

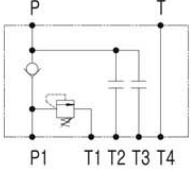
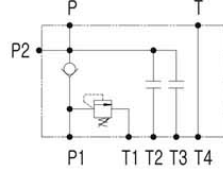
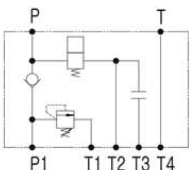
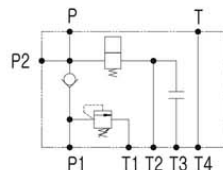
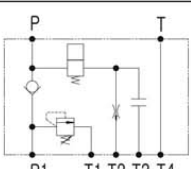
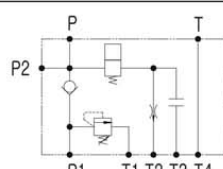
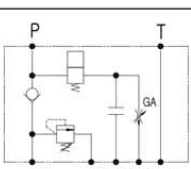
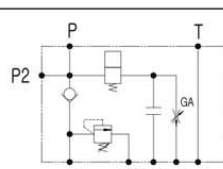
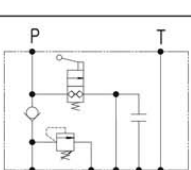
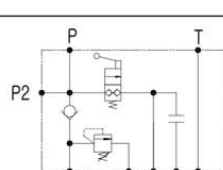
2 
A / B / C

CENTER BLOCK

CENTER BLOCK

| | | |
|----------|-------------------|---------------------------|
| A | ONE GROUP | HALF GROUP |
| | MO, XO, CO | MH, XH, CH, QH, SH |

CENTER BLOCK DIAGRAM

| | | | | | | |
|-------------------------|---|---|---|---|---|--|
| B | CODE | 1 |  | 2 |  | |
| | DIAGRAM | | | | | |
| | APPLICABLE CENTER BLOCK | MO, MH, XO, XH, CO, CH series & QH, SH | | | MO, MH, XO, XH, CO, CH series & QH, SH | |
| | CODE | 3 |  | 4 |  | |
| | DIAGRAM | | | | | |
| | APPLICABLE CENTER BLOCK | MO, MH, XO, XH, CO, CH series & QH, SH | | | MO, MH, XO, XH, CO, CH series & QH, SH | |
| | CODE | 5 |  | 6 |  | |
| | DIAGRAM | | | | | |
| | APPLICABLE CENTER BLOCK | MO, MH, XO, XH, CO, CH series & QH, SH | | | MO, MH, XO, XH, CO, CH series & QH, SH | |
| | CODE | 7 |  | 8 |  | |
| DIAGRAM | | | | | | |
| APPLICABLE CENTER BLOCK | MO, MH, XO, XH, CO, CH series & QH, SH | | | MO, MH, XO, XH, CO, CH series & QH, SH | | |
| CODE | 9 |  | 10 |  | | |
| DIAGRAM | | | | | | |
| APPLICABLE CENTER BLOCK | MO, MH, XO, XH, CO, CH series | | | MO, MH, XO, XH, CO, CH series | | |

| | | | | | |
|----------|------------------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------------|
| C | RELIEF VALVE PRESSURE RANGE | | | | |
| | Code | L | A | B | C |
| | Pressure range | 3 ~ 10 kg · f/cm ² | 10 ~ 60 kg · f/cm ² | 50 ~ 150 kg · f/cm ² | 100 ~ 250 kg · f/cm ² |



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COMPONENTES HIDRÁULICOS

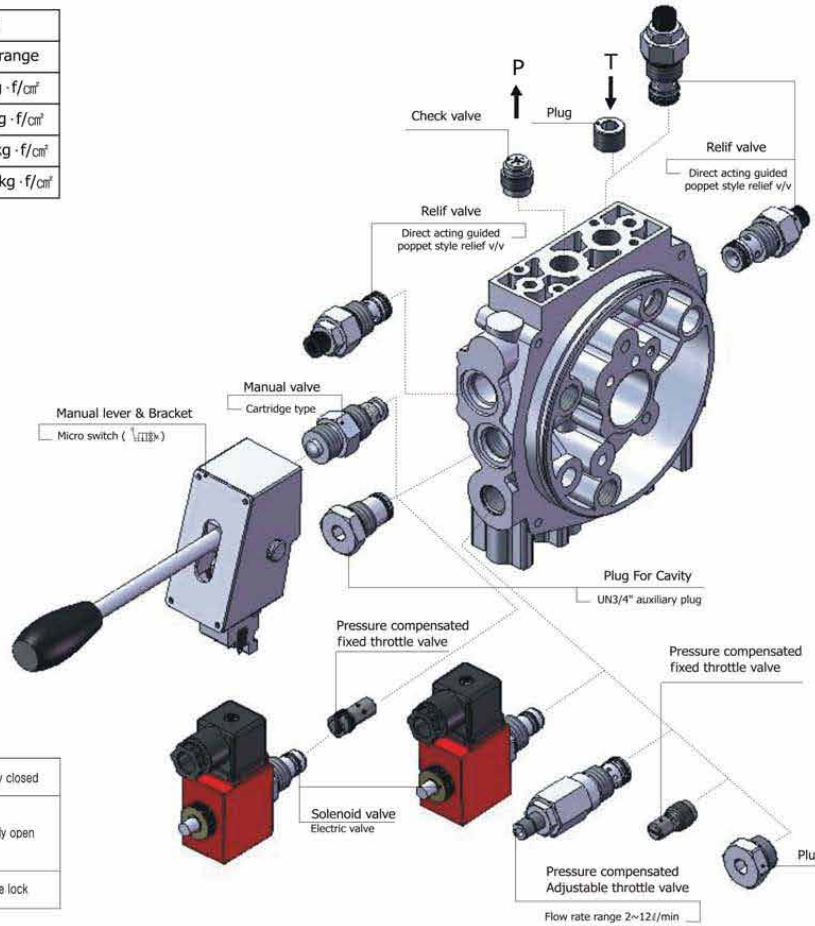
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DISTRIBUIDOR EXCLUSIVO:



M SERIES BUILT-IN VALVE

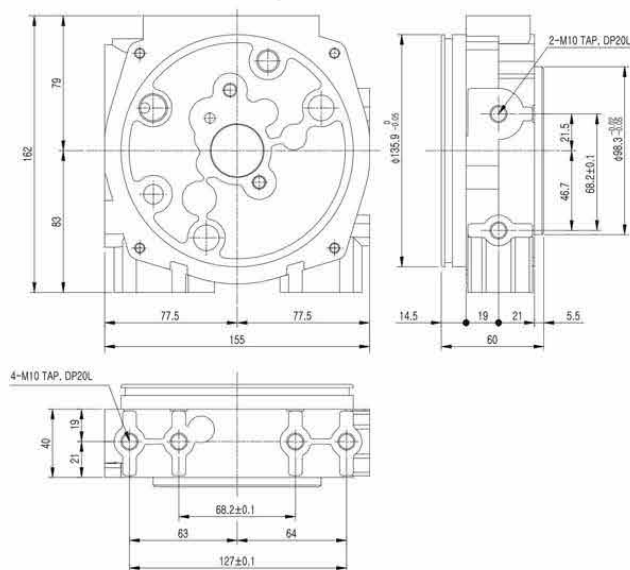
| Relief valve | |
|--------------|----------------------------------|
| Code | Pressure range |
| L | 3 ~ 10 kg · f/cm ² |
| A | 10 ~ 60 kg · f/cm ² |
| B | 50 ~ 150 kg · f/cm ² |
| C | 100 ~ 250 kg · f/cm ² |



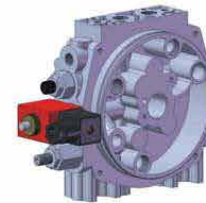
A

| | |
|--|-----------------|
| | Normally closed |
| | Normally open |
| | Double lock |

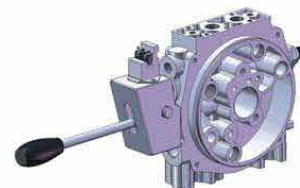
DIMENSION



MH Center block



Micro s/w lever type **MHXX**



070

CENTER BLOCK

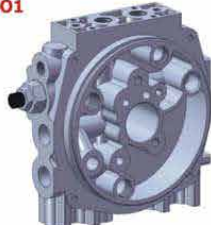
M CENTER BLOCK SPECIFICATION

| DESCRIPTION | MAIN SPECIFICATION |
|---|--|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 3/8" (Options : PT, SAE) Return port : PF 3/8" (Options : PT, SAE) Solenoid valve : Normally closed, Normally open, Double lock selectional Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 9.8 cc/rev Only "M" series oil tank applicable (refer to page 91 for M series oil tank) | <p>a : Check valve = PF 3/8" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-2 or SV09-2 Cavity) d : Orifice = UNF 3/4" (SV08-2 + orifice Or SV09-2 + orifice Cavity) e : GA = UNF 3/4" (SV09-2) f : Lever valve = UNF 3/4" (SV09-2)</p> <p>P : Primary Work Port = PF 3/8" P2 : Secondary Work Port = PT 1/4" T : Return Port = PF 3/8"</p> |

