THM HYDRAULICS

Proportional Flow Control Cartridge Valve

Index

T2PV70-30A Proportional flow control valve slide valve type

Description:

A solenoid operated, 3-way, 2 position, spool-type cartridge valve.

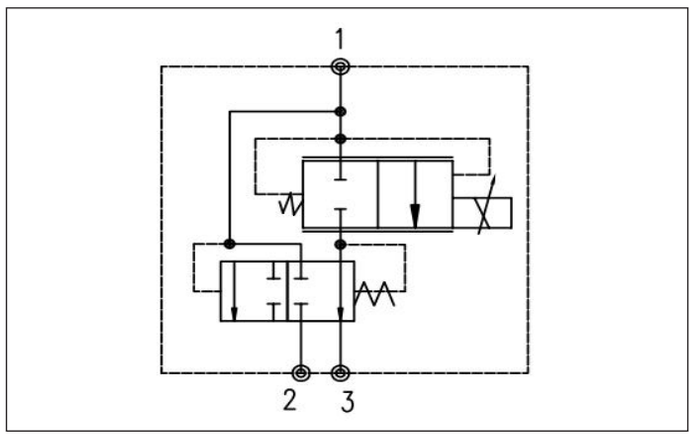
Operation:

The T2PV70-30A will regulate the flow of oil port 3, independent of the operating pressure of the system. As the current in the solenoid valve increases, the output flow of the KPV70-30A will also increase.

Operation of Manual Override Option:

When staring: rotate clockwise about 1 turn to reach the starting point. Continue to rotate for about 5 more turns to reach the maximum displacement.
End: Rotate counterclockwise for about 6 cycles to a forward stop.

Symbol:

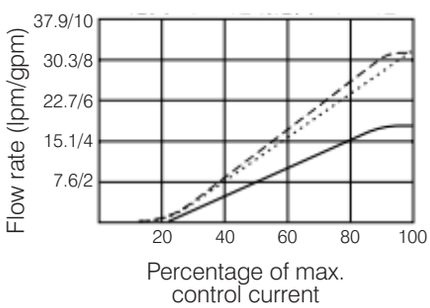


Specifications

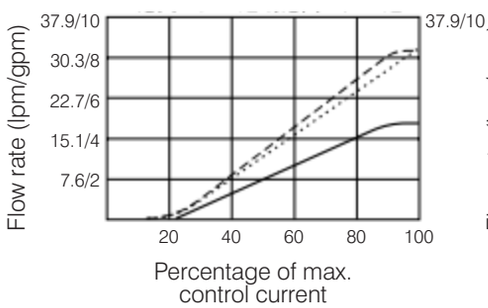
Operating Pressure	207 Bar
Max. Input Flow	50L/min
Max. Priority Flow	26L/min
Sol. valve voltage	24V±15%DC
Max. Cont. Current	800mA±100mA
Internal Leakage	(Per land)82cc/min.(ml/) max. at 207bar
Temperature	-20°C to +90°C
Filtration	Reference filter requirements
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	VC10-3
Sol. val. connector	DT04-2P

Charge Flow Curve

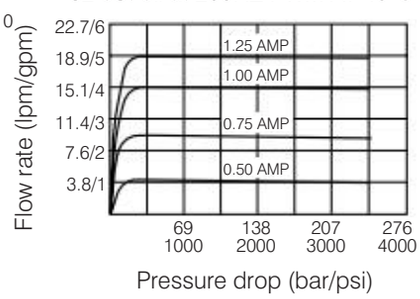
207bar; 12V coil; 200HZ PWM
32cSt oil @ 40°C
(Range A, two way),
(Range A, three way),
(Range B,
two way; Range A, three way)



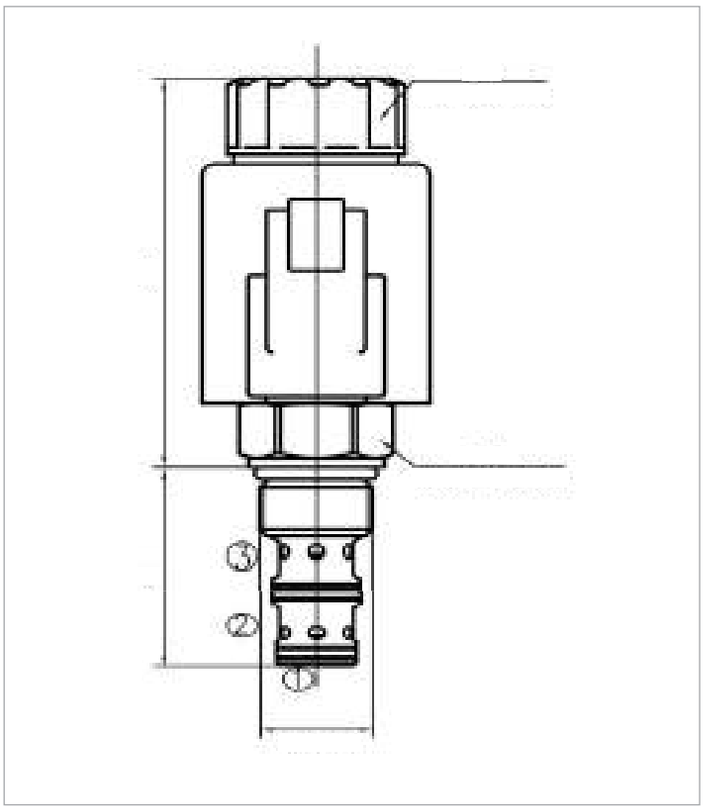
Adjust flow and pressure drop
Two way: Flow range A
240 bar inlet 12V coil;
32 cSt oil at 200HZ PWM AT 40°C



Adjust flow and pressure drop
Two way: Flow range B
240 bar inlet 12V coil;
32 cSt oil at 200HZ PWM AT 40°C



Installation Dimensions



Ordering code

T2PV70-30A				

T2PV70-30A

Order plug-ins only = O

Seals
Buna N (Sta) = N
Fluorocarbon = V

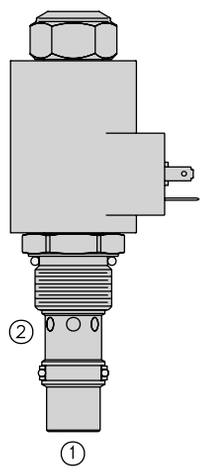
Coil specification
12V = 12
24V = 24

Coil terminal
Standard coil terminal
Din 43650 = DG
Wire (2) = DL
E-coil terminal
Deutsch DTO4-2P = ER
(Compliant with IP69K standard)

T2PV72-20 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, two-way, pressure-compensated, slide-valve type, normally closed when powered off, proportional flow control valve.

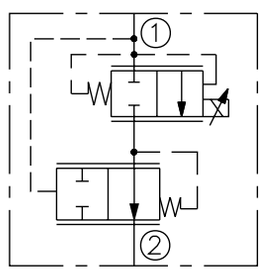


How it works

T2PV72-20 will regulate the flow rate at port ② and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV72-20 will also increase. Operation of the emergency manual override option:.

When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 revolutions until the positive stop occurs.

USASI/ISO:



Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Highly efficient wet armature structure.
- Solenoid coil voltage and terminals are selectable.
- The voltage of the cartridge valves is interchangeable.
- Unified coil casting design.
- Waterproof coil standard.
- Emergency manual override option.

Characteristics:

- Working pressure: Oil port ① : 240 bar (3500 psi); Oil port ②: 207 bar (3000 psi).
- Adjustable flow rate: 0～56 lpm (0～15 gpm).
- Internal Leakage: 0.38 lpm (0.1 gpm) at 207 bar (3000 psi) with valve fully closed.
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	250 ± 100 mA	1500 ± 100 mA
24 VDC	125 ± 50 mA	750 ± 50 mA

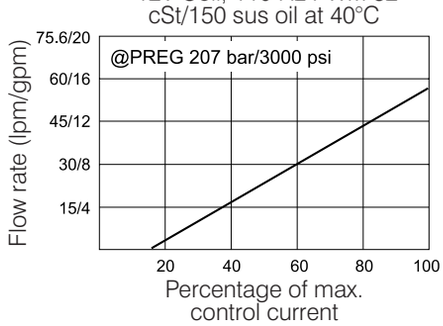
- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC12-2 valve hole changes “B”;

Performance graph

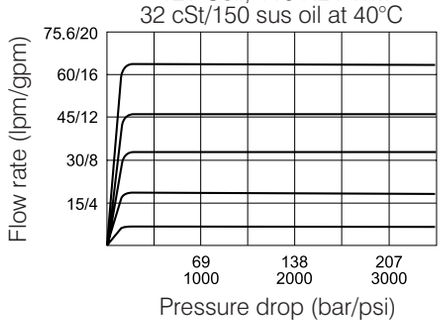
Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

Flow and current
Input Pressure: 240 bar/3500 psi
12V Coil; 110 Hz PWM 32
cSt/150 sus oil at 40°C



Adjust flow and pressure drop
Input Pressure: 240 bar/3500 psi
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Ordering code

T2PV72-20 __ - ___ - __ - ____

Options

None	= (blank)
Emergency manual control	= M
Emergency manual control with insurance	= G

Valve block oil port

Refers to plug-ins only	= 0
SAE 10	= 10T
SAE 12	= 12T
SAE 16	= 16T

Seals

Standard nitrile rubber	= N
Fluorocarbon	= V

Voltage

No coil	= 0
12 VDC	= 12
24 VDC	= 24

Standard coil terminals

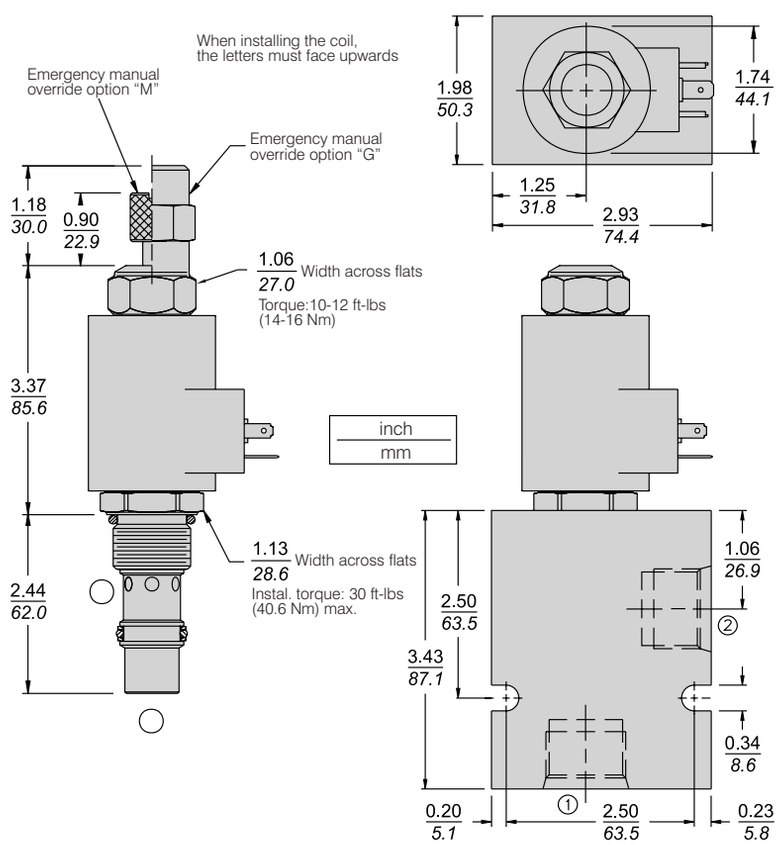
Double spade joint	= DS
DIN 43650	= DG
Wire (2)	= DL
Lead wire with Weatherpak® Connectors	= DL/W

E type coil Terminal

Deutsch DT04-2P (conform to IP69K standard)	= ER

Coils with built-in diodes are also available. Consult factory.

