

E

PROPORTIONAL VALVES





SOLTECH

PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

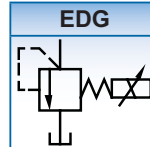
【 EDG-01 】

※SPECIFICATION

MAX. OPER. PRES.	MPa(PaSI)	21(3045)	
MAX. FLOW	ℓ/min(U.S. GPM)	2(0.53)	
PRES. ADJ. RANGE	MPa(PaSI)	C	0.8~14(116~2030)
		H	1.0~21(145~3045)
ALLOW BACK-PRES.	MPa(PaSI)	< 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 passage 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

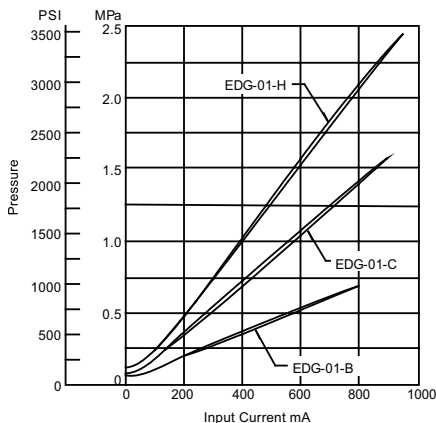
When the electric control is disorder and need to supply pressure occassionally, then just need to turn the hand-adjusting screw in clockwise direction.Restore to the origin at usual time.

▶ Drain

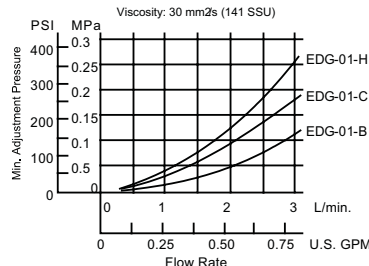
Insert the return back pressure on the end of low oil pipe directly to the place under the oil level of oil tank.

※PERFORMANCE CURVE

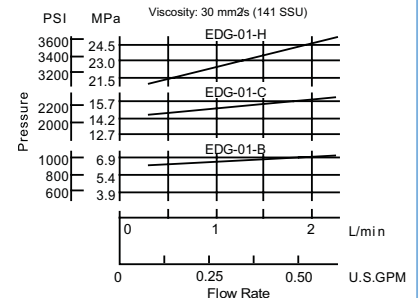
■ CURRENT PRES. VS. INPUT



■ MIN. ADJ. PRES.

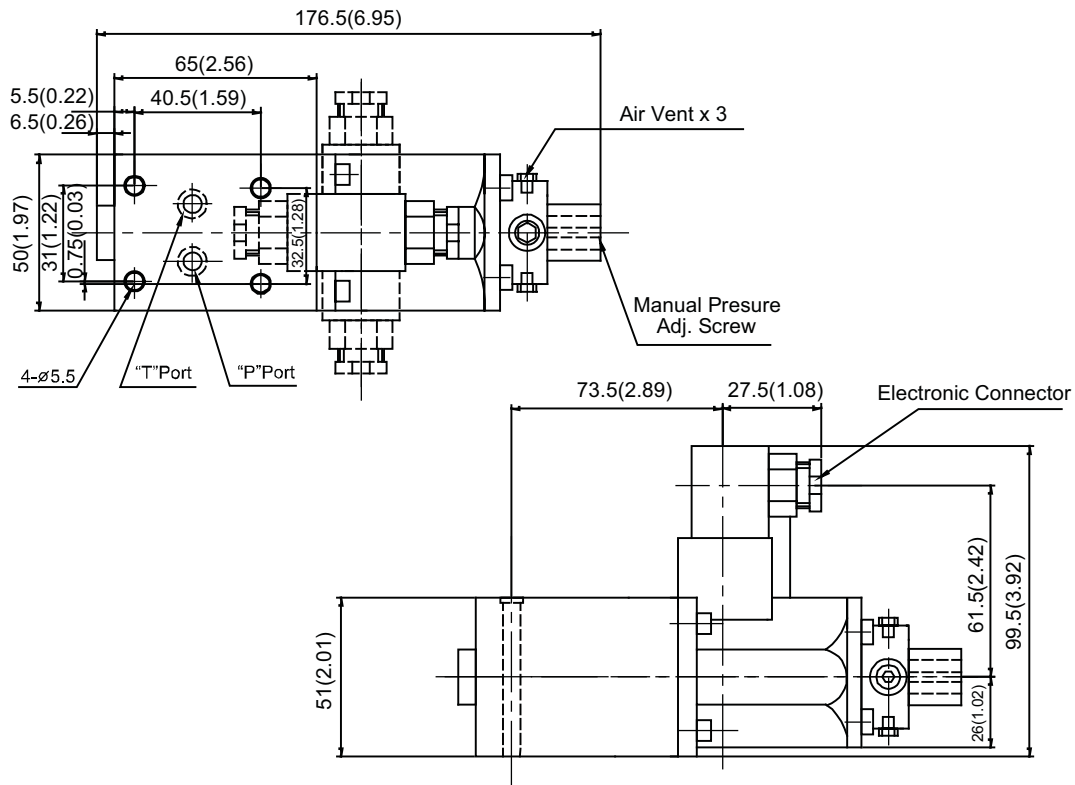


■ FLOW RATE VS. PRES.



E

DIMENSIONS

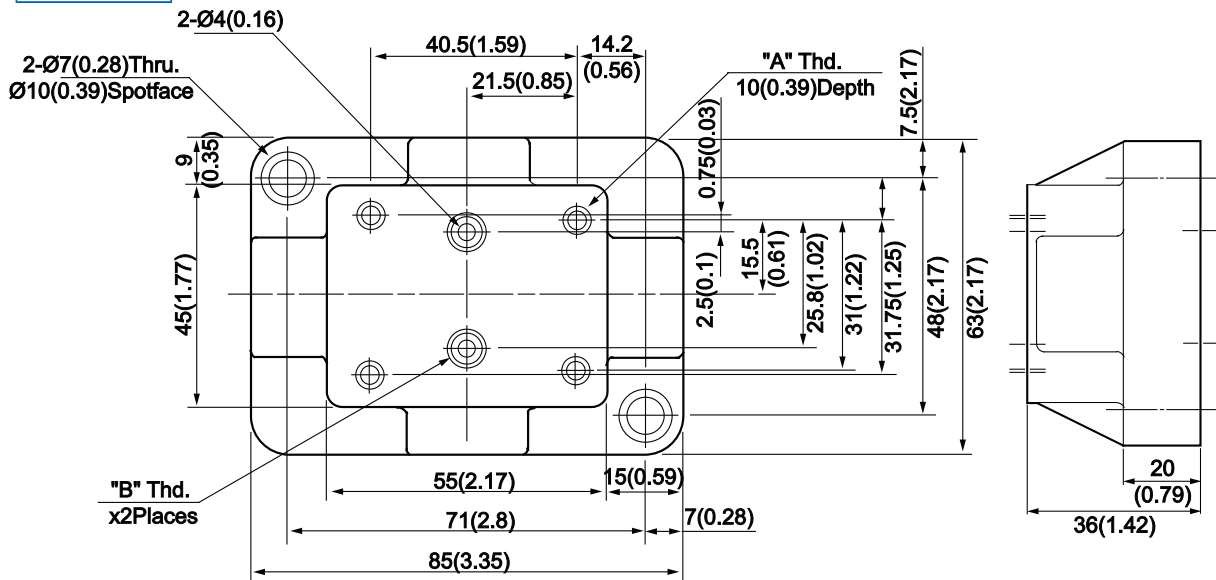


UNIT: M.M.(INCHES)

DIMENSION

EDGM

Subplate



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)

[EBG-03, 06, 10]

※ SPECIFICATION

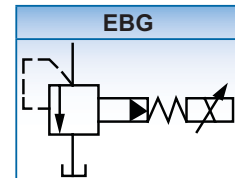
		EBG-03	EBG-06	EBG-10
MAX. OPER. PRES.	MPa(PSI)	21(3045)		
MAX. FLOW	ℓ/min(U.S. GPM)	100(26.4)	200(52.8)	400(105.6)
PRES. ADJ. RANGE	MPa(PSI)	C	0.8~14(116~2030)	
		H	1.0~21(145~3045)	
ALLOW BACK-PRES.	MPa(PSI)	< 0.2(29)		
RATED CURRENT	mA	C	750	
		H	700	
COIL RESISTANCE	Ω	10		
HYSTERESIS	%	< 3		
REPEATABILITY	%	< 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 upward (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 upward 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 occasionally, then just need to turn the hand-adjusting screw in clockwise direction. Restore to the origin at usual time.

▶ Drain

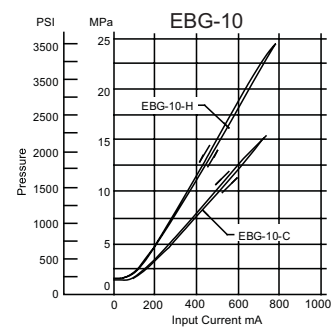
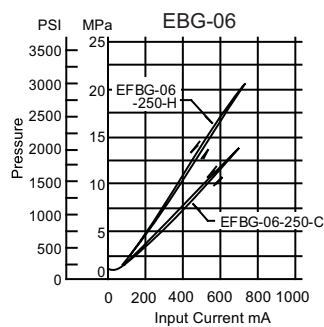
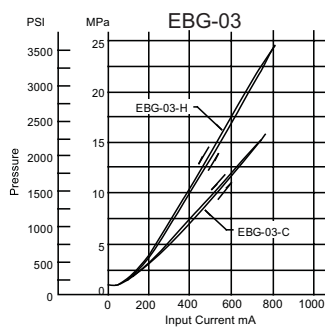
The resistance in the return pipe should be reduced by using one piping separately and insert directly inside the oil tank.