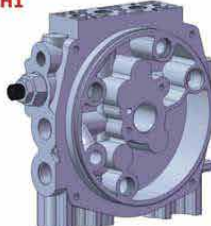
MO1 / MH1 & MO2 / MH2

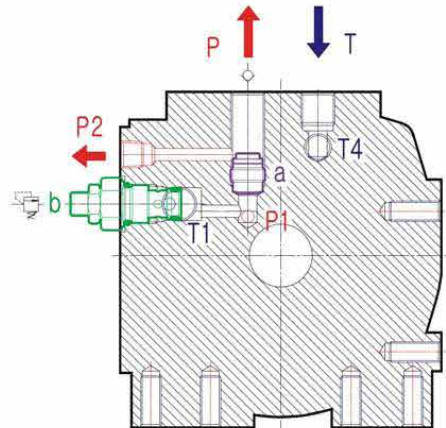
VALVE ASSEMBLY

MO1

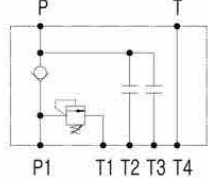


MH1

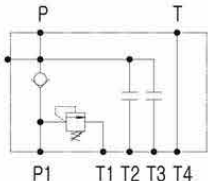




MO1 / MH1



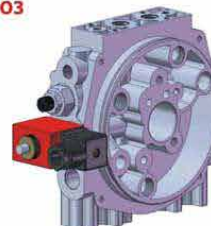
MO2 / MH2



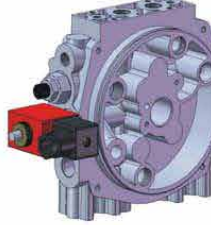
MO3 / MH3 & MO4 / MH4

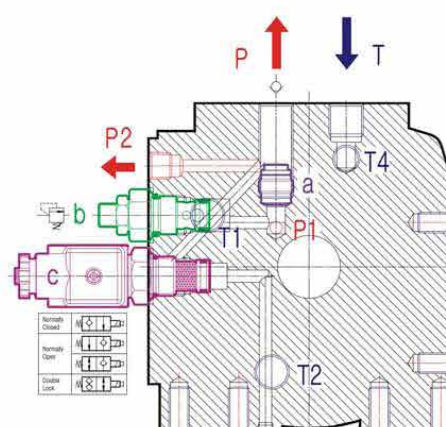
VALVE ASSEMBLY

MO3



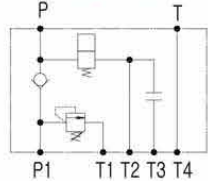
MH3



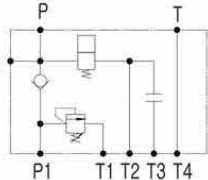


| | | |
|-----------------|--|--|
| Normally Closed | | |
| Normally Open | | |
| Double Lock | | |

MO3 / MH3



MO4 / MH4



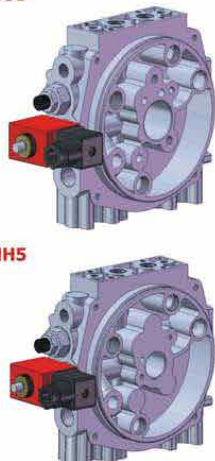
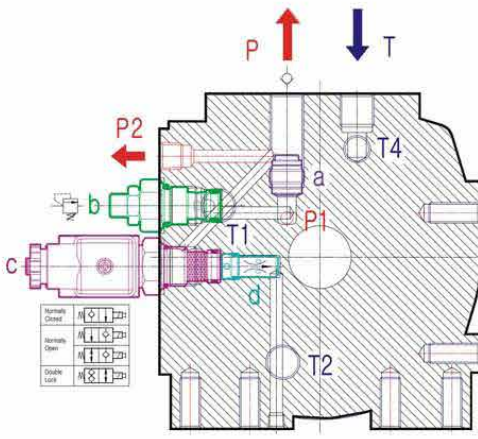
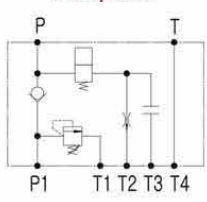
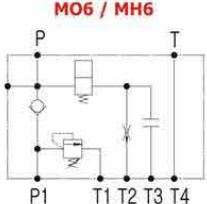

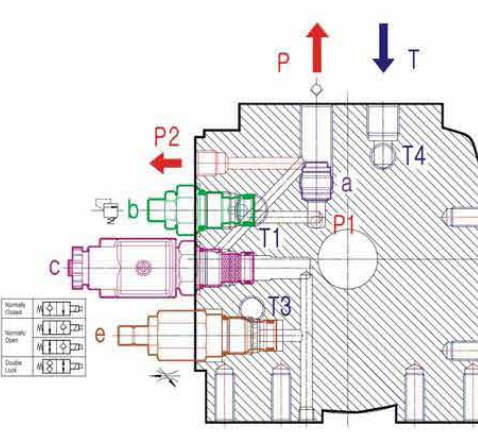
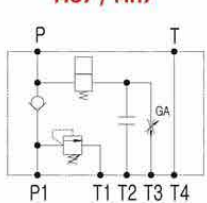
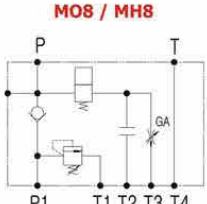
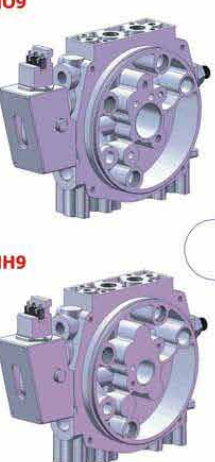
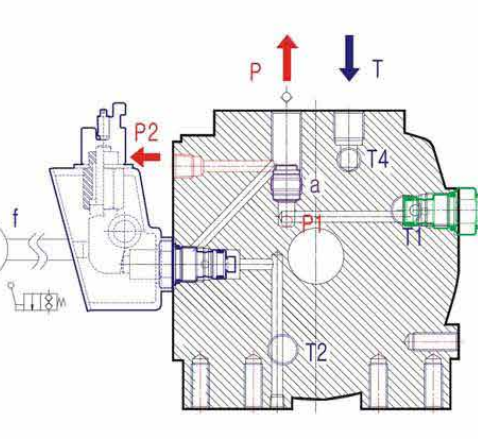
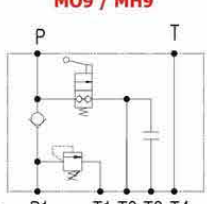
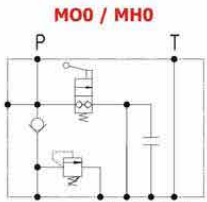


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COMPONENTES HIDRAULICOS

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DISTRIBUIDOR EXCLUSIVO:






| | | | | | | | |
|----------------------------------|--|---------------|--|---------------|--|-------------|--|
| A | MO5 / MH5 & MO6 / MH6 | | | | | | |
| | <p>VALVE ASSEMBLY</p>  <p>MO5</p> <p>MH5</p>  <table border="1" style="font-size: small;"> <tr><td>Normal Closed</td><td></td></tr> <tr><td>Normally Open</td><td></td></tr> <tr><td>Double Lock</td><td></td></tr> </table>  <p>MO5 / MH5</p>  <p>MO6 / MH6</p> | Normal Closed | | Normally Open | | Double Lock | |
| | Normal Closed | | | | | | |
| Normally Open | | | | | | | |
| Double Lock | | | | | | | |
| MO7 / MH7 & MO8 / MH8 | | | | | | | |
| | <p>VALVE ASSEMBLY</p>  <p>MO7</p> <p>MH7</p>  <table border="1" style="font-size: small;"> <tr><td>Normal Closed</td><td></td></tr> <tr><td>Normally Open</td><td></td></tr> <tr><td>Double Lock</td><td></td></tr> </table>  <p>MO7 / MH7</p>  <p>MO8 / MH8</p> | Normal Closed | | Normally Open | | Double Lock | |
| Normal Closed | | | | | | | |
| Normally Open | | | | | | | |
| Double Lock | | | | | | | |
| | MO9 / MH9 & MO0 / MH0 | | | | | | |
| | <p>VALVE ASSEMBLY</p>  <p>MO9</p> <p>MH9</p>  <table border="1" style="font-size: small;"> <tr><td>Normal Closed</td><td></td></tr> <tr><td>Normally Open</td><td></td></tr> <tr><td>Double Lock</td><td></td></tr> </table>  <p>MO9 / MH9</p>  <p>MO0 / MH0</p> | Normal Closed | | Normally Open | | Double Lock | |
| Normal Closed | | | | | | | |
| Normally Open | | | | | | | |
| Double Lock | | | | | | | |