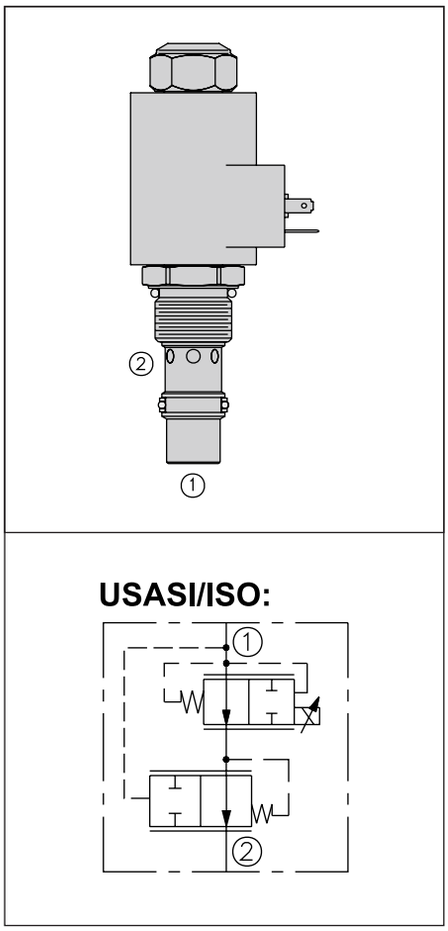
Unit Dimensions



T2PV72-21 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, two-way, pressure-compensated, spool-type, normally open when powered off, proportional flow control valve.



How it works

T2PV72-20 will regulate the flow rate at port ② and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV72-21 will decrease. Operation of the emergency manual override option:.

When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 revolutions until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Highly efficient wet armature structure.
- Solenoid coil voltage and terminals are selectable.
- The voltage of the cartridge valves is interchangeable.
- Unified coil casting design.
- Waterproof coil standard.
- Emergency manual override option.

Characteristics:

- Working pressure: Oil port ① : 240 bar (3500 psi); Oil port ②: 207 bar (3000 psi).
- Regulated flow rate: 56 lpm（15 gpm）
- Internal Leakage: 0.38 lpm (0.1 gpm) at 207 bar (3000 psi) with valve fully closed.
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	150 ± 100 mA	1350 ± 150 mA
24 VDC	75 ± 50 mA	675 ± 75 mA

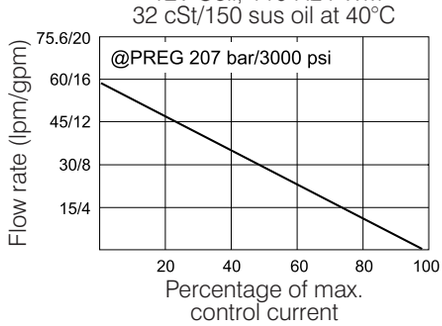
- Medium: Viscosity between 7.4～420 cSt (50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC12-2 valve hole variation “B”;

Performance graph

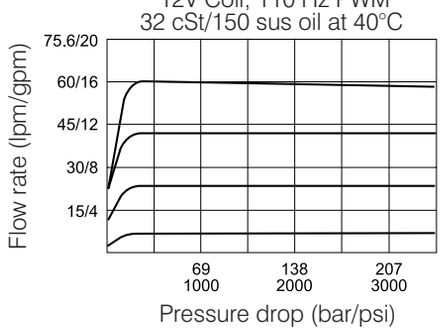
Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

Flow and current
Input Pressure: 240 bar/3500 psi
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Adjust flow and pressure drop
Input Pressure: 240 bar/3500 psi
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Ordering code

T2PV72-21 __ - ___ - __ - ____

Options

None	= (blank)
Emergency manual control	= M
Emergency manual control with insurance	= G

Valve block oil port

Refers to plug-ins only	= 0
SAE 10	= 10T
SAE 12	= 12T
SAE 16	= 16T

Seals

Standard nitrile rubber	= N
Fluorocarbon	= V

Voltage

No coil	= 0
12 VDC	= 12
24 VDC	= 24

Standard coil terminals

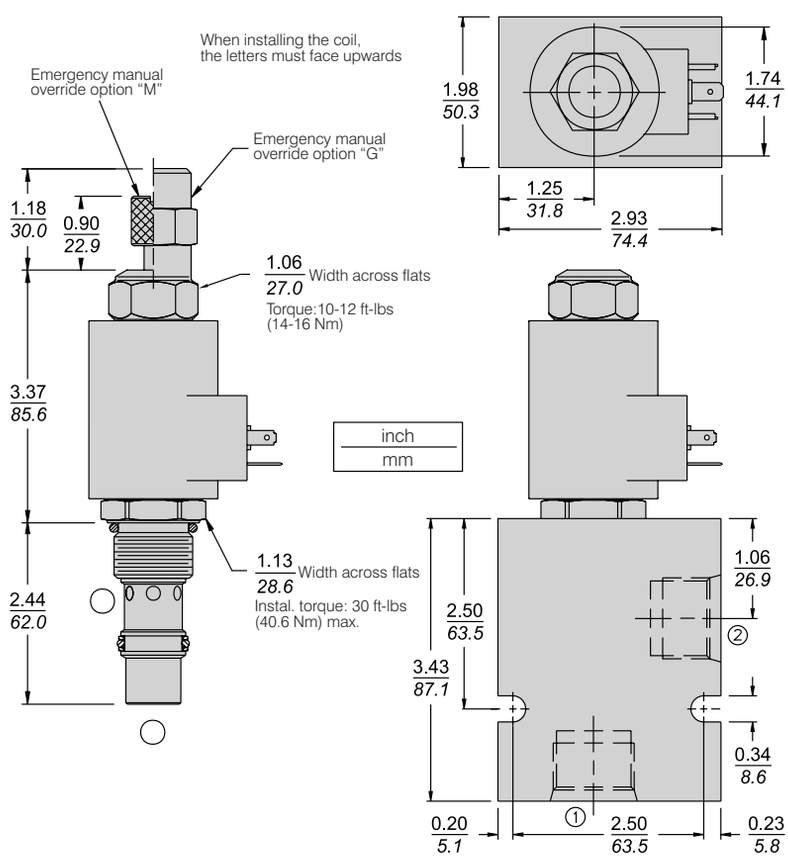
Double spade joint	= DS
DIN 43650	= DG
Wire (2)	= DL
Lead wire with Weatherpak® Connectors	= DL/W

E type coil Terminal

Deutsch DT04-2P (conform to IP69K standard)	= ER

Coils with built-in diodes are also available. Consult factory.

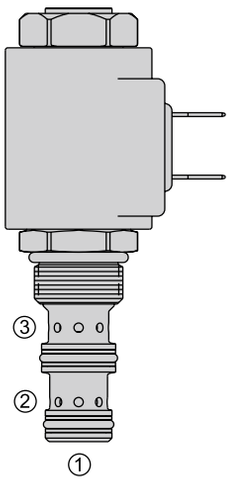
Unit Dimensions



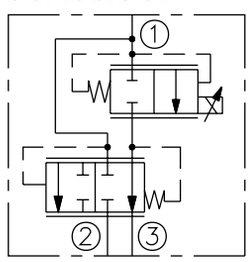
T2PV08-30 Proportional Flow Control Cartridge Valve

Describe

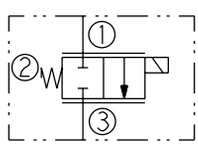
Solenoid-driven, variable electrical parameters, three-way, pressure-compensated, spool-type, normally closed when powered off, proportional flow control valve, can be used as a priority flow regulator with pressure compensation, regulation and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as a throttling type, 2-way, pressure compensated flow regulator.



USASI/ISO:



2-Ported



How it works

T2PV08-30 will regulate the flow rate at port ③ and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV08-30 will also increase.

Note: If the equipment's priority flow port is blocked (dead point) by an external valve, a small oil relief hole needs to be set at the priority port (port ③) when the valve is used for bypass flow control. Please consult the factory.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.

Characteristics:

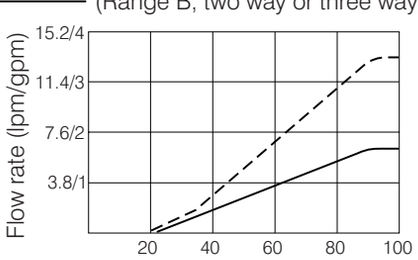
- Working pressure: Inlet: 240 bar (3500 psi); Oil port ②: 207 bar (3000 psi).
- Adjust the flow rate: Bypass cutoff, range A: 11.4 lpm (3.0 gpm) Bypass cutoff, range B: 5.7 lpm (1.5 gpm), Bypass open, range A:11.4 lpm (3.0 gpm), Bypass open, range B: 5.7 lpm (1.5 gpm)
- Rated input flow: Bypass open, range A: 15.2 lpm (4.0 gpm) Bypass on, range B: 7.6 lpm (2.0 gpm)
- Internal Leakage: 100 ml/min (6 cu. in./min) at 207 bar (3000 psi) with valve fully closed.
- Electrical characteristics: 2 voltage standards. (using EHPR Series coils)

Coil voltage	Threshold current	Max. control current
12 VDC	400 ± 100 mA	1400 ± 150 mA
24 VDC	200 ± 50 mA	700 ± 75 mA

- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC08-3;

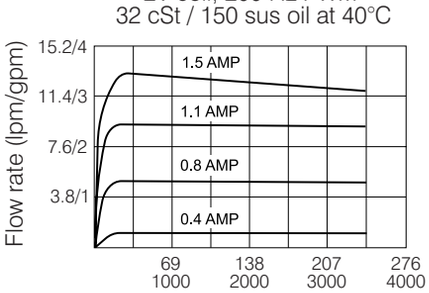
Performance graph

Rated flow and current
207 bar/3000 psi;12VCoil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C
– – – – – (Range A, two way or three way),
——— (Range B, two way or three way)



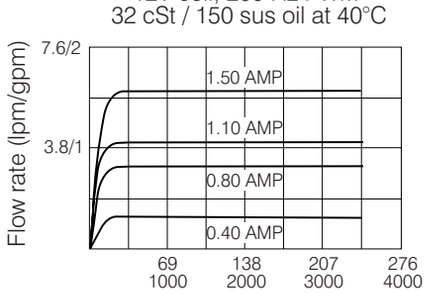
Percentage of max. control current

Adjust flow and pressure drop
Two way: Flow range A
240 bar/ 3500 psi inlet
2V coil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C



Pressure drop (bar/psi)

Adjust flow and pressure drop
Two way: Flow range A
240 bar/ 3500 psi inlet
12V coil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C



Pressure drop (bar/psi)

Ordering code

T2PV08-30 __ __ - ____ - __ - ____

Flow Range (Required, reference Performance curve) = A, B

Options
None = (blank)