▶ Highest Safety Pressure Design

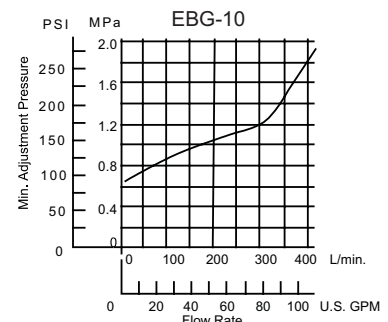
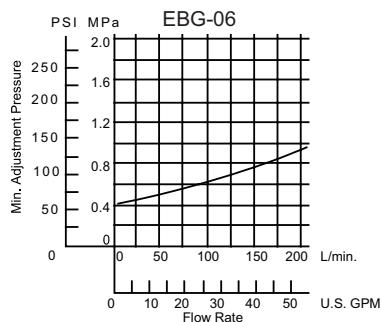
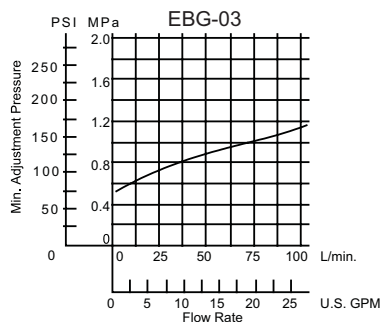
It is demanded upon actual oil pump description and actual use pressure, just fine when oil pump is less than 100 l/min(26.4 U.S. GPM), super add 0.15 MPa(21.7 PSI) is recommended.

※ PERFORMANCE CURVE

■ CURRENT PRES. VS. INPUT



■ MIN. ADJ. PRES.



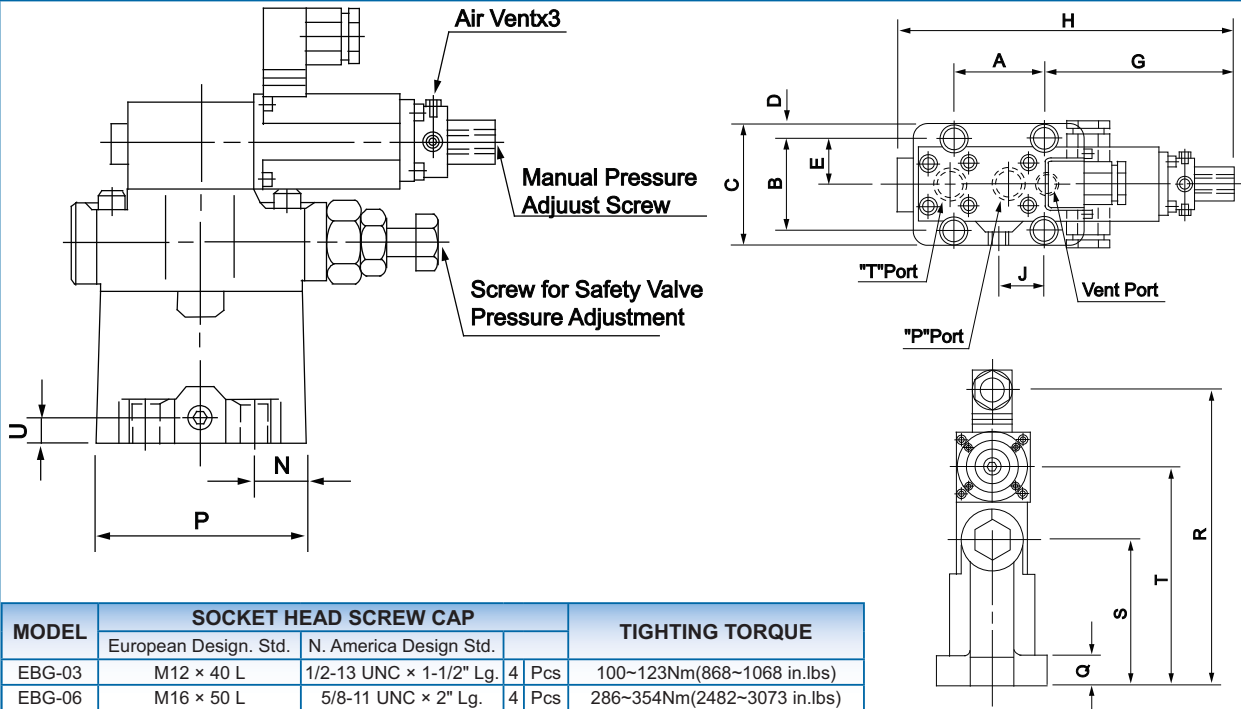


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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

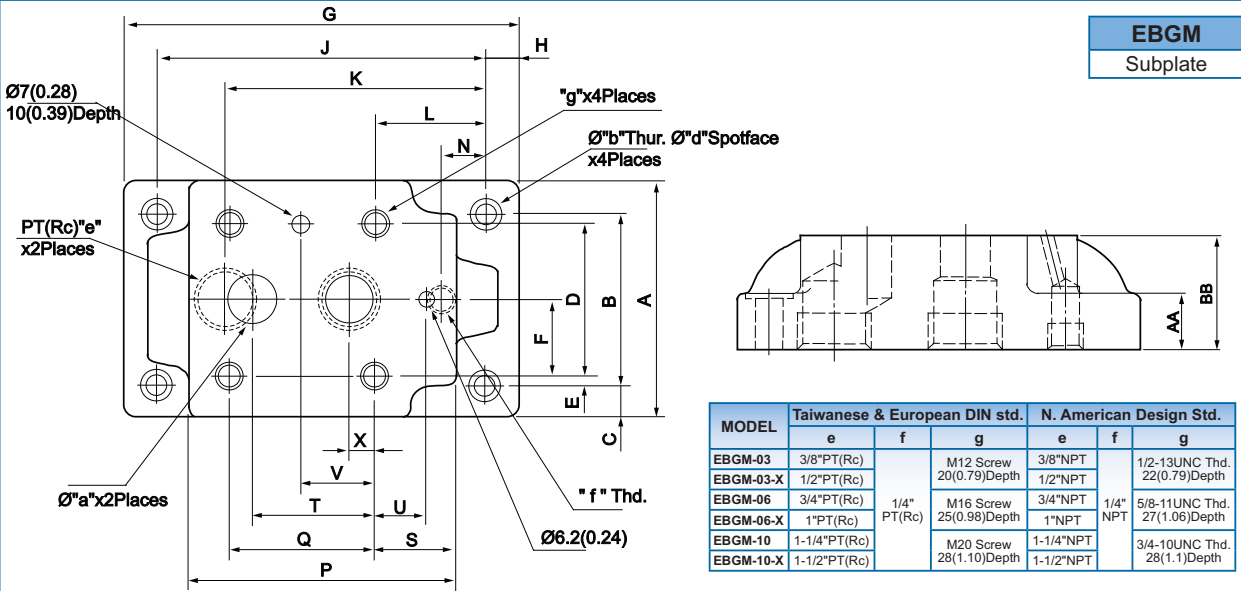


MODEL	SOCKET HEAD SCREW CAP			TIGHTING TORQUE	
	European Design. Std.	N. America Design Std.			
EBG-03	M12 × 40 L	1/2-13 UNC × 1-1/2" Lg.	4	Pcs	100~123Nm(868~1068 in.lbs)
EBG-06	M16 × 50 L	5/8-11 UNC × 2" Lg.	4	Pcs	286~354Nm(2482~3073 in.lbs)
EBG-10	M20 × 60 L	3/4-10 UNC × 2-1/4" Lg.	4	Pcs	473~585Nm(4106~5078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

UNIT: M.M.(INCHES)

MODEL	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)

DIMENSIONS



EBGM
Subplate

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

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	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	(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	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)	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	50(1.97)	28	17.5	26	
EBGM-10-X	(5.44)	(0.87)	(1.65)	(3.00)	(1.25)	(1.75)	(0.50)	(1.97)	(1.26)	63(2.48)	(1.10)	(0.69)	(1.02)	

UNIT: M.M.(INCHES)



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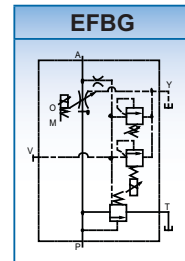
[EFBG-03, 06, 10]

※ 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	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 avilably 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 occassionally, then just need to turn the hand-adjusting screw in clockwise direction.Restore to the origin at usual time.

▶ Elimination of Air(Air Vent)

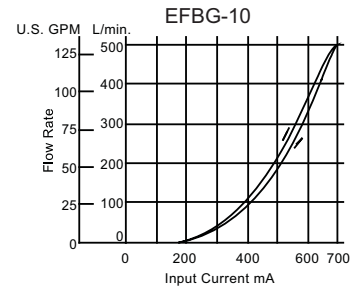
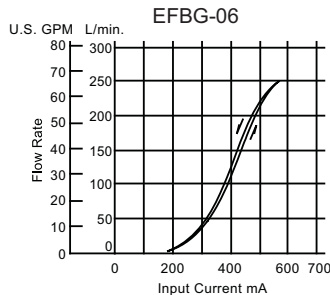
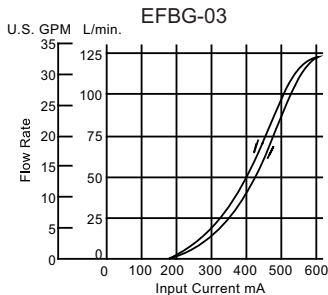
In order to stabilize the pressure and make speed shift acutely. It is very important to emilinate completely the air in pipe passage and valve.

