# AGNI HYDROPNEUMATIC PRIVATE LTD

# Hydraulic Manifold Catalogue

January 2025 Rev-01

AGNI
Hydraulics & Pneumatics

## Welcome

Welcome to the Agni Hydraulics Manifold Block Catalogue, your trusted source for high-performance hydraulic valves. We offer a comprehensive range of products designed to meet the demands of diverse industries and applications, all at competitive prices.

## Manifold Block - Multi-Station, Side-Ported, Bottom-Ported and more


## Contact Us

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Plot No - 59A/5 Sector-04 IIE Sidcul Pantnagar Uttarakhand - 263153
Contact - 9045085537 | E-Mail - info@agnihp.com
Website - https://agnihp.com

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## Get to Know Our Company

AGNI HYDROPNEUMATIC PRIVATE LIMITED newly established in 2024 as a small-scale firm, began its journey to introduce world-class Hydraulic and Pneumatic Cylinders of the latest design to the Indian market at affordable prices. Over the years, we will expand our product range to include Pneumatic Power Clamp Cylinders and Other Hydro-Pneumatic products like Valves, Connectors, Fittings and specialized products for OEM applications.

### Our Mission

We aim to expand our range of products, technology, and customer base in the coming years to gain the same recognition in the international market and become a global company.

### Our Vision

We are committed to enhancing industrial efficiency and performance by offering innovative, high-standard hydraulic and pneumatic solutions that meet the diverse needs of our clients nationwide

## Our Values

**Customer-Centric**
It is our core value that the Customer satisfaction comes before everything.

**Innovative**
We always strive to deliver new and better solutions to the ever changing business world.

**Integrity**
We are building trust with honesty and transparency is as the root of our value system

**Involved**
We value and are actively engaged with our customers, partners, employee or employees and the community.

## Disclaimer

Please Read The Following Warning Carefully

**Please be aware that using the products described here incorrectly or for unsuitable applications could lead to serious consequences, including death, injury, and property damage.**
This document provides information for qualified users to explore product and system options. We encourage you to carefully analyze your specific application, including potential failure risks, and consult the current product catalog for detailed information.
**Agni Hydropneumatics** reserves the right to make changes to product features, specifications, designs, availability, and pricing without prior notice.

Ultimately, you are responsible for selecting the products and systems that best meet your needs and ensuring they comply with all performance, safety, and warning requirements. We appreciate your understanding and commitment to safety.

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# Hydraulic Manifold Block

A hydraulic manifold block is a key component in hydraulic systems. It acts as a centralized control hub for directing and regulating the flow of hydraulic fluid within the system.
These hollow blocks are designed to integrate various functions, such as controlling fluid direction, pressure, and flow, into a single compact unit. This minimizes the complexity of piping and reduces the space required for hydraulic installations.

**What It's Used For:**

Hydraulic manifold blocks are used in a wide range of applications across industries that utilize hydraulic systems, such as:

- Construction equipment (e.g., excavators, cranes)
- Agricultural machinery (e.g., tractors, harvesters)
- Industrial automation (e.g., presses, injection molding machines)
- Aerospace and automotive applications
- Marine systems (e.g., winches, rudder controls)

Essentially, they are used wherever hydraulic control systems are needed for directing, pressurizing, or regulating fluid flow, and are integral in applications requiring efficient, compact, and reliable fluid management.

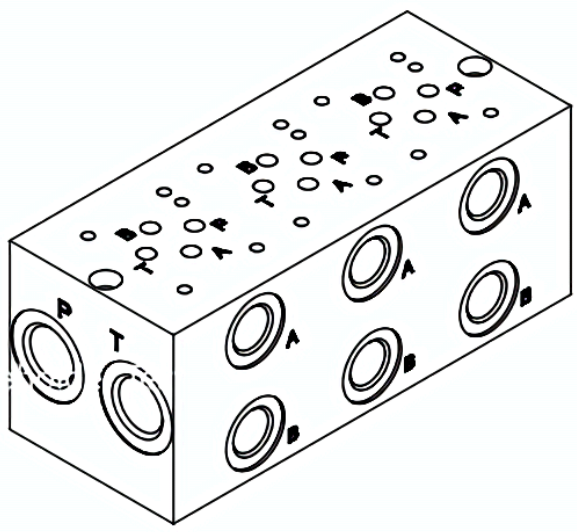
**Types of Hydraulic Manifold Blocks:**

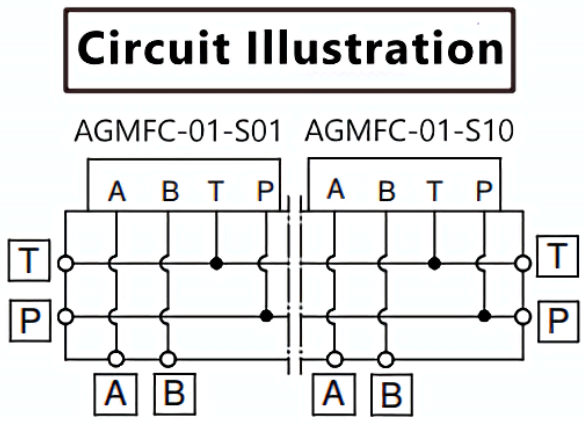
1. **Single Function Manifold Block -**
   Controls a single function, such as regulating pressure or flow. Often used in simpler systems or as a part of more complex manifolds.
2. **Multi-function Manifold Block -**
   Integrates multiple control functions like pressure relief, directional control, and flow regulation in one unit. These are typically found in more advanced systems with more complex hydraulic requirements.
3. **Modular Manifold Blocks -**
   Composed of several blocks or units that can be stacked or bolted together, allowing for flexibility in designing complex hydraulic circuits. These allow easier customization for specific system needs.

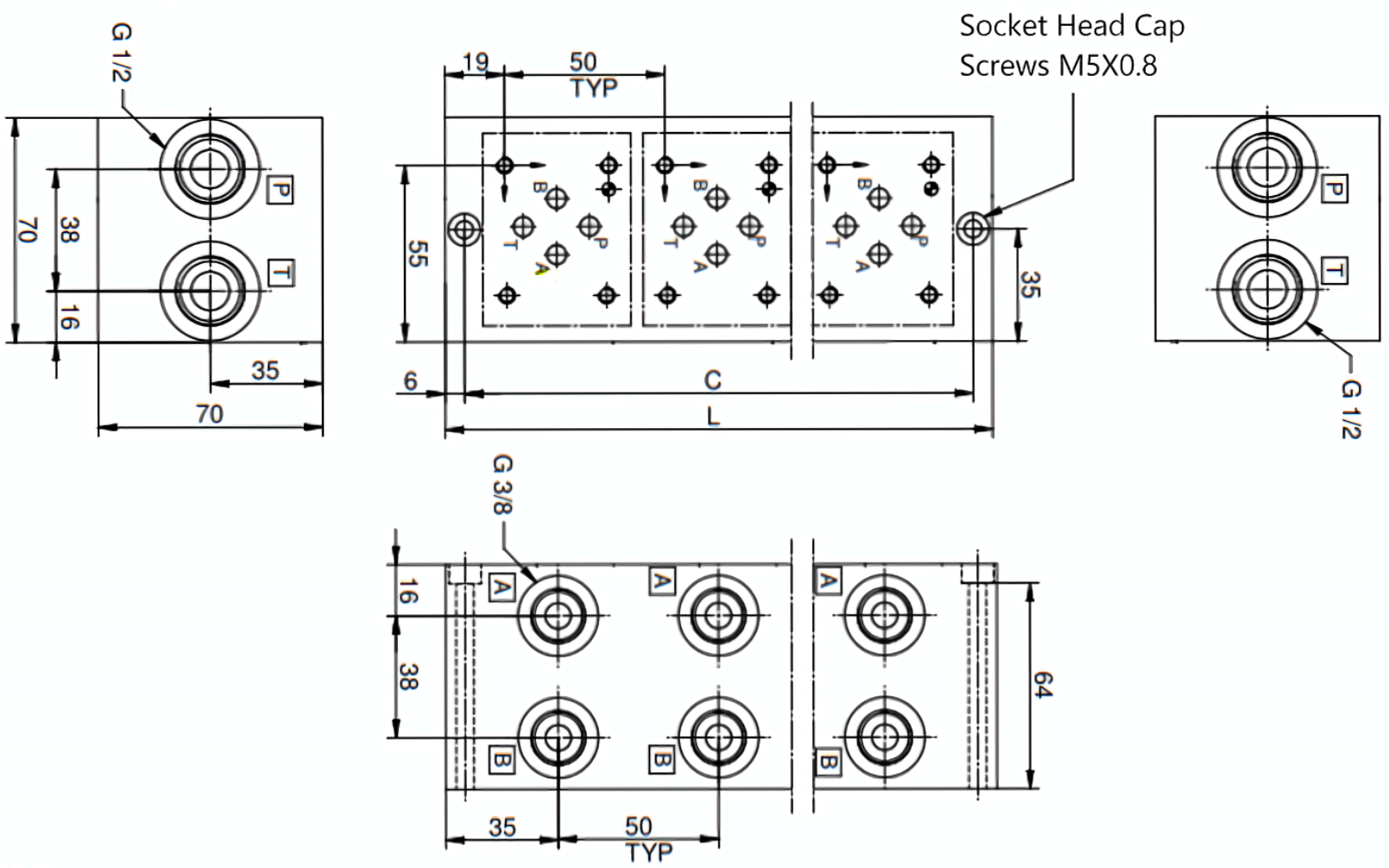
# Material - EN - 8

EN-8 is a medium carbon steel commonly used in mechanical engineering and manufacturing. It is often referred to as a "bright steel" or "carbon steel" and typically has a carbon content of around 0.35–0.45%. The steel is generally supplied in the cold-drawn or hot-rolled condition, and its properties can be modified by heat treatment processes.