Valve block oil port
Refers to plug-ins only = 0
SAE 6 = 6T
3/8 inch BSP* = 3B

Seals
Standard nitrile rubber = N
Fluorocarbon = V

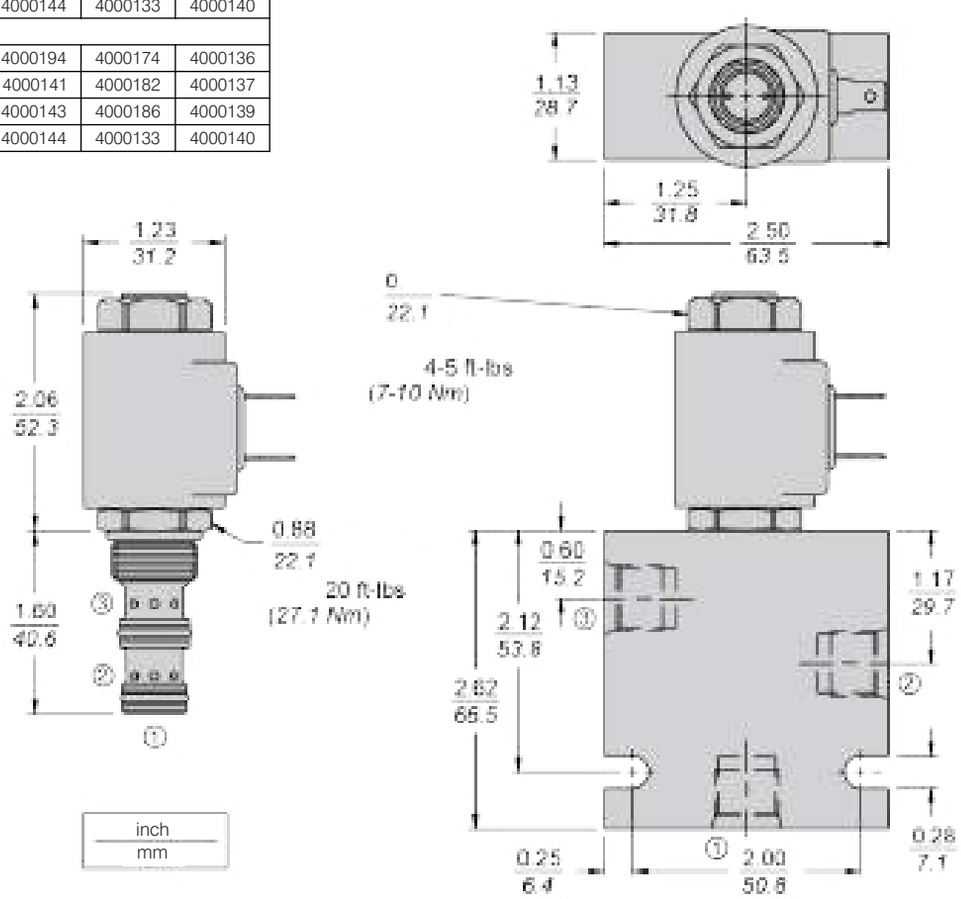
Standard coil terminals
Double spade joint = DS
DIN 43650 = DG
Wire (2) = DL
Lead wire with Weatherpak® Connectors = DL/W
Coils with built-in diodes are also available. Consult factory.

Voltage
No coil = 0
12 VDC = 12
24 VDC = 24

Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

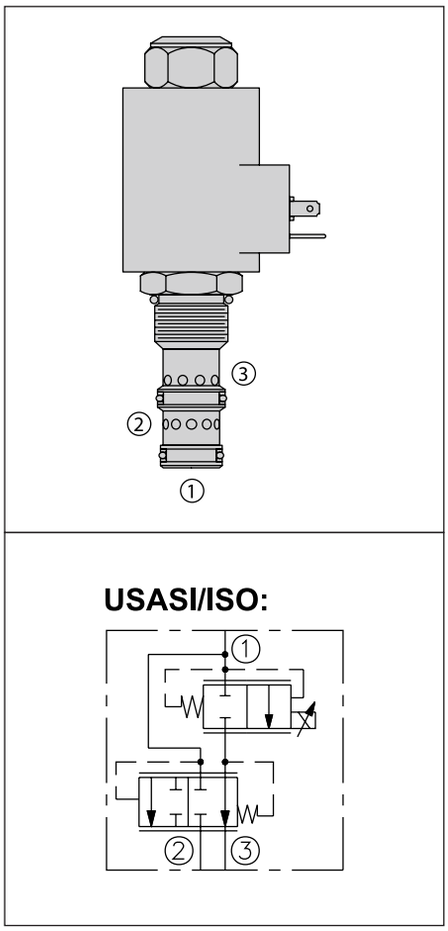
Unit Dimensions



T2PV72-30 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, two-way, pressure-compensated, spool-type, normally closed when powered off, proportional flow control valve. It can be used as a priority flow control valve with pressure compensation to regulate and bypass flow, when the bypass line is closed (Oil port ②), it can also be used as 2-way throttling type pressure compensated flow control valve.



How it works

T2PV72-30 will adjust the flow rate at port ③ and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV72-30 will also increase.
Note: If the unit's priority flow port is blocked by an external valve, the bypass pressure drop will increase if the valve is used for bypass flow control without causing a small amount of leakage from the priority port. Consult factory.
Emergency manual control operation:
When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 revolutions until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics and waterproof coil standard.
- The valve core and valve sleeve are hardened and durable.
- Highly efficient wet armature structure and unified coil casting design.
- Solenoid coil voltage and terminals are selectable and
- The voltage of the cartridge valves is interchangeable.
- Emergency manual override option

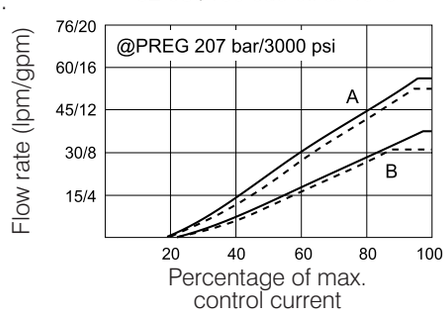
Characteristics:

- Working pres.: Oil port ① : 240 bar (3500 psi); Oil port ②&③: 207 bar (3000 psi).
- Regulated flow rate of three-way mode:
  Range A: 57 lpm (15 gpm) Range B: 38 lpm (10 gpm)
- Maximum input flow rate of three-way mode: Range A and B:114 lpm (30 gpm)
- Maximum flow rate in two-way mode:
  Range A: 53 lpm (14 gpm) Range B: 31 lpm (8 gpm)
- Note: To increase the flow rate of a two-way flow control, see model T2V72-20,
- Internal Leakage: 0.38 lpm (0.1 gpm) at 207 bar (3000 psi) with valve fully closed.
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	350 ± 100 mA	1600 ± 200 mA
24 VDC	175 ± 50 mA	800 ± 100 mA

- Medium: Viscosity between 7.4~420 cSt (50~2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC12-3;

Flow and current
Input Flow: 76 lpm/20 gpm
12V Coil; 110 Hz PWM
Three way——; Two way----
32 cSt/150 sus oil at 40°C

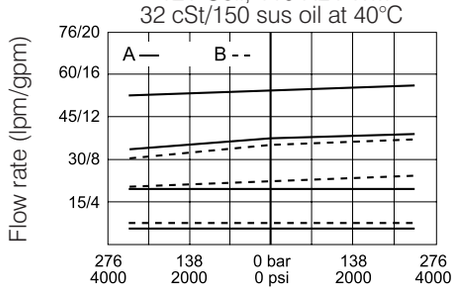


Performance graph

Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

Adjust flow and pressure
Input Flow: 76 lpm/20 gpm;
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Ordering code

T2PV72-30__ __ - ___ ___ - __ - ___ ___ ___

Flow Range (See performance curve) = A, B

Options
- None = (blank)
- Emergency manual control = M
- Emergency manual control with insurance = G

Valve block oil port
- Refers to cartridge only = 0
- SAE 10 = 10T
- SAE 12 = 12T
- SAE 16 = 16T
- 1/2 inch BSP* = 4B
- 3/4 inch BSP* = 6B

Seals
- Standard nitrile rubber = N
- Fluorocarbon = V

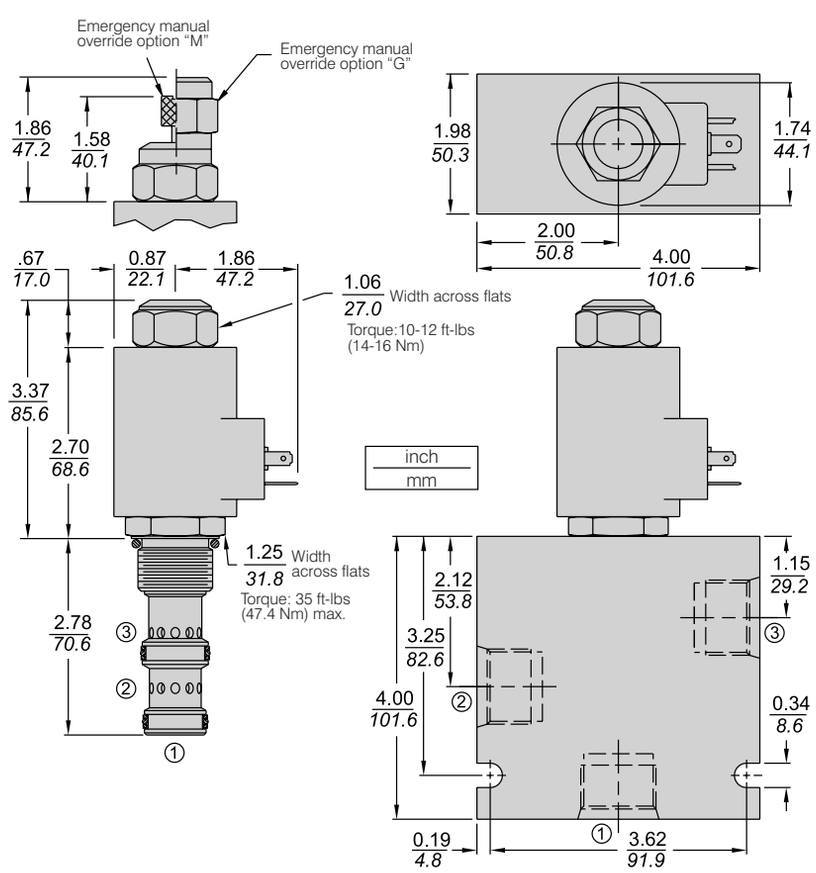
Standard coil terminals
- Double spade joint = DS
- DIN 43650 = DG
- Wire (2) = DL
- Lead wire with Weatherpak® Connectors = DL/W

E type coil Terminal
- Deutsch DT04-2P (conform to IP69K standard) = ER

Coils with built-in diodes are also available. Consult factory.

Voltage
- No coil = 0
- 12 VDC = 12
- 24 VDC = 24

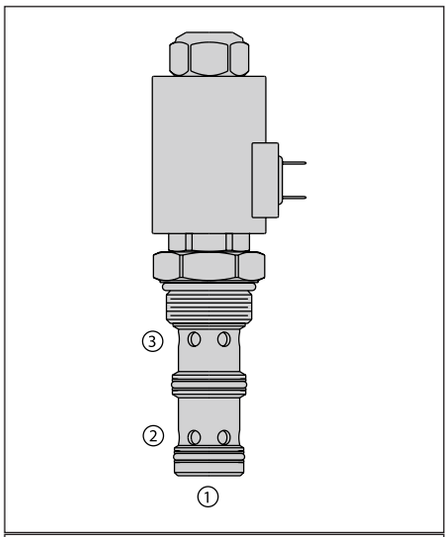
Unit Dimensions



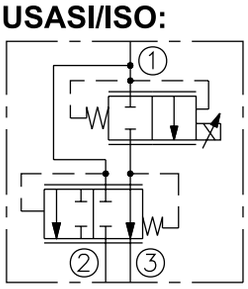
T2PV76-30A Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, three-way, pressure-compensated, spool-type, normally closed when powered off, proportional flow control valve. It can be used as a priority flow control valve with pressure compensation to regulate and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as a throttling type, 2-way, pressure compensated flow control valve.



