特點：
1. 簡化油壓系統管路，突破傳統式一體壓力一個遙控的複雜管路。
2. 比例式線圈可依輸入電流的大小產生無段式壓力，更發揮電液合一的最佳功能。
3. 應答性佳，壓力變化瞬間感應極小，減小管路共振。
4. 本公司生產標準電子控制器HNC-1085提供客戶參考使用。

Characters:
1. Simplify Hydraulic piping system, and improve traditional complicated piping of one pressure with one remote control valve.
2. Proportional coil produces stepless type of pressure upon input current to display the best function unifying Hydraulic and electronic.
3. Good response function, min. momentary exciting pressure of pressure change to reduce piping resonance.
4. DAIWER standard electronic controller HNC-1085 is recommended for customers' reference.

規格 Specification:

<table>
<thead>
<tr>
<th>說 明 Description</th>
<th>型 號 Mode</th>
<th>No. EDG - 01</th>
<th>210</th>
</tr>
</thead>
<tbody>
<tr>
<td>最高使用壓力 Max. Operating pressure</td>
<td>kgf/cm²</td>
<td>C 8-140</td>
<td></td>
</tr>
<tr>
<td>最大通過流量 Max. Flow</td>
<td>l/min</td>
<td>H 10-210</td>
<td></td>
</tr>
<tr>
<td>壓力調整範圍 Pressure Adjusting Range</td>
<td>kgf/cm²</td>
<td>H 10-210</td>
<td></td>
</tr>
<tr>
<td>溝壓背壓 Allowable Back-Pressure</td>
<td>kgf/cm²</td>
<td>H 10-210</td>
<td></td>
</tr>
<tr>
<td>定額電流 Rated Current</td>
<td>mA</td>
<td>C 700</td>
<td></td>
</tr>
<tr>
<td>電流阻抗 Coil Resistance</td>
<td>Ω</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>電磁誘磁 Magnetic Hysteresis</td>
<td>%</td>
<td>&lt; 3</td>
<td></td>
</tr>
<tr>
<td>再現性 Repeatability</td>
<td>%</td>
<td>&lt; 0.5</td>
<td></td>
</tr>
<tr>
<td>重量 Weight</td>
<td>kg</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

型號說明 Mode Description:

<table>
<thead>
<tr>
<th>EDG -</th>
<th>01-</th>
<th>C -</th>
<th>※</th>
</tr>
</thead>
<tbody>
<tr>
<td>油壓電磁比例式電液控制電鑽引導管道電磁比例式電液控制電鉬</td>
<td>C: 140 kgf/cm²</td>
<td>H: 210 kgf/cm²</td>
<td>製造日期 Date of Manufacture</td>
</tr>
</tbody>
</table>

塗：
(1) 回油管盡量減少阻力，單獨使用一條管路直接插入油箱油面以下。
(2) 以上表列是配合本司生產HNC-1085標準電子控制器及2 l/min油泵，單閥門測試結果。
(3) EDG-01-B 壓力專用型。

Note:
(1) The resistance in the return pipe should be reduced by using one piping separately and insert directly inside the oil tank.
(2) The left chart is comply with our standard electronic controller HNC-1085 and 2 l/min oil pump, single valve test result.
(3) EDG-01-B for back pressure control.
使用上注意事項:

■安裝位置
正確的閥門安裝位置是必需放氣孔朝上以便試車時排出油路中的空氣，若配合另外主閥一同使用時，引導管路請不要超過30公分，以達壓力更穩定。

■空氣排除
將露後蓋上的放氣孔螺絲打開（請將系統壓力調在30kgf/cm²）讓空氣排出，當閥內充滿油而不見再有氣泡後，將螺絲再鎖緊。

■手動調整螺絲
當電氣控制發生故障時，而臨時需要壓力供應，此刻可將手動調整螺絲順時針旋入即可，平時則復歸原位。

■回油管路
回油管應盡量低，油管末端直接插入油槽油面以下。

Care in Application:

■ Place for installation
Correct valve installation place is to put the bleeder upward in order to eliminate the presence of air in the oil pressage when it have a trial running. If use together with another main valve, the guide piping cannot exceed 30 cm to make the pressure be more steady.

■ Elimination of Air (Air Vent)
Turn the bleeder on the upward position, then open the screw (adjust system pressure to 30kgf/cm²) 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 occasionally, 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.