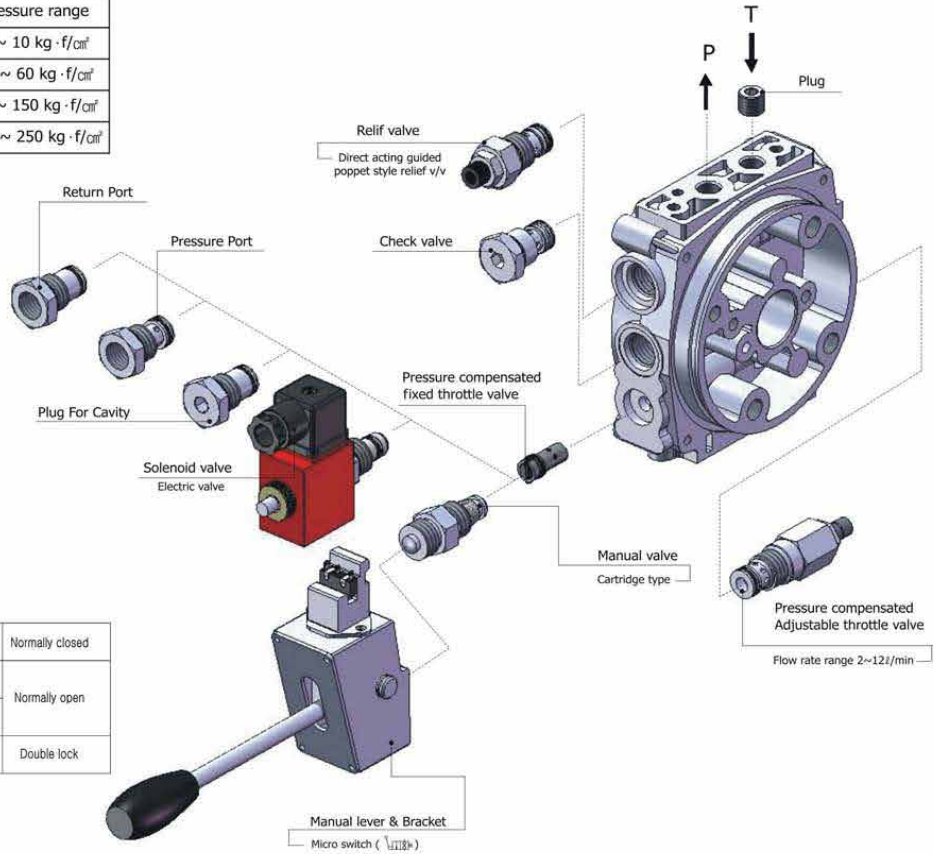
CENTER BLOCK

CENTER BLOCK

X SERIES BUILT-IN VALVE

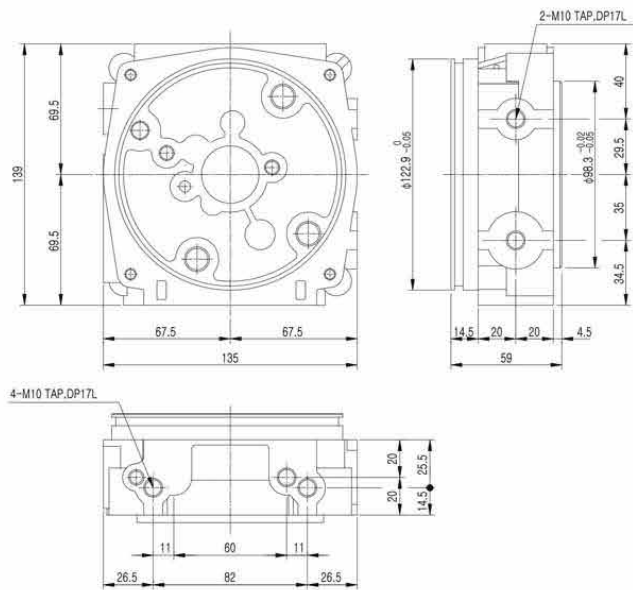
| Relief valve | |
|--------------|----------------------------------|
| Code | Pressure range |
| L | 3 ~ 10 kg · f/cm ² |
| A | 10 ~ 60 kg · f/cm ² |
| B | 50 ~ 150 kg · f/cm ² |
| C | 100 ~ 250 kg · f/cm ² |

| | |
|---|-----------------|
|  | Normally closed |
|  | Normally open |
|  | Double lock |

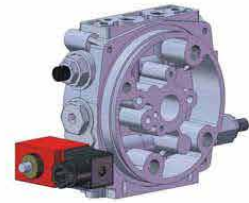


A

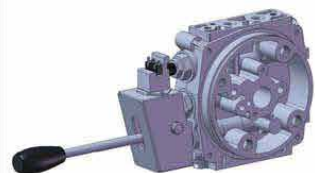
DIMENSION



XH Center block



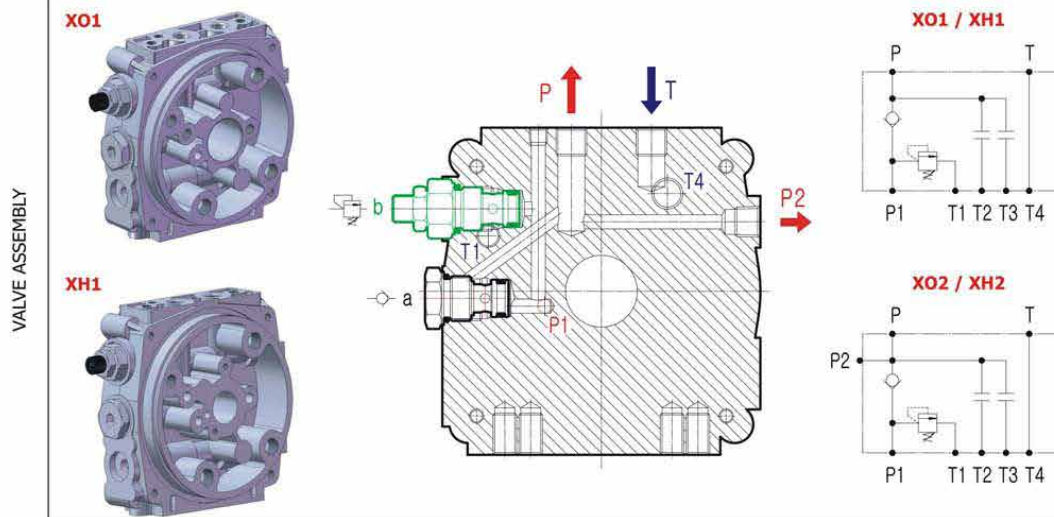
Micro s/w lever type MHXX



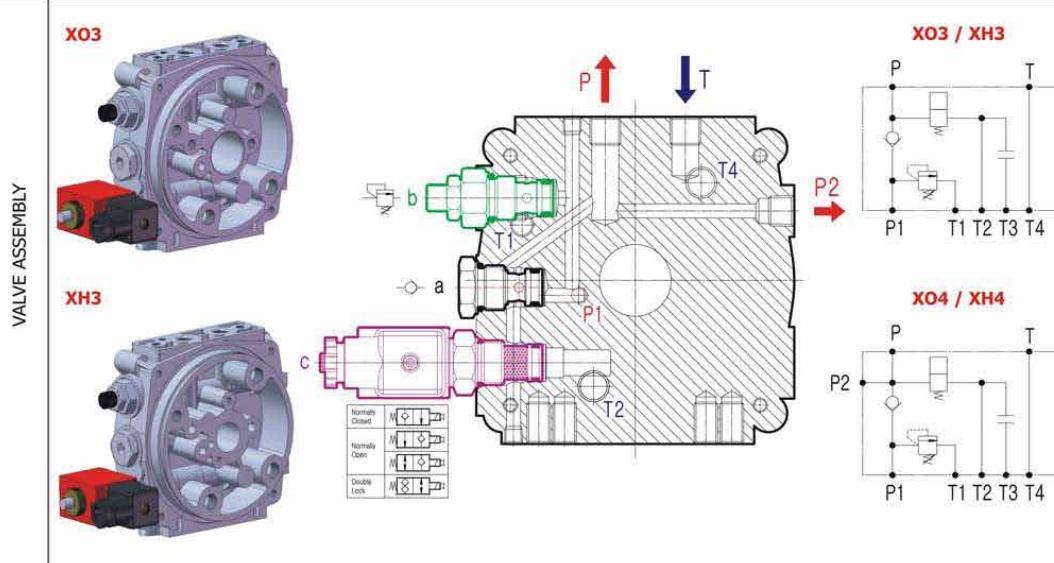
X CENTER BLOCK SPECIFICATION

| DESCRIPTION | MAIN SPECIFICATION |
|---|---|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 1/4" (Options : PT, SAE) Return port : PF 1/4" (Options : PT, SAE) Solenoid valve : Normally closed, Normally open, Double lock selectional Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 9.8 cc/rev Only "X" series oil tank applicable (refer to page 93 for X series oil tank) | <p>a : Check valve = UNF 3/4" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-2 or SV09-2 Cavity) d : Orifice = UNF 3/4" (SV08-2 + orifice or SV09-2 + orifice Cavity) e : GA = UNF 3/4" (SV09-2) f : Lever valve = UNF 3/4" (SV09-2)</p> <p>P : Primary Work Port = PF 1/4" P2 : Secondary Work Port = PT 1/4" T : Return Port = PF 1/4"</p> |

XO1 / XH1 & XO2 / XH2



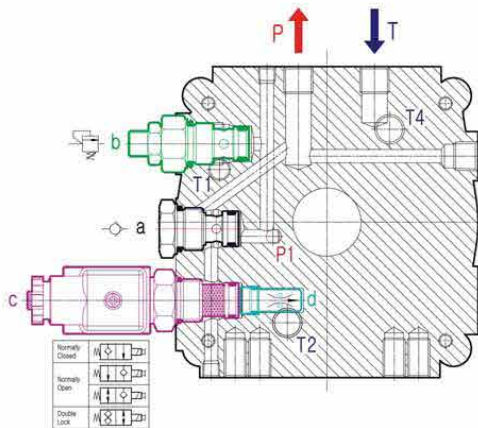
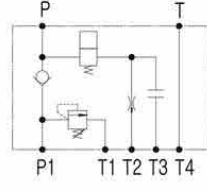
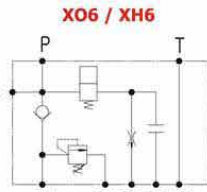

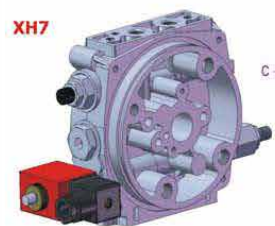
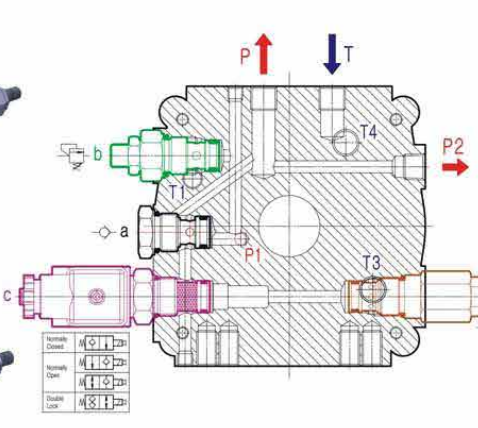
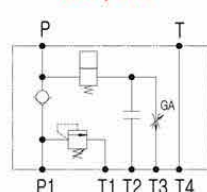
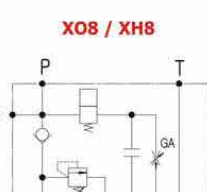


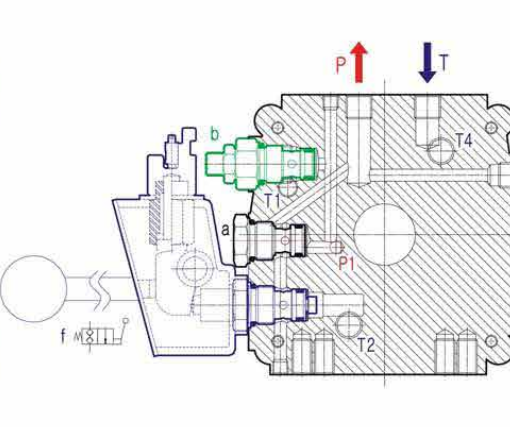
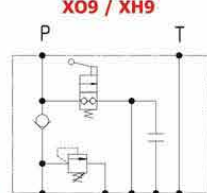
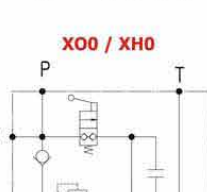