USASI/ISO:



How it works

T2PV76-30A will regulate the flow rate at port ③ and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV08-30 will also increase.

Note: If the equipment's priority flow port is blocked (dead point) by an external valve, when the valve is used for bypass flow control, The bypass pressure drop will increase if a small amount of leakage is not allowed from the priority port. Please consult the factory.

Emergency manual control operation:

When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 circles to reach the maximum displacement.

At the end: Rotate counterclockwise for about 6 revolutions until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.

Characteristics

- Working pressure: Inlet: 240 bar (3500 psi);
  Oil ports ② and ③: 207 bar (3000 psi).
- Adjust the flow rate: Range A: 94.6 lpm (25.0 gpm)
  Range A: Two-way: 85.2 lpm (22.5 gpm),
- Rated input flow: Bypass open, three-way: 121 lpm (32.0 gpm)
- Maximum input flow: Bypass open, three-way:151.4 lpm (40.0 gpm)
- Internal Leakage: 0.38 lpm (0.10 gpm) at zero current
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	300 ± 100 mA	1600 ± 100 mA
24 VDC	150 ± 50 mA	800 ± 50 mA

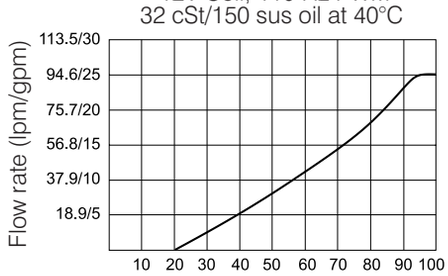
- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC16-3;

Performance graph

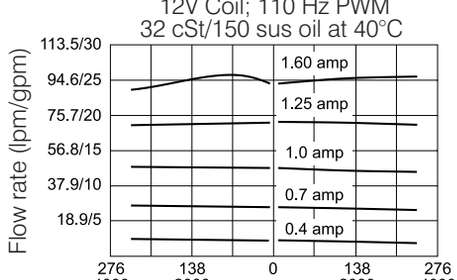
Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

3-way valve
Adjust flow and current
240bar/3500psi, oil inlet
207bar/3000psi, port ③; port ② no load
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C

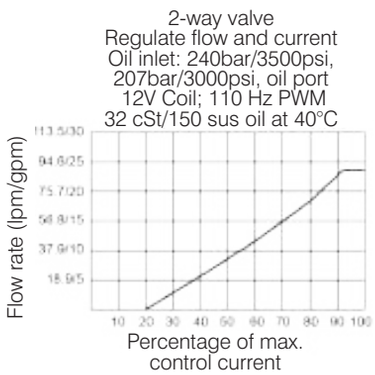


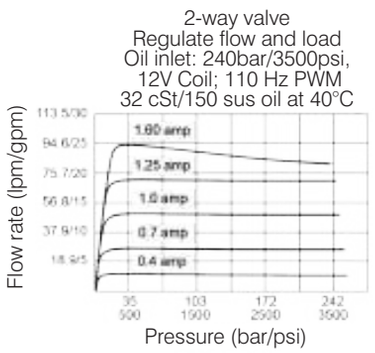
3-way valve
Adjust flow and load
240bar/3500psi, oil inlet
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



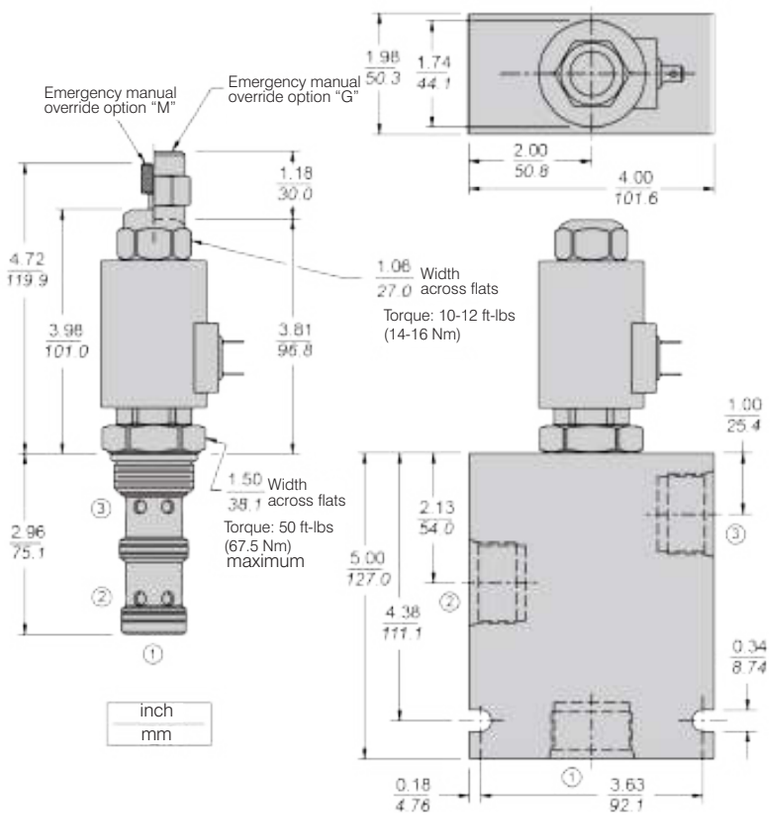
T2PV76-30A Proportional Flow Control Cartridge Valve

Performance graph (continued)





Unit Dimensions



Ordering code

T2PV76-30A__ - ____ - __ - ____

Options

None	= (blank)
Emergency manual control	= M
Emergency manual control with insurance	= G

Valve block oil port

Refers to plug-ins only	= 0
SAE 12	= 12T
SAE 16	= 16T

Seals

Standard nitrile rubber	= N
Fluorocarbon	= V

Voltage

No coil	= 0
12 VDC	= 12
24 VDC	= 24

Standard coil terminals

Double spade joint	= DS
DIN 43650	= DG
Wire (2)	= DL
Lead wire with Weatherpak® Connectors	= DL/W

E type coil Terminal

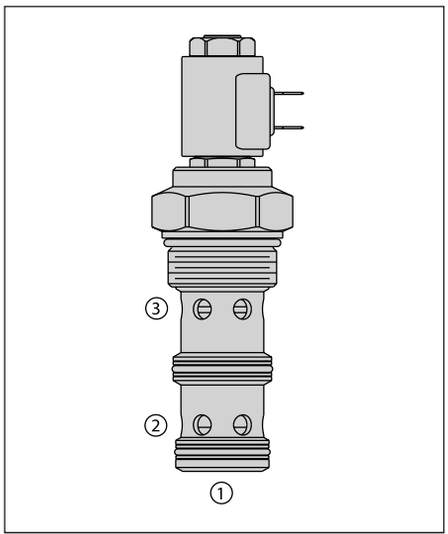
Deutsch DT04-2P (conform to IP69K standard)	= ER

Coils with built-in diodes are also available. Consult factory.

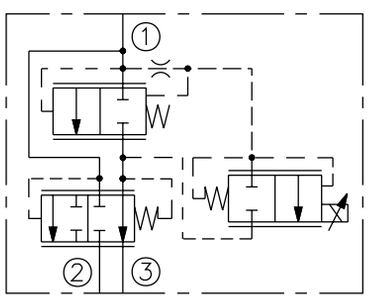
T2PV42-M30 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, two-stage, three-way, pressure-compensated, spool-type, normally closed when powered off, proportional flow control valve.
Can be used as a priority flow regulator with pressure compensation, regulation and bypass flow.



USASI/ISO:



How it works

Regardless of the system operating pressure or the system operating pressure at bypass port ②, The T2PV42-M30 will regulate the outflow at the port ③.
To improve accuracy, the valve provides two priority flow ranges: Range A with a priority flow of up to 190lpm/50gpm and Range B with a priority flow of up to 132lpm/35gpm. For any range, the input flow rate at ① can reach 225 lpm/60 gpm.
Note: If the equipment's priority flow port is blocked (dead point) by an external valve, when the valve is used for bypass flow control, The bypass pressure drop will increase if a small amount of leakage is not allowed from the priority port. Please consult the factory.
Emergency manual control operation:
When starting : Rotate clockwise for about 3 circles to reach the starting point, and continue to rotate for about 2 circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 5 circles until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.

Characteristics

- Working pressure: Inlet: 240 bar (3500 psi);
  Oil ports ② and ③: 207 bar (3000 psi).
- Adjust the flow rate:
  Range A: 190 lpm (50 gpm), Range B: 132 lpm (35 gpm)
- Maximum input flow: 225 lpm (60 gpm)
- Maximum internal leakage: 1.52 lpm (0.40 gpm) at zero current
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	400 ± 100 mA	1400 ± 150 mA
24 VDC	200 ± 50 mA	700 ± 75 mA

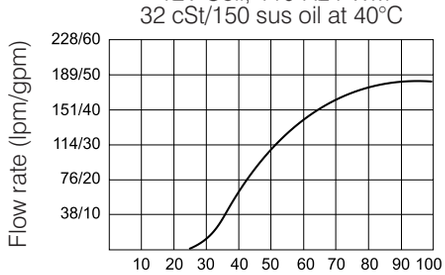
- Medium: Viscosity between 7.4~420 cSt(50~2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC42-M3;

Performance graph

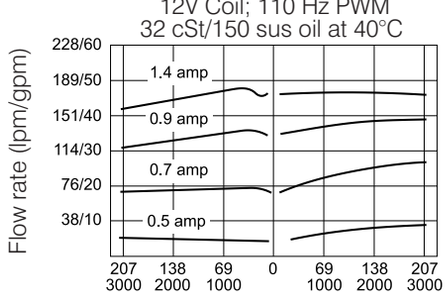
Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

Range A
Regulate flow and current
207bar/3000psi, port ③;
Input flow: 190 lpm/50 gpm
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



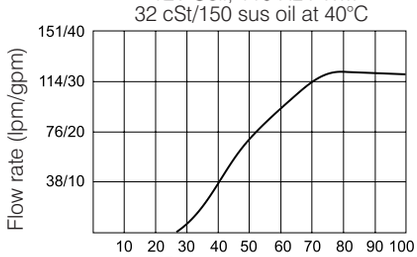
Range A, 3-way valve
Regulate flow and current
240bar/3500psi, 190 lpm/50 gpm oil inlet
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



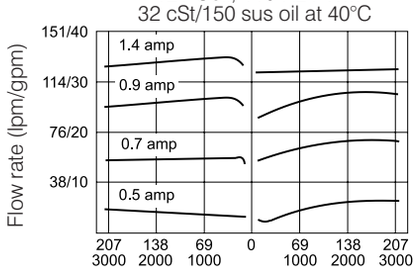
T2PV42-M30 Proportional Flow Control Cartridge Valve

Performance graph (continued)

Range B
Regulate flow and current
207bar/3000psi, port ③;
Input flow: 125 lpm/33 gpm
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C

