

E

PROPORTIONAL VALVES





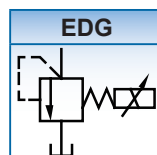
SOLTECH

PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

【EDG-01】**※SPECIFICATION**

MAX. OPER. PRES.	MPa(Psi)	21(3045)
MAX. FLOW	ℓ/min(U.S. GPM)	2(0.53)
PRES. ADJ. RANGE	MPa(Psi)	C 0.8~14(116~2030)
		H 1.0~21(145~3045)
ALLOW BACK-PRES.	MPa(Psi)	< 0.2(29)
RATED CURRENT	mA	C 750
		H 700
COIL RESISTANCE	Ω	10
HYSTERESIS	%	< 3
REPEATABILITY	%	< 0.5
WEIGHT	(Kg)	2

**※GRAPHIC SYMBOL****※MODEL NUMBER DESIGNATION**

EDG	01	C	(90)	※
SERIES NO.	VALVE SIZE	PRES. ADJ. RANGE C : 0.8~14(116~2030) H : 1.0~21(145~3045)	OMIT: WITH DIN 912 BOLTS 90: WITH UNC(NORTH AMERICA) BOLTS	DATE OF MANUFACTURE

※ACCESSORIES

MODEL	SOCKET HEAD SCREW CAP			TIGHTING TORQUE
	European Design. Std.	N. America Design Std.		
EDG-01	M5 × 50 L	10-24 UNC × 1-3/4" Lg.	4 Pcs	5~7Nm(43~60 in.lbs)

※CARE IN APPLICATION**► Place for installation**

Correct valve installation place is to put the bleeder upword in order to eliminated the presence of air in the oil pressage when it have a trial ranning; If use together with another main valve, the guide piping can not exceed 30 cm to make the pressure be more steady.

► Elimination of Air(Air vent)

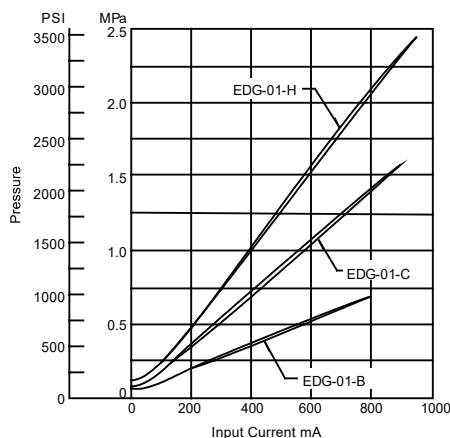
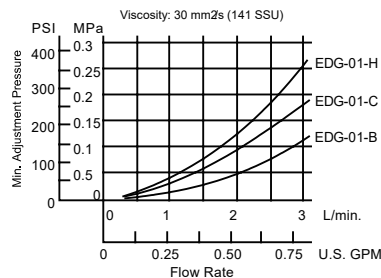
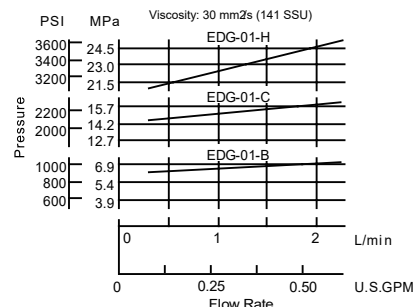
Turn the bleeder on the upword position, then open the screw (adjust system pressure to 3 MPa) eliminating the air. Then lock tightly the screw when there is no bubble but full of oil in valve.

► Hand-adjusting Screw

When the electric control is disorder and need to supply pressure occassionally, then just need to turn the hand-adjusting screw in clockwise direction.Restore to the origin at usual time.

► Drain

Insert the return back pressure on the end of low oil pipe directly to the place under the oil level of oil tank.

※PERFORMANCE CURVE**■ CURRENT PRES. VS. INPUT****■ MIN. ADJ. PRES.****■ FLOW RATE VS. PRES.**

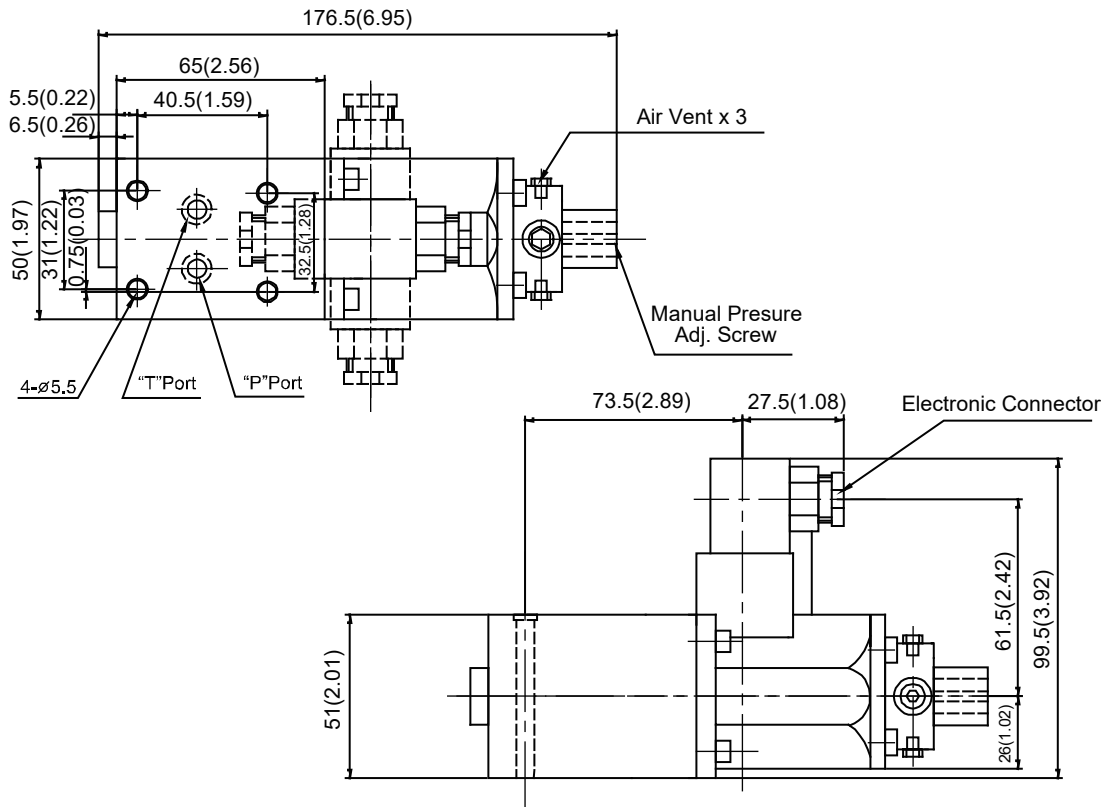


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PROPORTIONAL CONTROLS

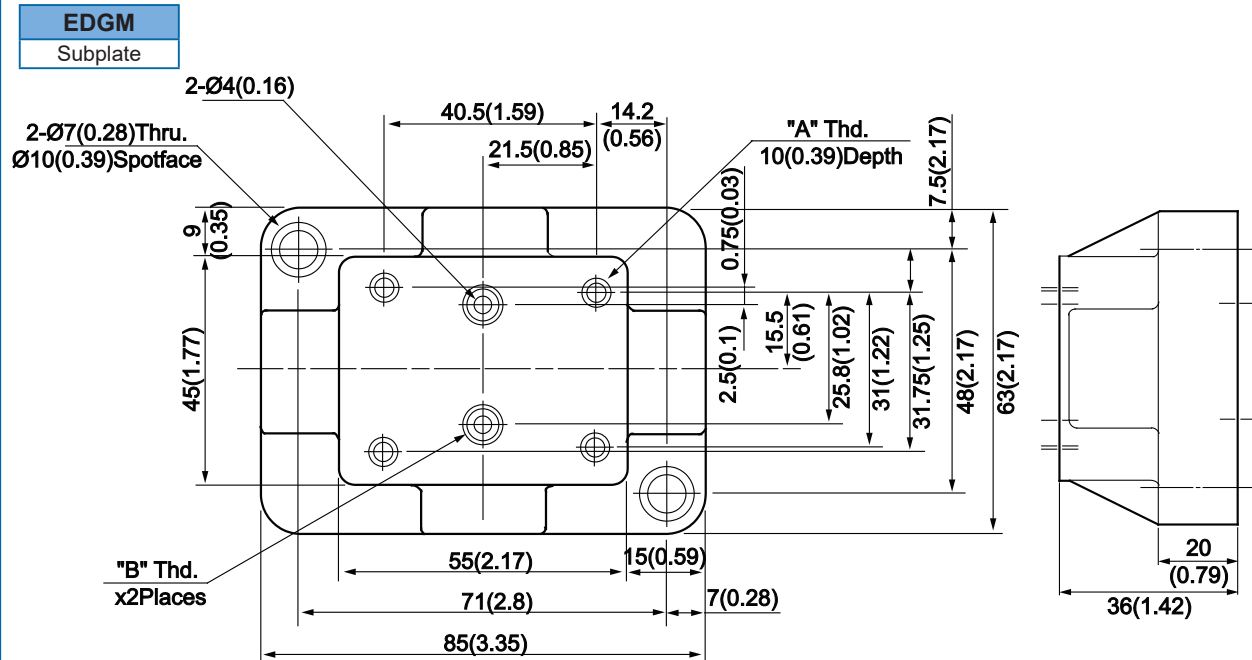
PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS



UNIT: M.M.(INCHES)

DIMENSION



Model	A	B
EDGM-01-02	M5xP0.8x10L	PT(Rc)1/4"
EDGM-01-02-90	No. 10-24UNC	NPT1/4"
EDGM-01-03	M5xP0.8x10L	PT(Rc)3/8"
EDGM-01-03-90	No. 10-24UNC	NPT3/8"

UNIT: M.M.(INCHES)



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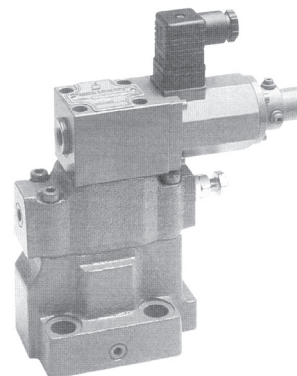
PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

【EBG-03, 06, 10】

※SPECIFICATION

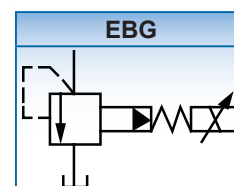
		EBG-03	EBG-06	EBG-10
MAX. OPER. PRES.	MPa(PSI)	21(3045)		
MAX. FLOW	ℓ/min(U.S. GPM)	100(26.4)	200(52.8)	400(105.6)
PRES. ADJ. RANGE	MPa(PSI)	C	0.8~14(116~2030)	
		H	1.0~21(145~3045)	
ALLOW BACK-PRES.	MPa(PSI)	< 0.2(29)		
RATED CURRENT	mA	C	750	
		H	700	
COIL RESISTANCE	Ω	10		
HYSTERESIS	%	< 3		
REPEATABILITY	%	< 0.5		
WEIGHT	(Kg)	7.1	8.3	10.7



※MODEL NUMBER DESIGNATION

EBG	03	C	(90)	※
SERIES NO.	VALVE SIZE	PRES. ADJ. RANGE C : 0.8~14(116~2030) H : 1.0~21(145~3045)	OMIT: WITH DIN 912 BOLTS 90: WITH UNC(NORTH AMERICA) BOLTS	DATE OF MANUFACTURE

※GRAPHIC SYMBOL



※CARE IN APPLICATION

► Place for installation

The bleeder has to be placed upword (as the following drawing described). When the valve has to be installed perpendicularly, please contact us.