▶ Highest Safety Pressure Design

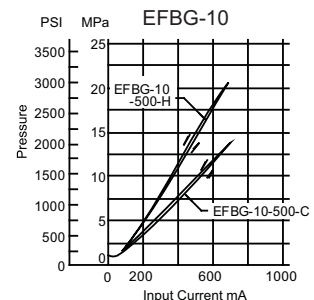
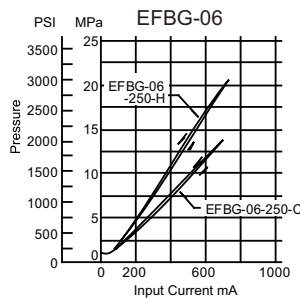
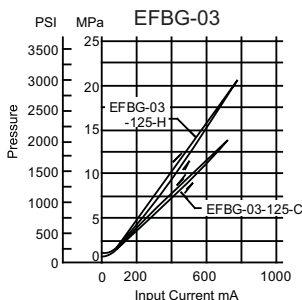
Refer to EBG-06

※ PERFORMANCE CURVE

■ INPUT CURRENT VS. FLOW



■ INPUT CURRENT VS. PRESSURE



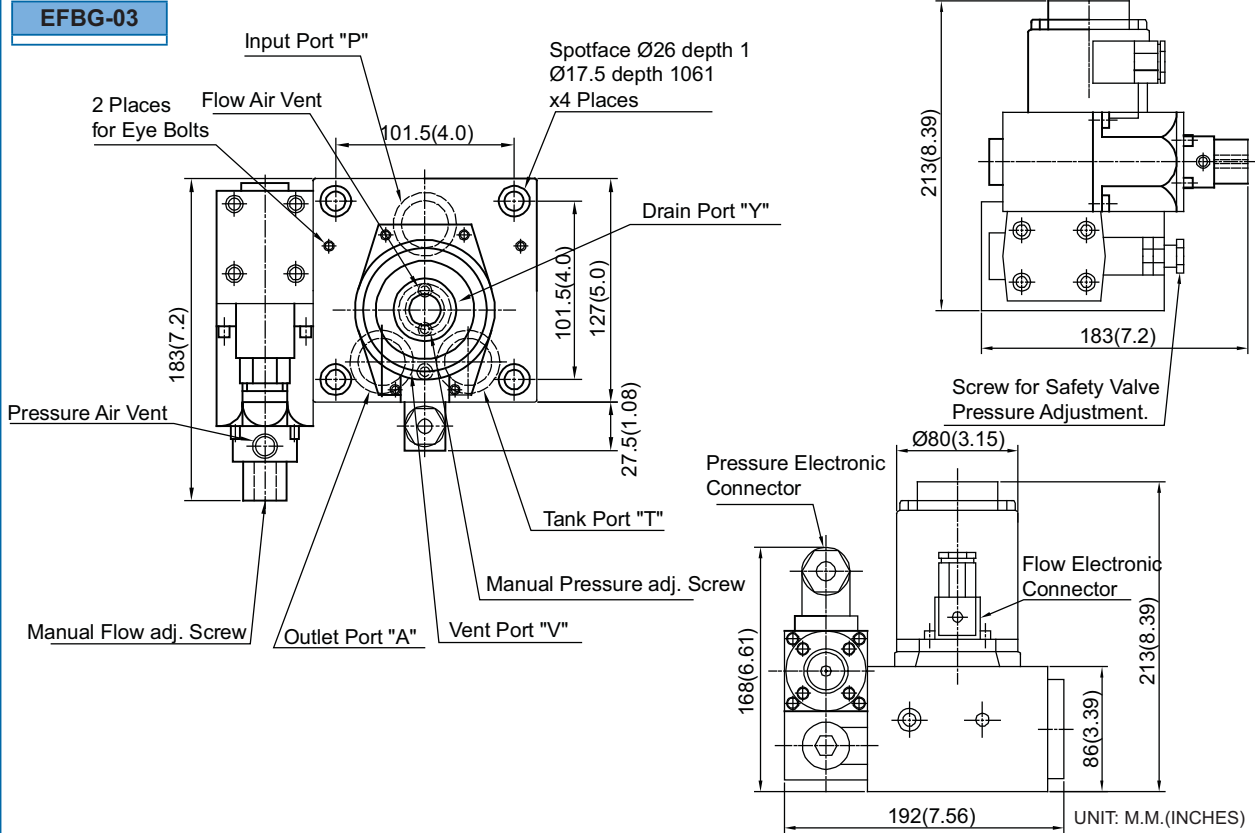


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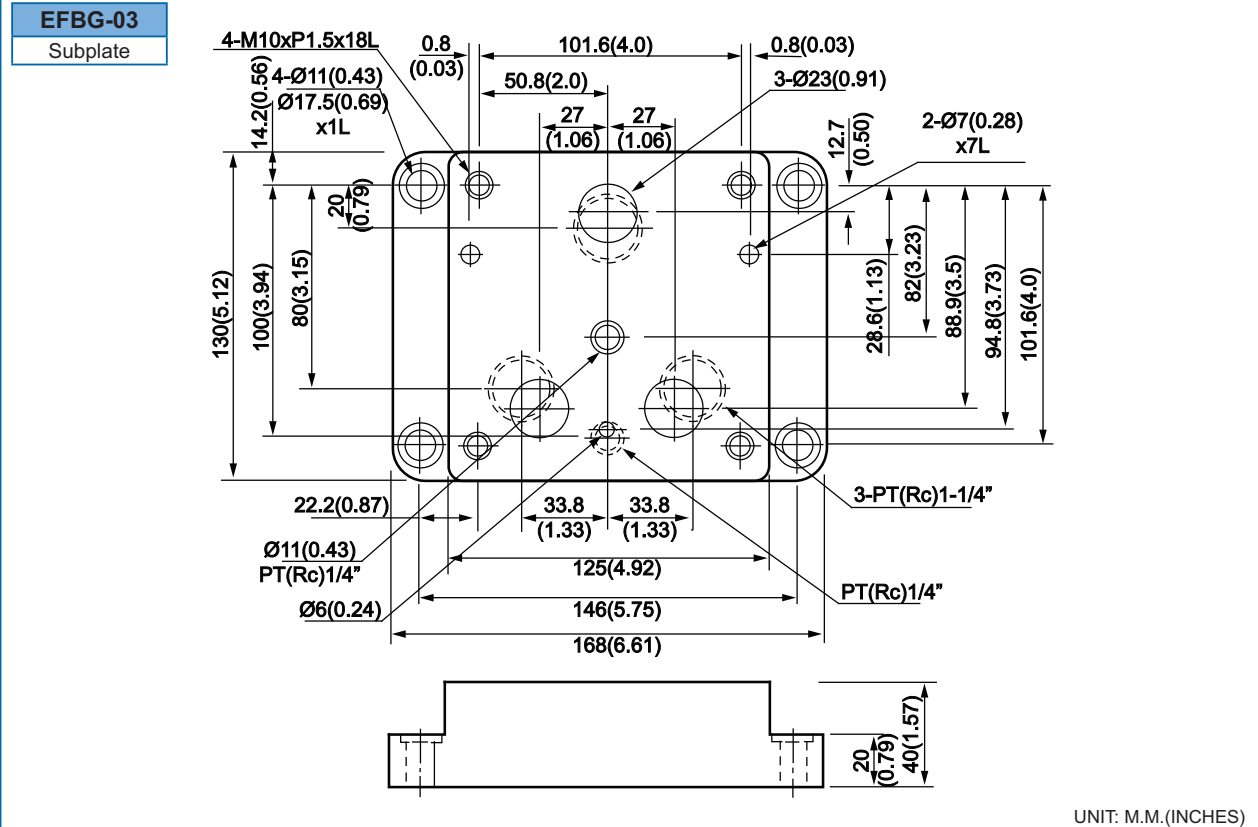
PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS



DIMENSIONS





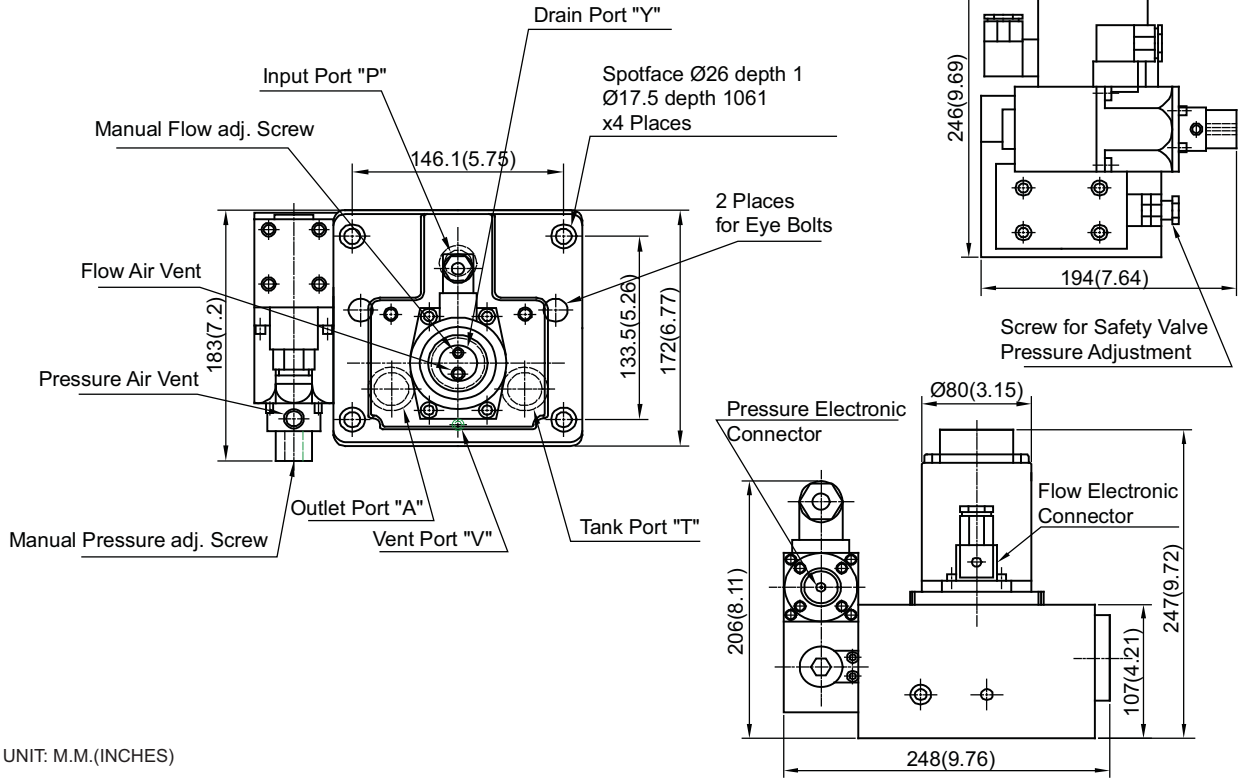
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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

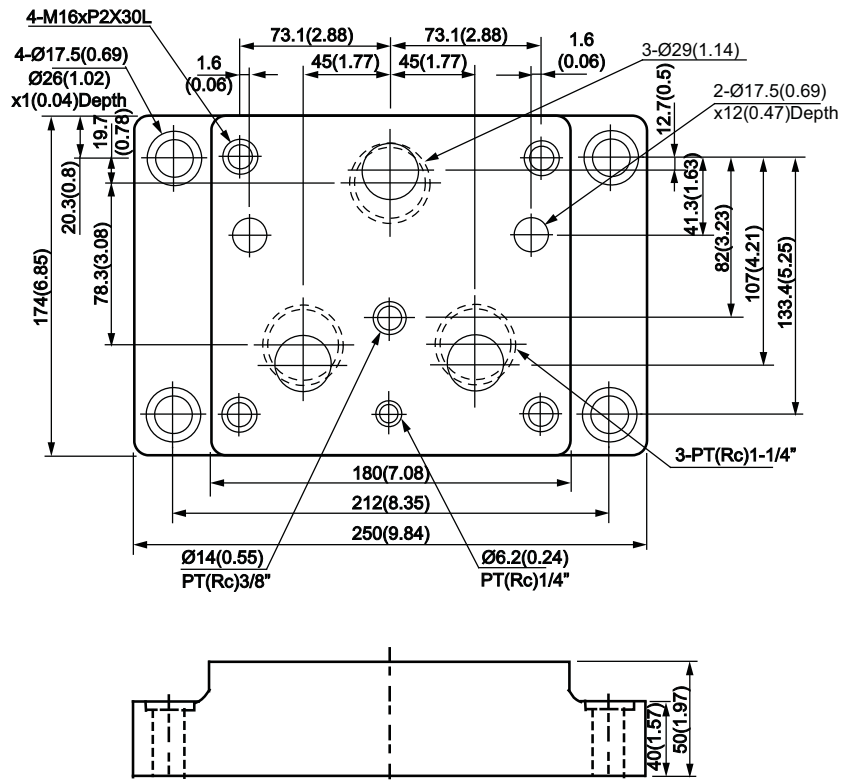
EFBG-06



DIMENSIONS

EFBG-06

Subplate





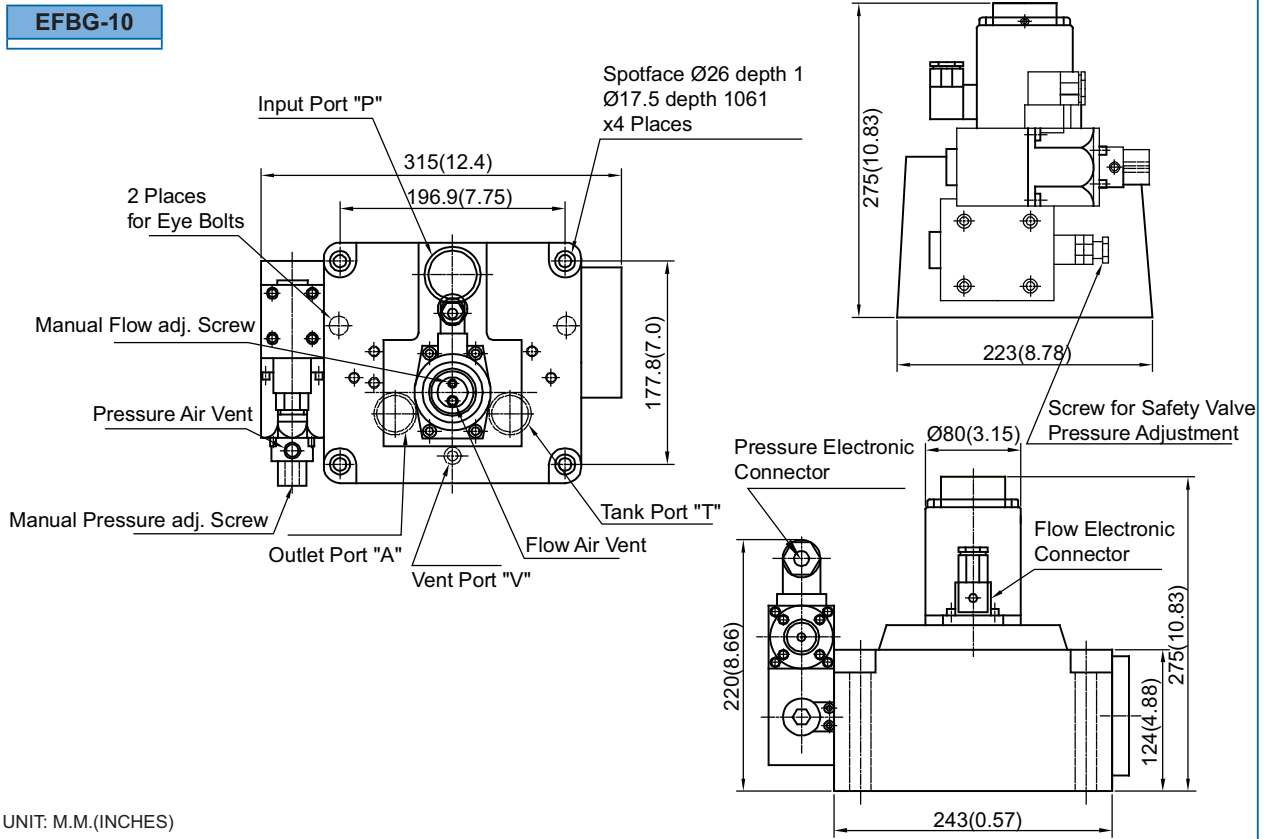
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PROPORTIONAL CONTROLS

PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVES

DIMENSIONS

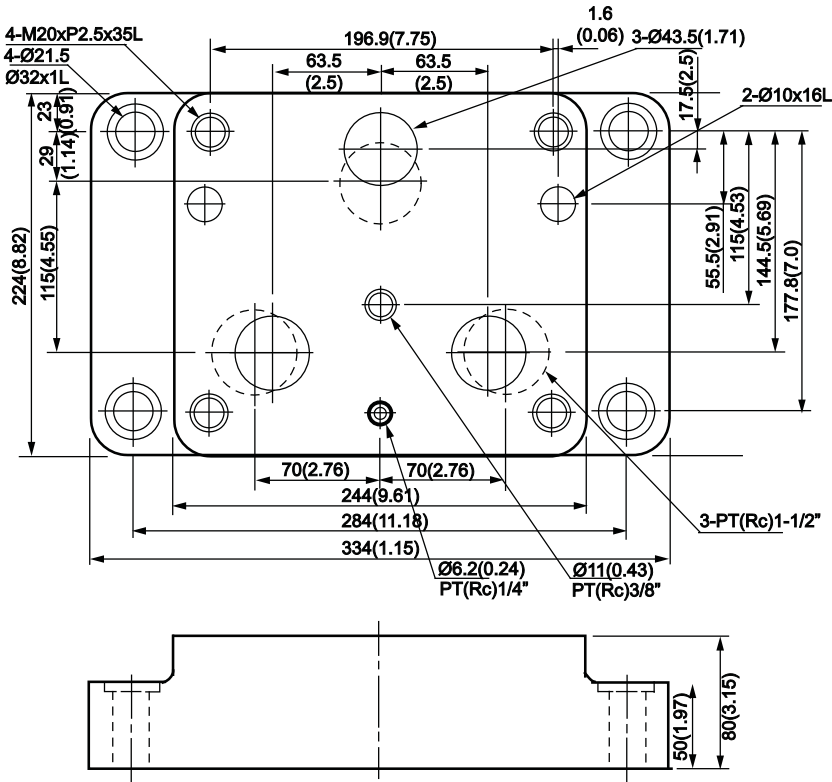
E
EFBG-10



DIMENSIONS

EFBG-10

Subplate





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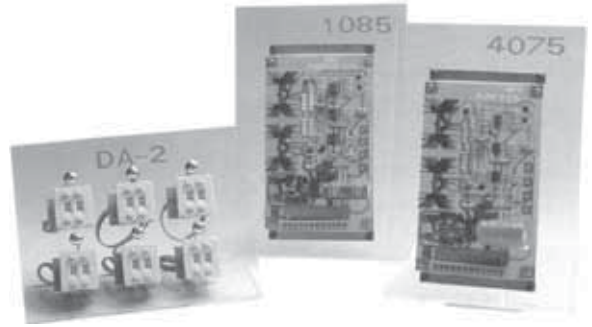
PROPORTIONAL CONTROLS