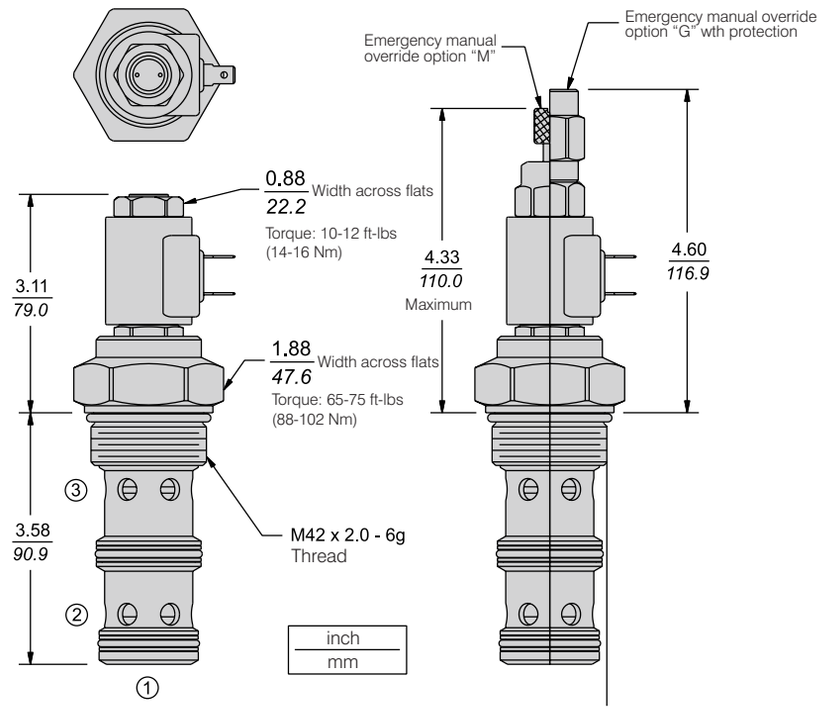


Range B, 3-way valve
Regulate flow and load
Oil inlet: 240bar/3500psi, 125 lpm/33 gpm
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Bypass > Regulated Regulated > Bypass

Unit Dimensions



Ordering code

T2PV42-M30__ __ - ___ __ - __ - __ __ __

Flow Range
Up to 190 lpm (50 gpm) = A
Up to 132 lpm (35 gpm) = B

Options
None = (blank)
Emergency manual control = M
Emergency manual control with insurance = G

Consult factory for manifold ports

Seals
Standard nitrile rubber = N
Fluorocarbon = V

Standard coil terminals
Double spade joint = DS
DIN 43650 = DG
Wire (2) = DL
Lead wire with Weatherpak® Connectors = DL/W

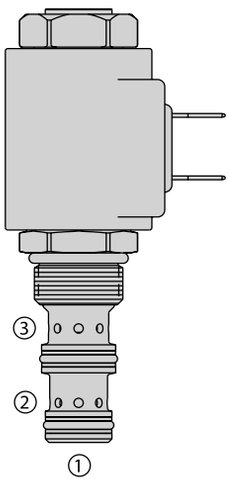
E type coil Terminal
Deutsch DT04-2P = ER
Coils with built-in diodes are also available. Consult factory.

Voltage
No coil = 0
12 VDC = 12
24 VDC = 24

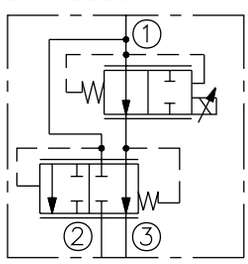
T2PV08-31 Proportional Flow Control Cartridge Valve

Describe

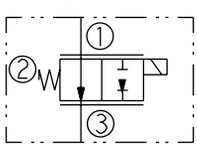
Solenoid-driven, variable electrical parameters, three-way, pressure-compensated, spool-type, normally open when powered off, proportional flow control valve. It can be used as a priority flow control valve with pressure compensation, regulation and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as a throttling type, 2-way, pressure compensated flow control valve.



USASI/ISO:



2-Ported



How it works

T2PV08-31 will regulate the flow rate at port ③ and will not be affected by the system working pressure. As the current in the solenoid valve increases, The output flow rate of T2PV08-31 will decrease.

Note: If the equipment's priority flow port is blocked (dead point) by an external valve, a small oil relief hole needs to be set at the priority port (port ③) when the valve is used for bypass flow control. Please consult the factory.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.

Characteristics:

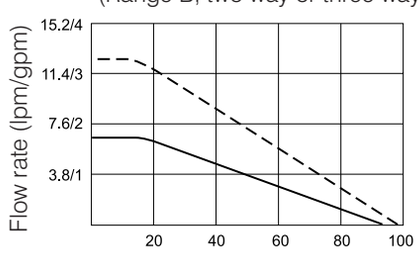
- Working pressure: Inlet: 240 bar (3500 psi); Oil port ② and ③: 207 bar (3000 psi).
- Adjust the flow rate: Bypass cutoff, range A: 11.4 lpm (3.0 gpm) Bypass cutoff, range B: 5.7 lpm (1.5 gpm), Bypass open, range A: 11.4 lpm (3.0 gpm), Bypass open, range B: 5.7 lpm (1.5 gpm)
- Rated input flow: Bypass open, range A: 15.2 lpm (4.0 gpm) Bypass open, range B: 7.6 lpm (2.0 gpm)
- Max. input flow: Bypass open, range A: 22.8 lpm (6.0 gpm) Bypass open, range B: 22.8 lpm (6.0 gpm)
- Internal Leakage: 100 ml/min (6 cu. in./min) at 207 bar (3000 psi) with valve fully closed.
- Electrical characteristics: 2 voltage standards. (using EHPR Series coils)

Coil voltage	Threshold current	Max. control current
12 VDC	250 ± 150 mA	1350 ± 150 mA
24 VDC	125 ± 75 mA	700 ± 75 mA

- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC08-3;

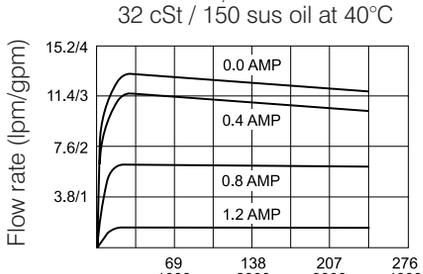
Performance graph

Rated flow and current
207 bar/3000 psi;12V Coil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C
– – – – – (Range A, two way or three way),
——— (Range B, two way or three way)



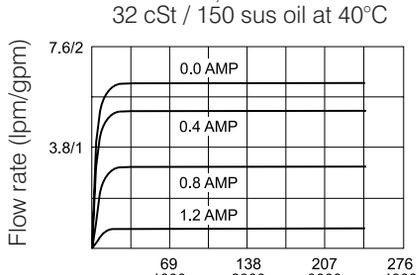
Percentage of max. control current

Adjust flow and pressure drop
Two way: Flow range A
240 bar/ 3500 psi, oil inlet
12V coil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C



Pressure drop (bar/psi)

Adjust flow and pressure drop
Two way: Flow range B
240 bar/ 3500 psi oil inlet
12V coil; 200 Hz PWM
32 cSt / 150 sus oil at 40°C



Pressure drop (bar/psi)

Ordering code

T2PV08-31 __ __ - ____ - __ - ____

Flow Range (Required, reference Performance curve) = A, B

Options
None = (blank)

Valve block oil port
Refers to plug-ins only = 0
SAE 6 = 6T
3/8 inch BSP* = 3B

Seals
Standard nitrile rubber = N
Fluorocarbon = V

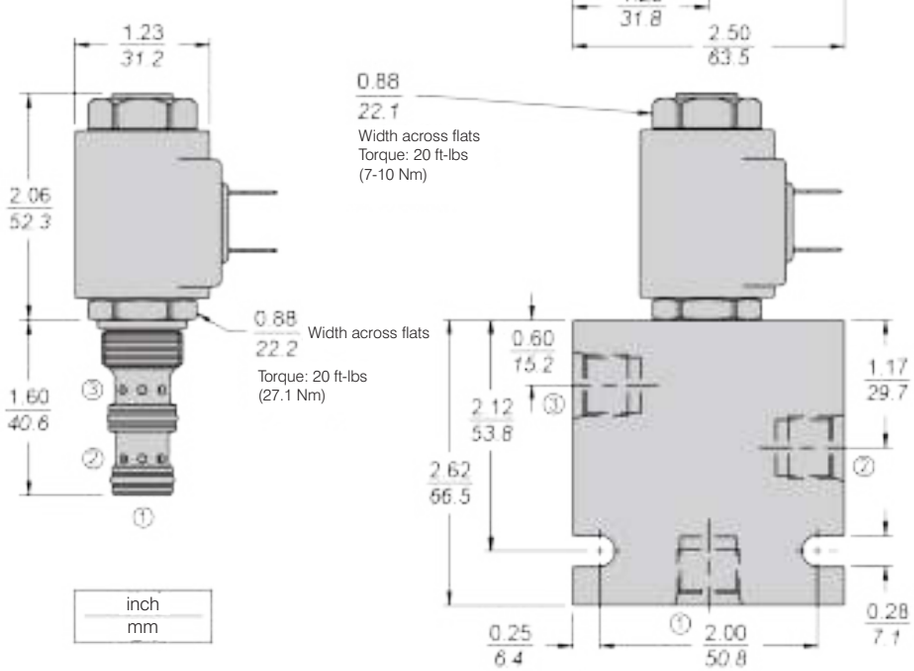
Terminal
Double spade joint = DS
DIN 43650 = DG
Wire (2) = DL
Lead wire with Weatherpak® Connectors = DL/W
Coils with built-in diodes are also available. Consult factory.

Voltage
No coil = 0
12 VDC = 12
24 VDC = 24

Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

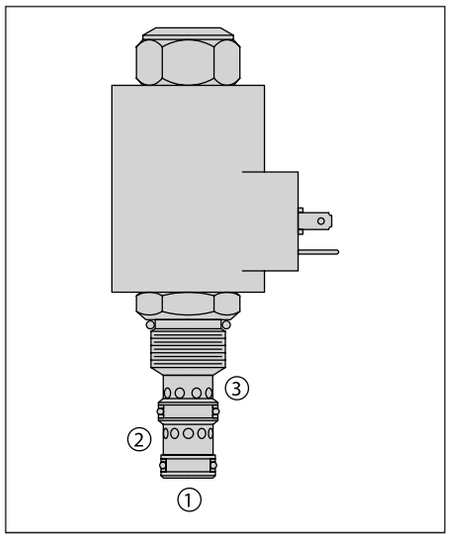
Unit Dimensions



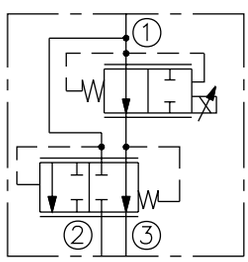
T2PV70-31 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, three-way, pressure compensation, spool-type, normally open when powered off, proportional flow control valve. It can be used as a priority flow control valve with pressure compensation, regulation and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as 2 - way throttling type pressure compensated flow control valve.



USASI/ISO:



How it works

T2PV70-31 will adjust the flow rate of oil port ③ and will not be affected by the system working pressure. As the current in the solenoid valve increases,
The output flow rate of T2PV70-31 will decrease.
Note: If the machine's priority flow port is blocked by an external valve, the bypass pressure drop will increase if the valve is used for bypass flow control without causing a small amount of leakage from the priority port.
Please consult the factory.