■外部尺寸圖 External Size Drawing

EDG-01

[Diagram showing the dimensions and components of the valve, including parts such as Air Vent, Manual Pressure Adj Screw, Electronic Connector, etc.]

[Dimensions and measurements are provided in the diagram to give an understanding of the valve's size and layout.]
■入力電流－圧力特性  Input Current vs. Pressure

**EDG - 01(C)**

![Graph](image1)

テスト条件:
油泵 3 l/min, 油温 45°C, 液壓油粘度 45CST, 専用電子控制器 HNC-1085, 單一閥門油路系統測試。

**EDG - 01(H)**

![Graph](image2)

Test Condition:
Oil pump 3 l/min, Oil Temperature 45°C, Hydraulic pressure oil viscosity 45CST, HNC Exclusively electric controller HNC-1085, Single-valve oil passage system test.

■底板圖 Sub - Plates (m/m)

**EDG-01**

![Diagram](image3)
EBG-03
EBG-06
EBG-10

Proportional Electro-Hydraulic Valves

Proportional Electro-Hydraulic Relief Valves

特點:
1. EBG閥壓力穩定，低噪音。
2. 適合一般傳統式及微電腦式電氣控制，可達液電合一最佳功能。
3. 精度高，週調容易，壓力變換瞬間差壓小。
4. 本公司生產標準電子控制器HNC-1085，提供客戶參考使用。

Characters:
1. EBG valve pressure is steady with low noise.
2. Good for general traditional and micro-computer electric control to reach the best function of unifying hydraulic electronic.
3. Hi-precision, easy micro-adjusting, small pressure shift momentary existing pressure.

規格 Specification:

<table>
<thead>
<tr>
<th>說明</th>
<th>Description</th>
<th>型號</th>
<th>Mode No.</th>
<th>EBG-03</th>
<th>EBG-06</th>
<th>EBG-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>最高使用壓力</td>
<td>Max. Operating pressure</td>
<td>kgf/cm²</td>
<td>210</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>最大通過流量</td>
<td>Max. Flow</td>
<td>l/min</td>
<td>100 200 400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>壓力調整範圍</td>
<td>Pressure Adjusting Range</td>
<td>kgf/cm²</td>
<td>C 8-140 H 10-210</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>容許負壓</td>
<td>Allowable Back-Pressure</td>
<td>kgf/cm²</td>
<td>註：(1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>定額電流</td>
<td>Rated Current</td>
<td>mA</td>
<td>C 750 H 700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>線圈阻抗</td>
<td>Coil Resistance</td>
<td>Ω</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>磁滯</td>
<td>Magnetic Hysteresis</td>
<td>%</td>
<td>&lt; 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>再現性</td>
<td>Repeatability</td>
<td>%</td>
<td>&lt; 0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>重量</td>
<td>Weight</td>
<td>kg</td>
<td>7.1 8.3 10.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

註:
(1) 回油管盡量減少阻力，單獨使用一條管路直接插入油箱油面以下。
(2) 以上表列是配合本公司生產HNC-1085標準電子控制器，單一閥門測試結果。

Note:
(1) The resistance in the return pipe should be reduced by using one piping separately and insert directly inside the oil tank.
(2) The left chart is comply with our standard electronic controller HNC-1085, single valve test result.
使用上注意事項：

■ 安裝位置
放氣孔必須朝上（如圖A所示），若遇到閥門必須垂直
安裝時，請與本公司洽合。

■ 空氣排放
為使壓力穩定，管路中及閥門內的空氣必須完全排放，
使用朝上的放氣孔，將放氣孔螺絲打開使空氣排出，
直到沒有氣泡後再將螺絲鎖緊。

■ 手動調整螺絲
當電氣控制發生故障時，而隨時需要壓力供應時，此刻
可將手動調整螺絲順時針旋入即可；平時則復歸原位。

■ 回油管路
緊緊直接將回油管插入油箱的出油面以下避免管路曲折或
有漏油現象。

■ 最高安全壓力設定
依實際油泵出流量及實際使用壓力而決定，通常在油泵
100 l/min 以下時，適用 15kgf/cm² 即可。

Care in Application:

■ Place of 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 Pressure Screw
When electric control is disorder and need to supply
pressure occasionally, then just to turn the hand-
adjusting pressure screw in clockwise direction.
Restore it 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 disporson and
actual use pressure, just fine when oil pump is less
than 100 l/min, super add 15kgf/cm² is recommended.