XO3 / XH3 & XO4 / XH4



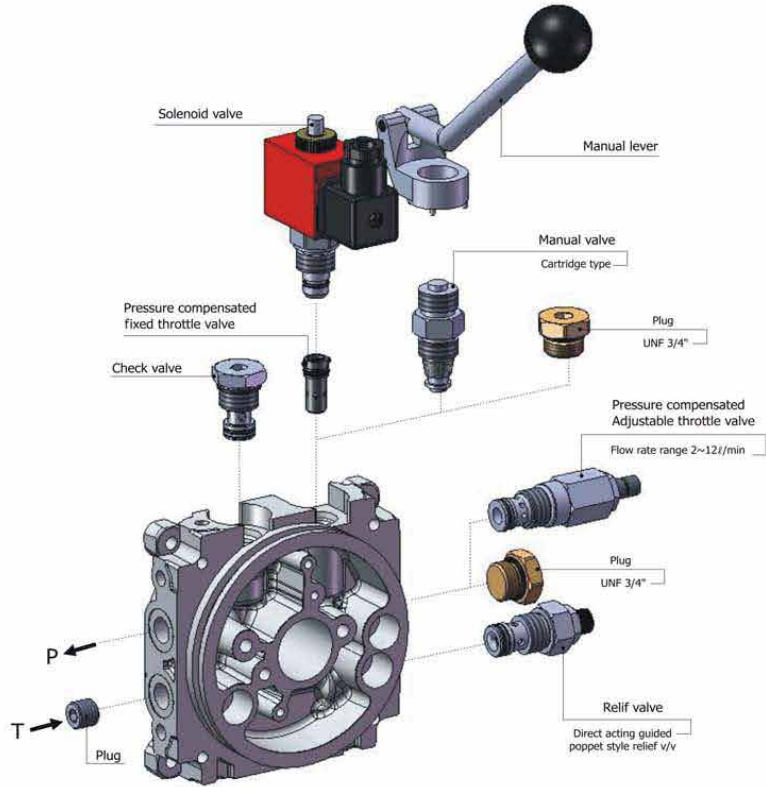
CENTER BLOCK

CENTER BLOCK




| | | X05 / XH5 & X06 / XH6 | | |
|----------|-----------------------|---|--|---|
| A | VALVE ASSEMBLY | <p>X05</p>  <p>XH5</p>  |  | <p style="text-align: center;">X05 / XH5</p>  <p style="text-align: center;">X06 / XH6</p>  |
| | VALVE ASSEMBLY | <p>X07</p>  <p>XH7</p>  |  | <p style="text-align: center;">X07 / XH7</p>  <p style="text-align: center;">X08 / XH8</p>  |
| | VALVE ASSEMBLY | <p>X09</p>  <p>XH9</p>  |  | <p style="text-align: center;">X09 / XH9</p>  <p style="text-align: center;">X00 / XH0</p>  |

C SERIES BUILT-IN VALVE

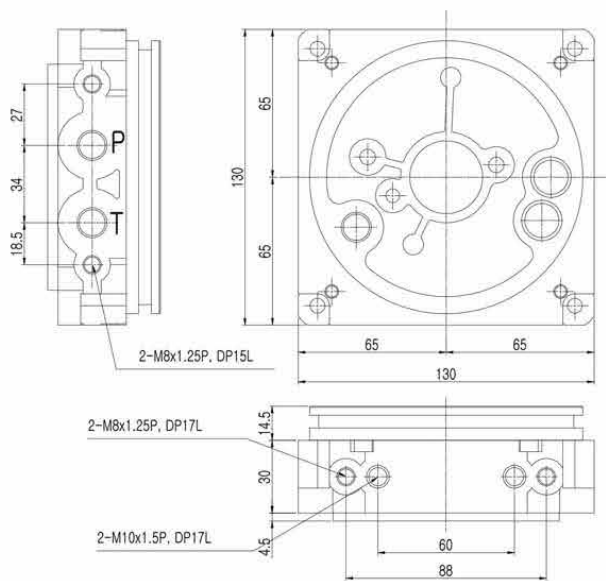
| Relief valve | |
|--------------|----------------------------------|
| Code | Pressure range |
| L | 3 ~ 10 kg · f/cm ² |
| A | 10 ~ 60 kg · f/cm ² |
| B | 50 ~ 150 kg · f/cm ² |
| C | 100 ~ 250 kg · f/cm ² |



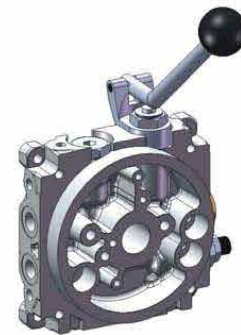
A

| | |
|---|-----------------|
|  | Normally closed |
|  | Normally open |
|  | Double lock |

DIMENSION



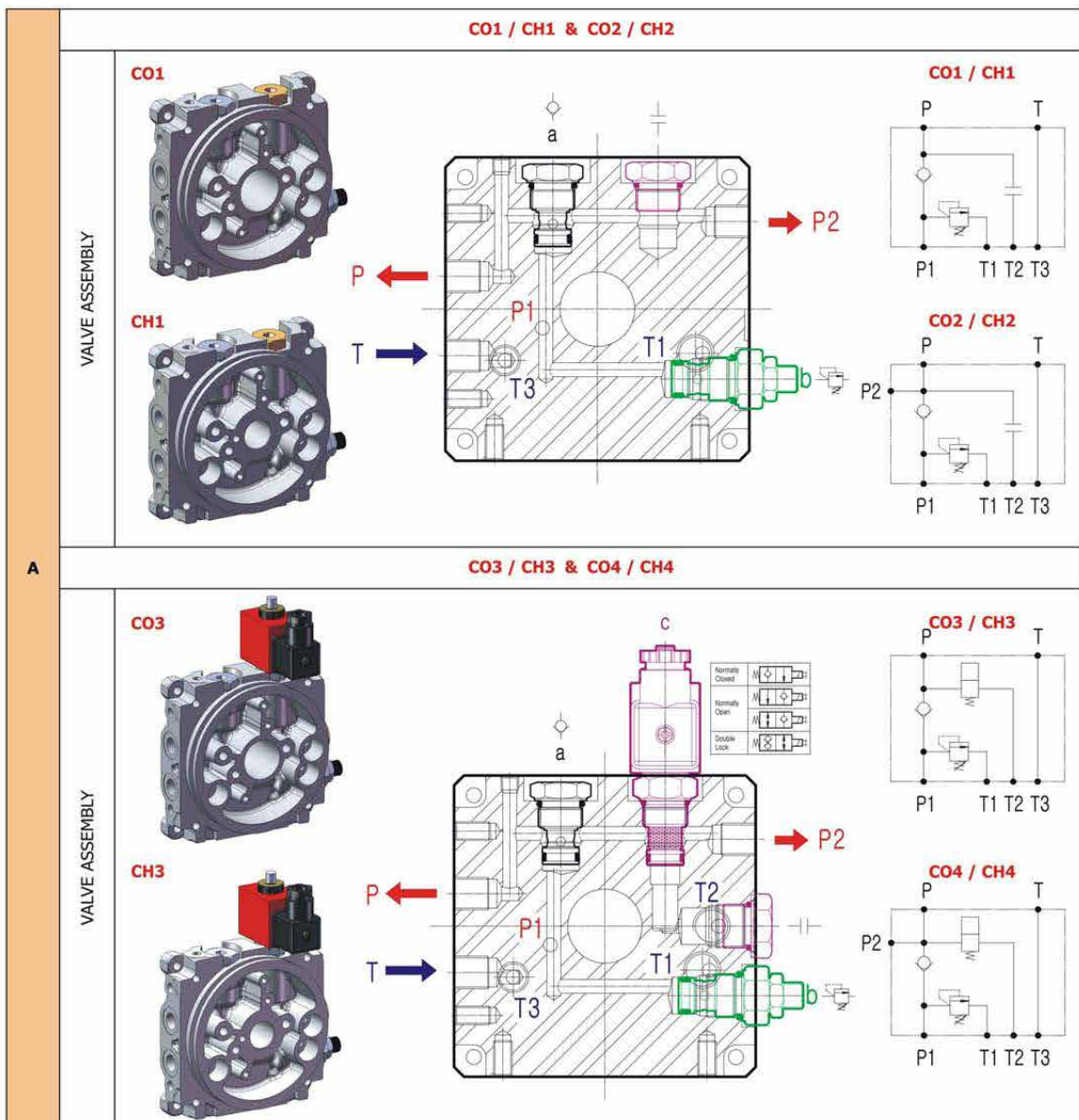
CH Center block


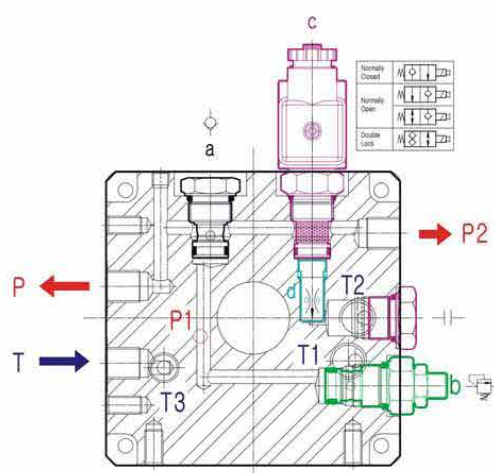
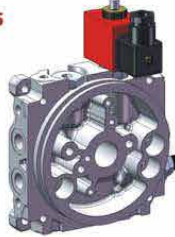
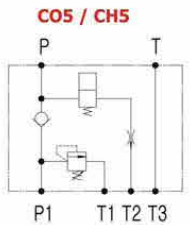
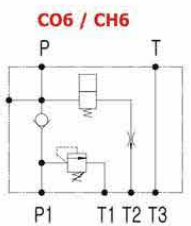