# AGMB-01-MS01





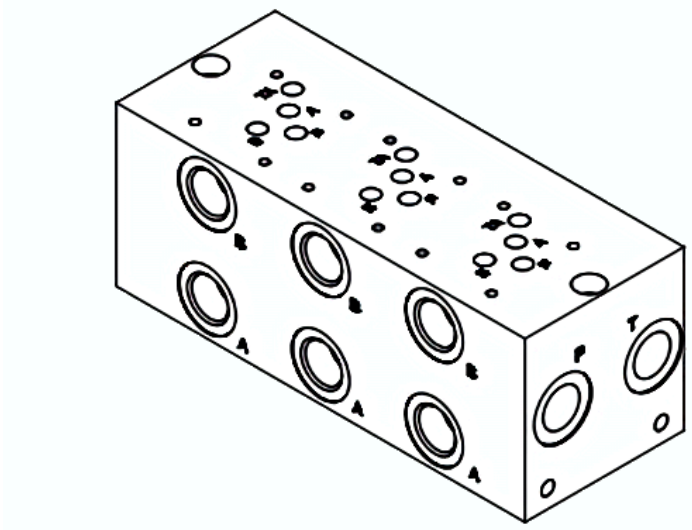



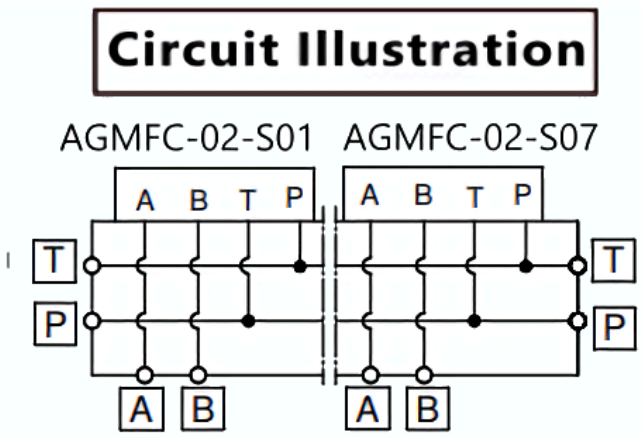

**#Notes**

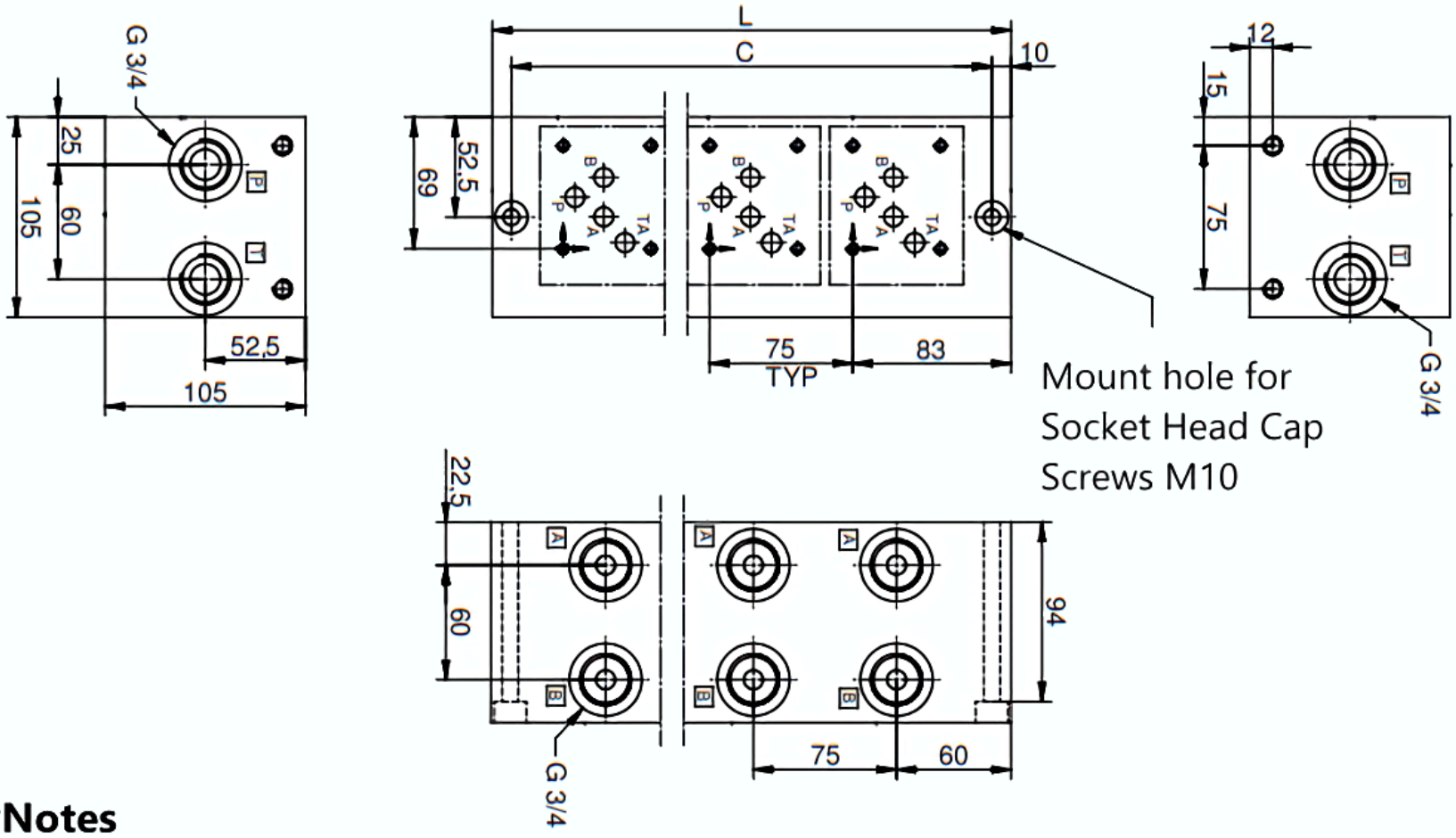
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 40 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-01-MS01 | AGMB-01-MS01-2 | AGMB-01-MS01-3 | AGMB-01-MS01-4 | AGMB-01-MS01-5 | AGMB-01-MS01-6 | AGMB-01-MS01-7 | AGMB-01-MS01-8 | AGMB-01-MS01-9 | AGMB-01-MS01-10 |
| L | 70 | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 |
| C | 58 | 108 | 158 | 208 | 258 | 308 | 358 | 408 | 458 | 508 |

