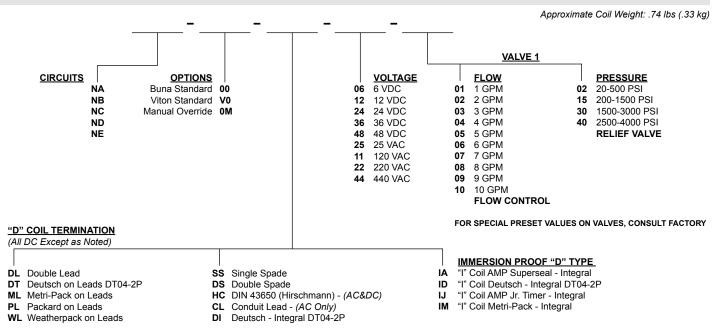
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OPTIONS CHART



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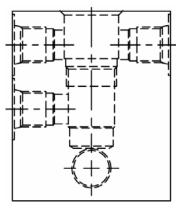
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PRE-ENGINEERED CIRCUIT, OPTION MODEL O*

BASE BODY - 20200015 = #6 SAE



BODY WEIGHT: 1.09 lbs (.49 kg)

DIMENSIONS

DESCRIPTION

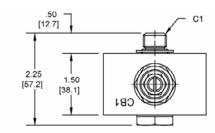
Pre-engineered circuit, option model O*.

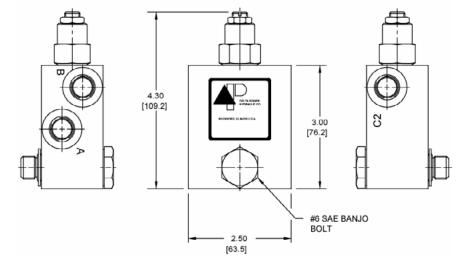
OPERATION

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)





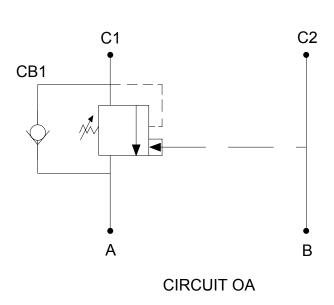
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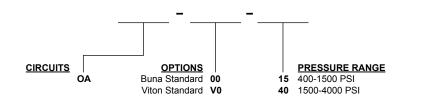
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TECNORD



COUNTERBALANCE

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FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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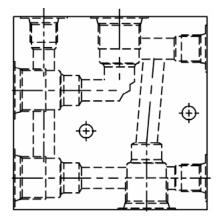
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL P*

BASE BODY - 20200017 = #6 SAE



BODY WEIGHT: 1.5 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

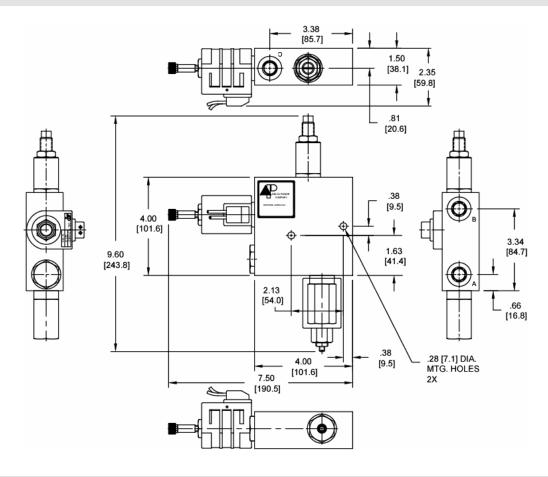
Pre-engineered circuit, option model P*.

OPERATION

See options chart for specific operation (back).