型號說明 Mode Description:

<table>
<thead>
<tr>
<th>EBG -</th>
<th>06-</th>
<th>C -</th>
<th>※</th>
</tr>
</thead>
<tbody>
<tr>
<td>oil pressure electric magnetic proportional guide adjusting valve</td>
<td>閥門口徑 03. 06. 10 valve caliber</td>
<td>C: 140 kgf / cm² H: 210 kgf / cm²</td>
<td>製造日期 Date of Manufacture</td>
</tr>
</tbody>
</table>
■ 底板圖 Sub-Plates (m/m)

EBG-03  
EBG-06  
EBG-10

■ 底板尺寸 Sub-Plates Size (m/m)

<table>
<thead>
<tr>
<th>符號</th>
<th>Symbol</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>N</th>
<th>P</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGM-03</td>
<td></td>
<td>86</td>
<td>60</td>
<td>13</td>
<td>53.8</td>
<td>3</td>
<td>26.9</td>
<td>149</td>
<td>13</td>
<td>123</td>
<td>86</td>
<td>32</td>
<td>26</td>
<td>21</td>
<td>97</td>
</tr>
<tr>
<td>BGM-06</td>
<td></td>
<td>108</td>
<td>78</td>
<td>15</td>
<td>70</td>
<td>4</td>
<td>35</td>
<td>180</td>
<td>15</td>
<td>150</td>
<td>106.5</td>
<td>51</td>
<td>27.2</td>
<td>13</td>
<td>121</td>
</tr>
<tr>
<td>BGM-10</td>
<td></td>
<td>126</td>
<td>94</td>
<td>16</td>
<td>82.6</td>
<td>5.7</td>
<td>41.3</td>
<td>227</td>
<td>16</td>
<td>195</td>
<td>138.2</td>
<td>62</td>
<td>30.2</td>
<td>17</td>
<td>154</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>符號</th>
<th>Symbol</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>a</th>
<th>b</th>
<th>d</th>
<th>e</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGM-03</td>
<td></td>
<td>19</td>
<td>47.4</td>
<td>0</td>
<td>22</td>
<td>22</td>
<td>32</td>
<td>20</td>
<td>14.5</td>
<td>11</td>
<td>17.5</td>
<td>M12螺絲 深20</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Screw Depth 20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BGM-06</td>
<td></td>
<td>37</td>
<td>55.5</td>
<td>23.8</td>
<td>33.4</td>
<td>11</td>
<td>40</td>
<td>25</td>
<td>23</td>
<td>13.5</td>
<td>21</td>
<td>M16螺絲 深25</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Screw Depth 25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BGM-10</td>
<td></td>
<td>42</td>
<td>76.2</td>
<td>31.8</td>
<td>44.5</td>
<td>12.7</td>
<td>50</td>
<td>32</td>
<td>28</td>
<td>17.5</td>
<td>26</td>
<td>M20螺絲 深28</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Screw Depth 28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### External Size Drawing (A) (m/m)

#### EBG-03
#### EBG-06
#### EBG-10

<table>
<thead>
<tr>
<th>Symbol</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>N</th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGM-03</td>
<td>53.8</td>
<td>53.8</td>
<td>76</td>
<td>11</td>
<td>27</td>
<td>115</td>
<td>206</td>
<td>27</td>
<td>26</td>
<td>106</td>
<td>21.5</td>
<td>219</td>
<td>105</td>
<td>152</td>
<td>13</td>
</tr>
<tr>
<td>BGM-06</td>
<td>66.7</td>
<td>70</td>
<td>98</td>
<td>14</td>
<td>35</td>
<td>117</td>
<td>210</td>
<td>33</td>
<td>36</td>
<td>124</td>
<td>26</td>
<td>220</td>
<td>105</td>
<td>153</td>
<td>13</td>
</tr>
<tr>
<td>BGM-10</td>
<td>89</td>
<td>82.6</td>
<td>120</td>
<td>187</td>
<td>41.3</td>
<td>122</td>
<td>225</td>
<td>45</td>
<td>45</td>
<td>155</td>
<td>34</td>
<td>246</td>
<td>132</td>
<td>178</td>
<td>18</td>
</tr>
</tbody>
</table>
■ 入力電流－圧力特性  Input Current vs. Pressure

