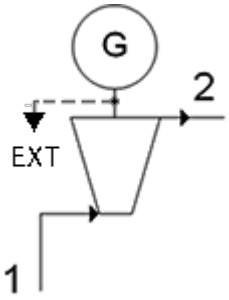
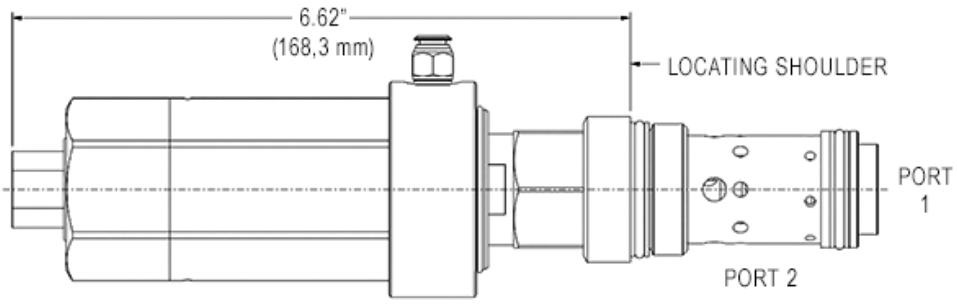




This valve is a 2 port cartridge designed to convert hydraulic power from your application into electrical power. The valve accepts flow from Port 1 to Port 2 and outputs a 3-phase AC voltage signal.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-16A
Series	3
Number of Outputs	1
Vibration	33.3 Hz 6.8g Peak (Spec: S-367 Section 11.0)
Shock	49g Peak (Spec: S-367 Section 12.0)
Maximum Ambient Temperature	160 °F
Duty Cycle Rating	100 %
Connector	4-Pin Deutsch (3 Phase AC Output)
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Model Weight	2.36 lb.
IP Rating	IP69K
Seal kit - Cartridge	Viton: 990-316-006

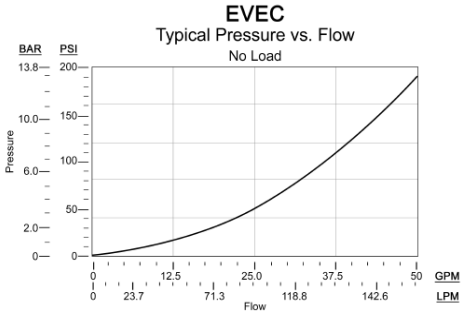
OPTION SELECTION EXAMPLE: EVECXXV

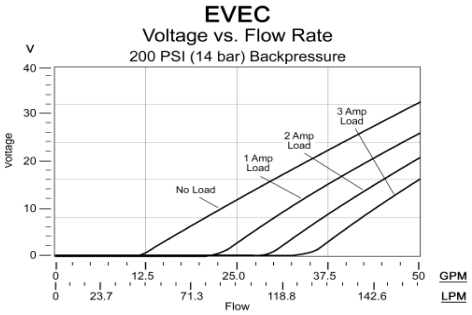
CONTROL	(X)	FUNCTIONAL SETTING RANGE	(X)	SEAL MATERIAL	(V)
X Standard		X No Check		V Viton	

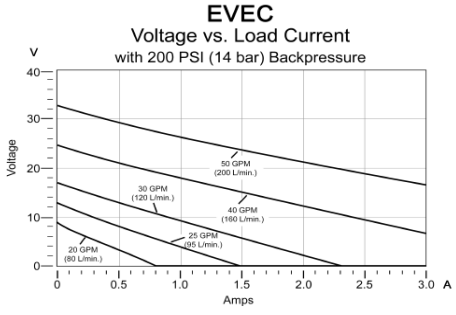
TECHNICAL FEATURES

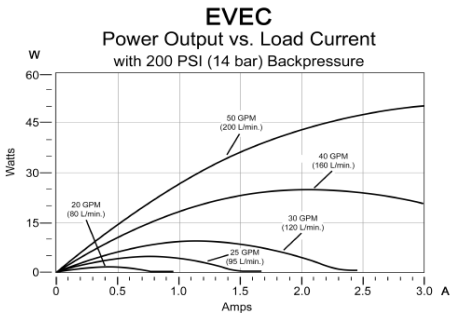
- Power cable with mating connector is required (not included).
- The valve exhibits up to 6 drops per hour of internal leakage into the electronics housing. The auxiliary drain port must be gravity fed and therefore remain at atmospheric pressure to prevent submersion of the electronics.
- Valve must be installed in an upright or horizontal orientation. When installed horizontally, the collar should be positioned so that the drain is oriented downward.
- This product can handle a maximum of 200 PSI (14 bar) at port 2 and is designed to harvest energy from fluid destined to return to tank.
- Higher electrical loads and lower Port 2 pressure have a positive effect in reducing leakage.
- In addition to elevated leakage, higher than rated pressures at Port 2 result in a reduction in the power output.
- The electrical output is unregulated. Most applications will require external rectification/regulation. Please visit our technical tips for off-the-shelf suggestions on rectification/regulation for 12V systems.
- Meets new NFPA test standard T2.6.1 R2014 for fatigue and burst pressure ratings.
- Zinc-nickel plating standard for 1000-hour salt fog protection.
- Only 3 pins of the Deutsch DT04-4P Connector are used. The 4th pin is unused. Please see pinout for reference.
- Do not apply installation torque to the anodized aluminum motor housing.
- This valve is CE compliant. It meets the requirements for RF Radiated Emissions (IEC 61000-6-4), Radiated Immunity (IEC 61000-4-3), and Magnetic Field Immunity (IEC 61000-4-8).
- When torquing this cartridge into its cavity, a crow's foot wrench or similar will be required since the motor housing precludes the use of a deep socket wrench.

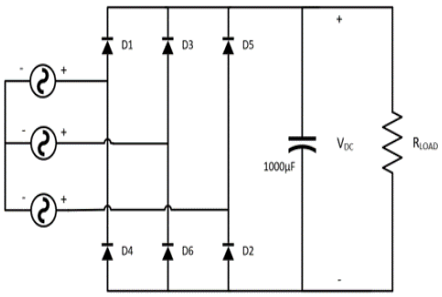
PERFORMANCE CURVES








EVEC
Power Output vs. Load Current
with 200 PSI (14 bar) Backpressure
W
60
45
30
15
0
Watts
50 GPM
(200 L/min.)
40 GPM
(160 L/min.)
30 GPM
(120 L/min.)
25 GPM
(95 L/min.)
20 GPM
(80 L/min.)
0
0.5
1.0
1.5
2.0
2.5
3.0
A
Amps


D1
D3
D5
D4
D6
D2
+
-
1000µF
VDC
RLOAD