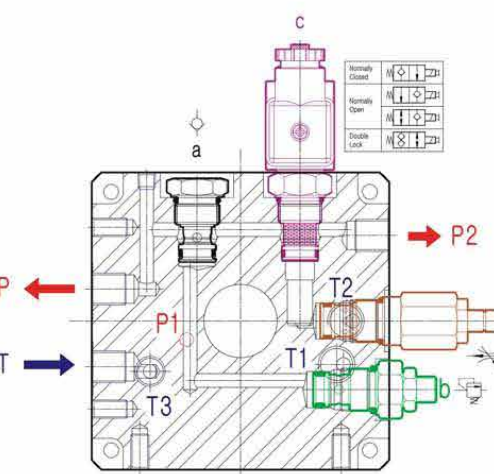

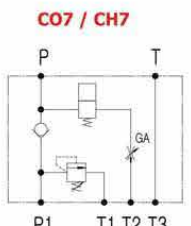
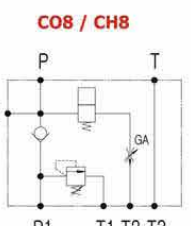

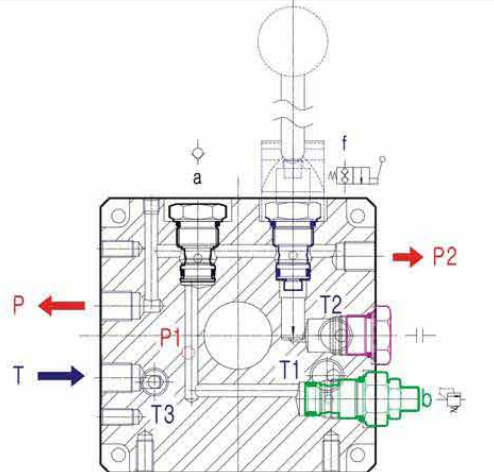

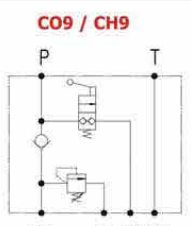
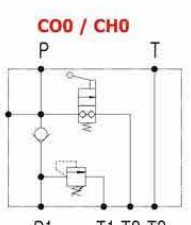


CENTER BLOCK

C CENTER BLOCK SPECIFICATION

| DESCRIPTION | MAIN SPECIFICATION |
|---|---|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 1/4" (Options : PT, SAE) Return port : PF 1/4" (Options : PT, SAE) Solenoid valve : Normally closed, Normally open, Double lock selectional Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 9.8 cc/rev Only "C" series oil tank applicable (refer to page 99 for C series oil tank) | <p>a : Check valve = PF 3/4" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-2 or SV09-2 Cavity) d : Orifice = UNF 3/4" (SV08-2 + orifice Or. SV09-2 + orifice Cavity) e : GA = UNF 3/4" (SV09-2) f : Lever valve = UNF 3/4" (SV09-2)</p> <p>P : Primary Work Port = PF 1/4" P2 : Secondary Work Port = Pf 1/4" T : Return Port = PF 3/8"</p> |



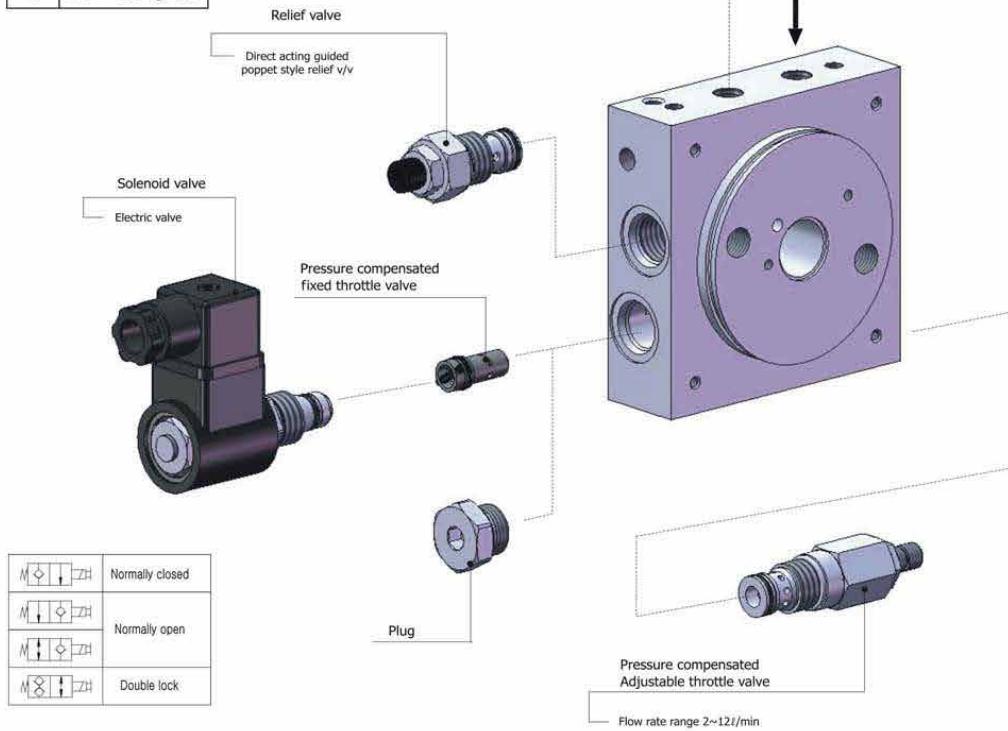
| | | C05 / CH5 & C06 / CH6 | | |
|----------------|------------|---|--|---|
| VALVE ASSEMBLY | C05 |  |  | C05 / CH5 |
| | CH5 |  | |  |
| | | | | C06 / CH6 |
| | | | |  |
| | | C07 / CH7 & C08 / CH8 | | |
| VALVE ASSEMBLY | C07 |  |  | C07 / CH7 |
| | CH7 |  | |  |
| | | | | C08 / CH8 |
| | | | |  |
| | | C09 / CH9 & C00 / CH0 | | |
| VALVE ASSEMBLY | C09 |  |  | C09 / CH9 |
| | CH9 |  | |  |
| | | | | C00 / CH0 |
| | | | |  |




CENTER BLOCK

CENTER BLOCK

QH SERIES BUILT-IN VALVE

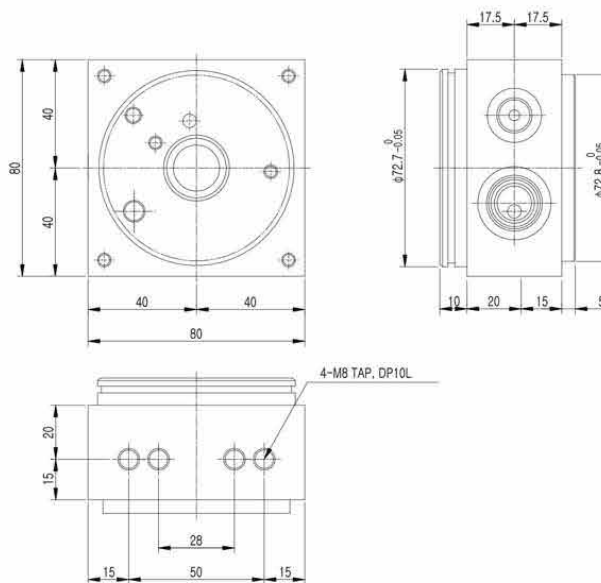
| Relief valve | |
|--------------|----------------------------------|
| Code | Pressure range |
| L | 3 ~ 10 kg · f/cm ² |
| A | 10 ~ 60 kg · f/cm ² |
| B | 50 ~ 150 kg · f/cm ² |
| C | 100 ~ 250 kg · f/cm ² |



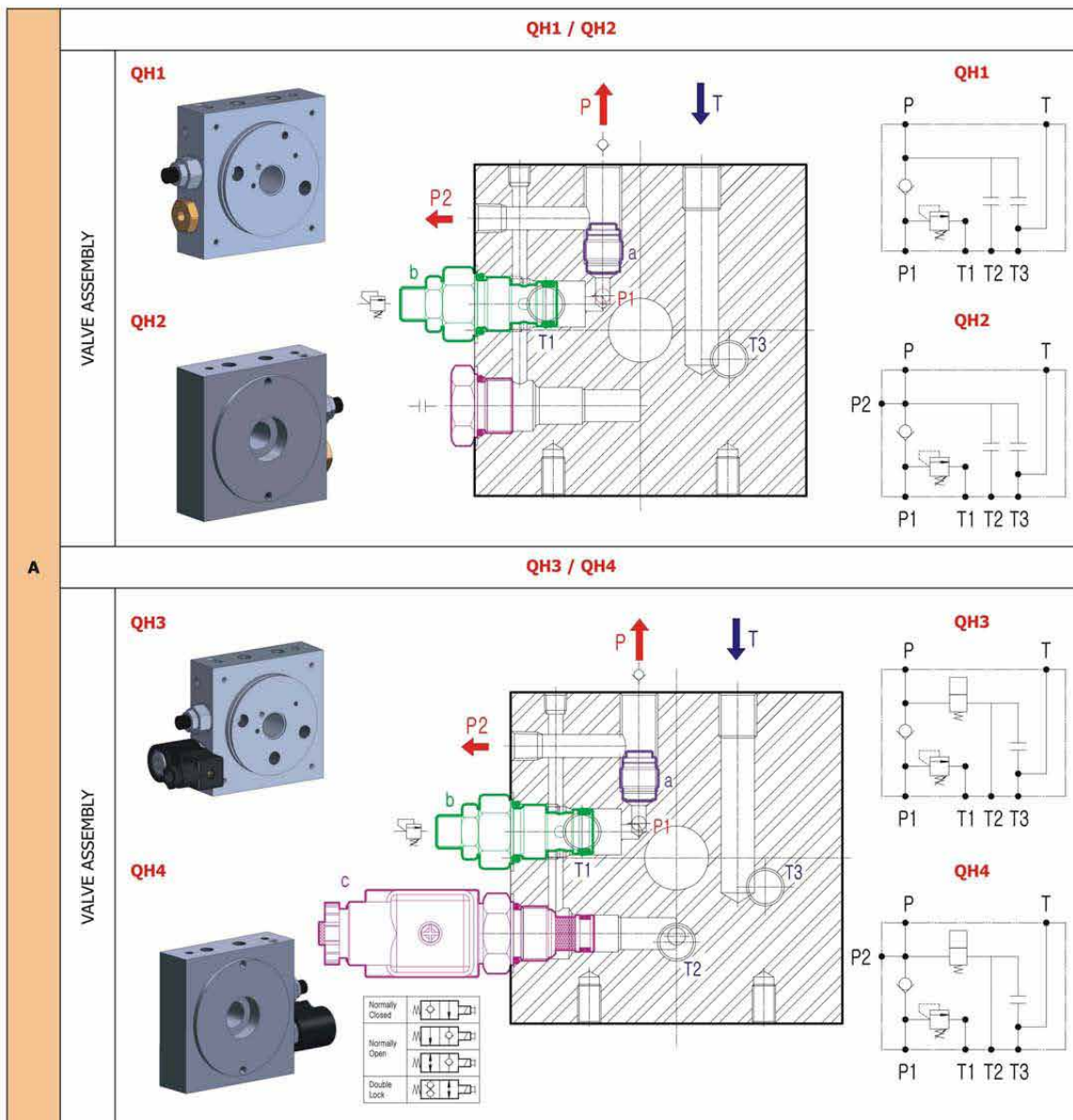
| | |
|---|-----------------|
|  | Normally closed |
|  | Normally open |
|  | Double lock |