# AGMB-02-MS02





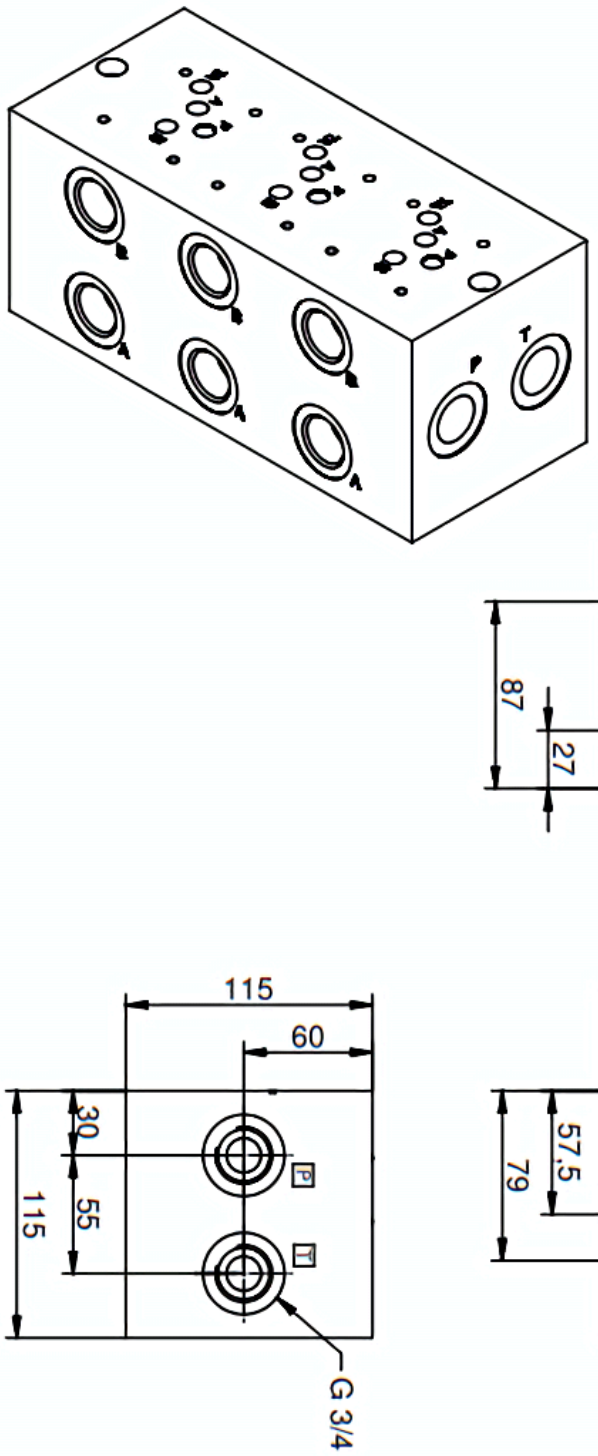



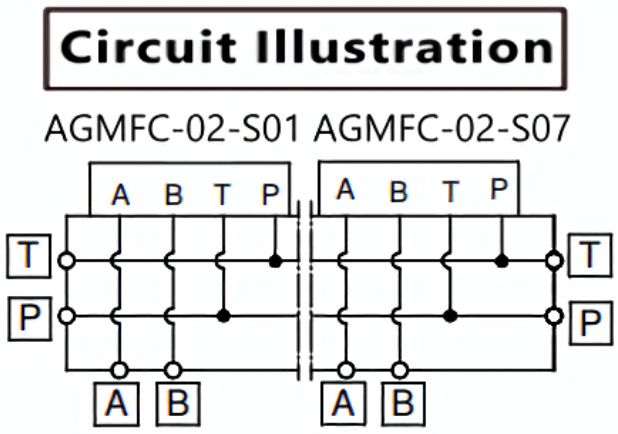

**#Notes**

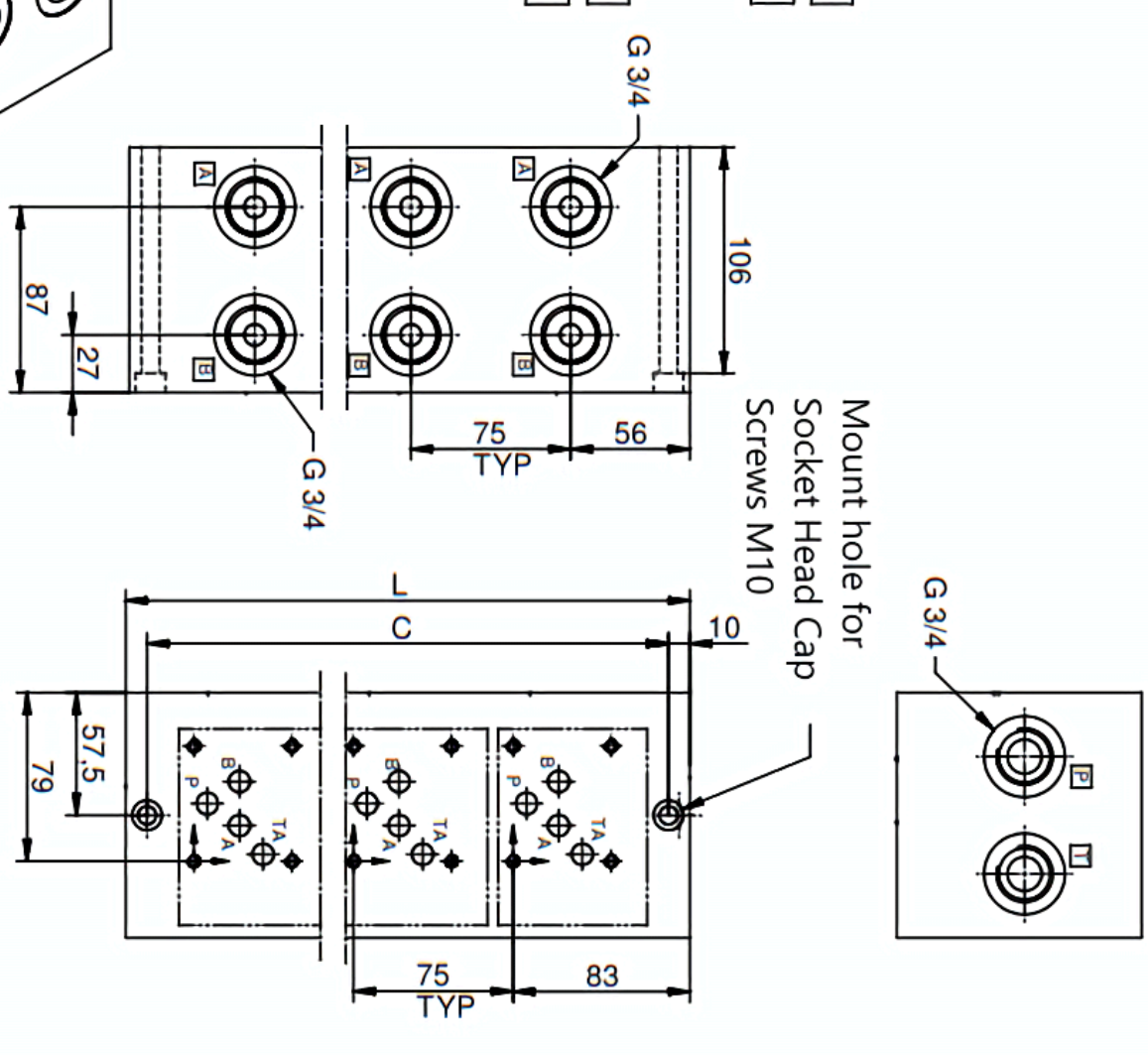
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 60 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-02-MS 01-1 | AGMB-02-MS 01-2 | AGMB-02-MS 01-3 | AGMB-02-MS 01-4 | AGMB-02-MS 01-5 | AGMB-02-MS 01-6 | AGMB-02-MS 01-7 | AGMB-02-MS 01-8 | AGMB-02-MS 01-9 | AGMB-02-MS 01-10 |
| L | 120 | 195 | 270 | 345 | 420 | 495 | 570 | - | - | - |
| C | 100 | 175 | 250 | 325 | 400 | 475 | 550 | - | - | - |

# AGMB-03-MS03







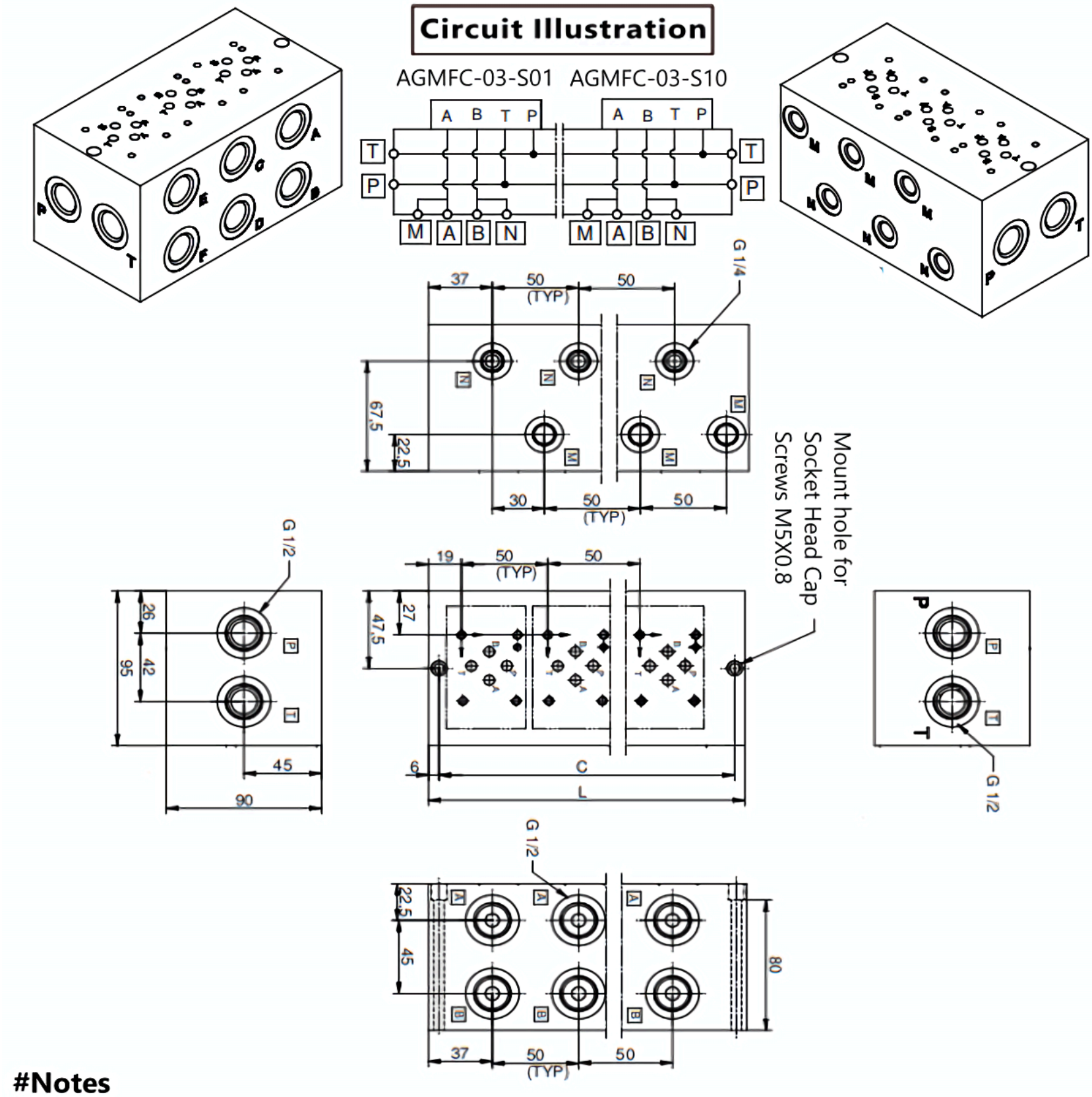


## #Notes

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 60 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-03-MS 01-1 | AGMB-03-MS 01-2 | AGMB-03-MS 01-3 | AGMB-03-MS 01-4 | AGMB-03-MS 01-5 | AGMB-03-MS 01-6 | AGMB-03-MS 01-7 | AGMB-03-MS 01-8 | AGMB-03-MS 01-9 | AGMB-03-MS 01-10 |
| L | 115 | 190 | 265 | 340 | 415 | 490 | 565 | - | - | - |
| C | 95 | 170 | 245 | 320 | 395 | 470 | 545 | - | - | - |

