### Name and configuration

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pressure control valve</td>
<td>2</td>
<td>Oil inlet</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>3</td>
<td>Inlet</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>4</td>
<td>By-pass valve</td>
</tr>
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<td>4</td>
<td></td>
<td>5</td>
<td>Piston valve</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>6</td>
<td>By-pass outlet</td>
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<td>6</td>
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<td>High pressure outlet</td>
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<td>By-pass outlet</td>
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<td>8</td>
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<td>9</td>
<td>Pressure gauge</td>
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<td>9</td>
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<td>10</td>
<td>High pressure pump motor</td>
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</tbody>
</table>

![Maintenance: High pressure pump](picture 4-16)
High pressure pump oil checking and supplement method

1. Turn the oil gauge in counterclockwise direction and take it out upward.
2. Clean the oil gauge first and take it into oil inlet and take it out.
3. After checking the oil level, if the level is below the ‘low level’ line, then supplement the oil up to proper level (Low ~ High).
4. You have to supplement the oil up to proper level (Low ~ High) of the oil gauge, or up to 2/3 level of the checking window.

※ Caution: ① The supplement oil must be engine oil for diesel engine.
② The oil supplement must be done after stop of all works.

<Reference> The oil level must be checked once in 3 months, and you have to do supplement or exchange the oil.

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When it is required to clean the pump,

In the case of the delayed replacement of filter or continuous use of damaged filter, some small debris may flow in the pump.

① The small debris which flows into the pump may cause extreme changes of water pressure and loud noise.

② Water pressure suddenly goes down.

③ If this condition lasts for long time without any action, the piston in the pump will be damaged.

<Reference>A filter replacement or water tank cleaning on time will extends the life of the pump.</Reference>
Cleaning of high pressure pump

1. Prepare for a box wrench (22mm) like the above picture.

2. Remove all bolts of the piston valve which are numbered from 1 through 6 on the above picture.
Maintenance

Method of Cleaning

High pressure pump - 2

1. Release and remove all bolts from 1 through 6.

2. Pull out the piston valve which is below them by 'long nose' (a tool).

3. If you give a little twist to the 'A' point of the piston valve with flat(-) driver, then it will be separated easily.

   <Caution>
   Be careful not to lose and break parts during separation.

4. Clean all parts of the piston valve.

5. Put all the cleaned parts in correct location strongly.

   <Caution>
   Pay attention to the direction of each part during assembly.

※ Please refer the above picture during assembly.
The above picture is a fully assembled pump.

1. Check the arrangement of pipe once more.
2. Remove the drill chuck from the spindle.
3. Turn on the high pressure pump by clicking the “Flush” button.
4. Open the by-pass valve (‘B’) by turning it in counterclockwise direction.
   ※ Let the air go out for 30 ~ 40 seconds.
5. Close the by-pass valve (‘B’) by turning it in clockwise direction.
   ※ Do not use excessive force.
6. Check the spindle whether water flows out or not.
7. After all checking is completed, start again the machining.