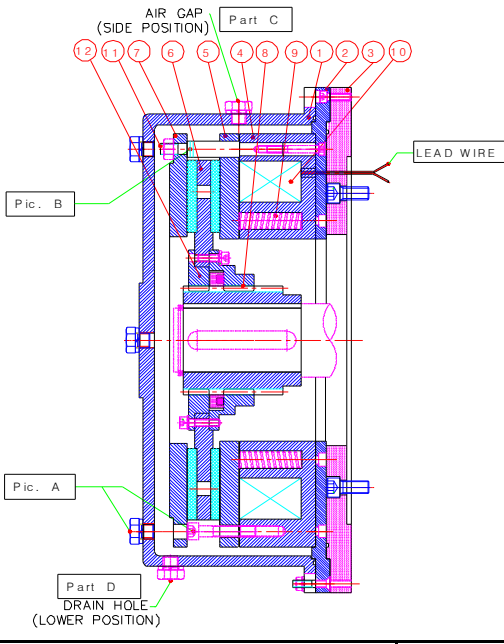
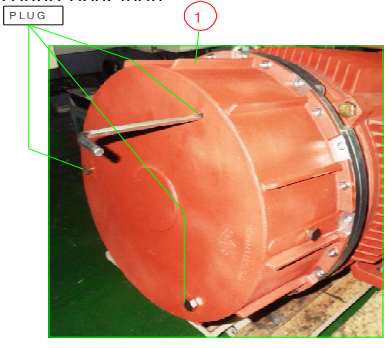
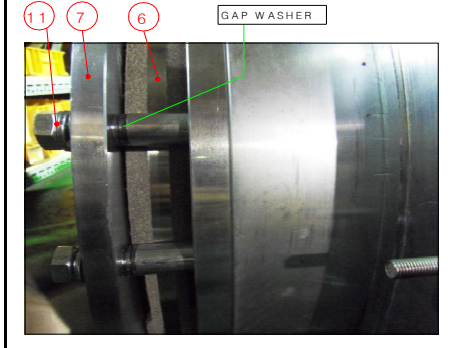


SAFETY MAGNETIC BRAKE MANUAL

Diagram	MODEL	HMBB type (DC Voltage)
 <p>12. Autogap Unit 11. Supporting Bar Screw 10. Excitation Coil 9. Brake Spring 8. Hurb Gear 7. Friction Disk 6. Internal Gear Disk Lining 5. Pressure Plate 4. Yoke 3. Bottom Board 2. Brake Backplate</p> <p>Pic. B</p> <p>Pic. A</p> <p>Part D DRAIN HOLE (LOWER POSITION)</p>	Features	<ol style="list-style-type: none"> 1. Spring Brake Type. Safety Magnetic Brake that operates during black-out. (Non-excitation type. Brake released when power is supplied/(spring) brake generated when power is cut off.) 2. Manual and Automatic Operation. For manual operation, refer to Pic A.(As stated, bolt should be released to the extreme end.) 3. When GAP gets widened from the initial GAP of 1.8~2.0mm,(about 4mm by naked eye), reassemble it by extracting one GAPwasher(1.6T or 2.3T) for each bolt as stated in Pic B. 4. GAP HOLE detectable with naked eye or flash can be found by releasing the plug located at each horizontal side of Part C. 5. By the autogap device, both 'horizontal' and 'vertical' installations are possible by forming both GAPS of disc lining by autogap device. 6. When moisture is generated from humidity and condensation inside, emit it by releasing plug of Part D. 7. Efficient for dustproof and waterproof thanks to the enclosed cover(IP56). 8. High-durability lining and long-lasting.(Adopting block-lining of press plate)
<p>Pic A : Releasing brake manually</p> <ol style="list-style-type: none"> 1. Loosen Plug 3EA and release it manually by tightening it to the extreme right direction. 2. Be advised to loosen it to the end for sound operation  <p>Pic B : Controlling GAP</p> <ol style="list-style-type: none"> 1. Disassemble Waterproof Cover(n.1) --> After disassembling Friction Disk(n.7), extract GAP washer by 1EA for each bolt and reassemble to use. 	Structures and Principle of Motion	<p>Usually, it maintains braking force by attaching Braking Spring(n.9) to Pressure Plate(n.5). When power of DC voltage is supplied through lead wire, Pressure Disk(n.5) beats Brake Spring(n.9), moves about 2.0mm(GAP) and gets attached to Yoke(n.4). Internal Gear Disk Lining(n.6) is liberated from Pressure Plate(n.5) and Friction Disk(n.7) and rotates. In reverse, when DC voltage power is cut off, braking force is generated by attaching Pressure Plate(n.5), Friction Disk(n.7) and Internal Gear Disk Lining(n.6). Especially when brake is liberated, Autogap device(n.12) enables automatic GAP formation at both sides of disc lining. Because of the lining abrasion, maintaining certain GAP consistently is possible as the brake moves automatically during operation.</p> <p>Installation and Cautions</p> <ol style="list-style-type: none"> 1. Be careful not to cause impact when assembling Hurb Gear. 2. Check the gap and operation frequently by releasing GAP HOLE(Part C). 3. Be careful so that water does not go into the brake during installation. 4. After releasing the brake manually(tightening the bolt to the right end) by using Automatic Bolt(Pic.A), braking function will vanish. For automatic use, release Manual/Automatic Bolt(Pic.A) to the left end(opposite direction) and attach the head of bolt to the rear end of Friction Disk(n.7) as much as possible so that you can extract it.