# AGMB-04-MS04

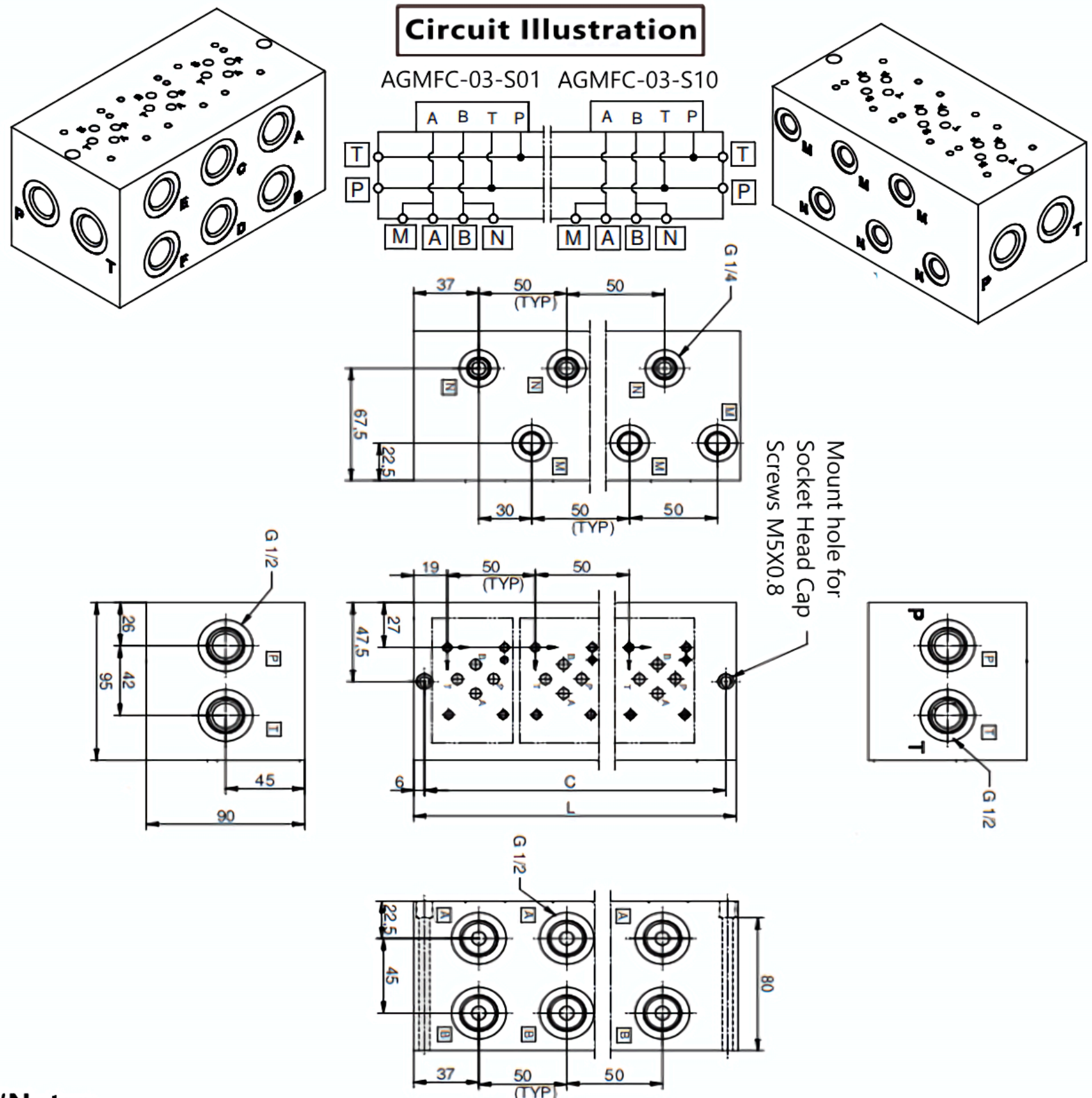



**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 40 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-MS01-1 | AGMB-MS01-2 | AGMB-04-MS01-3 | AGMB-04-MS01-4 | AGMB-04-MS01-5 | AGMB-04-MS01-6 | AGMB-04-MS01-7 | AGMB-04-MS01-8 | AGMB-04-MS01-9 | AGMB-04-MS01-10 |
| L | 80 | 130 | 180 | 230 | 280 | 330 | 380 | 430 | 480 | 530 |
| C | 68 | 118 | 168 | 218 | 268 | 318 | 368 | 418 | 468 | 518 |

# AGMB-05-MS05

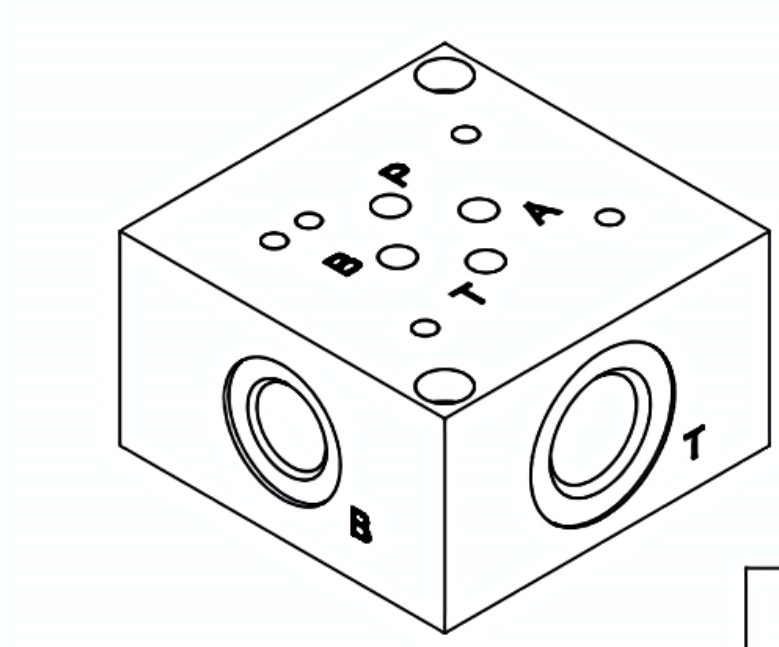


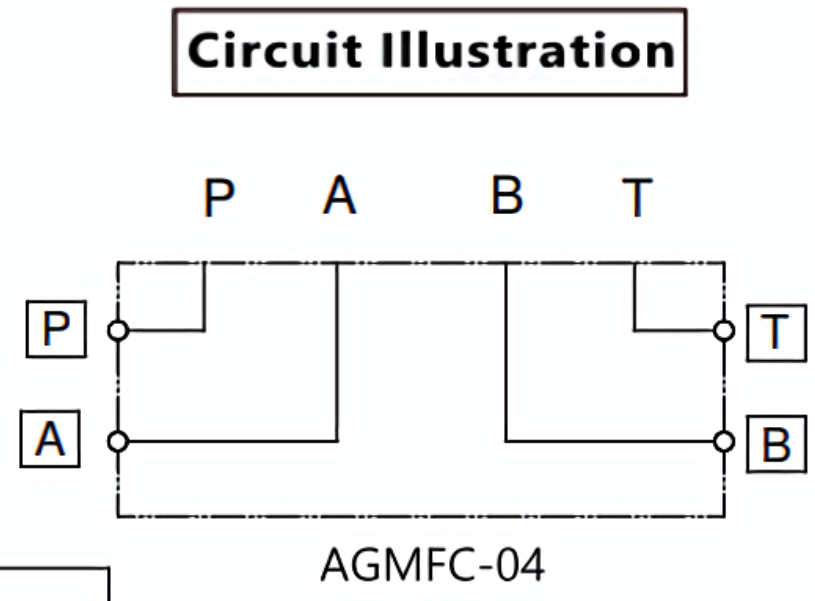

## Notes

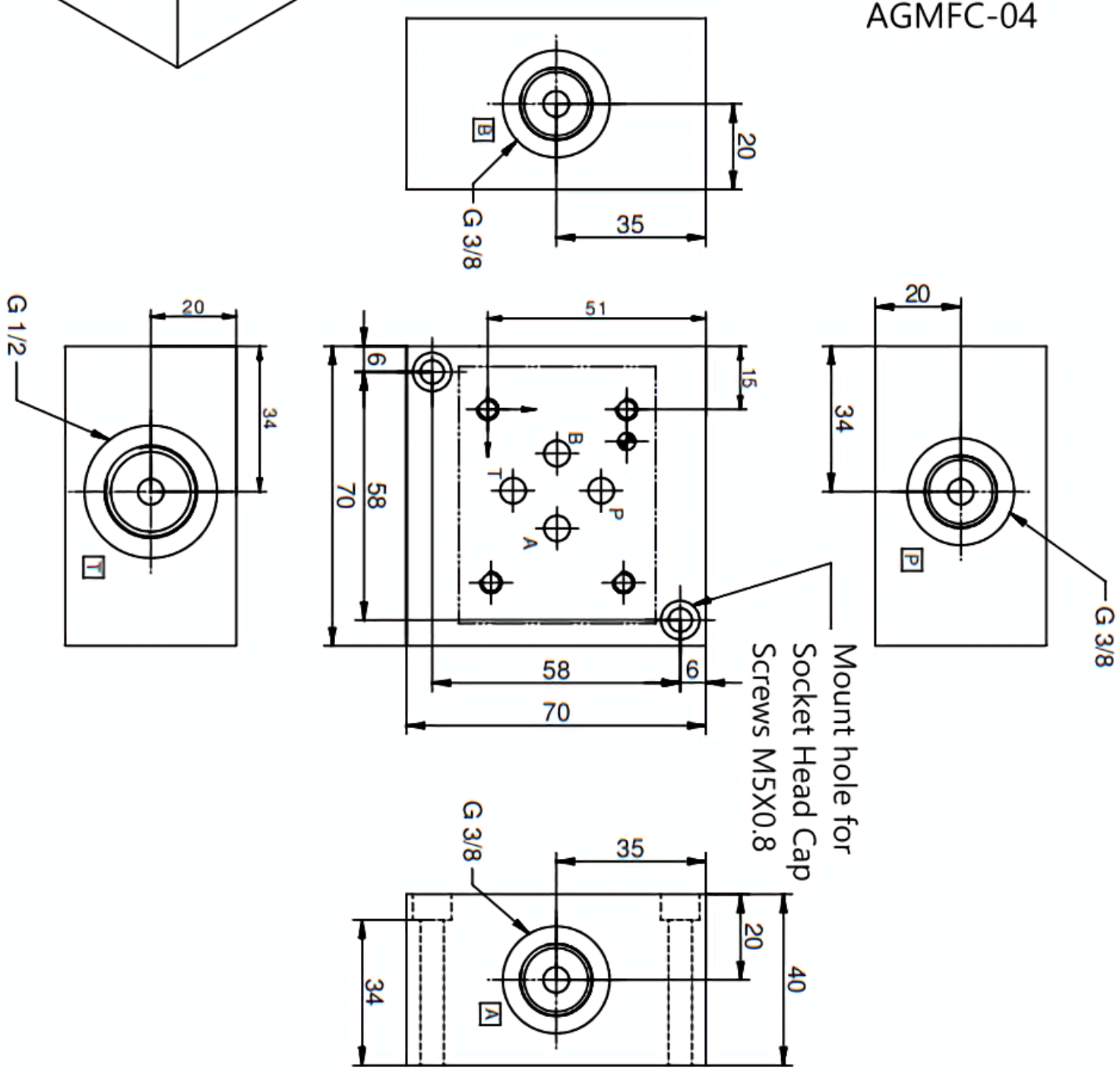
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 40 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-05-MS 01-1 | AGMB-05-MS 01-2 | AGMB-05-MS 01-3 | AGMB-05-MS 01-4 | AGMB-05-MS 01-5 | AGMB-05-MS 01-6 | AGMB-05-MS 01-7 | AGMB-05-MS 01-8 | AGMB-05-MS 01-9 | AGMB-05-MS 01-10 |
| L | 115 | 190 | 265 | 340 | 415 | 490 | 565 | - | - | - |
| C | 95 | 170 | 245 | 320 | 395 | 470 | 545 | - | - | - |