ELECTRONIC AMPLIFIER TERMINAL CONNECTIONS

[DA-2, 1085, 4075]

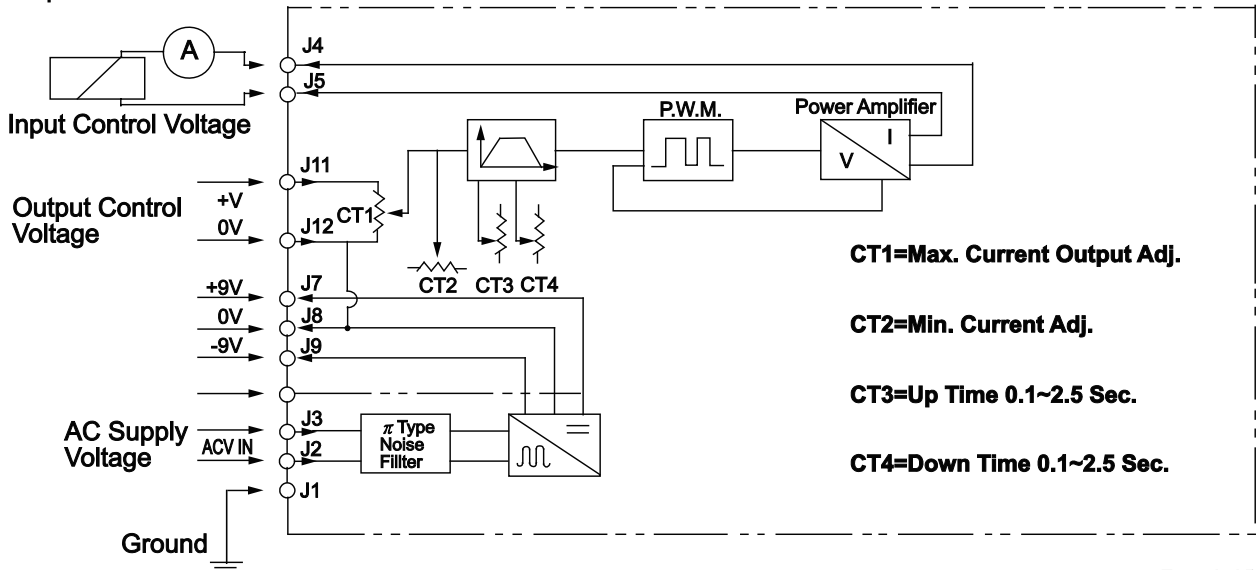
※SPECIFICATION

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

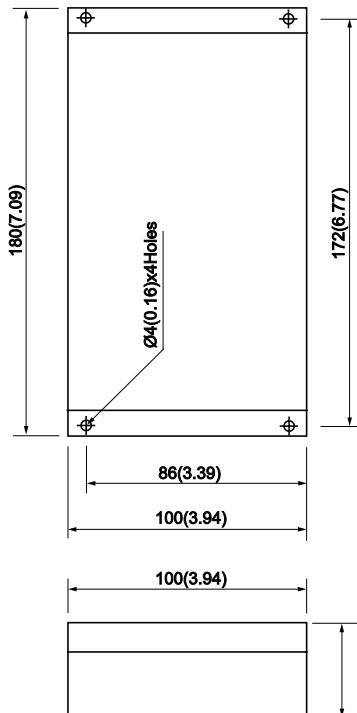


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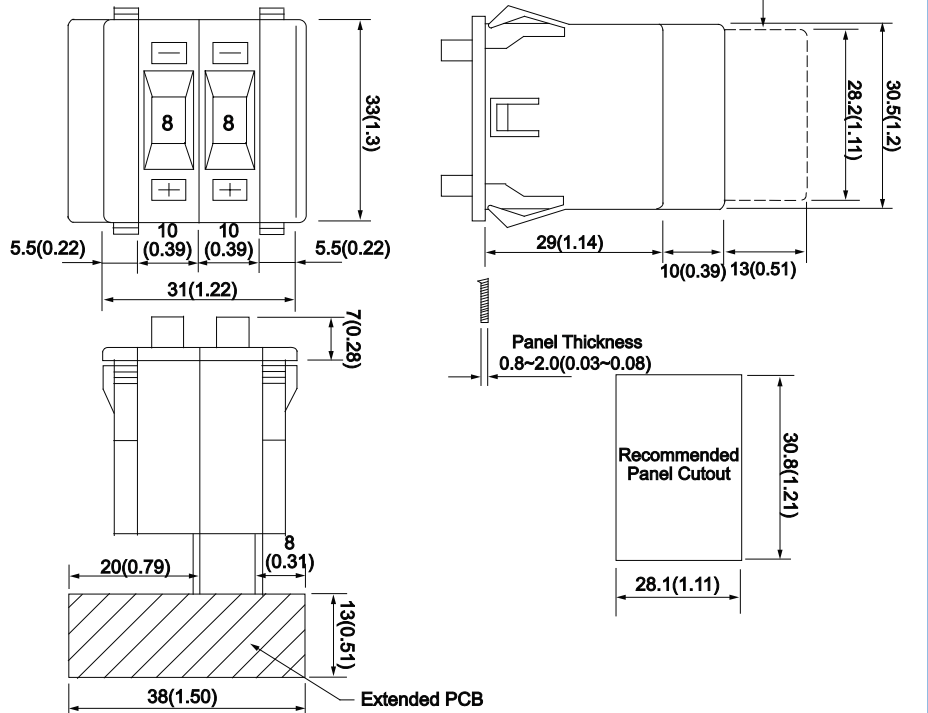
Proportional Valve Solenoid



※PC-BOARD DIMENSIONS



※DA2 DIMENSIONS

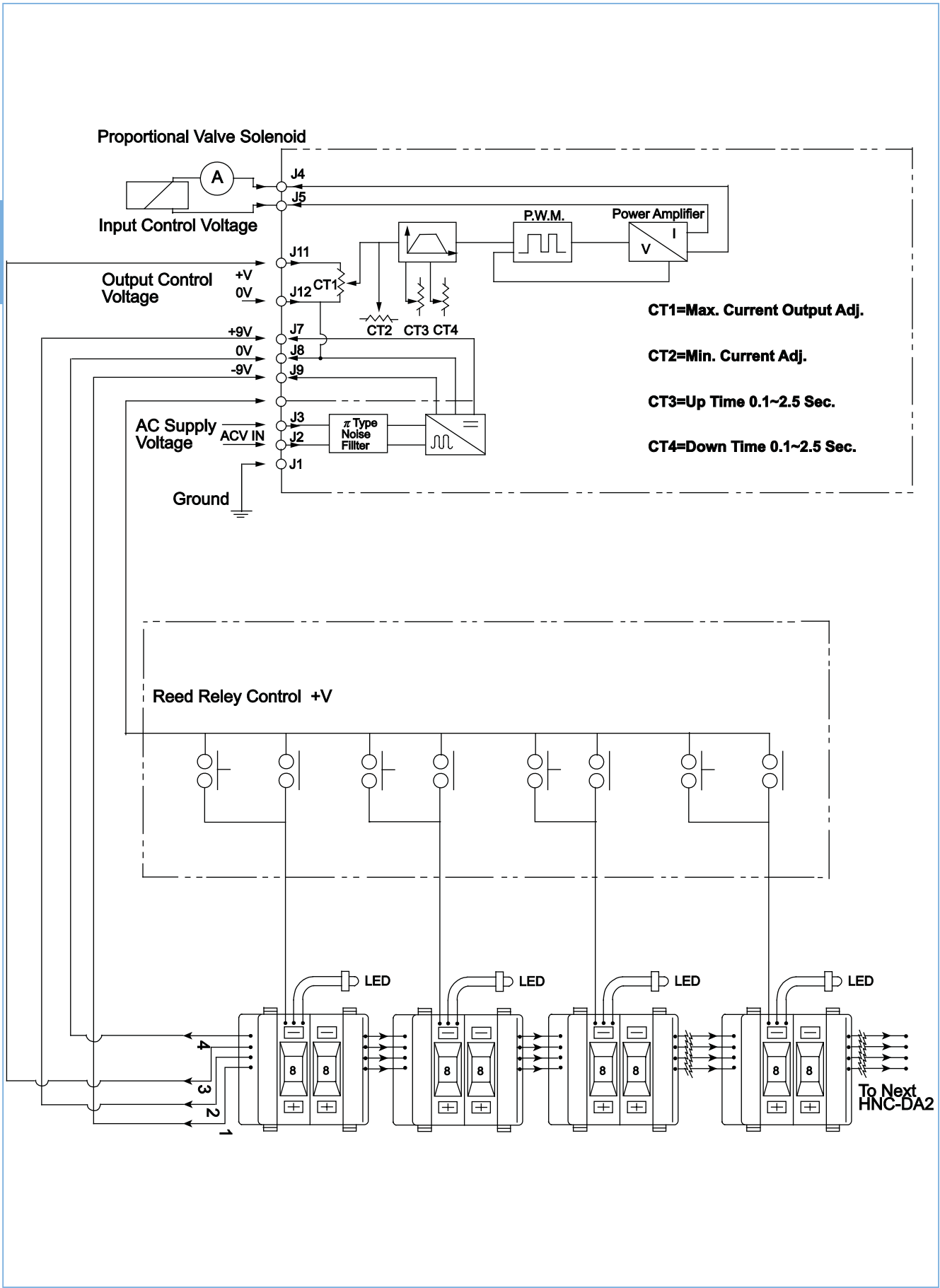




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PROPORTIONAL CONTROLS ELECTRONIC AMPLIFIER TERMINAL CONNECTIONS

E





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PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