A

DIMENSION




| QH CENTER BLOCK SPECIFICATION | |
|---|---|
| DESCRIPTION | MAIN SPECIFICATION |
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 1/4" (Options : PT, SAE) Return port : PF 1/4" (Options : PT, SAE) Solenoid valve : Normally closed, Normally open, Double lock selectional Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 1.6 cc/rev Only "Q" series oil tank applicable (refer to page 96 for Q series oil tank) | <p>a : Check valve = PF 1/4" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-2 or SV09-2 Cavity) d : Orifice = UNF 3/4" (SV08-2 + orifice or SV09-2 + orifice Cavity) e : GA = UNF 3/4" (SV09-2)</p> <p>P : Primary Work Port = PF 1/4" P2 : Secondary Work Port = PT 1/8" T : Return Port = PF 1/4"</p> |

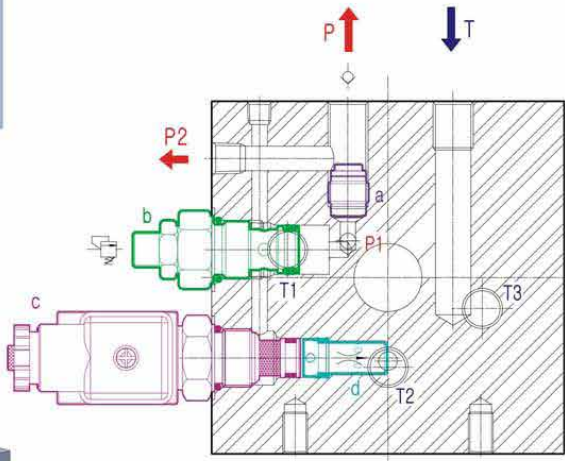


CENTER BLOCK

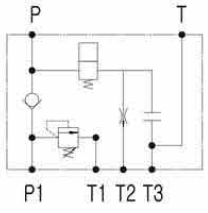
QH5 / QH6

QH5




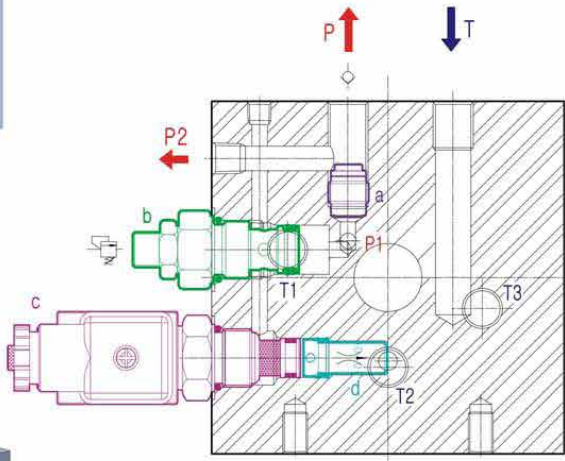


QH5

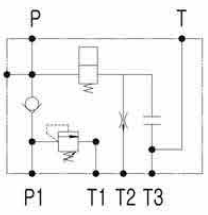





QH6






QH6

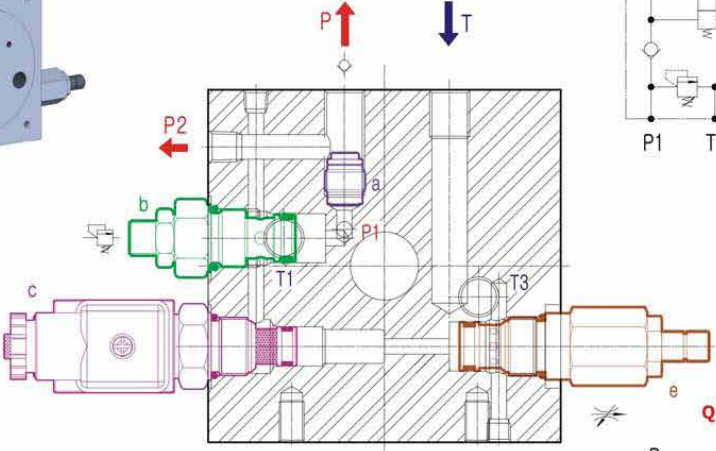


| | |
|-----------------|---|
| Normally Closed |  |
| Normally Open |  |
| Double Lock |  |

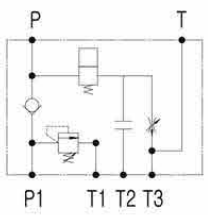
QH7 / QH8

QH7

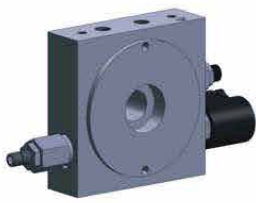


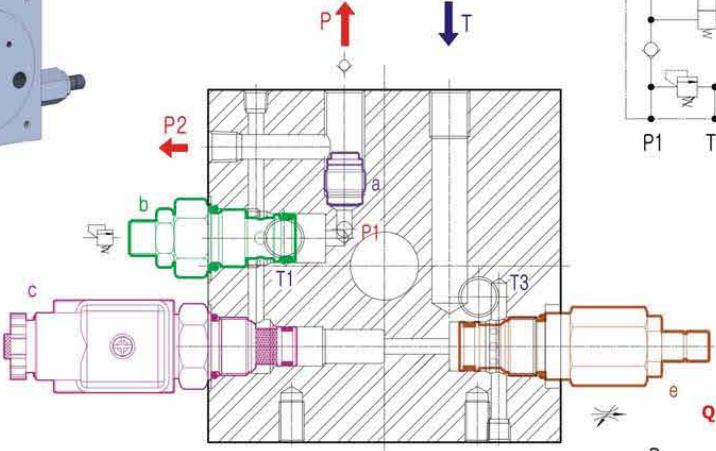


QH7

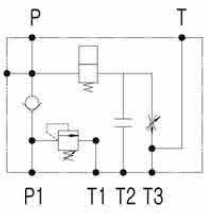





QH8





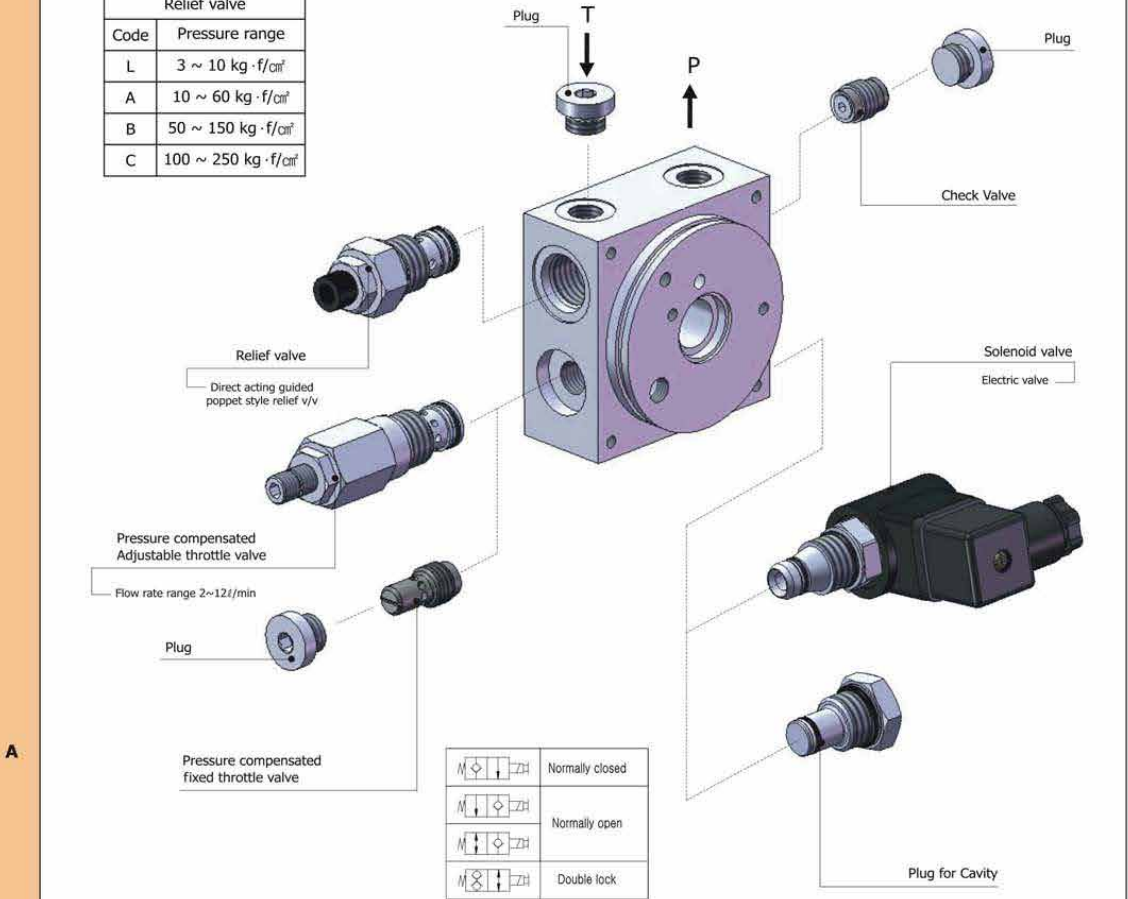
QH8



| | |
|-----------------|---|
| Normally Closed |  |
| Normally Open |  |
| Double Lock |  |