# AGMB-06-SP01



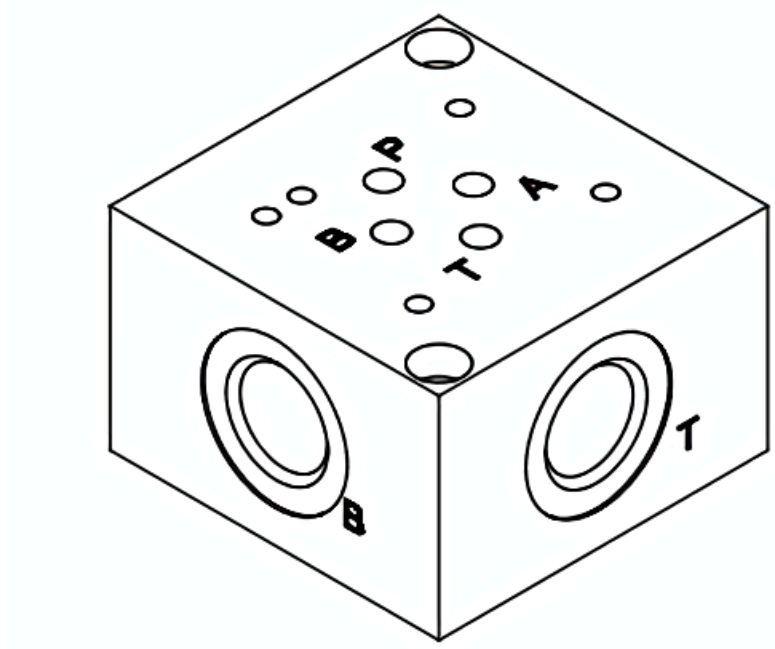



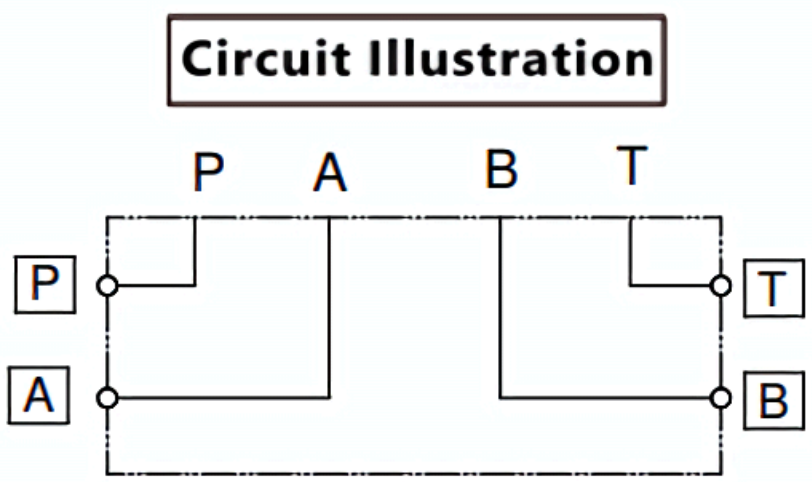




**#Notes**

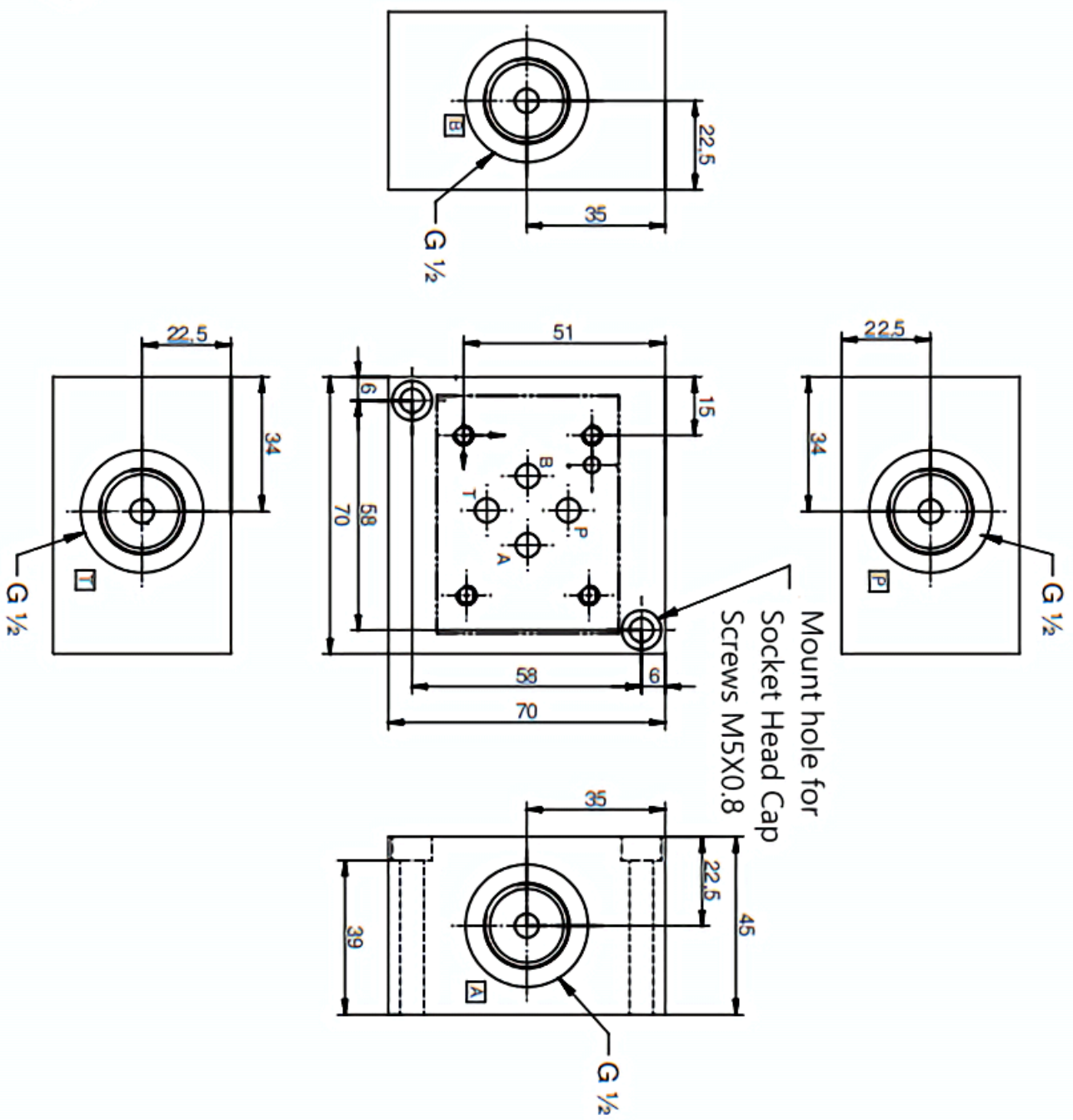
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM. Use max. ⌀16 OD tube fittings in all ports.
4. All measurements are in mm and the drawings are in the 3rd angle view.

# AGMB-07-SP02



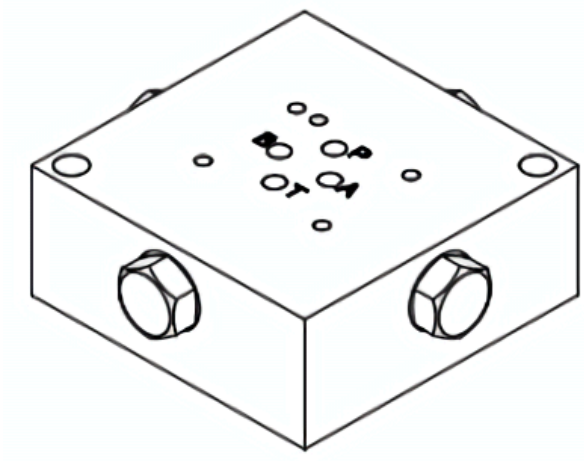

AGMFC-04

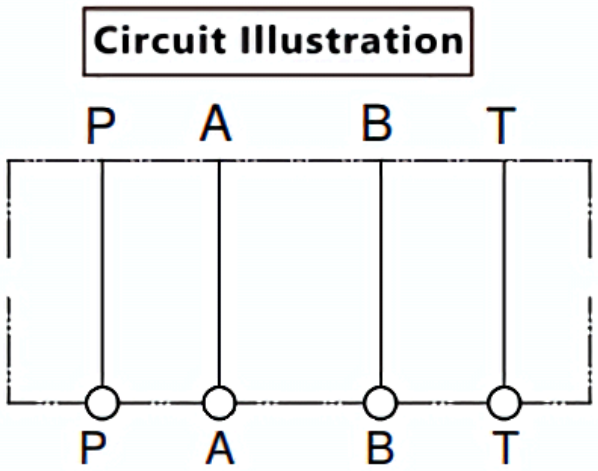



**#Notes**

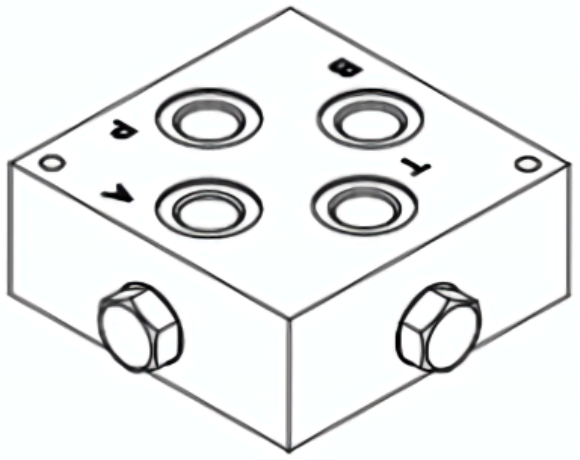
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 30LPM. Use max. ⌀20 OD tube fittings in all ports.
4. All measurements are in mm and the drawings are in the 3rd angle view.