[HPQ-P-02]

※SPECIFICATION

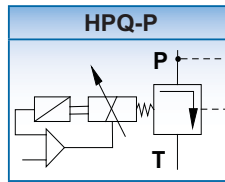
MAX. OPER. PRES.	MPa(PSI)	31.5(4568)	
MAX. FLOW	ℓ/min(U.S. GPM)	1(0.26)	
PRES. ADJ. RANGE	MPa(PSI)	A	0.15~3(22~435)
		B	0.3~8(43.5~1160)
		C	0.4~18(58~2610)
		H	0.5~25(3625)
MAX. "T" PORT PRES.	MPa(PSI)	≤ 2(29)	
RATED CURRENT	A Max.	3.7	
POWER CONSUMPTION	VA Max.	60	
COIL RESISTANCE at 20°C	Ω	2.5	
HYSTERESIS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



WITH L.V.D.T.

ELECTRONIC AMPLIFIER
PV-2537N

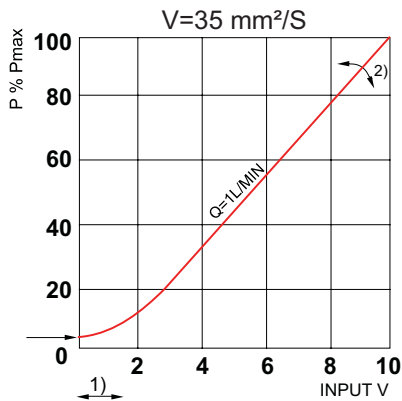
※GRAPHIC SYMBOL



※HYDRAULIC FLUID

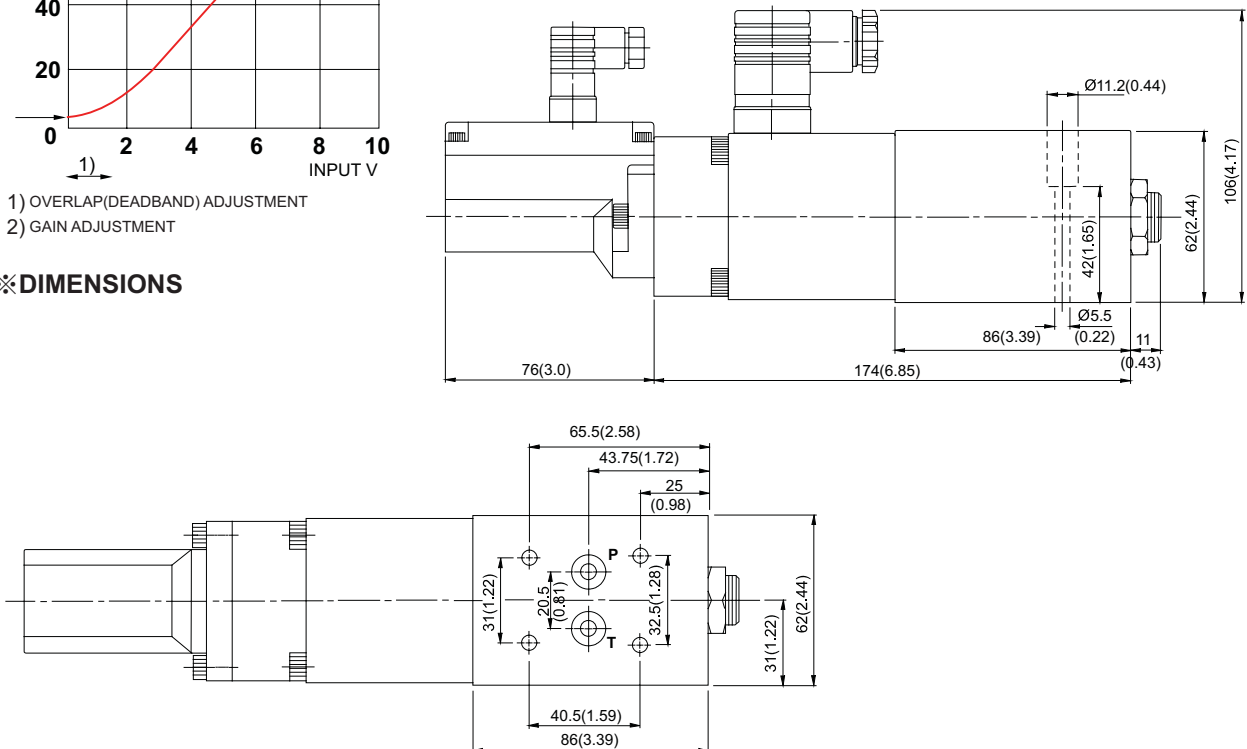
HYDRAULIC FLUID STANDARD	DIN 51, 524, ...535	
RECOMMENDED VALUE OF FLUID VISCOSITY	20~100 mm ² /S	
TEMPERATURE	-20~80°C	
FLUID CLEANLINESS	NAS 1638	8, 9, 10
	βx=75	x=10, 20, 25

※PERFORMANCE CURVE



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

※DIMENSIONS



UNIT: M.M.(INCHES)



SOLTECH

PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

[HPQ-Q-03]

※ SPECIFICATION

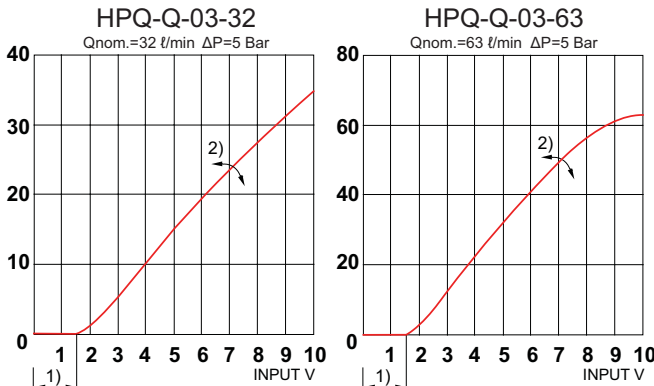
MAX. OPER. PRES.	MPa(PSI)	31.5(4568)	
MAX. FLOW	ℓ/min(U.S. GPM)	HPQ-Q-03-32	32(8.45)
		HPQ-Q-03-63	63(16.64)
ΔP = 5 Bar, Qnom.:ℓ/min			
MAX. "T"/"L" PORT PRES.	MPa(PSI)	25(3625)≤0.2(29)	
RATED CURRENT	A Max.	3.7	
POWER CONSUMPTION	VA Max.	60	
COIL RESISTANCE at 20°C	Ω	2.5	
HYSTERESIS	%	< 0.3	
REPEATABILITY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

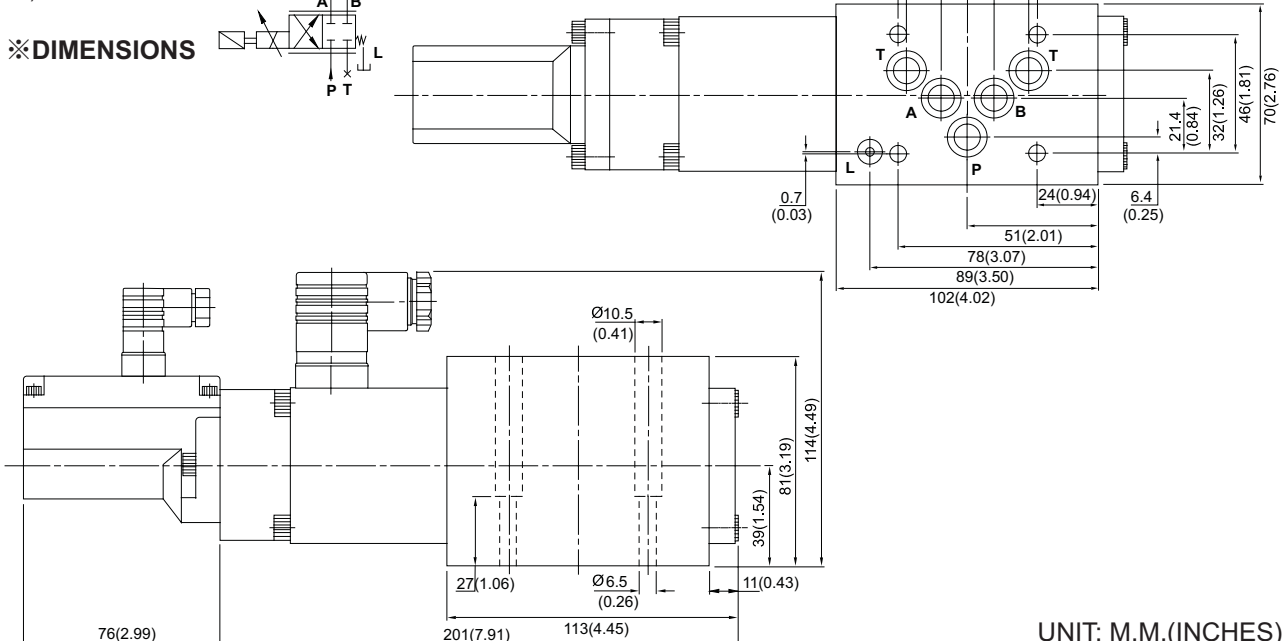
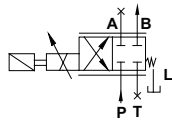
※ PERFORMANCE CURVE