VALVE SPECIFICATIONS

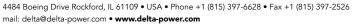
Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge 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)



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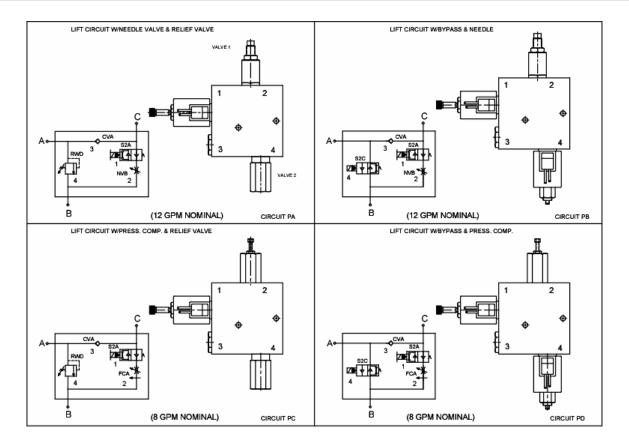
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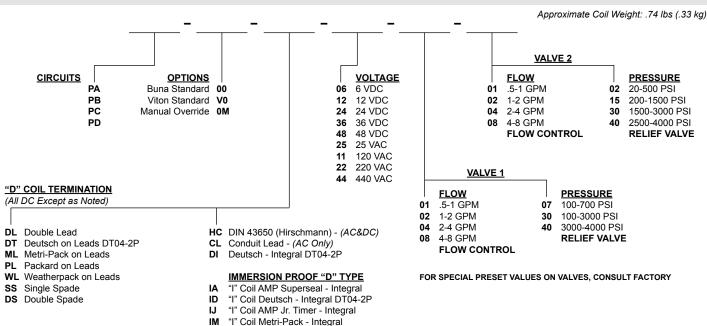


TECNORD

OPTIONS CHART



ORDERING INFORMATION



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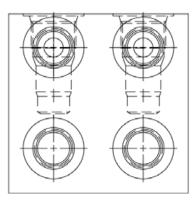
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TECNORD

PRE-ENGINEERED CIRCUIT, OPTION MODEL Q*

BASE BODY - 20200018 = #8 SAE



BODY WEIGHT: 1.50 lbs (.68 kg)

DIMENSIONS

DESCRIPTION

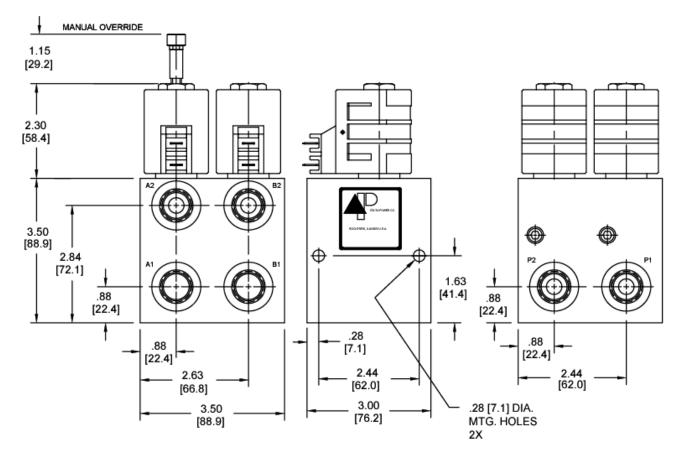
Pre-engineered circuit, option model Q*.

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)