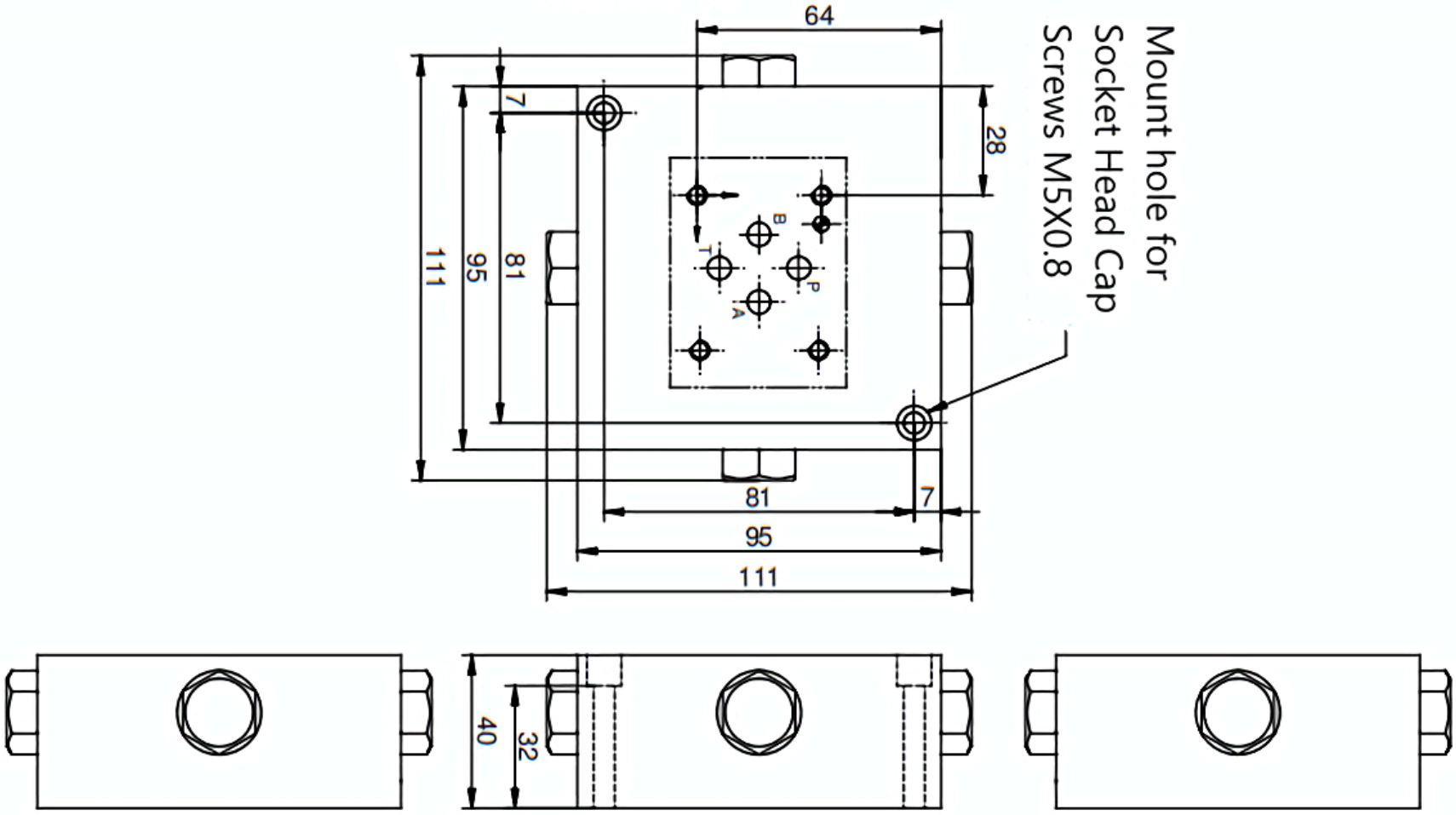
# AGMB-08-BP01

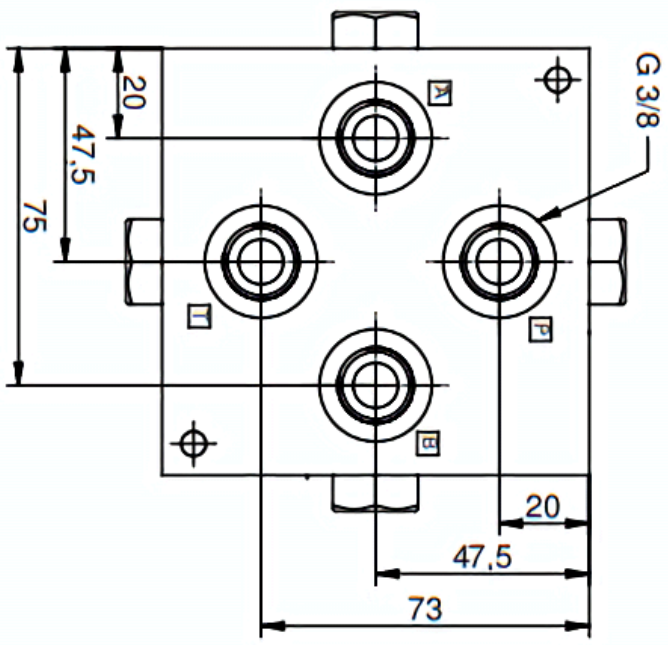





AGMFC-05






**#Notes**

1. Blocks are in fully blackodised and unpainted condition and with necessary HP plugs fitted.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM.
4. Use max. ⌀12 OD tube fittings in ports - P, A & B. For port T ⌀12 OD fitting can be used.
5. All measurements are in mm and the drawings are in the 3rd angle view.

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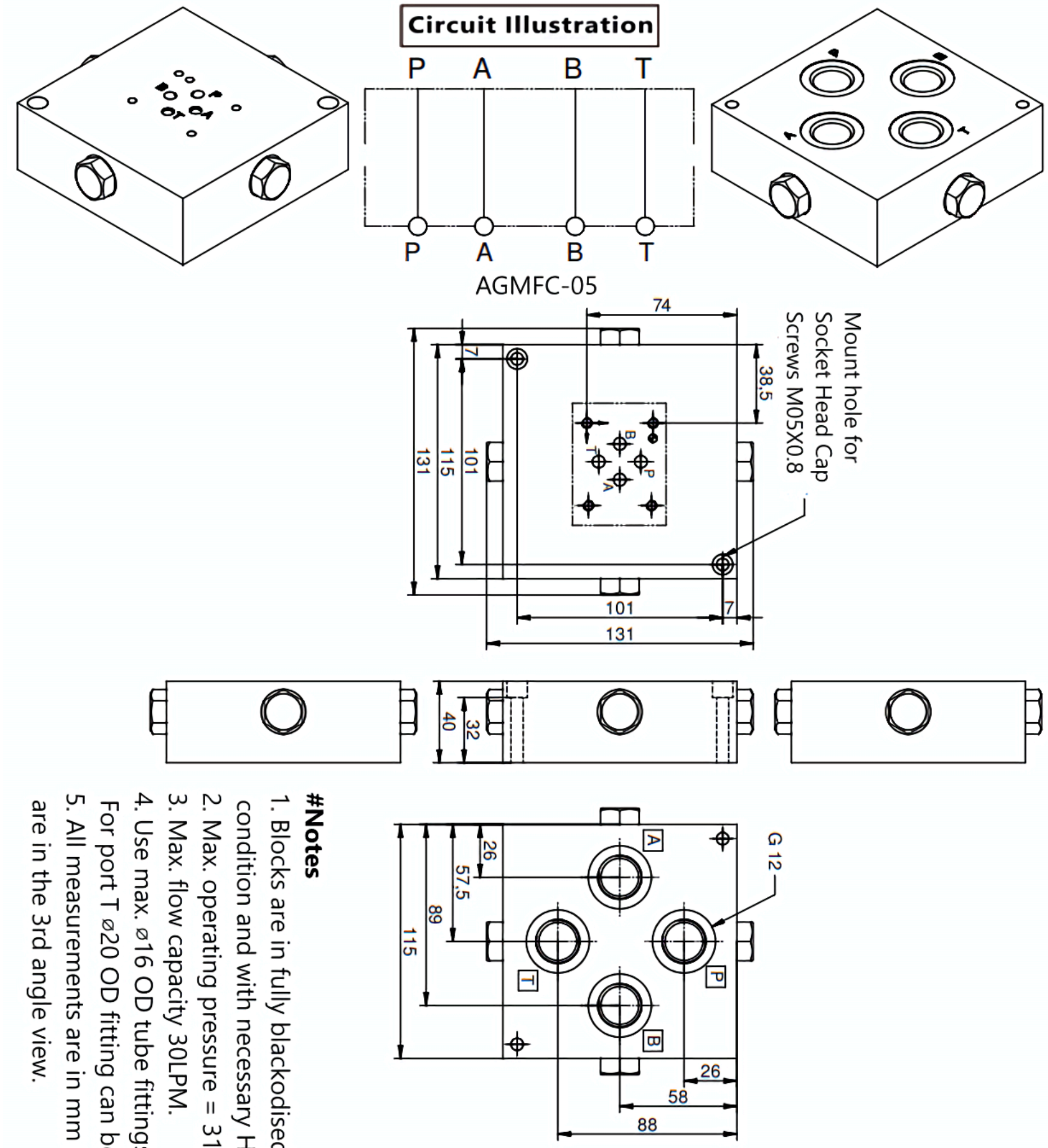
# AGMB-09-BP02