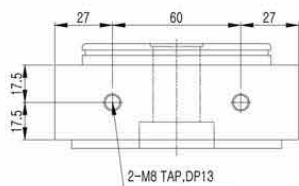
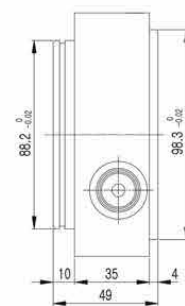
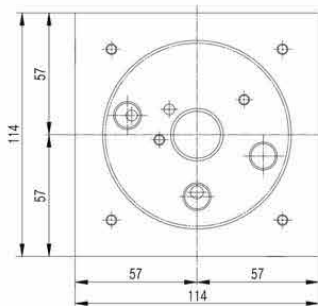
SH SERIES BUILT-IN VALVE

| Relief valve | |
|--------------|----------------------------------|
| Code | Pressure range |
| L | 3 ~ 10 kg · f/cm ² |
| A | 10 ~ 60 kg · f/cm ² |
| B | 50 ~ 150 kg · f/cm ² |
| C | 100 ~ 250 kg · f/cm ² |



A

DIMENSION




CENTER BLOCK

SH CENTER BLOCK SPECIFICATION


| DESCRIPTION | MAIN SPECIFICATION |
|---|--|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 1/4" (Options : PT, SAE) Return port : PF 1/4" (Options : PT, SAE) Solenoid valve : Normally closed, Normally open, Double lock selectional Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 1.6 cc/rev Only "S" series oil tank applicable (refer to page 97 for S series oil tank) | <p>a : Check valve = PF 1/4" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-2 or SV09-2 Cavity) d : Orifice = PF 1/4" e : GA = UNF 3/4" (SV09-2)</p> <p>P : Primary Work Port = PF 1/4" P2 : Secondary Work Port = PF 1/4" T : Return Port = PF 1/4"</p> |

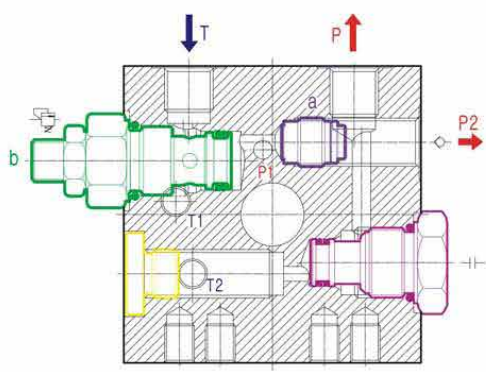
SH1 / SH2

SH1

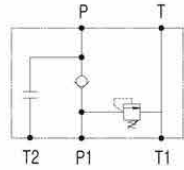


SH2

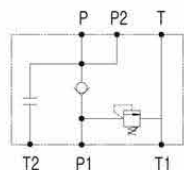




SH1

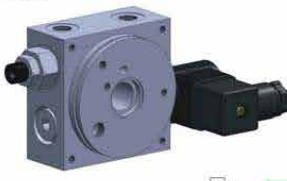


SH2




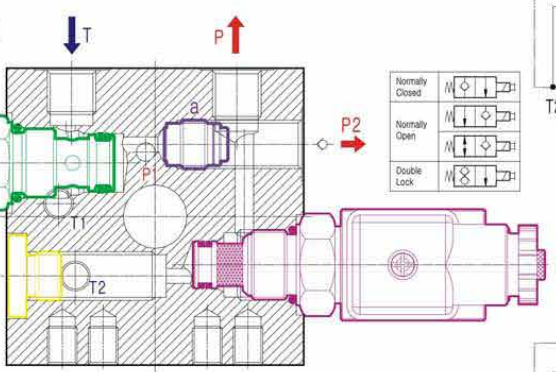
SH3 / SH4

SH3

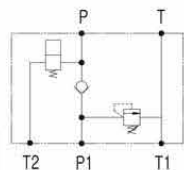


SH4

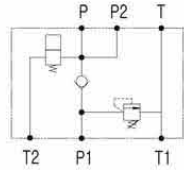


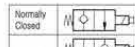
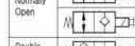