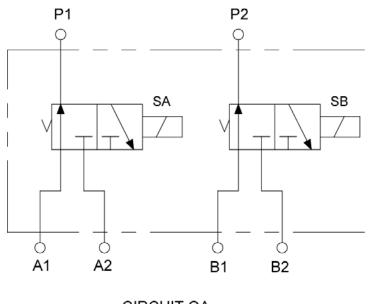
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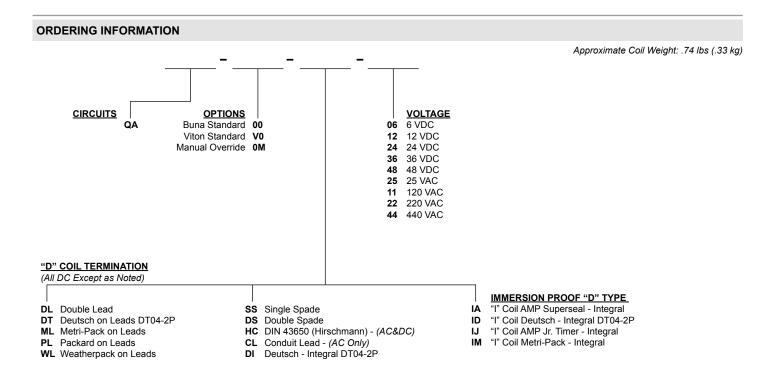


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CIRCUIT QA



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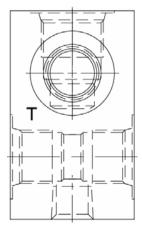
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PRE-ENGINEERED CIRCUIT, OPTION MODEL R*

BASE BODY - 20200019 = #8 SAE



BODY WEIGHT: .66 lbs (.30 kg)

DIMENSIONS

DESCRIPTION

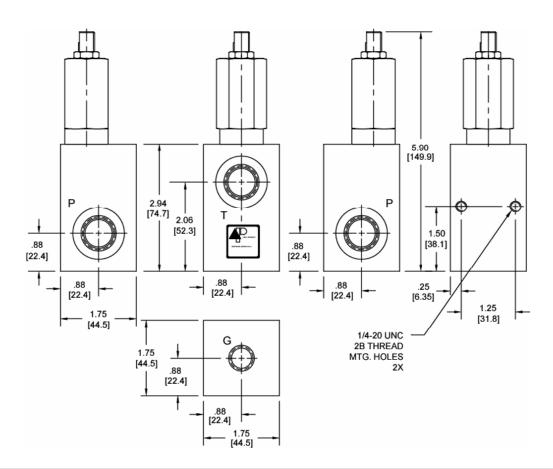
Pre-engineered circuit, option model R*.

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)



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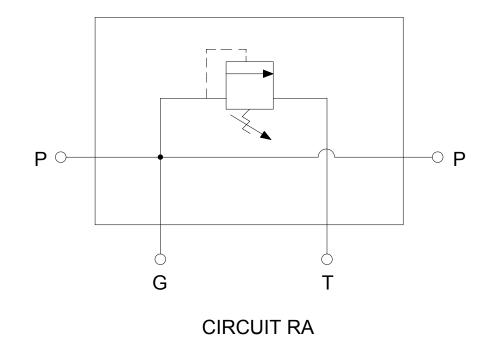


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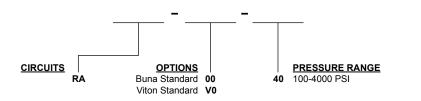
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FOR SPECIAL PRESET VALUES ON VALVES, CONSULT FACTORY

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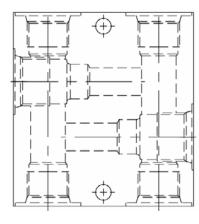
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PRE-ENGINEERED CIRCUIT, OPTION MODEL S*

BASE BODY - 20200020 = #8 SAE



BODY WEIGHT: 1.2 lbs (.54 kg)

DIMENSIONS

DESCRIPTION

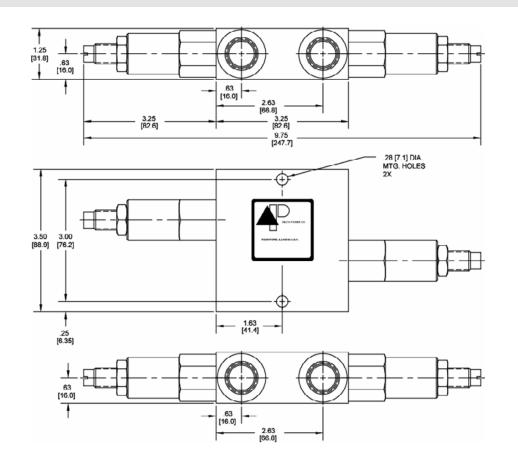
Pre-engineered circuit, option model S*.