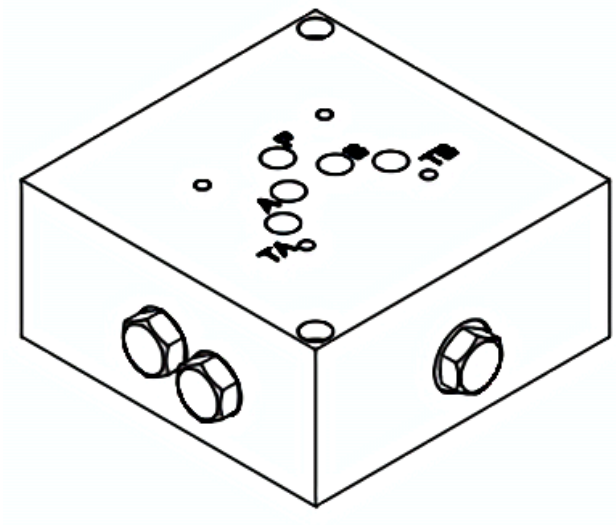


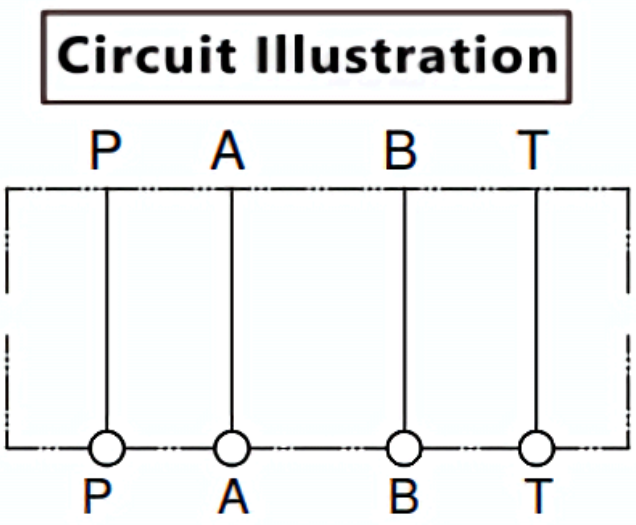

**#Notes**

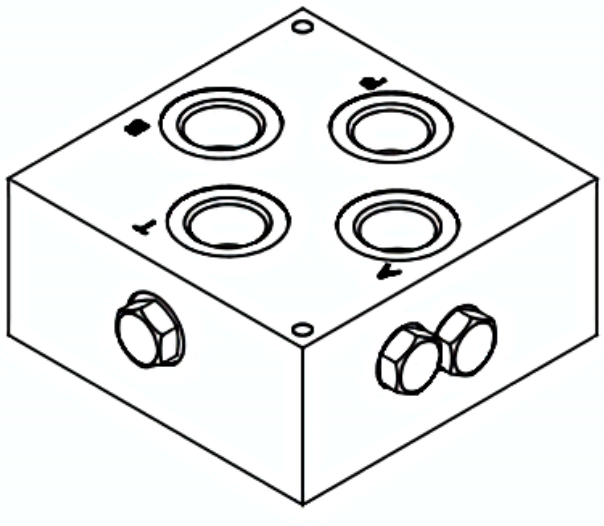
1. Blocks are in fully blackodised and unpainted condition and with necessary HP plugs fitted.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 30LPM.
4. Use max. ⌀16 OD tube fittings in ports P, A & B. For port T ⌀20 OD fitting can be used.
5. All measurements are in mm and the drawings are in the 3rd angle view.