Emergency manual control operation:
When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 more circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 circles until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics and waterproof coil standard.
- The valve core and valve sleeve are hardened and durable.
- Highly efficient wet armature structure and unified coil casting design.
- Solenoid coil voltage and terminals are selectable and
- The voltage of the cartridge valves is interchangeable.
- Emergency manual override option

Characteristics

- Working pressure: Inlet: 240 bar (3500 psi);
  Oil ports ② and ③: 207 bar (3000 psi).
- Adjust the flow rate:
  Bypass cutoff, range A: 26 lpm (7 gpm), Bypass cutoff, range B: 17 lpm (4.5 gpm)
  Bypass on, range A: 30 lpm (8 gpm), Bypass on, range B: 17 lpm (4.5 gpm)
- Maximum input flow: Bypass on, range A: 50 lpm (13 gpm), Bypass on, range B: 26 lpm (7 gpm)
- Internal leakage: 197 ml/min (12 cu.in/min) at 207 bar (3000 psi) with valve fully closed
- Electrical characteristics: 2 voltage standards.

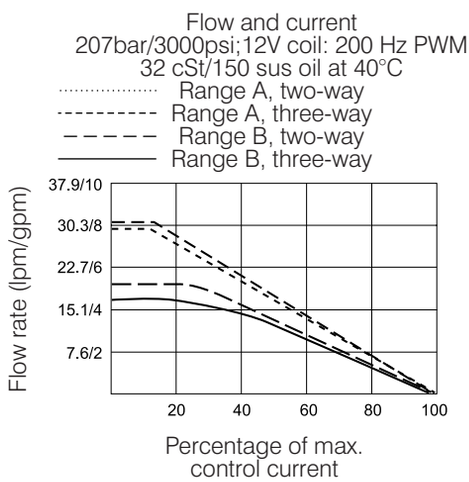
Coil voltage	Threshold current	Max. control current
12 VDC	150 ± 70 mA	1400 ± 200 mA
24 VDC	75 ± 35 mA	700 ± 100 mA

- Medium: Viscosity between 7.4~420 cSt(50~2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC10-3;

Performance graph

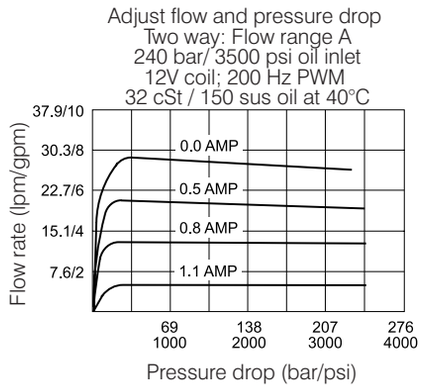
Recommened controller (see section 3)

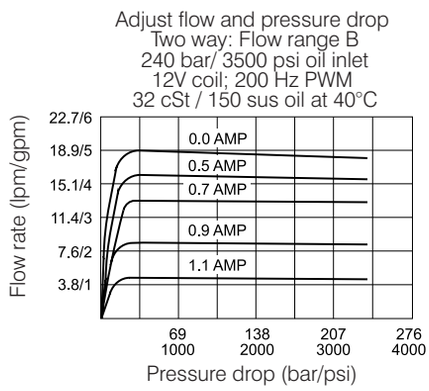
Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140



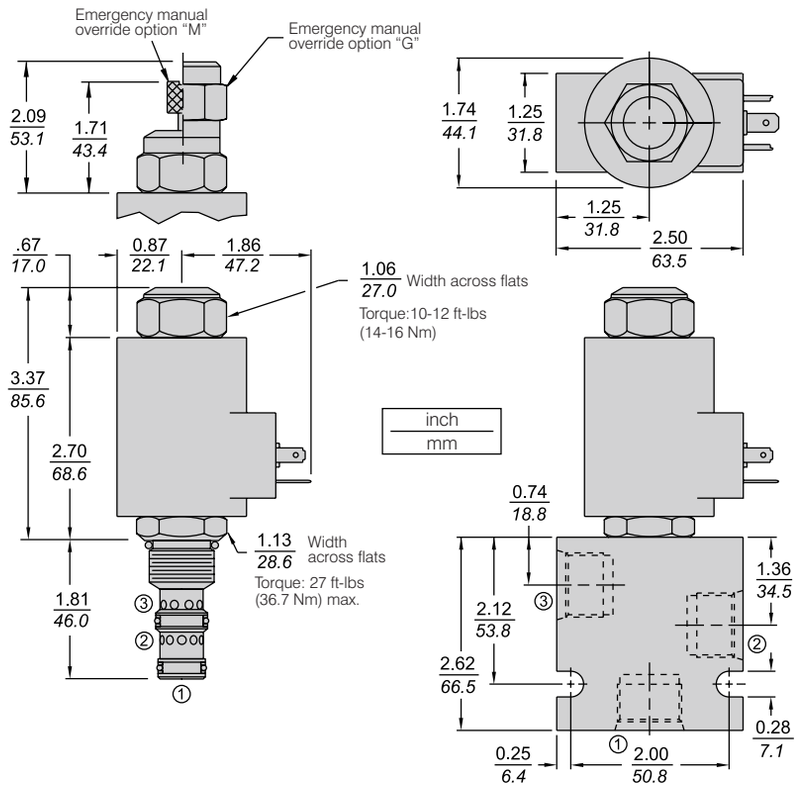
T2PV70-31 Proportional Flow Control Cartridge Valve

Performance graph (continued)





Unit Dimensions



Ordering code

T2PV70-31 __ __ - ____ - __ - ____

Flow Range (Required, reference Performance curve) = A, B

Options

None	= (blank)
Emergency manual control	= M
Emergency manual control with insurance	= G

Valve block oil port

Refers to plug-ins only	= 0
SAE 6	= 6T
SAE 8	= 8T
1/4 inch BSP*	= 2B
3/8 inch BSP*	= 3B

Seals

Standard nitrile rubber	= N
Fluorocarbon	= V

Voltage

No coil	= 0
12 VDC	= 12
24 VDC	= 24

Standard coil terminals

Double spade joint	= DS
DIN 43650	= DG
Wire (2)	= DL
Lead wire with Weatherpak® Connectors	= DL/W

E type coil Terminal

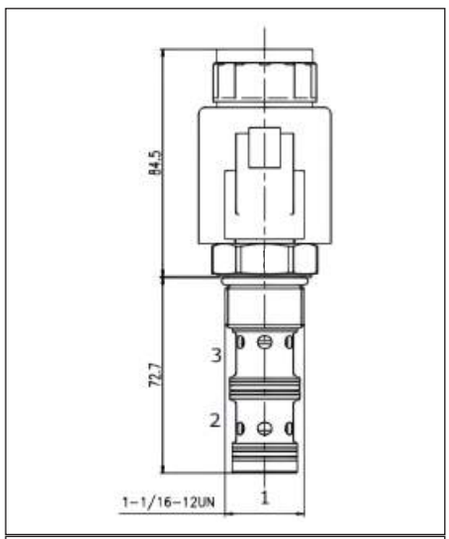
Deutsch DT04-2P (conform to IP69K standard)	= ER

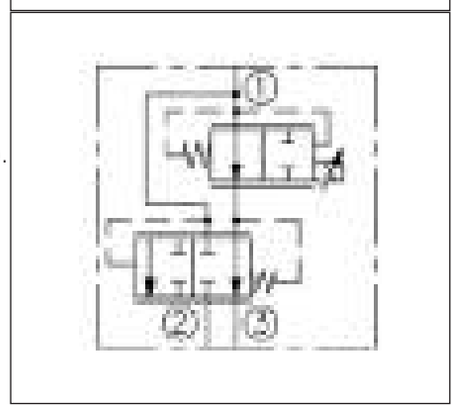
Coils with built-in diodes are also available. Consult factory.

T2PV72-31 3 Pass

Describe

Solenoid-driven, variable electrical parameters, three-way, pressure compensation, spool-type, normally open when powered off, proportional flow control valve. It can be used as a priority flow control valve with pressure compensation, regulation and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as 2 - way throttling type pressure compensated flow control valve.





How it works

T2PV70-31 will regulate the flow at oil port ③ independent of the system operating pressure. As the current in the solenoid increases, the output flow of the T2PV72-31 will decrease.

Note: If the unit's priority flow port is blocked by an external valve, the bypass pressure drop will increase if the valve is used for bypass flow control without causing a small amount of leakage at the priority port. Please consult the factory.

Emergency manual control operation:

When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 more circles to reach the maximum displacement.

At the end: Rotate counterclockwise for about 6 circles until the positive stop occurs.

Characteristics:

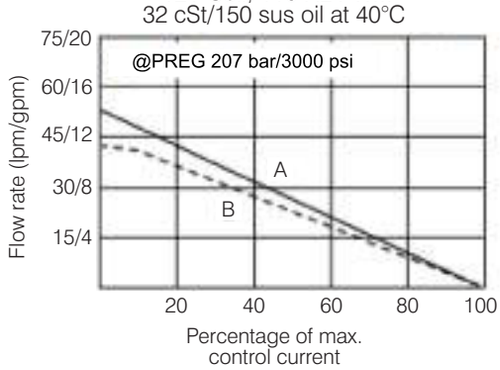
- Work. pres.: Oil port ①: 240 bar (3500 psi); Oil port ② and ③: 207 bar (3000 psi).
- Regulated flow in three-way mode: Range A: 53 lpm (15 gpm)
  Range B: 38 lpm (10 gpm)
- Maximum input flow for 3-way mode: Ranges A and B: 114 lpm (30 gpm)
- Maximum flow for 2 way mode: Range A: 53 lpm (14 gpm)
  Range B: 31 lpm (8 gpm)
  Note: To increase flow for 2-way flow control, see model T2PV72-20.
- Internal leakage: 0.38 lpm (0.1 gpm) at 207 bar (3000 psi) with valve fully closed. valve fully closed.
- Electrical characteristics: 2 voltage standards. (using EHPR Series coils)

Coil voltage	Threshold current	Max. control current
12 VDC	350 ± 100 mA	1600 ± 200 mA
24 VDC	175 ± 50 mA	800 ± 100 mA

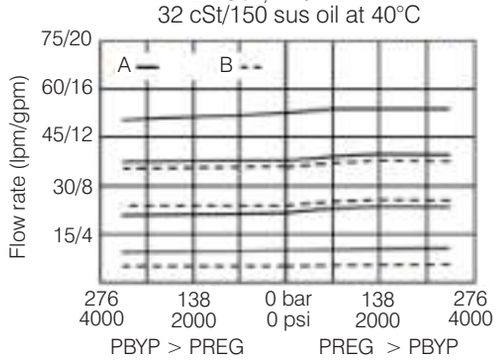
- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC12-3;

Performance graph (plug-in)

Flow and current
Input flow: 76 lpm/20 gpm
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Adjust flow and pressure drop
Input flow: 76 lpm/20 gpm
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Ordering code

T2PV	72	–	31	–	–	–	–	–	–	––	––

T2PV72-31

Flow Range (Required, reference Performance curve) = A, B

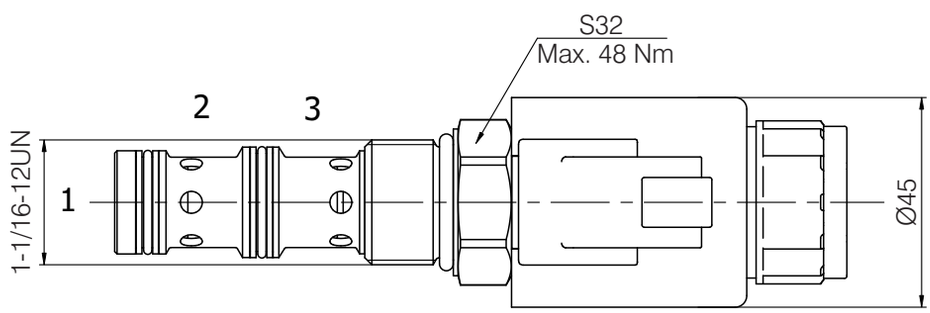
Emergency manual control = M

Valve block oil port
Order plugin only = 0
Order standard mounting blocks (contact technical support) = 1

Seals
Standard nitrile rubber = N
Fluorine rubber = F

Voltage
12 DC = 12
24 DC = 24

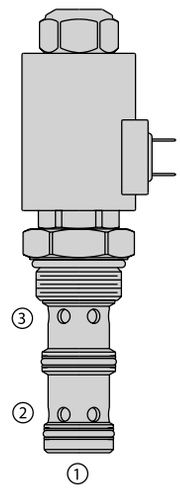
Coil terminals
Coil DIN 43650 = DG
Coil DT04-2P = ER
Two wires = DL



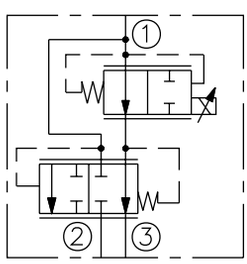
T2PV76-31 Proportional Flow Control Cartridge Valve

Describe

Solenoid-driven, variable electrical parameters, three-way, pressure-compensated, spool-type, normally open when powered off, proportional flow control valve.
It can be used as a priority flow control valve with pressure compensation to regulate and bypass flow. When the bypass line (oil port ②) is closed, it can also be used as a 2-way throttling type pressure compensated flow control valve.