► Elimination of Air(Air vent)

To stabilize the pressure, the air in pipe passage and valve has to be eliminated. Place the bleeder upword then open the screw of bleeder and eliminate the air away till there is no bubble, and then lock tightly the screw.

► Hand-adjusting Screw

When the electric control is disorder and need to supply pressure occassionaly, then just need to turn the hand-adjusting screw in clockwise direction.Restore to the origin at usual time.

► Drain

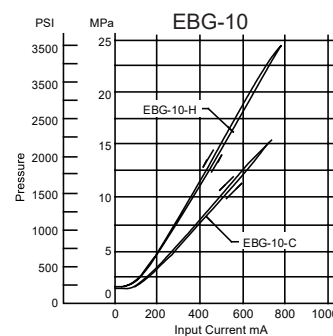
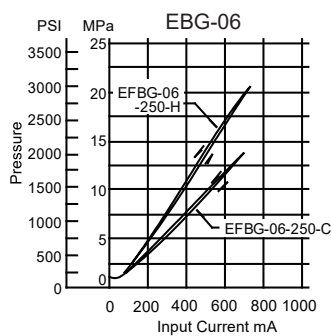
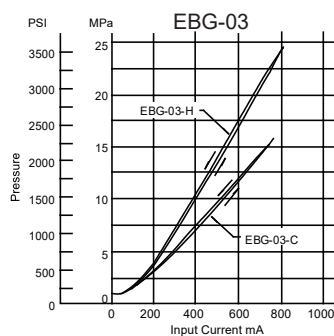
The resistance in the return pipe should be reduced by using one piping seperately and insert directly inside the oil tank.

► Highest Safety Pressure Design

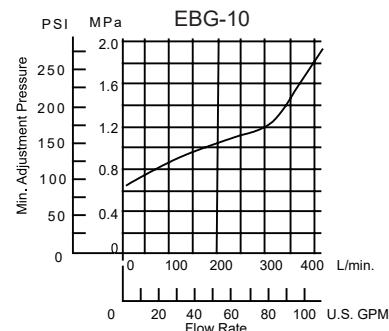
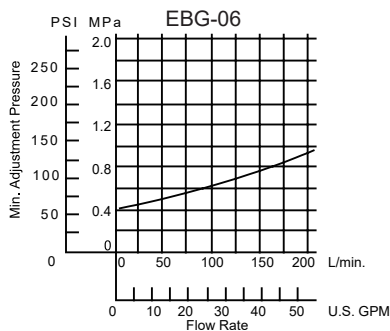
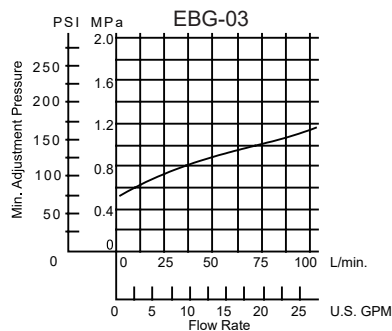
It is demanded upon actral oil pump discription and actual use pressure, just fine when oil pump is less than 100 ℓ/min(26.4 U.S. GPM), super add 0.15 MPa(21.7 PSI) is recommended.

※PERFORMANCE CURVE

■ CURRENT PRES. VS. INPUT



■ MIN. ADJ. PRES.





PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

MODEL	SOCKET HEAD SCREW CAP				TIGHTING TORQUE
	European Design. Std.	N. America Design Std.			
EBG-03	M12 × 40 L	1/2-13 UNC × 1-1/2" Lg.	4	Pcs	100~123Nm(868~1068 in.lbs)
EBG-06	M16 × 50 L	5/8-11 UNC × 2" Lg.	4	Pcs	286~354Nm(2482~3073 in.lbs)
EBG-10	M20 × 60 L	3/4-10 UNC × 2-1/4" Lg.	4	Pcs	473~585Nm(4106~5078 in.lbs)

UNIT: M.M.(INCHES)

MODEL	SOCKET HEAD SCREW CAP			TIGHTING TORQUE	
	European Design. Std.	N. America Design Std.			
EBG-03	M12 x 40 L	1/2-13 UNC x 1-1/2" Lg.	4	Pcs	100~123Nm(868~1068 in.lbs)
EBG-06	M16 x 50 L	5/8-11 UNC x 2" Lg.	4	Pcs	286~354Nm(2482~3073 in.lbs)
EBG-10	M20 x 60 L	3/4-10 UNC x 2-1/4" Lg.	4	Pcs	473~585Nm(4106~5078 in.lbs)

MODEL	A	B	C	D	E	G	H	J	K	L	N	P	Q	R	S	T	U
EBG-03	53.8(2.12)	53.8(2.12)	79(3.11)	11.1(0.44)	27(1.06)	115(4.53)	206(8.11)	27(1.06)	13.5(0.53)	21(0.83)	26(1.02)	106(4.17)	21.5(0.85)	219(8.62)	105(4.13)	152(5.98)	13(0.51)
EBG-06	66.7(2.63)	70(2.76)	98(3.86)	14(0.55)	35(1.38)	117(4.61)	210(8.27)	33(1.30)	17.5(0.69)	26(1.02)	36(1.42)	124(4.88)	26(1.02)	220(8.66)	105(4.13)	153(6.02)	13(0.51)
EBG-10	89(3.50)	82.6(3.25)	120(4.72)	18.7(0.74)	41.3(1.63)	122(4.8)	225(8.86)	45(1.77)	21.5(0.85)	32(1.26)	45(1.77)	155(6.10)	34(1.34)	246(9.69)	132(5.20)	178(7.01)	18(0.71)

EBGM
Subplate

MODEL	A	B	C	D	E	F	G	H	J	L	P	Q
EBGM-03-(X)	86(3.39)	60(2.36)	13(0.51)	53.8(2.12)	3(0.12)	26.9(1.06)	149(5.87)	13(0.51)	123(4.84)	32(1.26)	97(3.82)	53.8(2.12)
EBGM-06-(X)	108(4.25)	78(3.07)	15(0.59)	70(2.76)	4(0.16)	35(1.38)	180(7.09)	15(0.59)	150(5.91)	51(2.01)	121(4.76)	66.7(2.63)
EBGM-10-(X)	126(4.96)	94(3.70)	16(0.63)	82.6(3.25)	5.7(0.22)	41.3(1.63)	227(8.94)	16(0.63)	195(7.68)	62(2.44)	154(6.06)	88.9(3.50)

MODEL	K	N	S	T	U	V	X	Y	Z	AA	BB	a	b	d
EBGM-03	86	26	19	47.4	0	22	22	32	20	20	32(1.26)	14.5	11	17.5
EBGM-03-X	(3.39)	(0.83)	(0.75)	(1.87)		(0.87)	(1.26)	(0.79)	(0.79)		40(1.57)	(0.57)	(0.43)	(0.69)
EBGM-06	106.5	27.2	37	55.5	23.8	33.4	11	40	25	25	40(1.57)	23	13.5	21
EBGM-06-X	(4.19)	(0.71)	(1.46)	(2.19)	(0.94)	(1.31)	(0.43)	(1.57)	(0.98)	(0.98)	50(1.97)	(0.91)	(0.53)	(0.83)
EBGM-10	138.2	30.2	42	76.2	31.8	44.5	12.7	50	32	32	50(1.97)	28	17.5	26
EBGM-10-X	(5.44)	(0.67)	(1.65)	(3.00)	(1.25)	(1.75)	(0.50)	(1.97)	(1.26)	(1.26)	63(2.48)	(1.10)	(0.69)	(1.02)

MODEL	Taiwanese & European DIN std.			N. American Design Std.		
	e	f	g	e	f	g
EBGM-03	3/8"PT(Rc)		M12 Screw 20(0.79)Depth	3/8"NPT		1/2-13UNC Thd. 22(0.79)Depth
EBGM-03-X	1/2"PT(Rc)	1/4" PT(Rc)		1/2"NPT	1/4" NPT	
EBGM-06	3/4"PT(Rc)		M16 Screw 25(0.98)Depth	3/4"NPT		5/8-11UNC Thd. 27(1.06)Depth
EBGM-06-X	1"PT(Rc)			1"NPT		
EBGM-10	1-1/4"PT(Rc)		M20 Screw 28(1.10)Depth	1-1/4"NPT		3/4-10UNC Thd. 28(1.1)Depth
EBGM-10-X	1-1/2"PT(Rc)			1-1/2"NPT		

UNIT: M.M.(INCHES)



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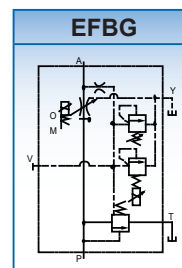
【EFBG-03, 06, 10】

※SPECIFICATION

DESCRIPTION		MODEL	EFBG-03	EFBG-06	EFBG-10
MAX. OPER. PRES.		MPa(Psi)	21(3045)		
MAX. FLOW		ℓ/min(U.S. GPM)	125(33.0)	250(66)	500(132)
FLOW SYSTEM	FLOW ADJ. RANGE	ℓ/min(U.S. GPM)	1~125(0.2633.0)	2~250(0.53~66)	5~500(1.32132)
	VALVE INTERNAL RESISTANCE	MPa(Psi)	5		
	RATED CURRENT	mA	750		
	COIL RESISTANCE	Ω	40		
	HYSTERESIS	%	< 7		
	REPEATABILITY	%	< 1		
PRESSURE SYSTEM	PRES. ADJ. RANGE	MPa(Psi)	C	0.8~14(116~2030)	
			H	1~21(145~3045)	
	ALLOWABLE BACK PRES.	MPa(Psi)	< 0.2(29)		
	RATED CURRENT	mA	C	750	
			H	700	
	COIL RESISTANCE	Ω	10		
HYSTERESIS		%	< 3		
REPEATABILITY		%	< 1		
	WEIGHT	(Kg)	18	33	58



※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

EFBG	03	125	C	(90)	※
SERIES NO.	VALVE SIZE 03 06 10	MAX. FLOW PRES. ℓ/min(U.S. GPM) 125: 125(33.0) 250: 250(66) 500: 500(132)	PRES. ADJ. RANGE C : 0.8~14(116~2030) H : 1.0~21(145~3045)	OMIT: WITH DIN 912 BOLTS 90: WITH UNC(NORTH AMERICA) BOLTS	DATE OF MANUFACTURE

※CARE IN APPLICATION

▶ Place for installation

The place of bleeder can be adjusted freely and put the direction upside availably to eliminate the air in pipe passage and valve.