测试条件:
油泵 60L/min(03), 120L/min(06), 250L/min(10),
温度 45°C, 液压粘度 45CST, 專用電子控制器 HNC-1085，單一閥門油路系統測試。

Test Condition:
Oil pump 60L/min(03), 120L/min(06), 250L/min(10),
Oil Temperature 45°C, Hydraulic pressure oil viscosity 45CST, DAIWER Exclusive electric controller HNC-1085,
Single-valve oil passage system test.
## Specification:

<table>
<thead>
<tr>
<th>Description</th>
<th>EFBG - 03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest Operating Pressure</td>
<td>210 kgf/cm²</td>
</tr>
<tr>
<td>Max. Flow</td>
<td>125 l/min</td>
</tr>
<tr>
<td>Flow Adjusting Range</td>
<td>1–125 l/min</td>
</tr>
<tr>
<td>Valve Internal Resistance</td>
<td>5 kgf/cm²</td>
</tr>
<tr>
<td>Rated Current</td>
<td>750 mA</td>
</tr>
<tr>
<td>Coil Resistance</td>
<td>40 Ω</td>
</tr>
<tr>
<td>Magnetic Hysteresis</td>
<td>&lt; 7 %</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>Pressure Adjusting Range</td>
<td>C: 8–140 kgf/cm²</td>
</tr>
<tr>
<td>Allowable Back Pressure</td>
<td>H: 10–210 kgf/cm²</td>
</tr>
<tr>
<td>Rated Current</td>
<td>C: 750 mA</td>
</tr>
<tr>
<td>Rated Current</td>
<td>H: 700 mA</td>
</tr>
<tr>
<td>Magnetic Hysteresis</td>
<td>&lt; 3 %</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>Weight</td>
<td>18 kg</td>
</tr>
</tbody>
</table>

## Mode Description:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>EFBG Oil Pressure Electric Magnetic Proportional Compound Valve</td>
</tr>
<tr>
<td>125</td>
<td>Valve caliber, Max. Flow passed, H: 210 kgf/cm²</td>
</tr>
<tr>
<td>C</td>
<td>Design No</td>
</tr>
</tbody>
</table>

### Note:

1. The resistance in the return pipe should be reduced by using one piping separately and insert directly inside the oil tank.
2. The left chart is comply with our standard electronic controller HNC-4075, HNC-1085, standard electronic controller 125 l/min, single valve test result.

### Note:

(1) 回油管盡量減少阻力，單獨使用一條管路直接插入油箱油面以下。
(2) 以上表列是配合本公司生產HNC-4075, HNC-1085，標準電子控制器及125 l/min油泵，單一閥門測試結果。
使用上注意事項:

■ 安裝位置
放氣孔位置可自由調整，請將其固定於上，以方便排除管路及閥門內的空氣。

■ 回油管路
回油管路盡可能避免受阻流現象，盡可能減少背壓。

■ 手動調壓（壓力，流量）螺絲
當電氣故障時，臨時應變使用，平常則復歸原位。

■ 空氣排除
為達壓力穩定，速度切換靈敏，將管路及閥門內的空氣完全排出是相當重要的（參照 EDG-01）。

■ 最高安全壓力設定
請參照 EDG-06

Cautional 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 occasionality, then just to turn the hand-adjusting pressure screw[bar]in clockwise direction. Restore it 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.(refer to EDG-1).

■ Highest Safety Pressure Set
Refer to EDG-06

■ 底板圖 Sub - Plates (m/m)

![Diagram of Sub-Plates](attachment:image.png)

EFBG-03-125

- 4-M10xP1.5x18L
- 4-ф11
- ф17.5x11L
- ф11 PT 1/4
- ф6
- ф22.2
- ф33.8
- ф12.5
- ф146
- ф168
- ф28
- ф40

- 2-ф7x7L
- ф3ф1 1/4"
Proportional Electro-Hydraulic Valves

■入力電流－流量特性
Input Current vs. Flow

■入力電流－壓力特性
Input Current vs. Pressure

EFBG-03-125

EFBG-03 (C)

■外部尺寸圖 External Size Drawing [m/m]

EFBG-03-125

定滑輪X2
2 pieces
For Eye Bolts

流量放氣孔
Flow Air Vent

壓力放氣孔
Pressure Air Vent

出油孔 "A"
Outlet Port "A"