OPERATION

See options chart for specific operation.

VALVE SPECIFICATIONS

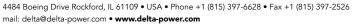
Nominal Flow	See Options Chart for Flow Range
Rated Operating Pressure	See Options Chart for Pres. Range
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	30 micron nominal
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge 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)



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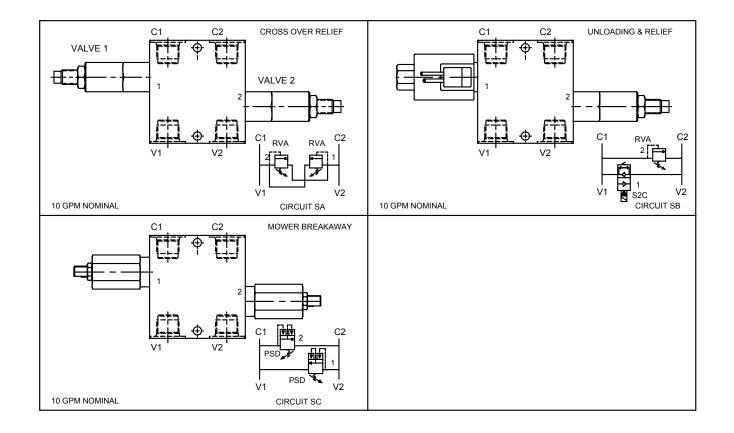
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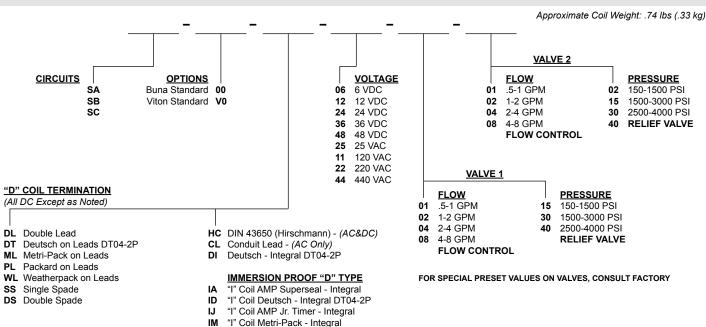


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OPTIONS CHART



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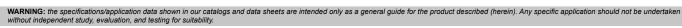
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PRE-ENGINEERED

HP4
HP6
HP8





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FAN DRIVE HIC	GPM	PSI	LPM	BAR	MODEL	PAGE
	2.5 to 10	3650	10 to 40	250	HFD-A	HP4
	5 to 20	3650	20 to 80	250	HFD-B	HP6

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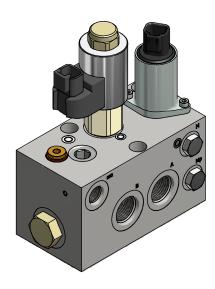
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HFD SERIES PROPORTIONAL REVERSING FAN DRIVE HIC

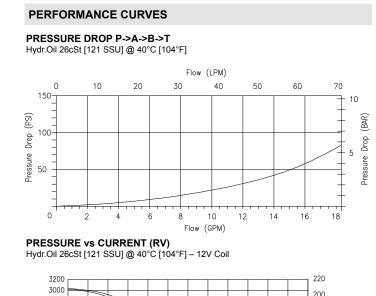


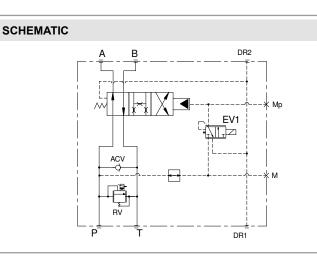
DESCRIPTION

The HFD hydraulic block controls the cooling fan speed, modulating the supply pressure to the fan motor. By actuating the Pilot Operated Directional Valve, the oil flow to the motor is reversed, permitting the de-clogging of the cooling pack, increasing its efficiency and avoiding over-heating.