▶ Drain

The return oil pipe passage should be avoided having flowed friction condition but reduce back pressure as possible.

▶ Hand-adjusting(pressure, flow) Screw(bar)

When electric control is disorder and need to supply pressure occasionally, then just need to turn the hand-adjusting screw in clockwise direction. Restore to the origin at usual time.

▶ Elimination of Air(Air Vent)

In order to stabilize the pressure and make speed shift acutely. It is very important to eliminate completely the air in pipe passage and valve.

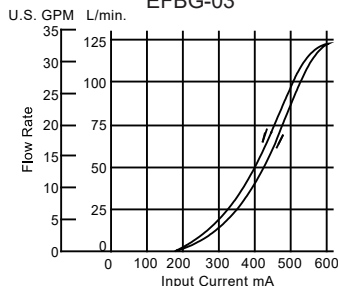
▶ Highest Safety Pressure Design

Refer to EBG-06

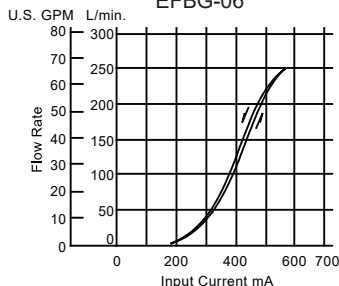
※PERFORMANCE CURVE

■ INPUT CURRENT VS. FLOW

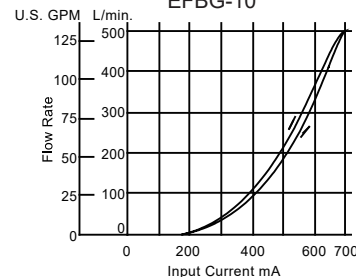
EFBG-03



EFBG-06

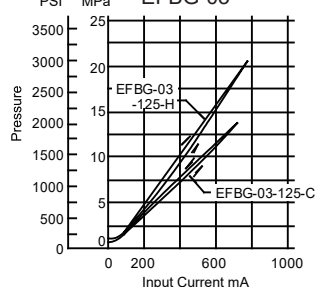


EFBG-10

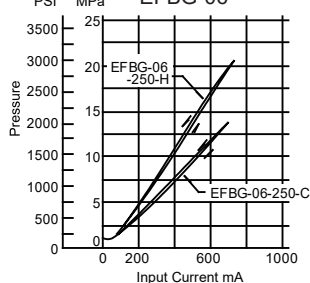


■ INPUT CURRENT VS. PRESSURE

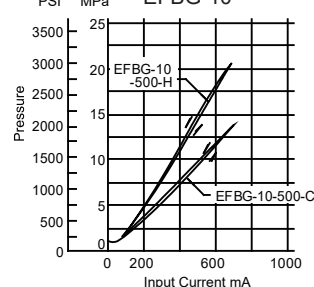
EFBG-03



EFBG-06



EFBG-10





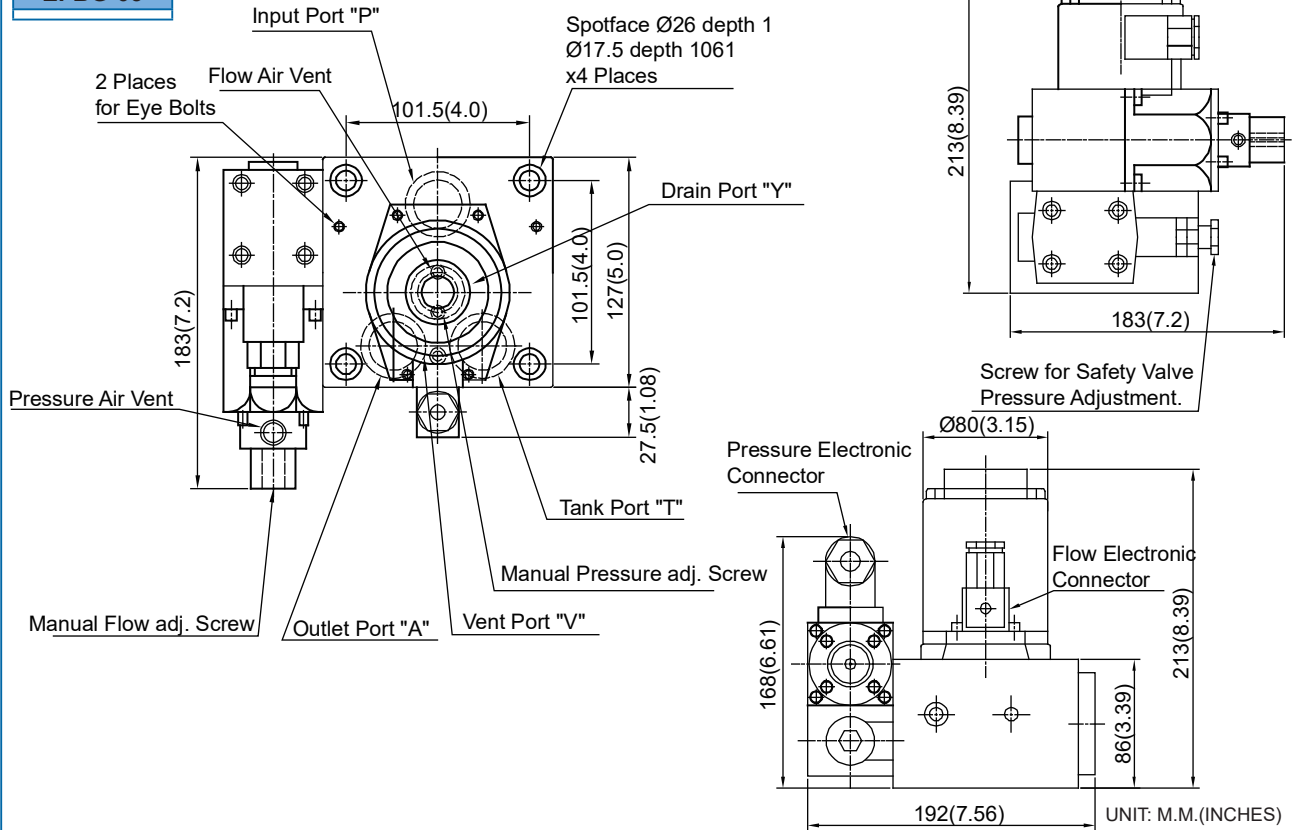
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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

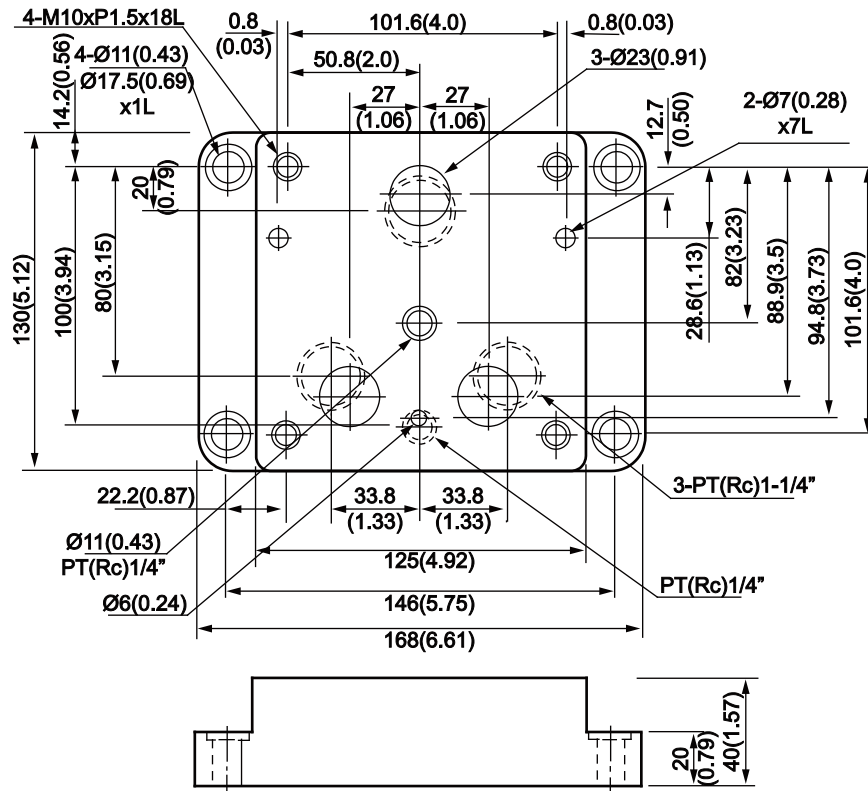
EFBG-03



DIMENSIONS

EFBG-03

Subplate



UNIT: M.M.(INCHES)



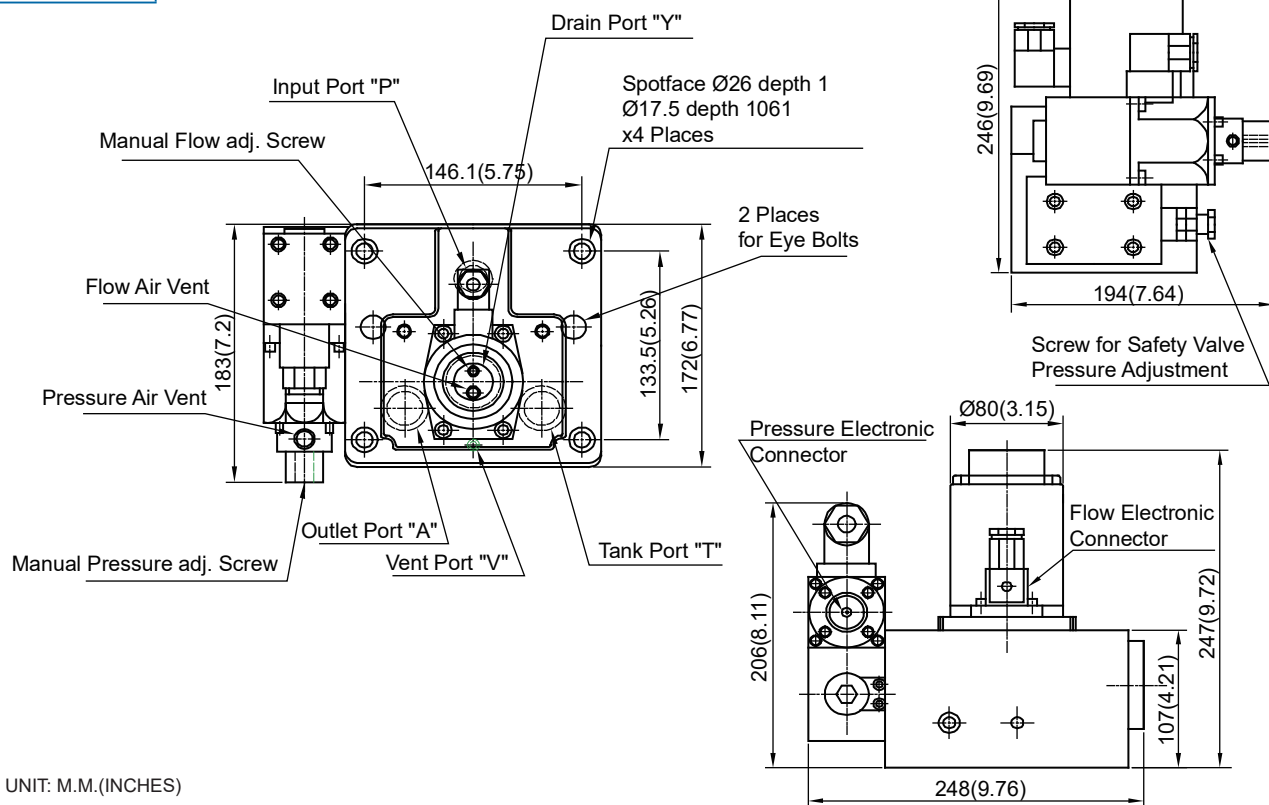
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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