V=35 mm²/S



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

※ DIMENSIONS

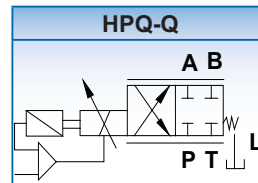


UNIT: M.M.(INCHES)



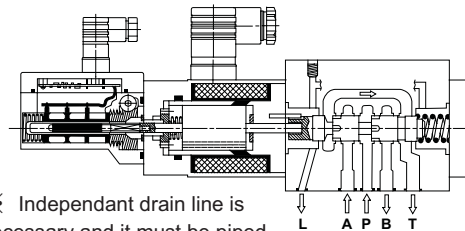
WITH L.V.D.T.

※ GRAPHIC SYMBOL



ELECTRONIC AMPLIFIER

QF-2537N



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



SOLTECH

PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

※ CARE IN APPLICATION

▶ Valve Capacity

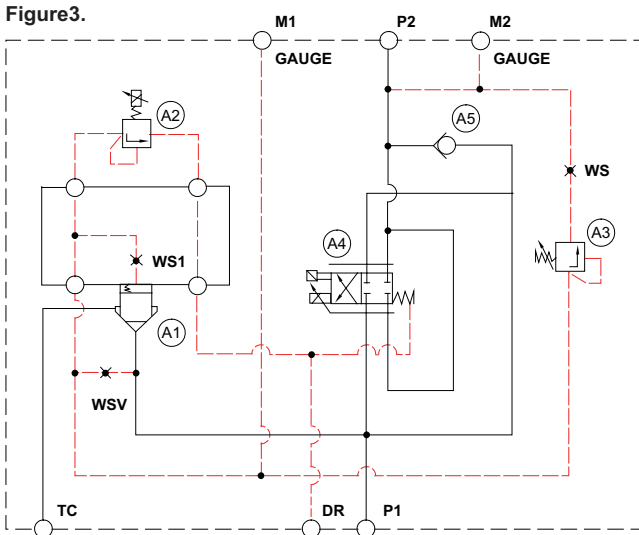
Don't exceed valve capacity as Figure1&2.

▶ Flow Rates Formula

$$Q_x = Q_D \sqrt{\frac{\Delta p_x}{\Delta p_D}} \quad \text{WHERE} \quad \begin{array}{l} Q_D = \text{Datum Flow Rate} \\ \Delta p_D = \text{Pressure Drop at Datum Flow Rate} \\ \Delta p_x = \text{Required } \Delta p \end{array}$$

▶ Application Example

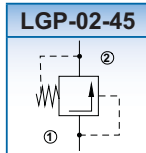
In order to stable the value of Δp , advising to use (A3) valve show as Figure3.
For more information, please refer to "LGP-02-45"



【LGP-02-45】



※ GRAPHIC SYMBOL



※ PERFORMANCE CURVE

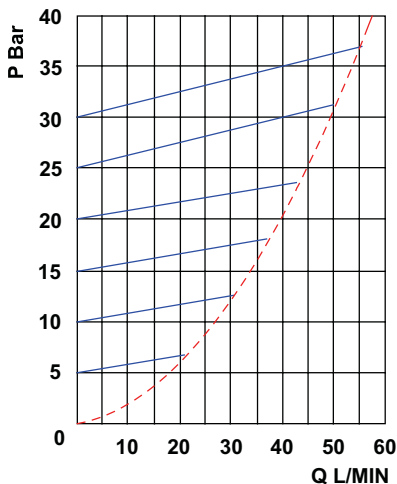


Figure1.

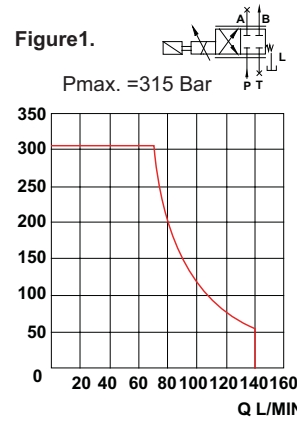
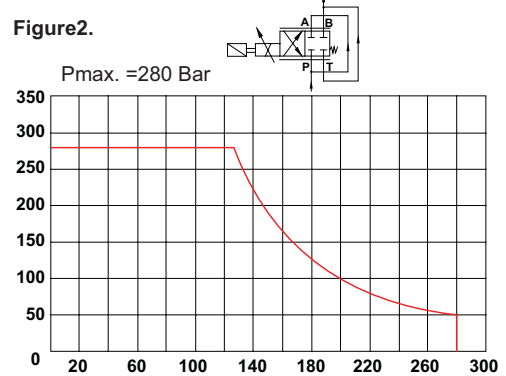
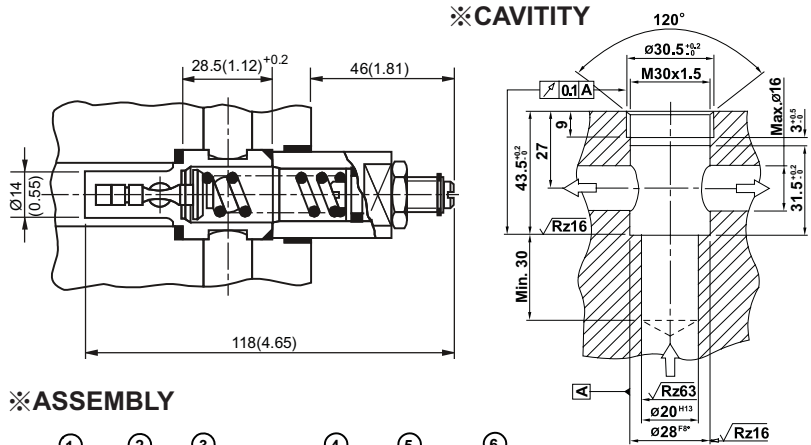


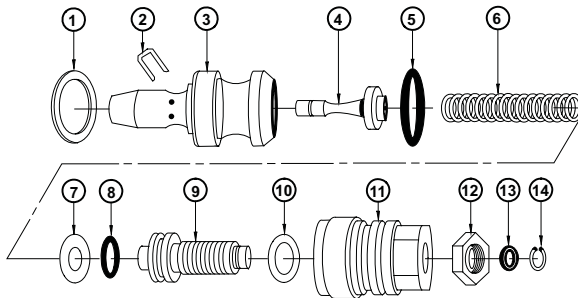
Figure2.



※ CAVITY



※ ASSEMBLY



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		

[HPQ-Q-LG]

※SPECIFICATION

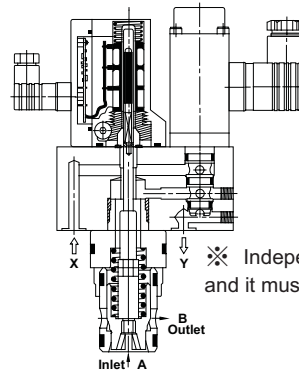
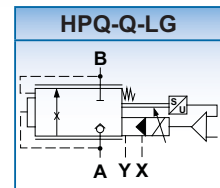
SPECIFICATION \ MODEL: HPQ-Q-LG-	25	32	40	50	
MAX. OPER. PRE.	MPa(PaSI) 35(5075)				
MAX. FLOW(Q _{nom.})	ℓ/min(U.S. GPM) 210(55.5)	320(84.5)	500(132.1)	980(258.9)	
PILOT PRESSURE	Bar(PaSI) A→B, >12 Bar B→A, >20 Bar				
MAX. "Y" PORT PRES.	MPa(PaSI) 10(1450)				
RATED CURRENT	A Max. 2.7				
POWER CONSUMPTION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



WITH L.V.D.T.