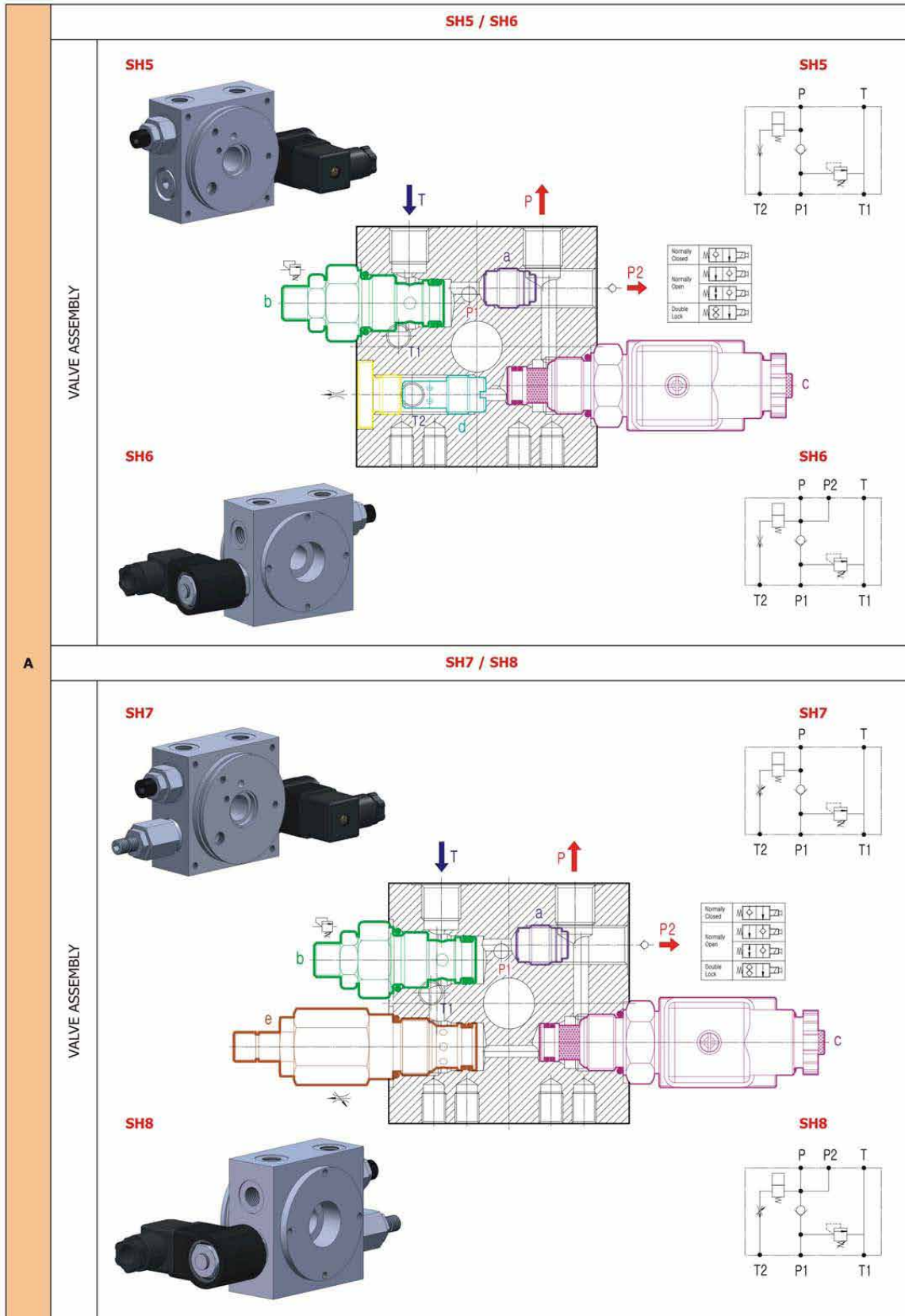
SH3



SH4

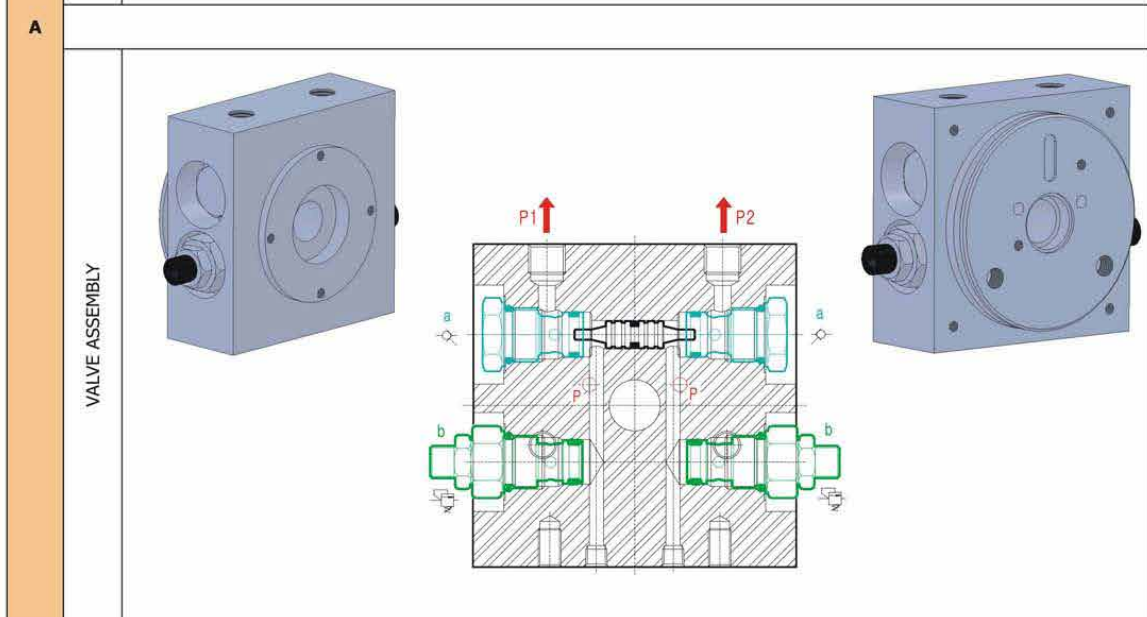
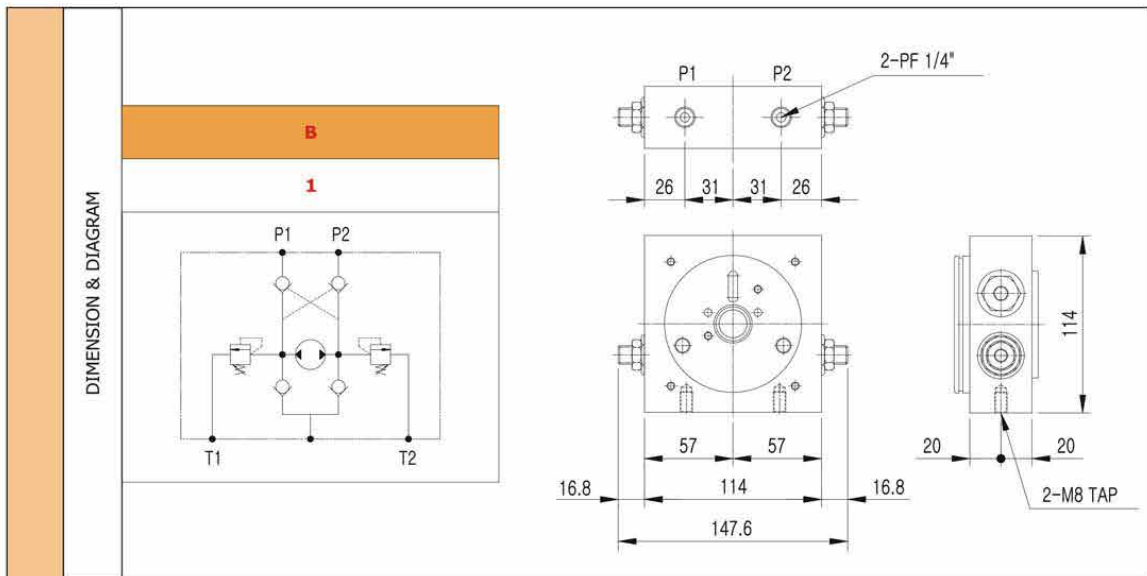


| | |
|-----------------|---|
| Normally Closed |  |
| Normally Open |  |
| Double Lock |  |



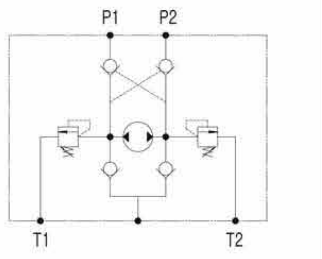
QD CENTER BLOCK SPECIFICATION

| DESCRIPTION | MAIN SPECIFICATION |
|---|---|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : PF 1/4" (Options : PT, SAE) Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 1.1 cc/rev Only "Q" series oil tank applicable (refer to page 96 for Q series oil tank) This block is available only for bi-directional gear pump | <p>a : Pilot check valve = UNF 3/4" (Pilot Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity)</p> <p>P1, P2 : Primary Work Port = PF 1/4"</p> |

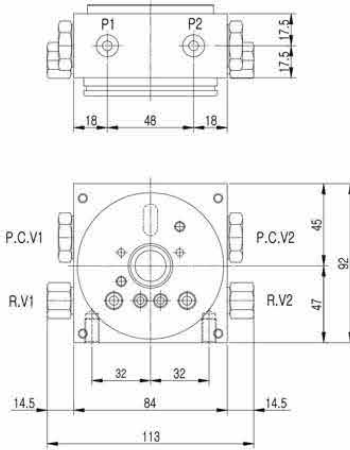


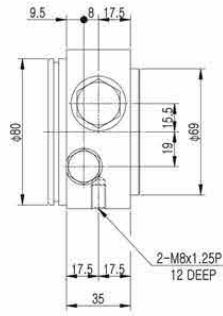
| SD CENTER BLOCK SPECIFICATION | |
|---|--|
| DESCRIPTION | MAIN SPECIFICATION |
| <ol style="list-style-type: none"> 1. Made of Aluminum material 2. Outlet port : PF 1/4" (Options : PT, SAE) 3. Pressure adjustable Relief valve 4. Applicable pump displacement : 0.2 cc/rev ~ 1.1 cc/rev 5. Only "S" series oil tank applicable (refer to page 97 for S series oil tank) 6. This block is available only for bi-directional gear pump | <p>a : Pilot check valve = M20x1.5P (Pilot Check Valve Cavity) b : Relief valve = M10x1P (Mini Relief Cavity)</p> <p>P1, P2 : Primary Work Port = PF 1/4"</p> |

DIMENSION & DIAGRAM

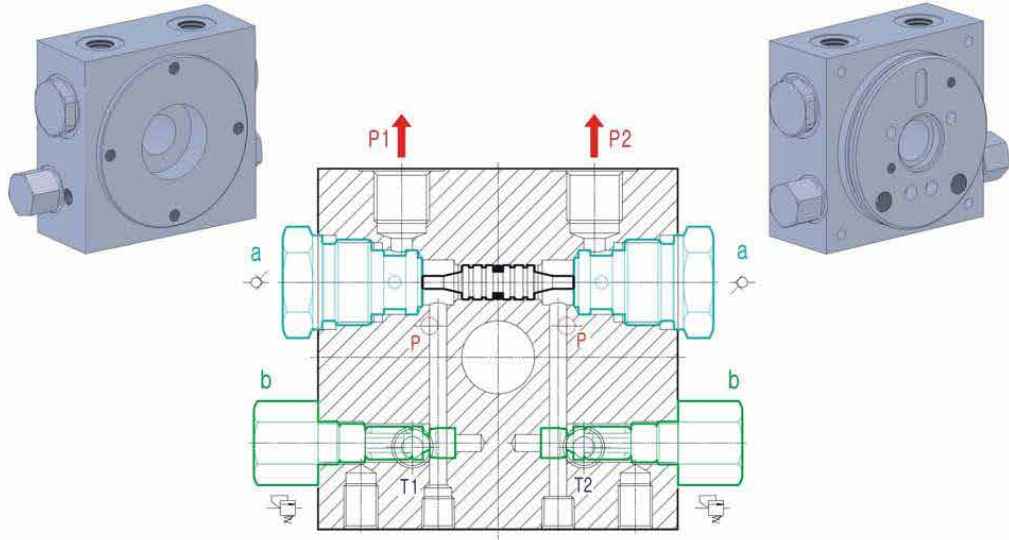


1





VALVE ASSEMBLY

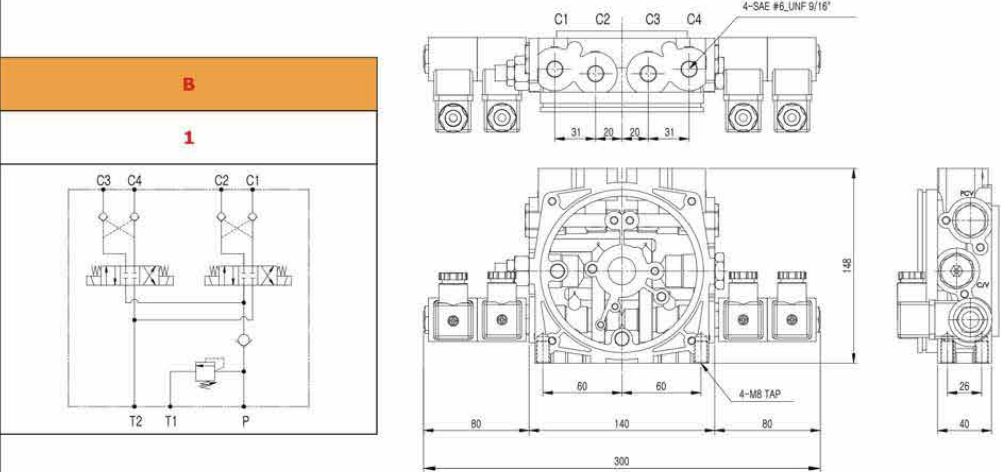


CENTER BLOCK

SCB01 CENTER BLOCK SPECIFICATION

| DESCRIPTION | MAIN SPECIFICATION |
|--|---|
| <ol style="list-style-type: none"> Made of Aluminum material Outlet port : SAE #6_UNF 9/16" (Options : PT, PF) Pressure adjustable Relief valve Applicable pump displacement : 0.2 cc/rev ~ 1.6 cc/rev Only "X" series oil tank applicable (refer to page 93 for X series oil tank) | <p>a : Check valve = UNF 3/4" (Check Valve Cavity) b : Relief valve = UNF 3/4" (SV09-2 Cavity) c : Solenoid valve = UNF 3/4" (SV08-4 Cavity) d : Pilot check valve = UNF 3/4" (SV08-4 Cavity)</p> <p>Port 1,2,3,4 : Primary Work Port = SAE #6_UNF 9/16"</p> |

DIMENSION & DIAGRAM



VALVE ASSEMBLY