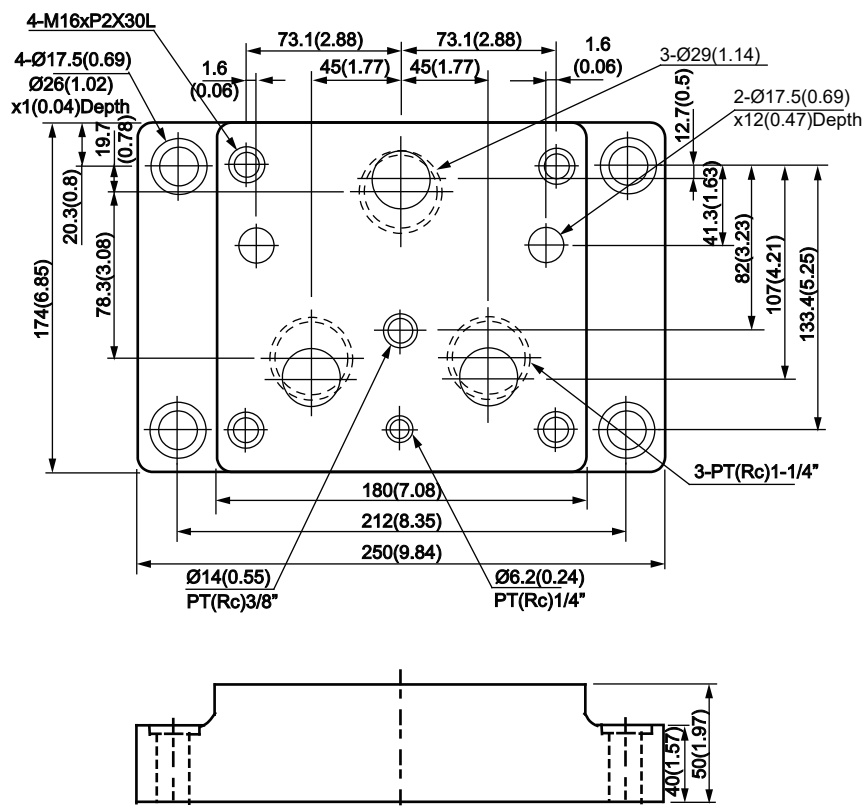
EFBG-06



DIMENSIONS

EFBG-06

Subplate





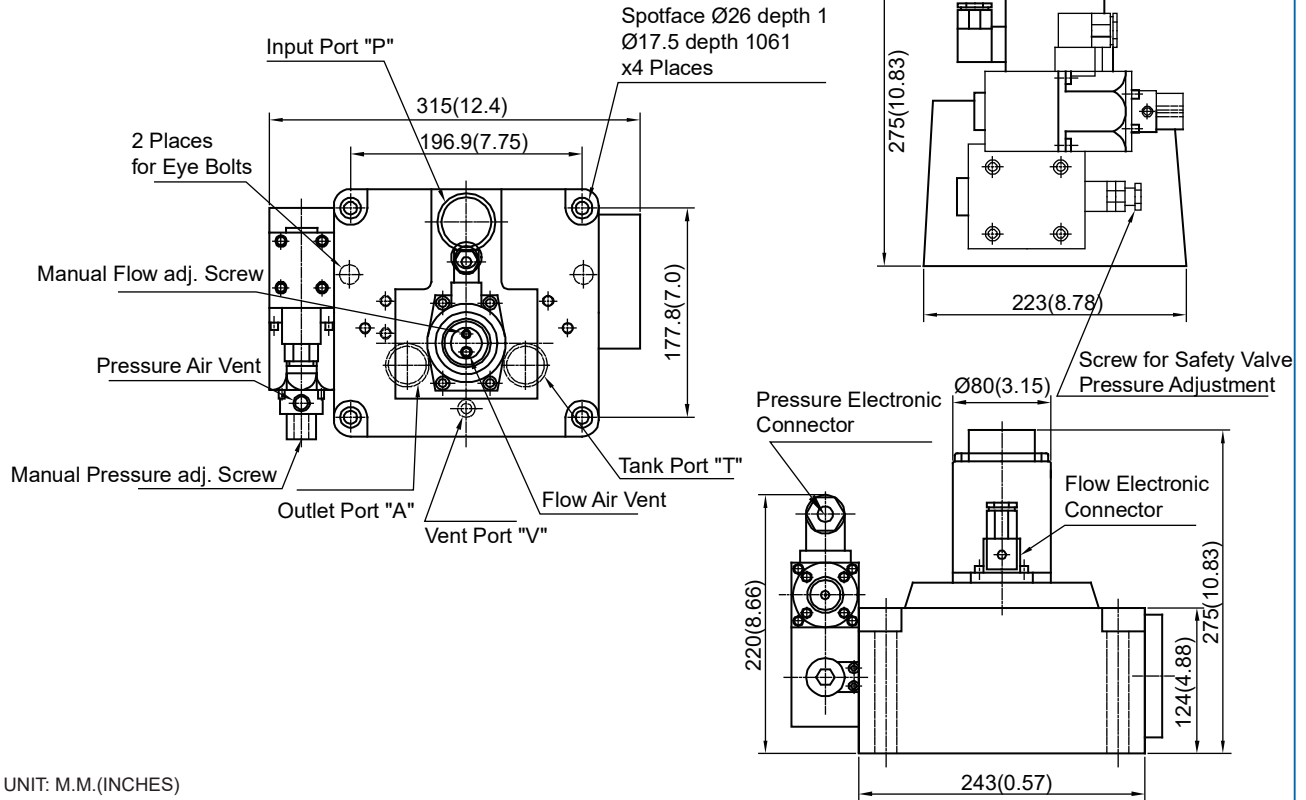
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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

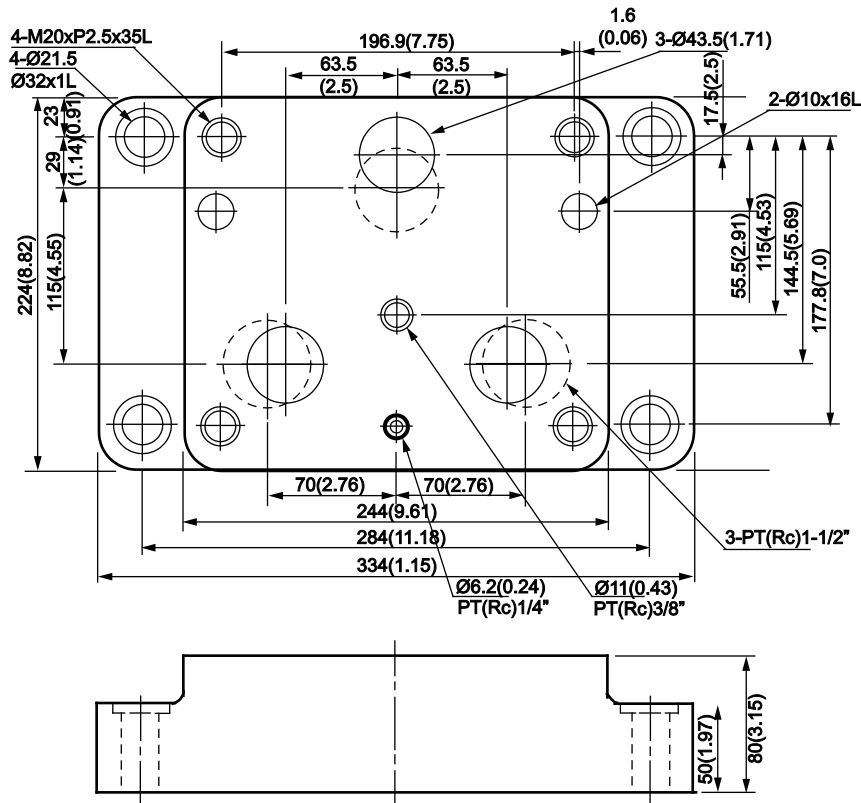
EFBG-10



DIMENSIONS

EFBG-10

Subplate



UNIT: M.M.(INCHES)



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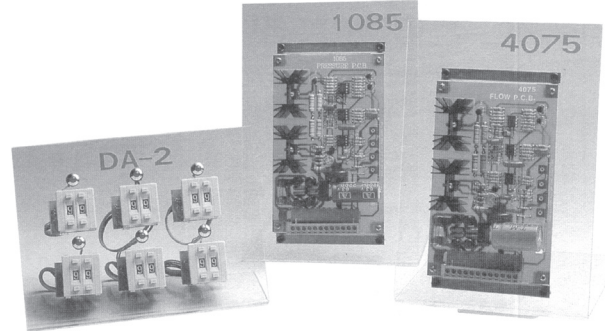
PROPORTIONAL CONTROLS