USASI/ISO:



How it works

T2PV76-31 will adjust flow of oil port ③ will be regulated and will not be affected by the system working pressure. As the current in the solenoid valve increases, the output flow rate will decrease.
Note: If the equipment's priority flow port is blocked by an external valve, when the valve is used for bypass flow control, The bypass pressure drop will increase if a small amount of leakage is not allowed from the priority port.
Please consult the factory.

Emergency manual control operation:
When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 circles until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.

Characteristics

- Working pressure: Inlet: 240 bar (3500 psi);
  Oil ports ② and ③: 207 bar (3000 psi).
- Adjust the flow rate:
  Three-way: 75.7 lpm (20.0 gpm), Two-way: 79.5 lpm (21.0 gpm)
- Maximum input flow: Bypass open, Three-way 151.4 lpm (40.0 gpm)
- Internal leakage: Max. current, 207 bar (3000 psi) at pres. 0.38 lpm (0.10 gpm)
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	100 ± 50 mA	1500 ± 100 mA
24 VDC	50 ± 25 mA	750 ± 50 mA

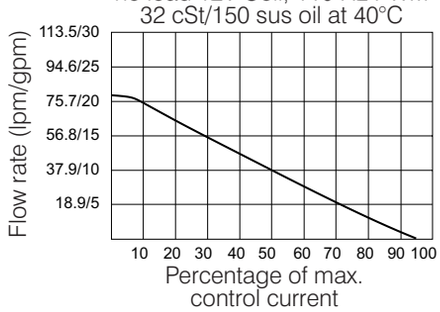
- Medium: Viscosity between 7.4~420 cSt(50~2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC16-3;

Performance graph

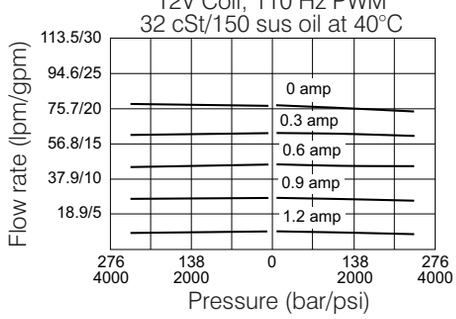
Recommened controller (see section 3)

Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

3-way valve
Regulate flow and current
240bar/3500psi, oil inlet
207bar/3000psi, port ③; port ②;
no load 12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



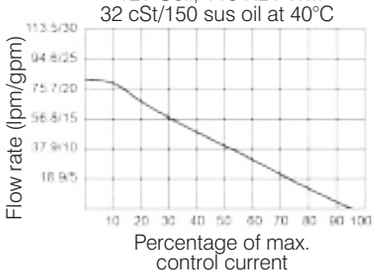
3-way valve
Adjust flow and load
240bar/3500psi, oil inlet
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



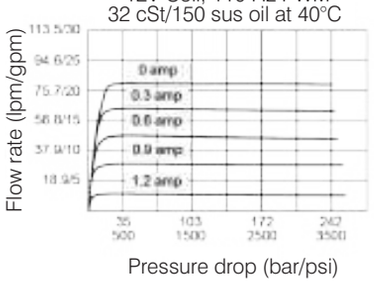
T2PV76-31 Proportional Flow Control Cartridge Valve

Performance graph (continued)

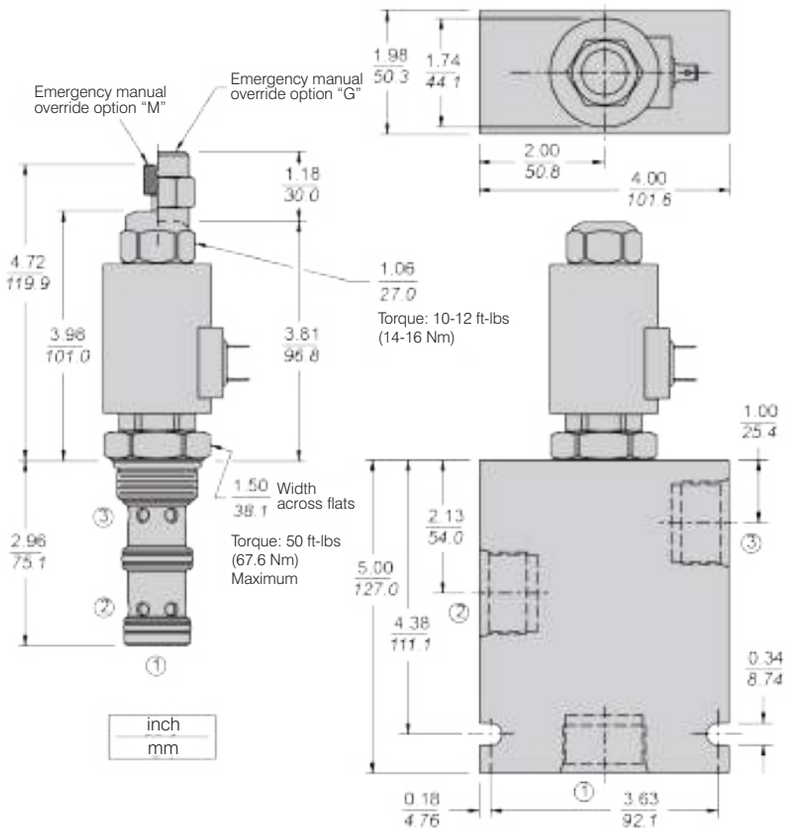
2 way valve
Regulate flow and current
240bar/3500 psi ,oil inlet
207bar/3000psi, port ;
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



2 way valve
Regulate flow and current
240bar/3500 psi ,oil inlet
12V Coil; 110 Hz PWM
32 cSt/150 sus oil at 40°C



Unit Dimensions



Ordering code

T2PV76-31 __ - ____ - __ - ____

Options
None = (blank)
Emergency manual control = M
Emergency manual control with insurance = G

Valve block oil port
Refers to plug-ins only = 0
SAE 12 = 12T
SAE 16 = 16T

Seals
Standard nitrile rubber = N
Fluorocarbon = V

Voltage
No coil = 0
12 VDC = 12
24 VDC = 24

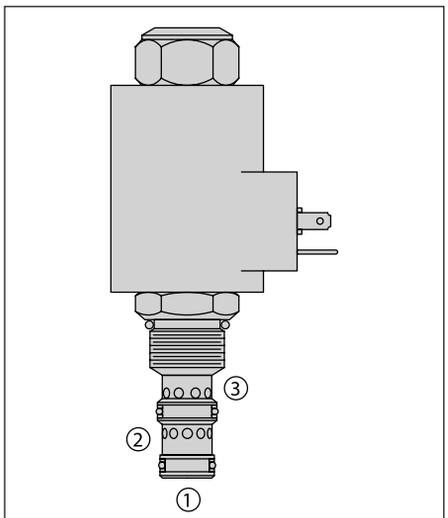
Standard coil terminals
Double spade joint = DS
DIN 43650 = DG
Wire (2) = DL
Lead wire with Weatherpak® Connectors = DL/W

E type coil Terminal
Deutsch DT04-2P (conform to IP69K standard) = ER
Coils with built-in diodes are also available. Consult factory.

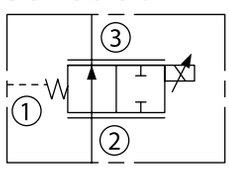
T2PV70-35 Proportional Flow Control Cartridge Valve

Describe

A linear solenoid-actuated, 2-way normally open, threaded cartridge valve for used with a pressure compensator, as a throttle valve with an electrically controlled valve core with adjustable spool opening.



USASI/ISO:



How it works

As the current increases, the flow from oil port ② to oil port ③ in the T2PV70-35 changes from fully open to fully closed. Port ① is only used to balance the valve core pressure and must be plugged. The proportional valve is used in series with a standard pressure compensator with a pressure differential of 21 bar (300 psis) or less, or it can be used alone in a variable flow pressure compensation circuit with load sensing function. The valve is used with an industrial general purpose controller and the typical current value is 2 amps (12 VDC, PWM)), with start/stop trip adjustment (minimum/maximum current). Please consult factory.

Emergency manual control operation:
When starting : Rotate clockwise for about 1 circle to reach the starting point, and continue to rotate for about 5 more circles to reach the maximum displacement.
At the end: Rotate counterclockwise for about 6 circles until the positive stop occurs.

Features

- Excellent linearity and hysteresis characteristics.
- Control orifice size is optional.
- The valve core and valve sleeve are hardened and durable.
- Highly efficient wet armature structure.
- Integrally molded coil design.
- Solenoid coil voltage and terminals are selectable and
- The voltage of the cartridge valves is interchangeable.
- Emergency manual override option
- Waterproof coil standard.

Characteristics

- Working pressure: 207 bar (3000 psi).
- Internal leakage: 197 ml/min (12 cu.in/min) at 207 bar (3000 psi) with valve fully closed
- Electrical characteristics: 2 voltage standards.