ELECTRONIC AMPLIFIER
QF-2326 LG

※GRAPHIC SYMBOL

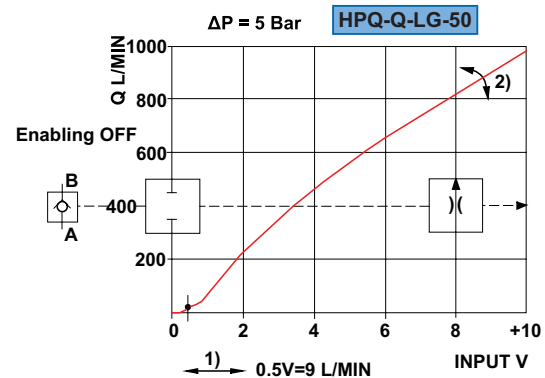
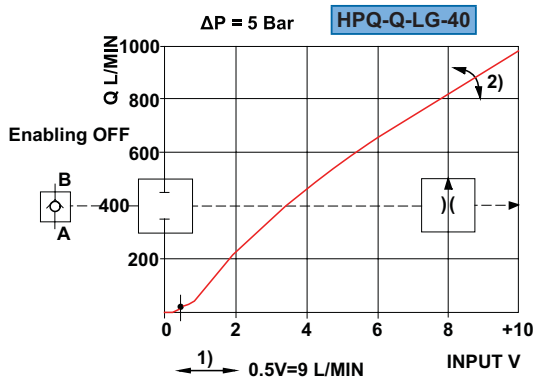
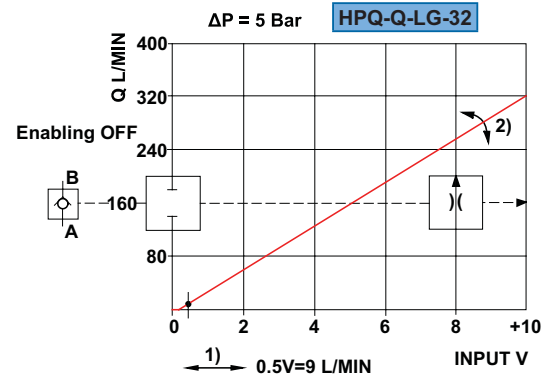
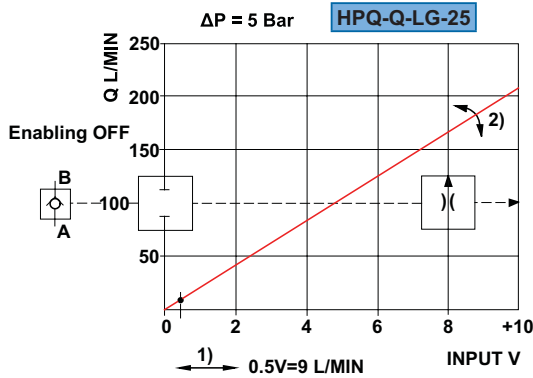


※ Independant drain line is necessary and it must be piped under oil level.

※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
	βx=75	x=10, 20, 25

※PERFORMANCE CURVE



1) OVERLAP(DEADBAND) ADJUSTMENT
2) GAIN ADJUSTMENT

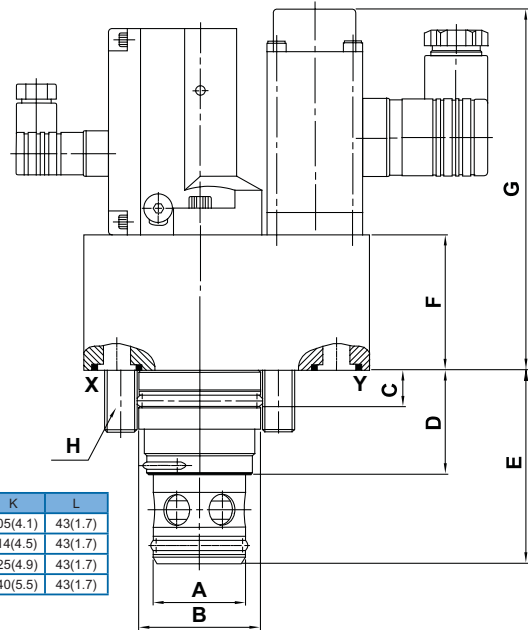
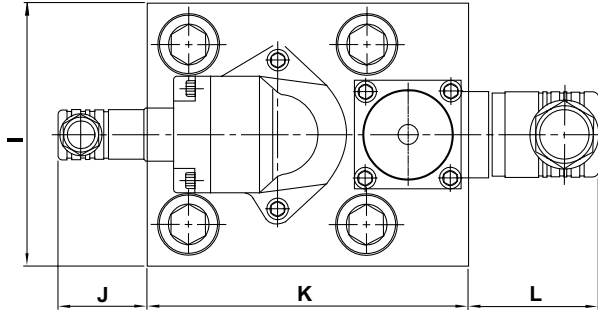


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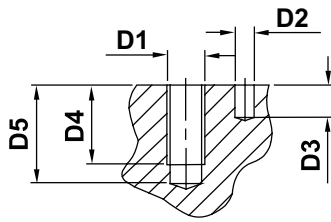
PROPORTIONAL CONTROLS

HIGH RESPONSE TYPE PROPORTIONAL CONTROL VALVE

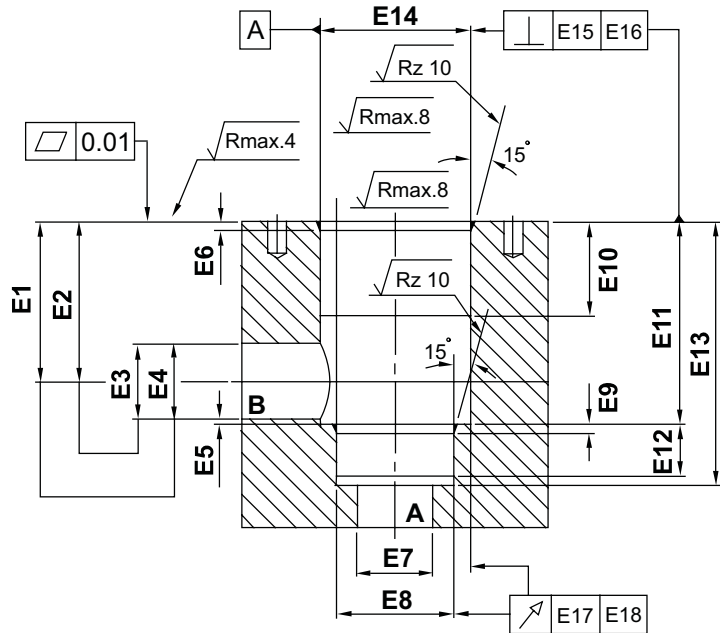
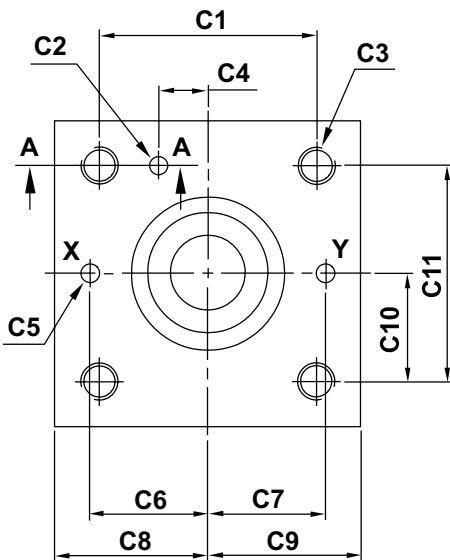
※DIMENSIONS



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)





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PROPORTIONAL CONTROLS

ELECTRONIC AMPLIFIER

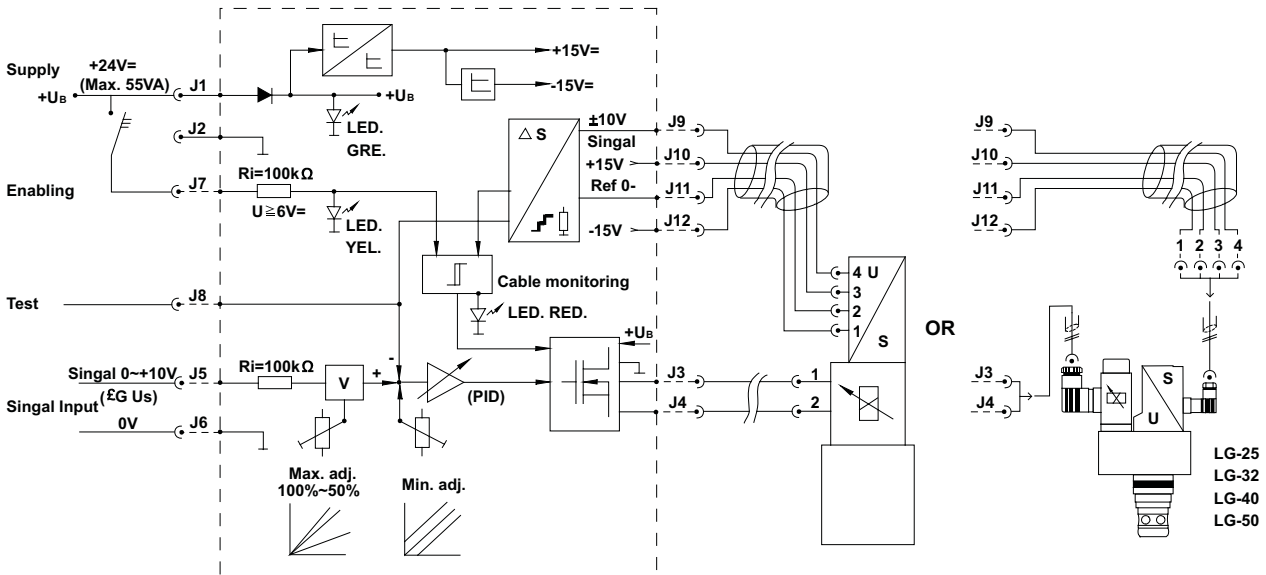
[PV-2537N, QF-2537N, QF-2326 LG]

※SPECIFICATION

DESCRIPTION	MODEL	PV/QF-2537N	QF-2326 LG
Power Supply J1-J2		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 J3-J4		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		J1-J7 Open	J1-J7 Open
L.V.D.T. Value Feedback J8		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