ELECTRONIC AMPLIFIER TERMINAL CONNECTIONS

【DA-2, 1085, 4075】

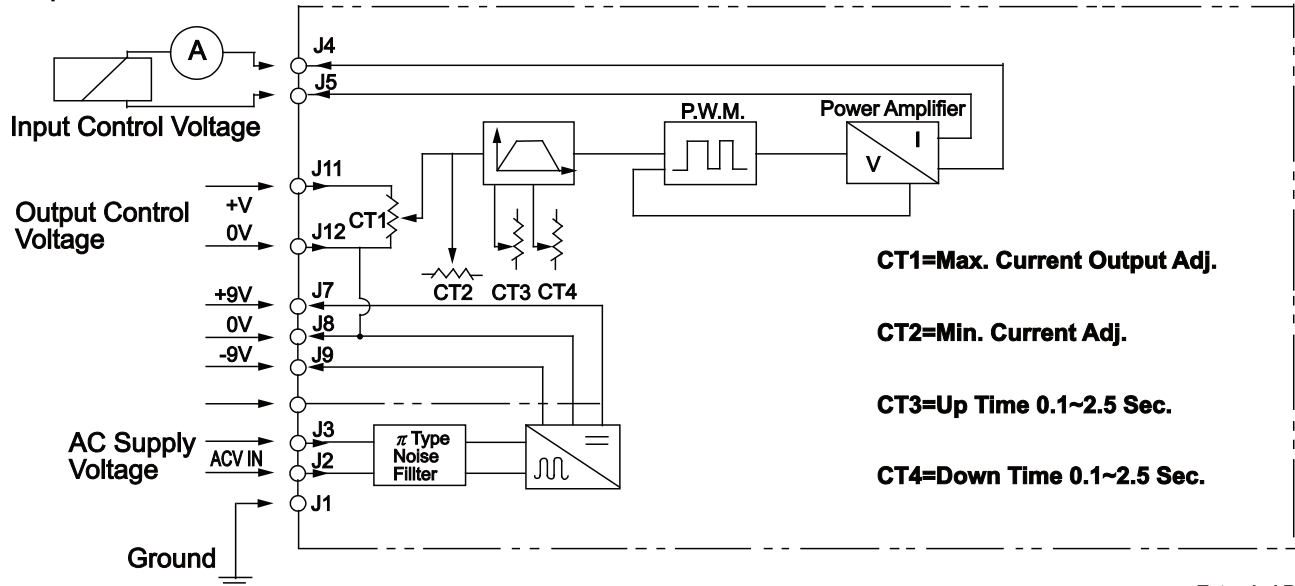
※SPECIFICATION

DESCRIPTION	MODEL	1085	4075
SUPPLY VOLTAGE		AC 28V ± 20%	AC 40V ± 20%
FUSE		2A	2
LOAD COIL RESISTANCE		10Ω/20℃	40Ω/20℃
INPUT CONTROL VOLTAGE		0V~+9V	0V~+9V
MAX. CURRENT OUTPUT RANGE		0~850mA	0~750mA
PILOT CURRENT ADJ. RANGE		0~150mA	0~150mA
UP RAMP TIME		0.1~2.5 sec.	0.1~2.5 sec.
DOWN RAMP TIME		0.1~2.5 sec	0.1~2.5 sec
TEMPERATURE DIRFT		0.1mA/1℃	0.2mA/1℃
WORK TEMPERATURE		0~50℃	0~50℃
MAX. POWER REQUIREMENT		15VA	40VA

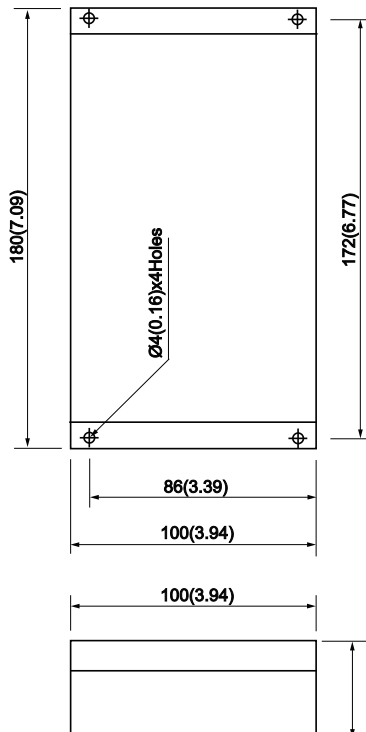


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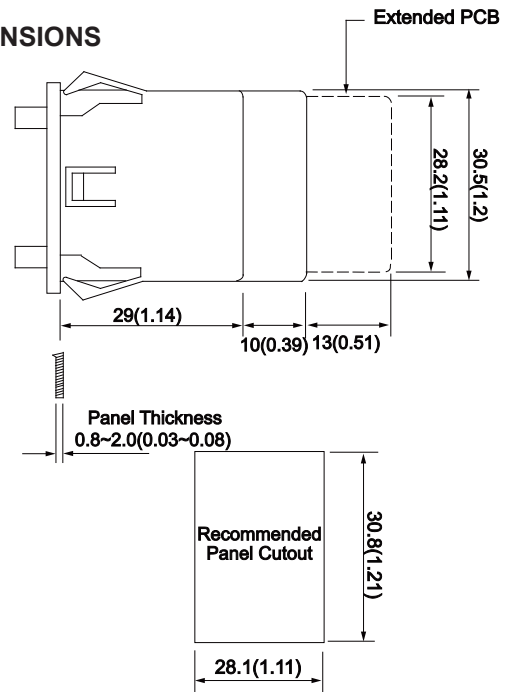
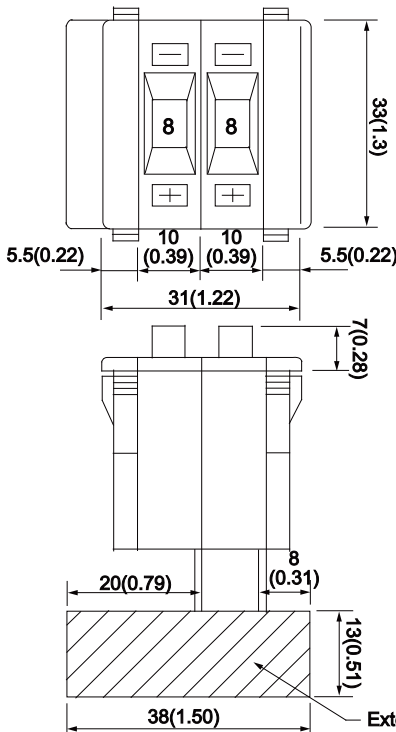
Proportional Valve Solenoid