進油孔 "P"
Input Port "P"

固定螺絲孔 M17 x 1 06 x 8
4 piece 260Da Spotface
17 30Da Thru

安全閥壓力調整螺樞
Screw For Safety Valve Pressure Adjustment

手動流量調整螺樞
Manual Flow Adj Screw

手動壓力調整螺樞
Manual Pressure Adj Screw

101.5
101.5
177
168
192
213
183
213

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>型號 Mode</th>
<th>No.</th>
<th>EFBG - 06</th>
</tr>
</thead>
<tbody>
<tr>
<td>最大使用壓力 Max Operating pressure</td>
<td>kgf/cm²</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>最大通流量 Max Flow</td>
<td>l/min</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>流量調節範圍 Flow Adjusting Range</td>
<td>l/min</td>
<td>2~250</td>
<td></td>
</tr>
<tr>
<td>介電隔離抵抗 (A→B) Valve Internal Resistance</td>
<td>kgf/cm²</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>定額電流 Rated Current</td>
<td>mA</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>磁滞性 Magnetic Hysteresis</td>
<td>%</td>
<td>&lt;7</td>
<td></td>
</tr>
<tr>
<td>規定範圍 Allowable Back Pressure</td>
<td>kgf/cm²</td>
<td>註：(1)</td>
<td></td>
</tr>
<tr>
<td>定額電流 Rated Current</td>
<td>mA</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>磁滞性 Magnetic Hysteresis</td>
<td>%</td>
<td>&lt;3</td>
<td></td>
</tr>
<tr>
<td>規定範圍 Allowable Back Pressure</td>
<td>kgf/cm²</td>
<td>註：(1)</td>
<td></td>
</tr>
<tr>
<td>重量 Weight</td>
<td>kg</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

**Mode Description**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFBG - 06</td>
<td>Oil Pressure Electric Magnetic Proportional Compound Valve</td>
</tr>
<tr>
<td>EFBG - 250</td>
<td>Oil Pressure Electric Magnetic Proportional Compound Valve</td>
</tr>
<tr>
<td>C -</td>
<td>Design No.</td>
</tr>
</tbody>
</table>

**Note**

1. 回油管盡量减少阻力，單獨使用一管管路直接插入油箱油面以下。
2. 以上表列是配合本公司生產HNC-4075, HNC-1085，標準電子控制器及250 l/min油泵，單一閥門測試結果。

**Note**

1. The resistance in the return pipe should be reduced by using one piping separately and insert directly inside the oil tank.
2. The left chart is comply with our standard electronic controller HNC-4075, HNC-1085, standard electronic controller 250l/min, single valve test result.
Cautional 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 occasionly, then just to turn the hand-adjusting pressure screw (bar) in clockwise direction. Restore it 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 (refer to EDG-01).

**Highest Safety Pressure Set**
Refer to EBG-06
Proportional Electro-Hydraulic Valves

EFBG-06-250

Input Current vs. Flow

EFBG-06 (C)

Input Current vs. Pressure

External Size Drawing (mm)

EFBG-06-250

Manual Flow Adj Screw

Manual Pressure Adj Screw

Outlet Port "A"

Vent Port "V"

Drain Port "V"
### Specification:

<table>
<thead>
<tr>
<th>Description</th>
<th>Type No.</th>
<th>EFBG-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>最高使用壓力 (kgf/cm²)</td>
<td></td>
<td>210</td>
</tr>
<tr>
<td>最大通過流量 (l/min)</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>流量範圍 (l/min)</td>
<td></td>
<td>5-500</td>
</tr>
<tr>
<td>閥門內部阻抗 (kgf/cm²)</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>定額電流 (mA)</td>
<td></td>
<td>750</td>
</tr>
<tr>
<td>線圈阻抗 (Ω)</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>磁滯 (%)</td>
<td></td>
<td>&lt; 7</td>
</tr>
<tr>
<td>再現性 (%)</td>
<td></td>
<td>&lt; 1</td>
</tr>
<tr>
<td>壓力調節範圍 (kgf/cm²)</td>
<td>C</td>
<td>8-140</td>
</tr>
<tr>
<td>允許背壓 (kgf/cm²)</td>
<td>H</td>
<td>10-210</td>
</tr>
<tr>
<td>定額電流 (mA)</td>
<td>C</td>
<td>750</td>
</tr>
<tr>
<td>線圈阻抗 (Ω)</td>
<td>H</td>
<td>10</td>
</tr>
<tr>
<td>磁滯 (%)</td>
<td></td>
<td>&lt; 3</td>
</tr>
<tr>
<td>再現性 (%)</td>
<td></td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