Coil voltage	Threshold current	Max. control current
12 VDC	300 ± 200 mA	1500 ± 200 mA
24 VDC	150 ±100 mA	750 ± 50 mA

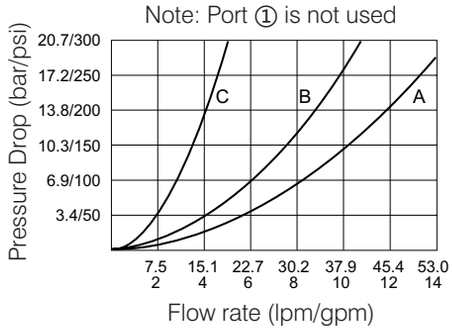
- Medium: Viscosity between 7.4～420 cSt(50～2000ssu) of mineral oil or synthetic oil with lubricating properties.
- Valve hole: VC10-3;

Performance graph

Recommened controller (see section 3)

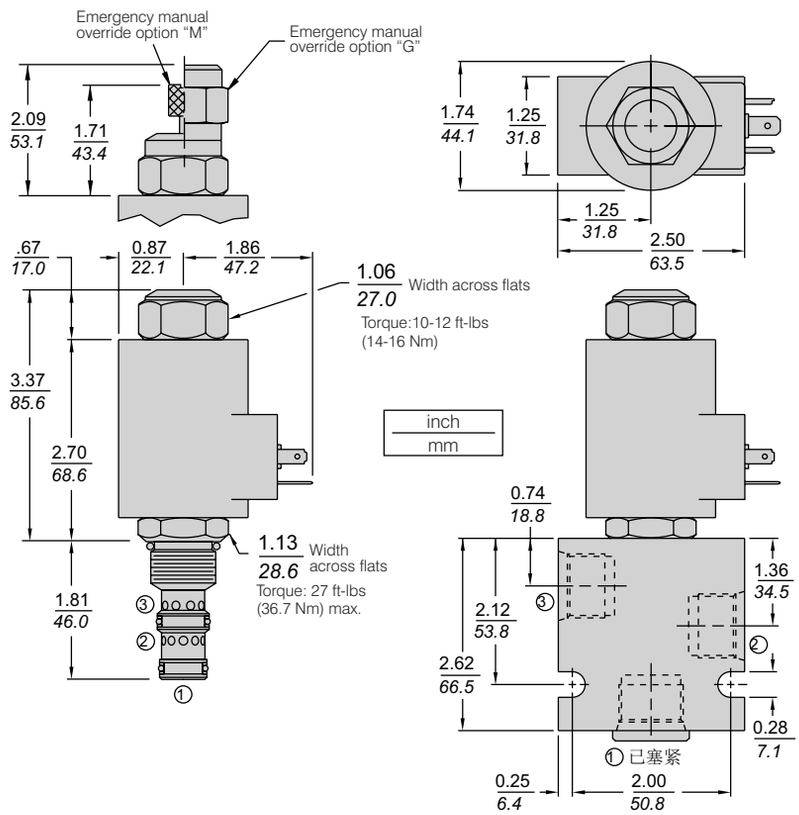
Input signal With 12V coil	DIN coil Installation	PCB Board	Metal Box	DIN rail Mounting
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
With 24V coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

③ to ②, coil: de-energized
32cSt /150 sus oil at 40°C
through cartridge and valve block
Note: Port ① is not used



T2PV70-35 Proportional Flow Control Cartridge Valve

Unit Dimensions



Ordering code

T2PV70-35 __ __ - ___ ___ - __ - ____

Flow Range (Required, reference Performance curve) = A, B, C

Options
- None = (blank)
- Emergency manual control = M
- Emergency manual control with insurance = G

Valve block oil port
- Refers to plug-ins only = 0
- SAE 6 = 6T
- SAE 8 = 8T
- 1/4 inch BSP* = 2B
- 3/8 inch BSP* = 3B

Seals
- Standard nitrile rubber = N
- Fluorocarbon = V

Voltage
- No coil = 0
- 12 VDC = 12
- 24 VDC = 24

Standard coil terminals
- Double spade joint = DS
- DIN 43650 = DG
- Wire (2) = DL
- Lead wire with Weatherpak® Connectors = DL/W

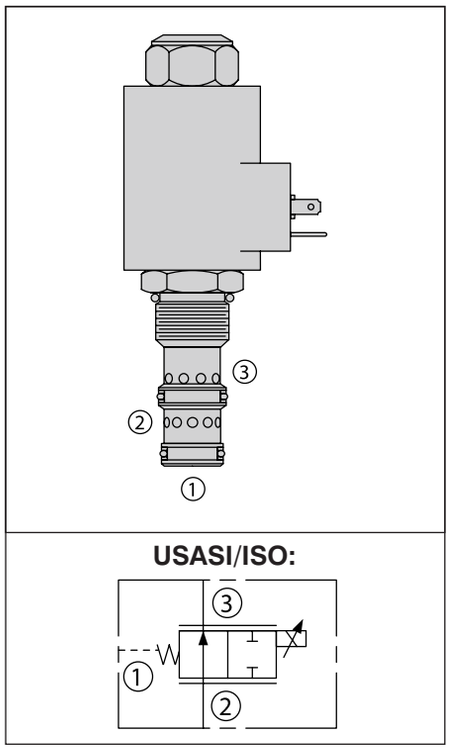
E type coil Terminal
- Deutsch DT04-2P (conform to IP69K standard) = ER

Coils with built-in diodes are also available. Consult factory.

T2PV72-35 Proportional Flow Control Cartridge Valve

Describe

Linear electromagnetic drive,2Normally open, threaded cartridge valve, used with a pressure compensator, as a throttle valve with an electrically controlled valve core with adjustable opening.



How it works

As the current increases, T2PV72-35The flow from the oil port ② to the oil port ③ changes from fully open to fully closed. ① Only used to balance the valve core pressure, need to be blocked. Proportional valve and pressure difference21 bar (300 psi)Or smaller standard pressure compensators are used in series, or alone in variable flow pressure compensation loops with load sensing function.
The valve is used with an industrial general purpose controller. The typical current value is2install(12 VDC,PWM), with start/stop trip adjustment (min/max current). Consult factory for further details and purchasing information. Operation of the emergency manual override option: When starting: rotate clockwise about 1 Continue rotating for approx.5 The maximum displacement can be achieved by rotating the counterclockwise direction for approx. 6 Zhouzhi positive stop.

Features

- Excellent linearity and hysteresis characteristics.
- Control orifice size is optional.
- The valve core and valve sleeve are hardened and durable.
- Solenoid coil voltage and terminals are selectable.
- Highly efficient wet armature structure.
- The voltage of the cartridge valves is interchangeable.
- Integrally molded coil design.
- Waterproof coil standard.
- Emergency manual override option

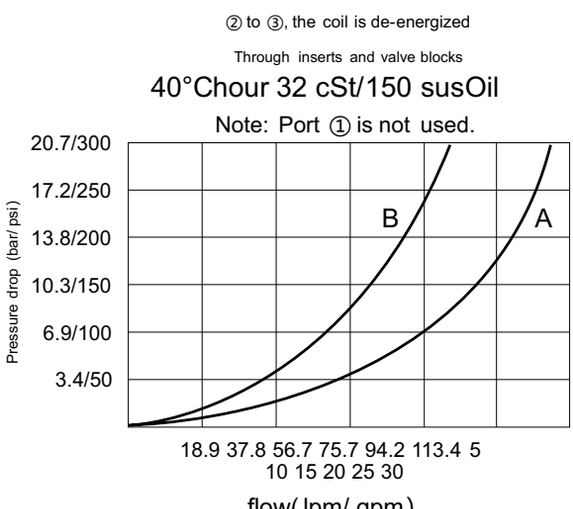
Characteristics:

Work Pressure:207 bar (3000 psi)
Internal leakage: Fully closed, pressure is 207 bar (3000 psi)hour, 328mL/min (20cubic inches per minute), Electrical characteristics: 2 Voltage Standard

Coil voltage	Threshold current	Maximum Control Current
12 VDC	300 ±200 mA	1500 ±100 mA
24 VDC	150 ±100 mA	750 ±50 mA

Medium: Viscosity between7.4～420 cSt (50～2000ssu) mineral oil or synthetic oil with lubricating effect
Valve hole:VC12-3;

Performance Graph

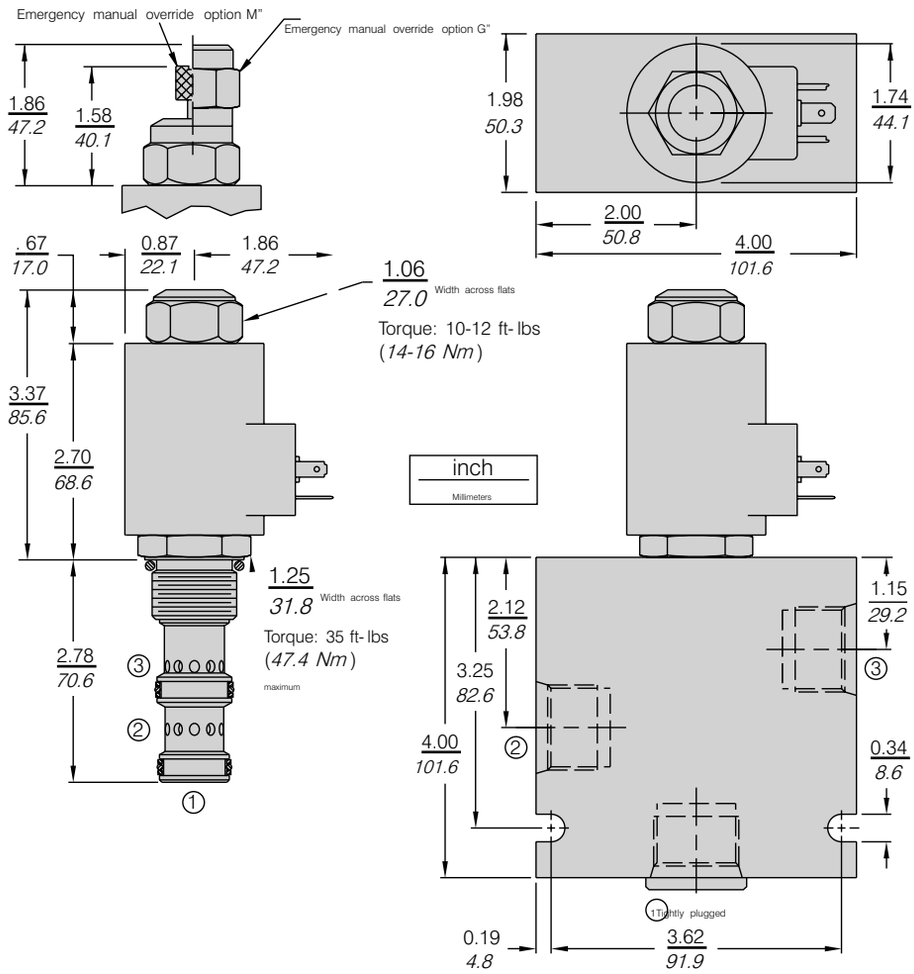


Recommended controllers (see Section 3)

Inputsignal bring 12VCoil	DIN Coil Install	PCB plate	Metal Cassette	DIN guide Install
0-5 VDC	7114950	4000046	4000049	4000136
0-10 VDC	4000070	4000141	4000124	4000137
4-20 mA	4000123	4000143	4000130	4000139
PWM	—	4000144	4000133	4000140
bring 24V Coil				
0-5 VDC	4000161	4000194	4000174	4000136
0-10 VDC	4000165	4000141	4000182	4000137
4-20 mA	4000169	4000143	4000186	4000139
PWM	—	4000144	4000133	4000140

T2PV72-35 Proportional Flow Control Cartridge Valve

Unit Dimensions



Ordering code;

TPV72-35 ___ - ___ ___ ___ - ___ - ___ ___

Flow range:
(See performance cuvre): A & B

Options
None (blank)
Emergency Manual: M
Emergency Manual
With insurance: G

Manifold Ports
0 : Cartridge only
10T : SAE 10
12T : SAE 12
16T : SAE 16
4B : 1/2 in. BSP*
6B : 3/4 in. BSP*

Seals
Nitrile rubber (standard) : N
Fluorocarbons : V

Voltage:
No Coil** : 0
12 VDC : 12
24 VDC : 24

Standard Coil Terminations
DS : Dual Spade
DG : DIN 43650
DL : Leads (2)
DL/W : Leads with Weatherpak® Connectors
Type E Coil Terminations
ER : Deutsch DT04-2P (IP69K Rated)
Coils also available with built-in diodes. Consult factory.

The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

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