※PC-BOARD DIMENSIONS



※DA2 DIMENSIONS



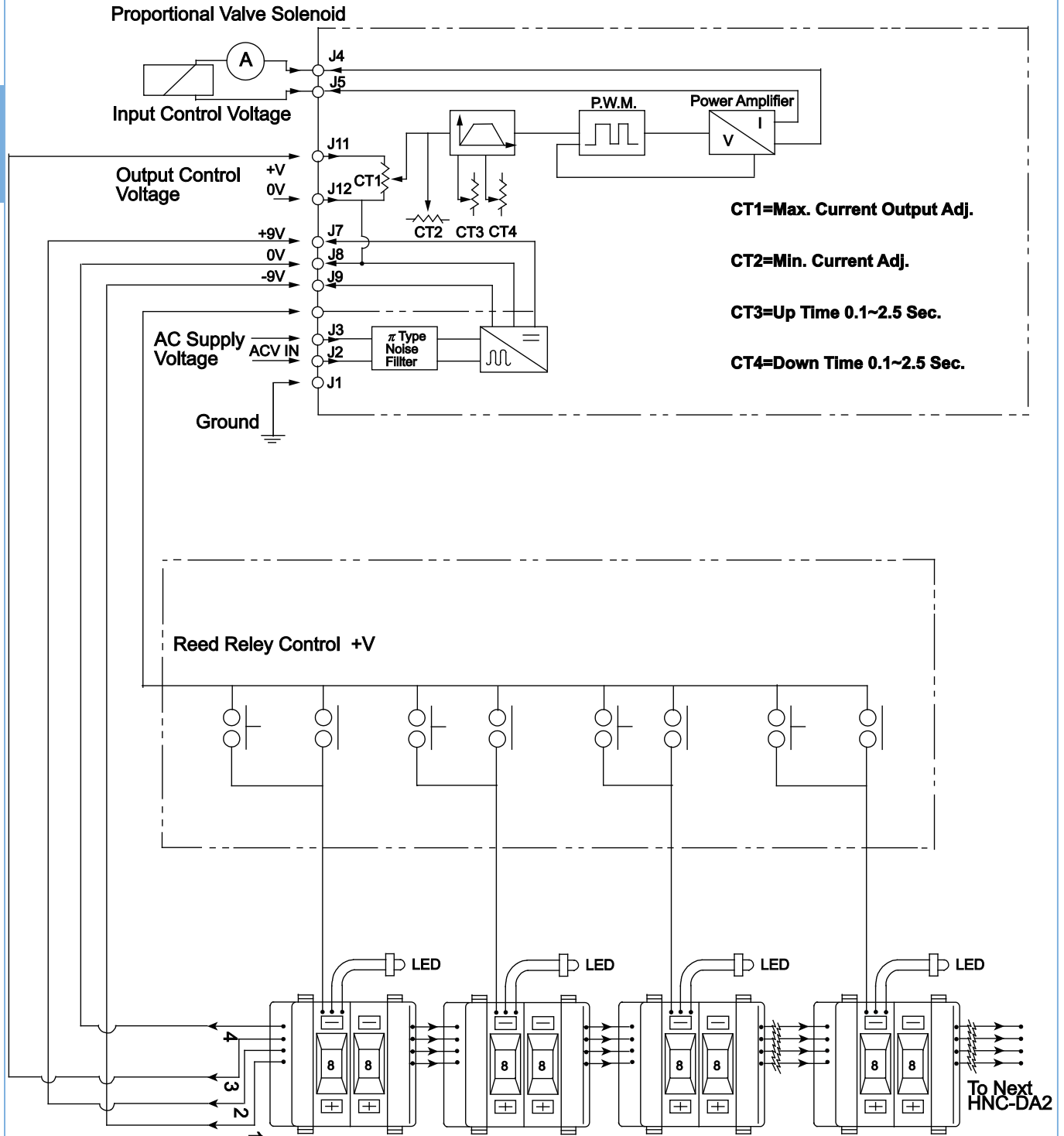


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PROPORTIONAL CONTROLS

ELECTRONIC AMPLIFIER TERMINAL CONNECTIONS

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PROPORTIONAL CONTROLS

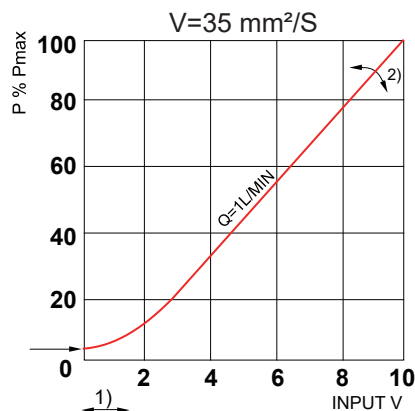
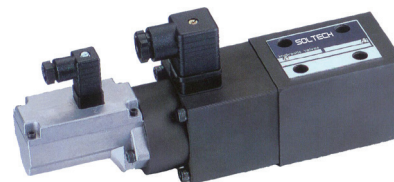
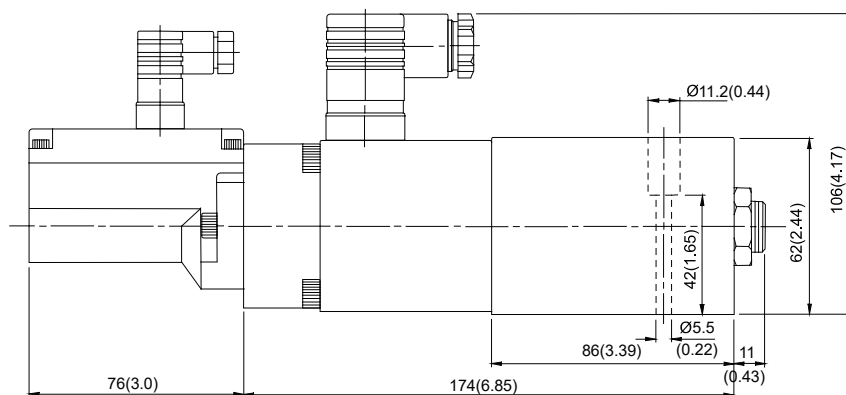
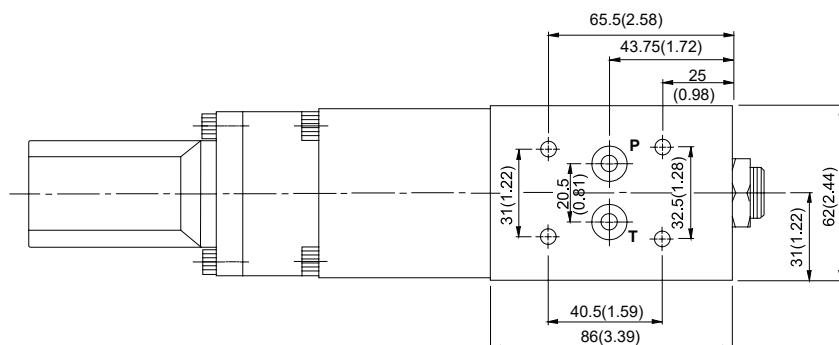
HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

[HPQ-P-02]**※SPECIFICATION**

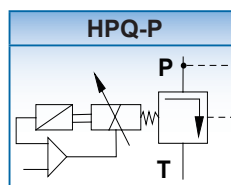
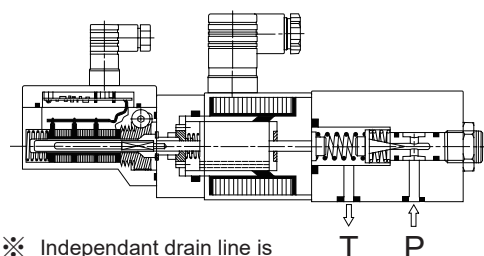
MAX. OPER. PRES.	MPa(PSI)	31.5(4568)
MAX. FLOW	ℓ/min(U.S. GPM)	1(0.26)
PRES. ADJ. RANGE	A	0.15~3(22~435)
	B	0.3~8(43.5~1160)
	C	0.4~18(58~2610)
	H	0.5~25(3625)
MAX. "T" PORT PRES.	MPa(PSI)	≤ 2(29)
RATED CURRENT	A Max.	3.7
POWER CONSUMPTION	VA Max.	60
COIL RESISTANCE at 20°C	Ω	2.5
HYSTERESIS	%	< 0.3
REPEATABILITY	%	< 0.2
RESPONSE TIME	100% Command Signal	≈ 45
	10% Command Signal	≈ 25
WEIGHT	(Kg)	4.5

※HYDRAULIC FLUID

HYDRAULIC FLUID STANDARD		DIN 51, 524, ...535
RECOMMENDED VALUE OF FLUID VISCOSITY		20~100 mm²/S
TEMPERATURE		-20~80°C
FLUID CLEANLINESS	NAS 1638	8, 9, 10
	βx=75	x=10, 20, 25

※PERFORMANCE CURVE**※DIMENSIONS**

WITH L.V.D.T.

※GRAPHIC SYMBOLELECTRONIC AMPLIFIER
PV-2537N

※ Independent drain line is necessary and it must be piped under oil level.

UNIT: M.M.(INCHES)



SOLTECH

PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

【HPQ-Q-03】

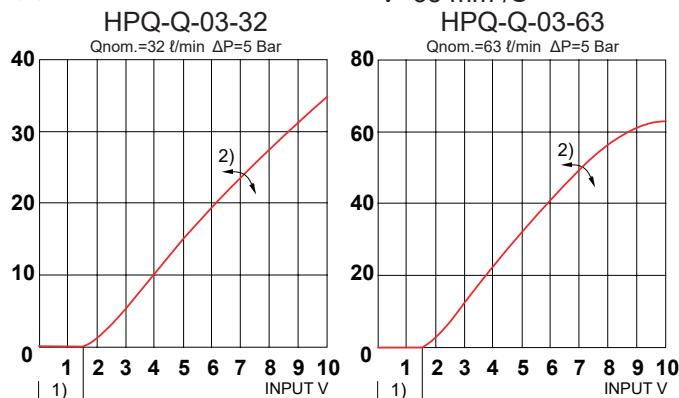
※SPECIFICATION

MAX. OPER. PRES.	MPa(PSI)	31.5(4568)
MAX. FLOW	ℓ/min(U.S. GPM)	HPQ-Q-03-32 32(8.45)
ΔP = 5 Bar, Qnom.:ℓ/min		HPQ-Q-03-63 63(16.64)
MAX. "T"/"L" PORT PRES.	MPa(PSI)	25(3625)/≤0.2(29)
RATED CURRENT	A Max.	3.7
POWER CONSUMPTION	VA Max.	60
COIL RESISTANCE at 20°C	Ω	2.5
HYSTERESIS	%	< 0.3
REPEATABILITY	%	< 0.2
RESPONSE TIME	ms	100% Command Signal ≈ 25
		10% Command Signal ≈ 15
WEIGHT	(Kg)	6.2

※HYDRAULIC FLUID

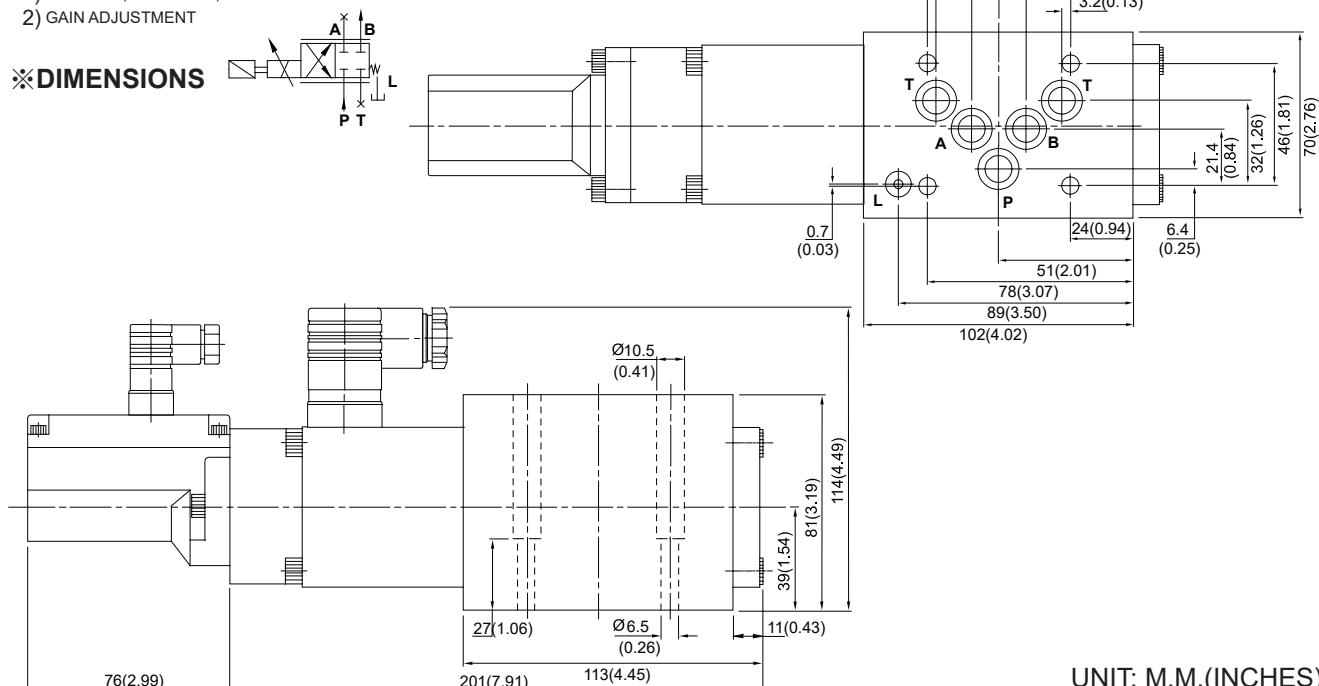
HYDRAULIC FLUID STANDARD	DIN 51, 524, ...535
RECOMMENDED VALUE OF FLUID VISCOSITY	20~100 mm ² /S
TEMPERATURE	-20~80°C
FLUID CLEANLINESS	NAS 1638 8, 9, 10
	βx=75 x=10, 20, 25

※PERFORMANCE CURVE V=35 mm²/S

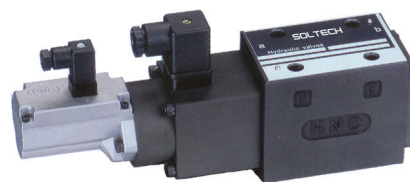


- 1) OVERLAP(DEADBAND) ADJUSTMENT
2) GAIN ADJUSTMENT

※DIMENSIONS



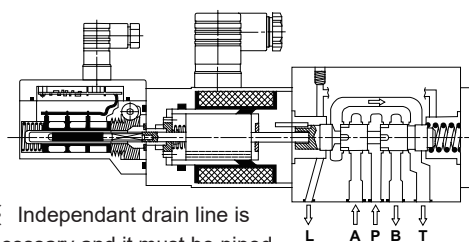
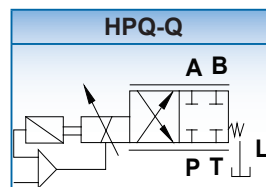
UNIT: M.M.(INCHES)



WITH L.V.D.T.

ELECTRONIC AMPLIFIER
QF-2537N

※GRAPHIC SYMBOL



※ Independent drain line is necessary and it must be piped under oil level.