### Description:

<table>
<thead>
<tr>
<th>EFBG -</th>
<th>10-</th>
<th>500 -</th>
<th>C -</th>
<th>※</th>
</tr>
</thead>
<tbody>
<tr>
<td>閥門口徑</td>
<td>Valve calibe</td>
<td>最大通過流量</td>
<td>Max. Flow passed</td>
<td>C: 140 kgf / cm²</td>
</tr>
<tr>
<td>DAIFER Oil Pressure Electric Magnetic Proportional Compound Valve</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note:

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

2. The left chart is comply with our standard electronic controller HNC-4075, HNC-1085, standard electronic controller 500 l/min, single valve test result.
使用上注意事項:

■ 安装位置
放氣孔位置可自由調整，請將其方向朝上，以便排出管路及閥門內的空氣。

■ 回油管路
回油管路盡可能避免有限流現象，盡可能減少背壓。

■ 手動調壓（壓力、流量）螺絲
當電氣故障時，臨時應變使用，平時則復歸原位。

■ 空氣排除
為達壓力穩定，速度切換靈敏，將管路及閥門內的空氣完全排出是相當重要的（參照EDG-01）。

■ 最高安全壓力設定
請參照EBG-06

Cautional 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 flowned 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 to turn the hand-adjusting pressure screw (bar) in clockwise direction. Restore it 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. Refer to EDG-1.

■ Highest Safety Pressure Set
Refer to EBG-06

■ 底板圖 Sub-Plates (m/m)

EJBG-10-500
Proportional Electro-Hydraulic Valves

Input Current vs. Flow

Input Current vs. Pressure

External Size Drawing (m/m)

EFBG-10-500

EFBG-10 (C)
### Electrical technical data

<table>
<thead>
<tr>
<th>項目</th>
<th>Description</th>
<th>型號</th>
<th>Type</th>
<th>HNC-1085</th>
<th>HNC-4075</th>
</tr>
</thead>
<tbody>
<tr>
<td>電源供應</td>
<td>Supply voltage</td>
<td></td>
<td>AC</td>
<td>28V±20%</td>
<td>40V±20%</td>
</tr>
<tr>
<td>保 險 熔</td>
<td>Fuse</td>
<td></td>
<td>2A</td>
<td></td>
<td>2A</td>
</tr>
<tr>
<td>負載阻抗</td>
<td>Load coil resistance</td>
<td></td>
<td>10Ω/20°C</td>
<td></td>
<td>40Ω/20°C</td>
</tr>
<tr>
<td>輸入控制電壓</td>
<td>Input control voltage</td>
<td></td>
<td>0V~9V</td>
<td></td>
<td>0V~9V</td>
</tr>
<tr>
<td>最大電流輸出範圍</td>
<td>Max.current output range</td>
<td></td>
<td>0~850mA</td>
<td>0~750mA</td>
<td></td>
</tr>
<tr>
<td>基準電流調整範圍</td>
<td>Pilot current adj. range</td>
<td></td>
<td>0~150mA</td>
<td>0~150mA</td>
<td></td>
</tr>
<tr>
<td>上升延時</td>
<td>Up ramp time</td>
<td></td>
<td>0.1~2.5sec.</td>
<td></td>
<td>0.1~2.5sec.</td>
</tr>
<tr>
<td>下降延時</td>
<td>Down ramp time</td>
<td></td>
<td>0.1~2.5sec.</td>
<td></td>
<td>0.1~2.5sec.</td>
</tr>
<tr>
<td>溫度誤差</td>
<td>Temperature drift</td>
<td></td>
<td>0.1mA/1°C</td>
<td></td>
<td>0.2mA/1°C</td>
</tr>
<tr>
<td>工作溫度</td>
<td>Work temperature</td>
<td></td>
<td>0~50°C</td>
<td></td>
<td>0~50°C</td>
</tr>
<tr>
<td>最大消耗電力</td>
<td>Max. power requirement</td>
<td></td>
<td>15VA</td>
<td></td>
<td>40VA</td>
</tr>
</tbody>
</table>