FEATURES

- Best-in-Class Pressure Drop (considering the compact overall dimensions).
- Normally Closed Proportional Pressure Relief valve EE-PRB (RV) the supply pressure decreases by increasing the current; if the current goes to zero, the fan speed goes to max (fail safe).
- Reversing Pilot Valve IP-DAR43 (EV1) Controllable both On/Off and Proportional.
- Reversing Directional Valve special design for soft reversing without anti-shock valves to protect the motor from pressure peaks.
- Anti-cavitation Check on the P-line (ACV).
- External pilot option (from Port M).
- Version without Proportional Pressure Relief Valve available for application with Variable Displacement Pump (contact Tecnord/Delta Power for details).





VALVE SPECIFICATIONS

Nominal Flow	A version - 20 GPM (40 LPM)
Norminal Flow	B version - 40 GPM (80 LPM)
	B VEISIOIT - 40 GEIM (OU LEIM)
Rating Operated Pressure	3650 PSI (250 bar)
Minimum Pressure to pilot	A version - 5 bar
	B version - 10 bar
Coil Voltage	12V/24V
PWM Dither	150Hz
Coil Termination	Deutsch DT04-2P
Fluid Temperature Range	5° to 220°F (-15° to +105°C)
Viscosity Range	3-650 cSt
Oil Filtration Degree	18/15 (ISO 4406)
Weight	12 lbs (5.8 kg)

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Pressure

Setting

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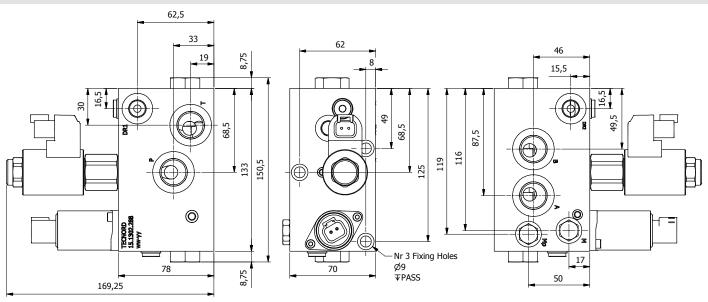
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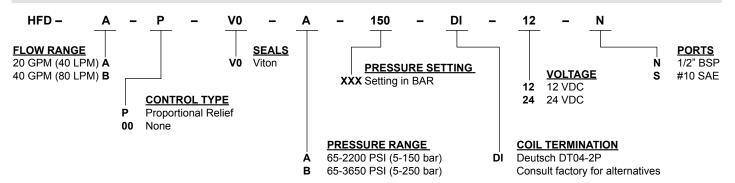
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DIMENSIONS



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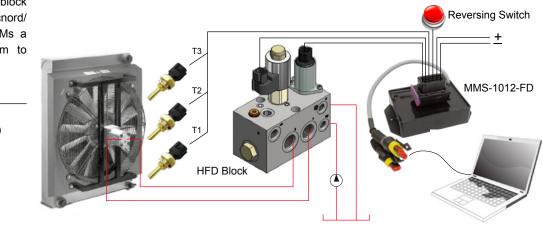
EHFD SYSTEM - ELECTRO HYDRAULIC FAN DRIVE SYSTEM

Combining the HFD hydraulic block and MMS-1012-FD Controller, Tecnord/ Delta Power can provide to OEMs a complete electro-hydraulic system to control the Fan Motor.

FEATURES

- Up to 3 Temperature Inputs
- Up to 2 Digital Inputs (Switches)
- 2x PWM Output
- 3x ON/OFF Outputs
- PC-programmable
- IP67

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