E

► Valve Capacity

► Flow Rates Formula

► Application Example

For more information, please refer to "LGP-02-45"

The diagram illustrates a hydraulic system for a machine tool. The main components and their connections are as follows:

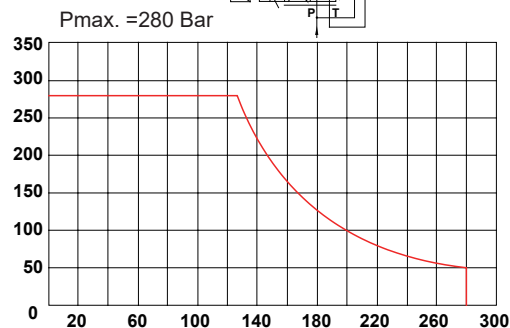
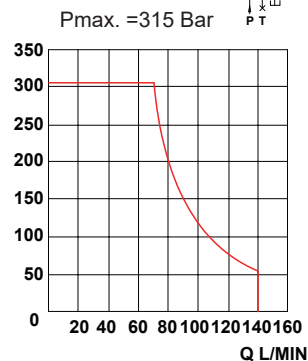
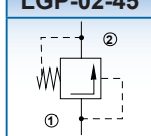
- Power Source:** A motor (M1) drives a pump (A1).
- Pressure Regulation:** A pressure relief valve (A2) is connected to the pump outlet to maintain system pressure.
- Directional Control:** A directional control valve (A4) controls the flow of hydraulic fluid to the cylinder (A3).
- Actuator:** A cylinder (A3) is used to move a work stop (WS).
- Monitoring:** Two gauges (GAUGE) and a pressure sensor (P1) are used to monitor the system pressure.
- Control Circuit:** The system is controlled by a series of electrical components including a pressure switch (A5), a work stop valve (WSV), and a work stop (WS).

The diagram shows the flow of hydraulic fluid through various components and the electrical control circuit.

【LGP-02-45】



LGP-02-45



This exploded view diagram illustrates the assembly of the 1000W 12VDC car stereo amplifier. The components are numbered 1 through 14:

- 1: Front flange
- 2: Mounting bracket
- 3: Main amplifier body
- 4: Heat sink
- 5: Heat sink gasket
- 6: Heat sink mounting screw
- 7: Rear flange
- 8: Rear flange gasket
- 9: Rear flange mounting screw
- 10: Rear flange nut
- 11: Rear flange washer
- 12: Rear flange lock washer
- 13: Rear flange lock nut
- 14: Rear flange lock washer

1	WASHER	6	SPRING	11	VALVE CAP
2	U TYPE PIN	7	WASHER	12	NUT
3	VALVE BODY	8	O RING-14X2.5	13	WASHER
4	SPOOL	9	ADJ. BOLT	14	CLASP
5	O RING-AS119	10	WASHER		



SOLTECH

PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

【HPQ-Q-LG】

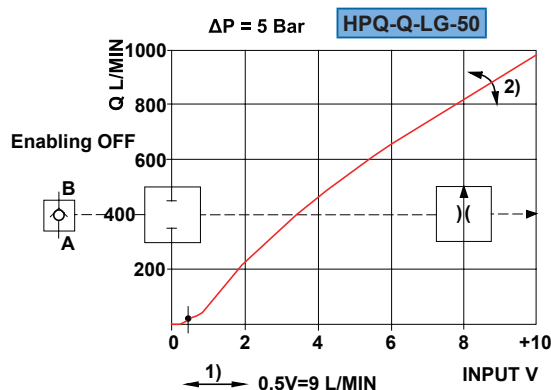
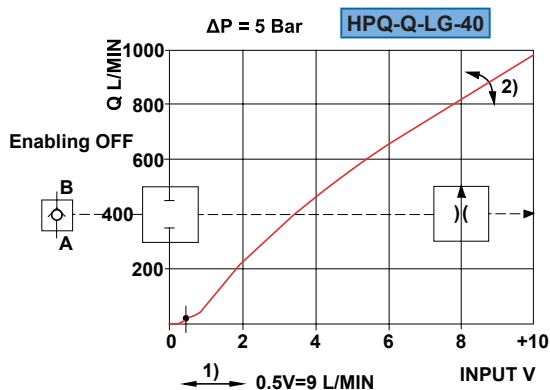
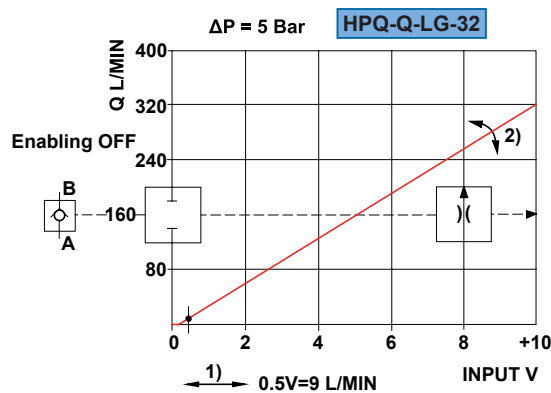
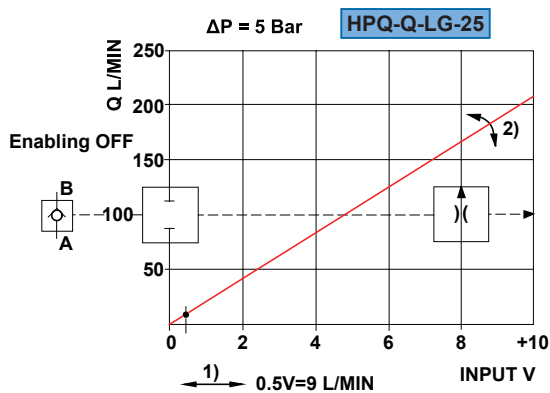
※SPECIFICATION

SPECIFICATION \ MODEL: HPQ-Q-LG-		25	32	40	50
MAX. OPER. PRE.	MPa(PSI)	35(5075)			
MAX. FLOW(Q _{nom.})	ℓ/min(U.S. GPM)	210(55.5)	320(84.5)	500(132.1)	980(258.9)
PILOT PRESSURE		A→B, >12 Bar			
		B→A, >20 Bar			
MAX. "Y" PORT PRES.	MPa(PSI)	10(1450)			
RATED CURRENT	A Max.	2.7			
POWER CONSUMPTION	W	25			
COIL RESISTANCE at 20°C	Ω	2.5			
HYSTERESIS	%	≤0.2			
REPEATABILITY	%	≤0.5			
RESPONSE TIME (X=100 Bar)	ms				
	Command Signal 0~100%	<70	<90	<90	<110
	Command Signal 100~0%	<70	<90	<130	<300
	Command Signal 0~10%	<50	<70	<70	<80
	ms				
	Command Signal 10~0%	<40	<50	<70	<100
WEIGHT	(Kg)	3.9	5.1	7.1	9.7

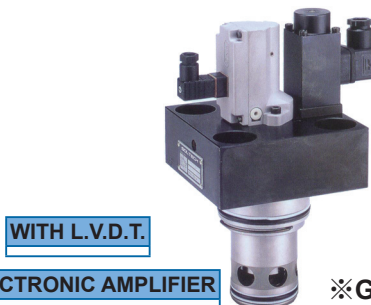
※HYDRAULIC FLUID

HYDRAULIC FLUID STANDARD	DIN 51, 524, ...535	
RECOMMENDED VALUE OF FLUID VISCOSITY	20~100 mm ² /S	
TEMPERATURE	-20~80°C	
SHIFT IN OIL TEMPERATURE	<1% at ΔT=40°C	
FLUID CLEANLINESS	NAS 1638	8, 9, 10
	β _x =75	x=10, 20, 25

※PERFORMANCE CURVE

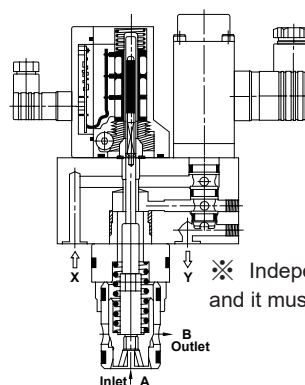
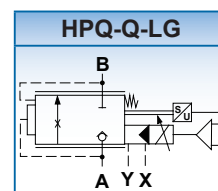


- 1) OVERLAP(DEADBAND) ADJUSTMENT
2) GAIN ADJUSTMENT



WITH L.V.D.T.
ELECTRONIC AMPLIFIER
QF-2326 LG

※GRAPHIC SYMBOL



※ Independent drain line is necessary and it must be piped under oil level.

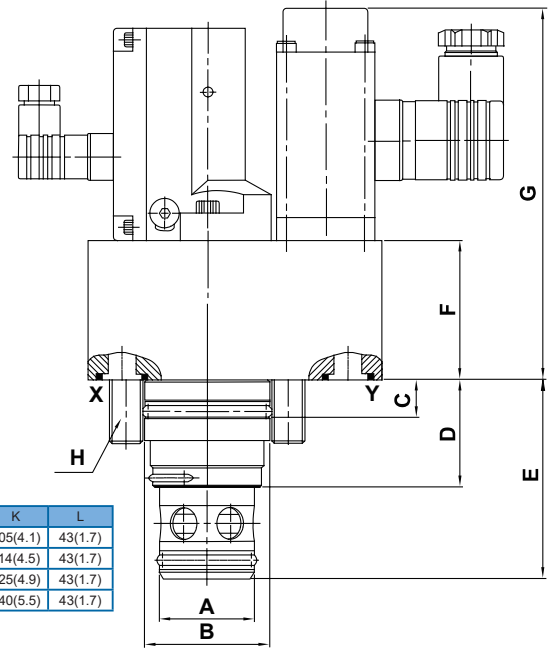
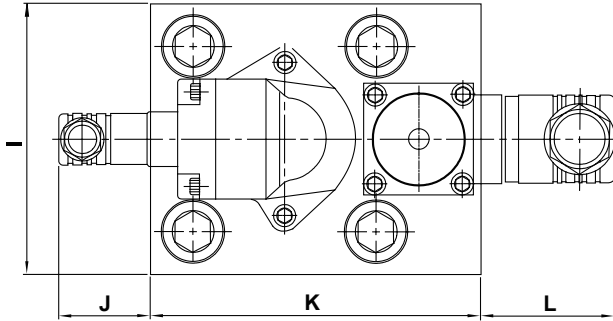


SOLTECH

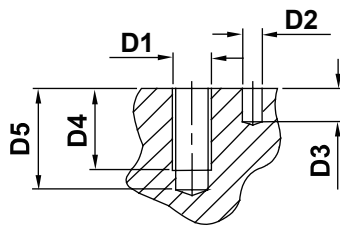
PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

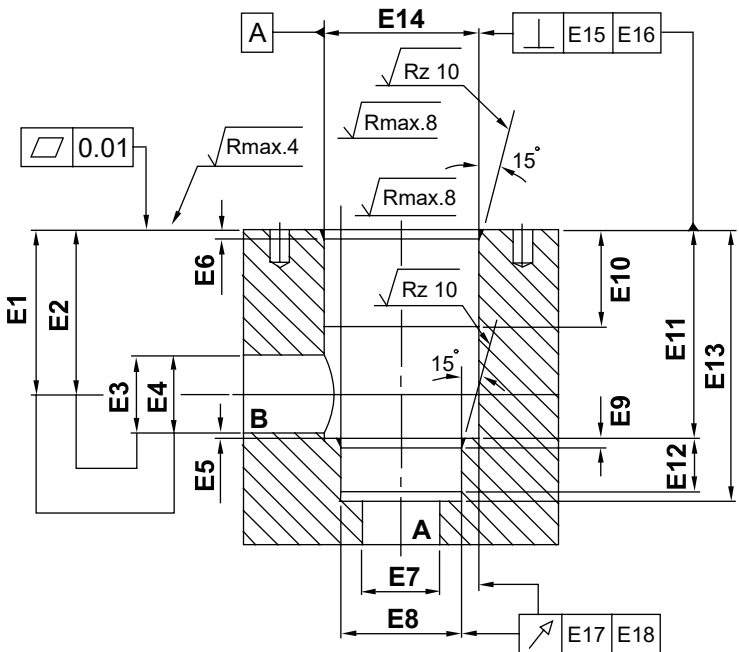
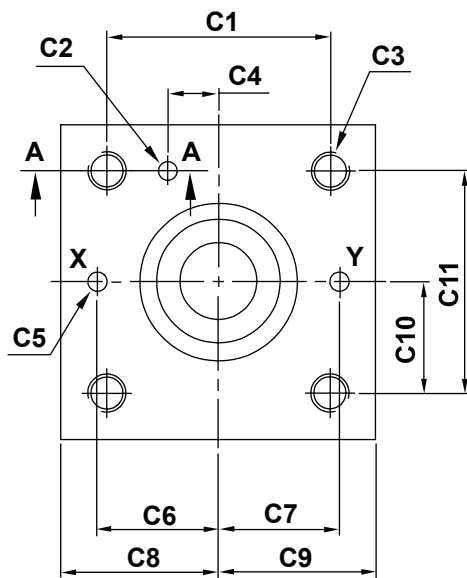
※DIMENSIONS



MODEL	ØA	B	C	D	E	F	G	H	I	J	K	L
HPQ-Q-LG-25	34(1.3)	45(1.8)	14(0.6)	39(1.5)	72(2.8)	50(2.0)	133(5.2)	M12x40, 4PCs	85(3.3)	29(1.1)	105(4.1)	43(1.7)
HPQ-Q-LG-32	45(1.8)	60(2.4)	24(0.9)	35(1.4)	85(3.3)	50(2.0)	133(5.2)	M16x50, 4PCs	102(4.0)	20.5(0.8)	114(4.5)	43(1.7)
HPQ-Q-LG-40	55(2.2)	75(3.0)	29(1.1)	40(1.6)	105(4.1)	50(2.0)	133(5.2)	M20x60, 4PCs	125(4.9)	9(0.4)	125(4.9)	43(1.7)
HPQ-Q-LG-50	68(2.7)	90(3.5)	32(1.3)	46.9(1.8)	122(4.8)	50(2.0)	133(5.2)	M20x60, 4PCs	140(5.5)	---	140(5.5)	43(1.7)



MODEL	D1	ØD2	D3	D4	D5
HPQ-Q-LG-25	M12	6 ^{H13} (0.2)	10 ⁺¹ (0.4)	25 ⁺¹ (1.0)	31 ⁺¹ (1.2)
HPQ-Q-LG-32	M16	6 ^{H13} (0.2)	10 ⁺¹ (0.4)	35 ⁺¹ (1.4)	42 ⁺¹ (1.7)
HPQ-Q-LG-40	M20	6 ^{H13} (0.2)	10 ⁺¹ (0.4)	45 ⁺¹ (1.8)	53 ⁺¹ (2.1)
HPQ-Q-LG-50	M20	8 ^{H13} (0.2)	10 ⁺¹ (0.4)	45 ⁺¹ (1.8)	53 ⁺¹ (2.1)



MODEL	C1	ØC2	ØC3	C4	C5	C6	C7	C8	C9	C10	C11
HPQ-Q-LG-25	58±0.2(2.3)	6 ^{H13} x10L	M12x25	16±0.1(0.6)	Max. 6(0.2)	33±0.1(1.3)	33±0.1(1.3)	42.5(1.7)	62.5(2.5)	29±0.1(1.1)	58±0.2(2.3)
HPQ-Q-LG-32	70±0.2(2.8)	6 ^{H13} x10L	M16x35	17±0.1(0.7)	Max. 8(0.3)	41±0.1(1.6)	41±0.1(1.6)	51(2.0)	63(2.5)	35±0.1(1.4)	70±0.2(2.8)
HPQ-Q-LG-40	85±0.2(3.3)	6 ^{H13} x10L	M20x45	23±0.1(0.9)	Max. 10(0.4)	50±0.1(2.0)	50±0.1(2.0)	62.5(2.5)	62.5(2.5)	42.5±0.1(1.7)	85±0.2(3.3)
HPQ-Q-LG-50	100±0.2(3.9)	8 ^{H13} x10L	M20x45	30±0.2(1.2)	Max. 10(0.4)	58±0.2(2.3)	58±0.2(2.3)	70(2.8)	70(2.8)	50±0.1(2.0)	100±0.2(3.9)

MODEL	E1	E2	ØE3	E4	E5	E6	ØE7	ØE8	E9	E10	E11	E12	E13	ØE14	E15	E16	E17	E18
HPQ-Q-LG-25	44(1.7)	40.5(1.6)	Max. 32(1.3)	Min. 25(1.0)	Min. 1(0.04)	2.5(0.1)	25(1.0)	34 ^{H7} (1.3)	2.5(0.1)	30(1.2)	58 ^{+0.1} (2.3)	12(0.5)	72 ^{+0.1} (2.8)	45 ^{H7} (1.8)	0.05	B	0.03	---
HPQ-Q-LG-32	52(2.0)	48(1.9)	Max. 40(1.6)	Min. 32(1.3)	Min. 1.5(0.05)	2.5(0.1)	32(1.3)	45 ^{H7} (1.8)	2.5(0.1)	30(1.2)	70 ^{+0.1} (2.8)	13(0.5)	85 ^{+0.1} (3.3)	60 ^{H7} (2.6)	0.1	B	0.03	A
HPQ-Q-LG-40	64(2.5)	59(2.3)	Max. 50(2.0)	Min. 40(1.6)	Min. 2.5(0.1)	3(0.1)	40 ^{H7} (1.6)	55 ^{H7} (2.2)	3(0.1)	30(1.2)	87 ^{+0.1} (3.4)	15(0.6)	105 ^{+0.1} (4.1)	75 ^{H7} (3.0)	0.1	8	0.05	A
HPQ-Q-LG-50	72(2.8)	65.5(2.6)	Max. 63(2.5)	Min. 50(2.0)	Min. 2.5(0.1)	4(0.2)	50(2.0)	68 ^{H7} (2.7)	3(0.1)	35(1.4)	100(3.9)	17(0.7)	122(4.8)	90 ^{H7} (3.5)	0.1	8	0.05	A

UNIT: M.M.(INCHES)

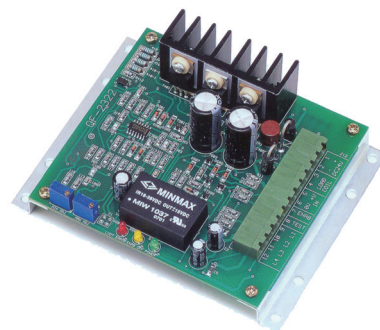


ELECTRONIC AMPLIFIER

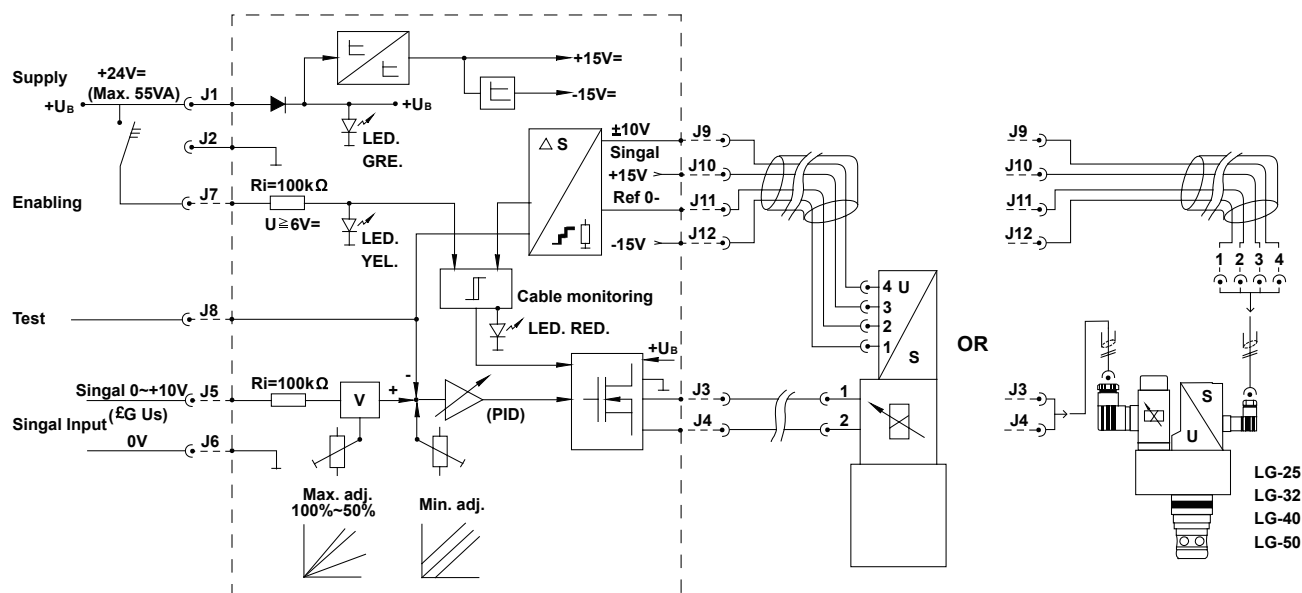
【PV-2537N, QF-2537N, QF-2326 LG】

✧ SPECIFICATION

DESCRIPTION	MODEL	PV/QF-2537N	QF-2326 LG
Power Supply J ₁ -J ₂		DC24V(18.2~36V/1.5A)	DC24V(18.2~36V/2.2A)
Power Consumption		2.7A/35VA, 3.7A/55VA Max.	25 W Max.
Current Rating J ₃ -J ₄		2.7A/3.7A Max.	2.6A Max.
Input Control Voltage		0V ~ +10V	0V ~ +10V
Load Coil Resistance		2.5Ω at 20°C	2.3Ω at 20°C
Work Temperature		0~50°C	0~50°C
Enable		J ₁ -J ₇ Open	J ₁ -J ₇ Open
L.V.D.T. Value Feedback J ₈		0V ~ -10V	0V ~ -10V
LED Display	GREEN	Power Supply Indication	
	YELLOW	Enable Indication	
	RED	L.V.D.T. Fault or Short-Circuit-Proof Indication	



✖BLOCK CIRCUIT DIAGRAM



✱PC-BOARD DIMENSIONS