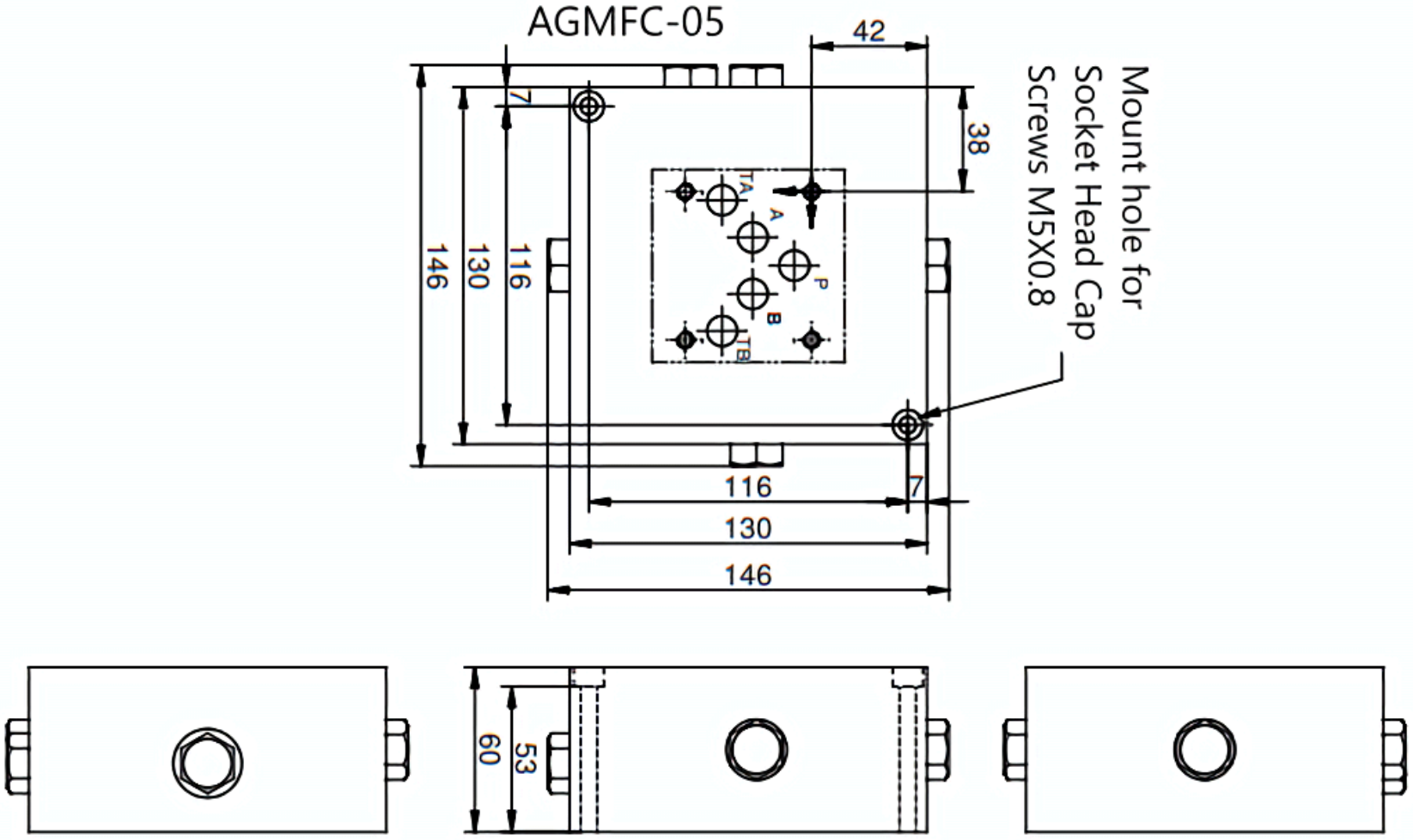
AGNI

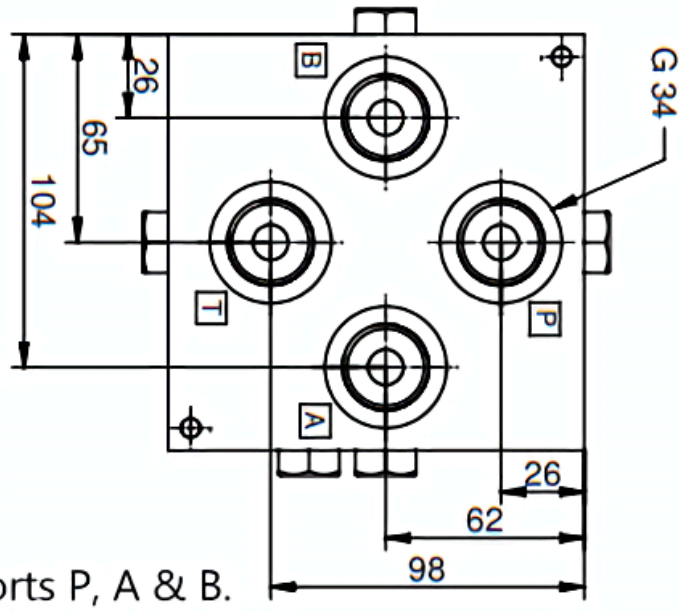
# AGMB-10-BP03





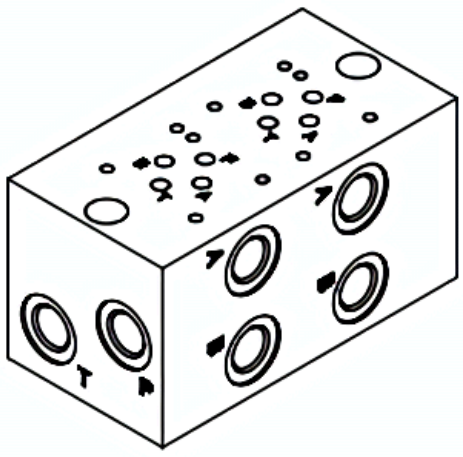


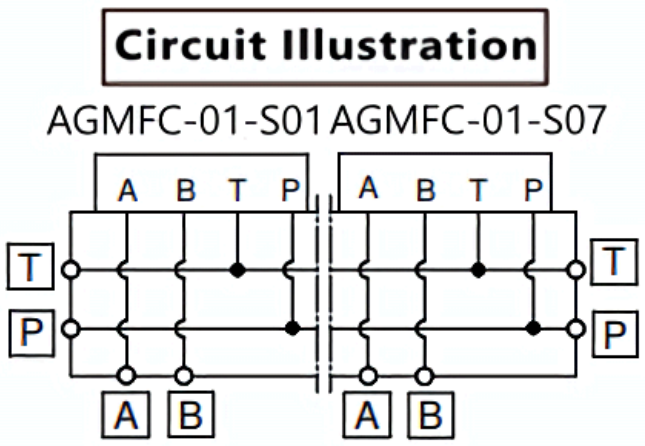



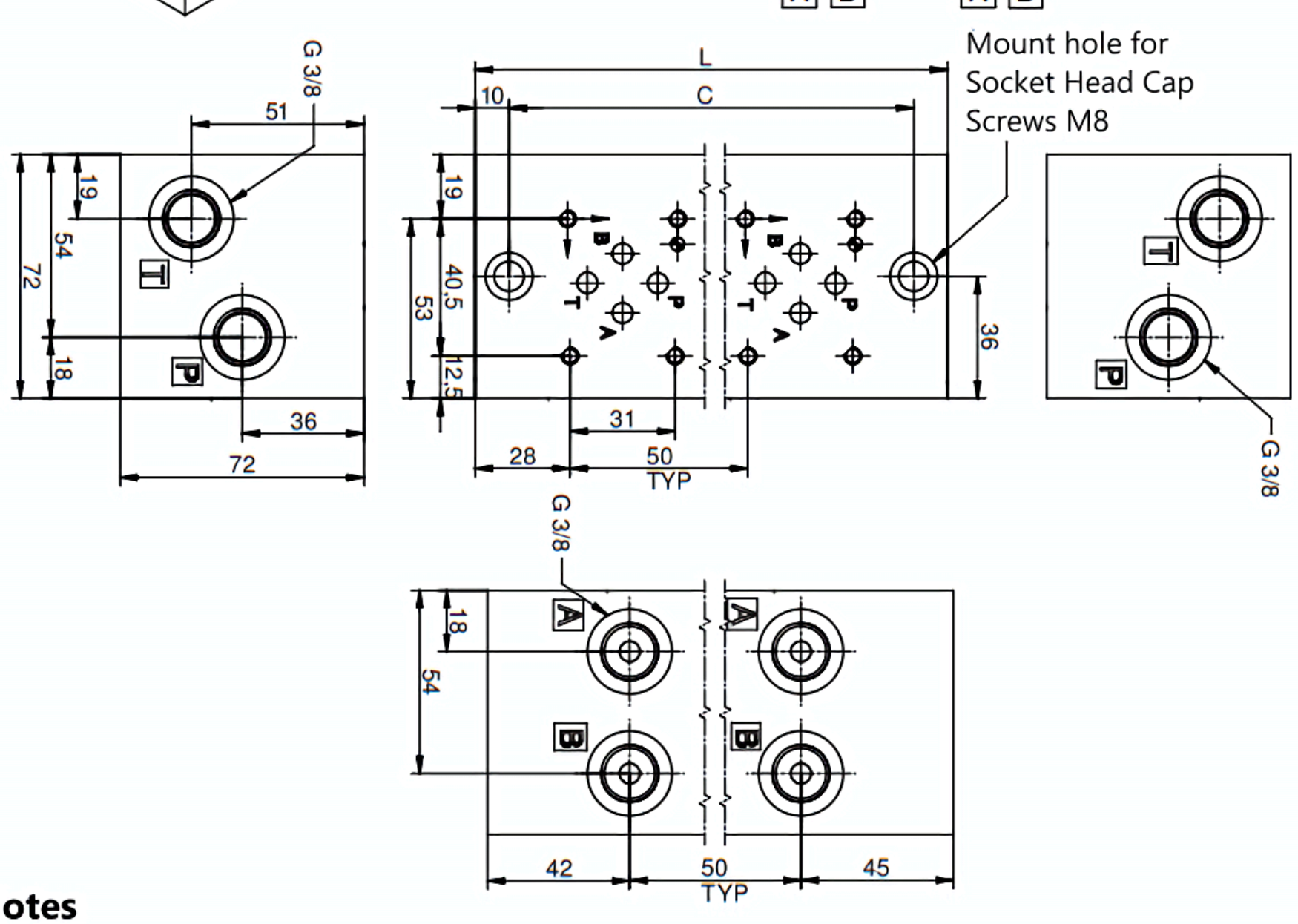

**#Notes**

1. Blocks are in fully blackodised and unpainted condition and with necessary HP plugs fitted.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 40-50 LPM.
4. Use max. ⌀20 OD tube fittings in ports P, A & B. For port T ⌀25 OD fitting can be used.
5. All measurements are in mm and the drawings are in the 3rd angle view.

# AGMB-11-MS06





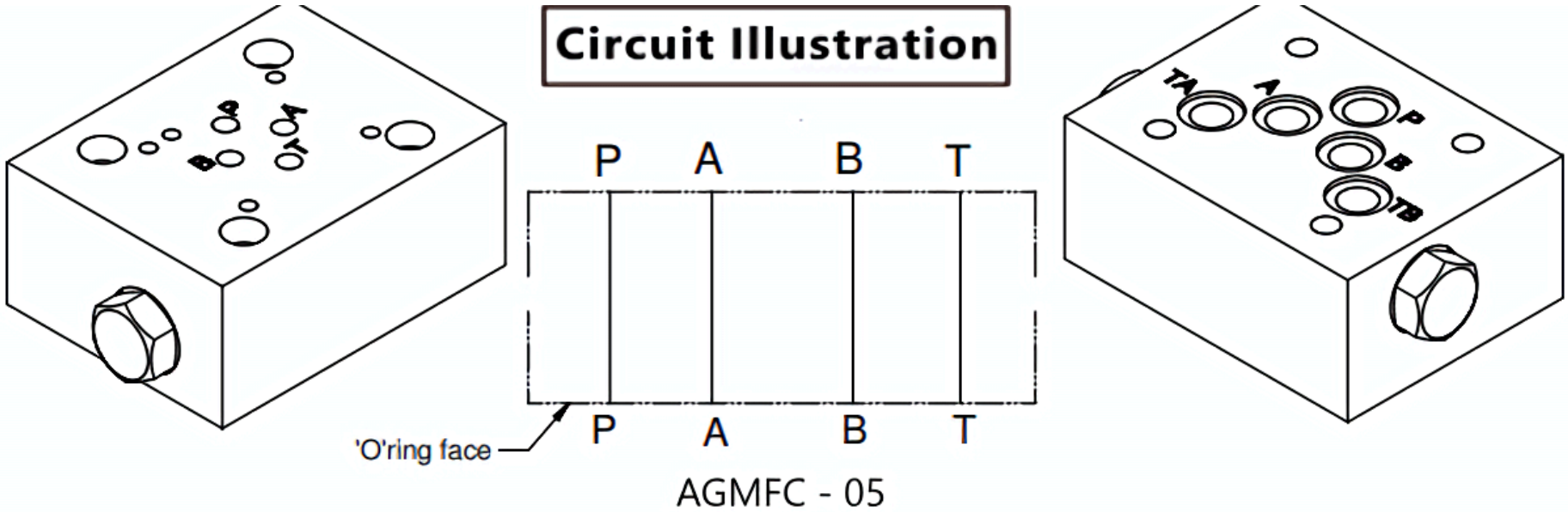




**#Notes**

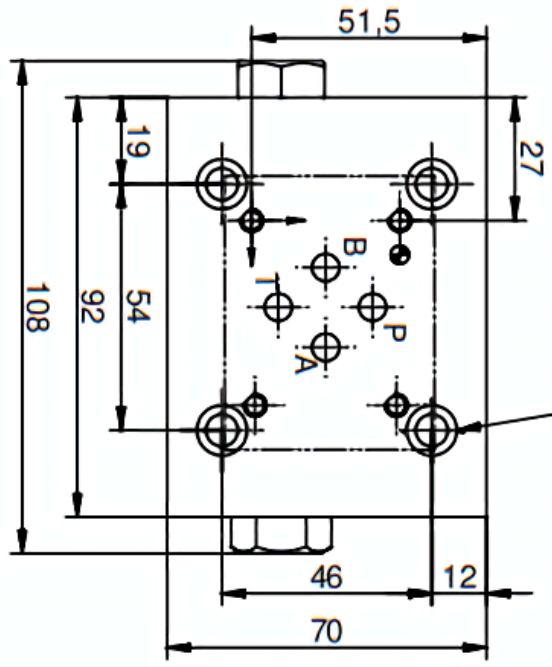
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. In case of total required flow more than 40 LPM, use both side terminals of T and P.
4. All measurements are in mm and the drawings are in the 3rd angle view.

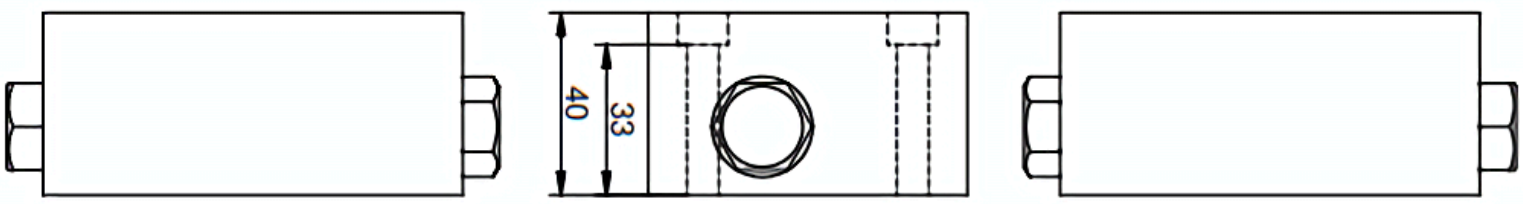
| Stations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Name | AGMB-06-MS 01-1 | AGMB-06-MS 01-2 | AGMB-06-MS 01-3 | AGMB-06-MS 01-4 | AGMB-06-MS 01-5 | AGMB-06-MS 01-6 | AGMB-06-MS 01-7 | AGMB-06-MS 01-8 | AGMB-06-MS 01-9 | AGMB-06-MS 01-10 |
| L | 80 | 130 | 180 | 230 | 280 | 330 | 380 | 430 | 480 | 530 |
| C | 68 | 118 | 168 | 218 | 268 | 318 | 368 | 418 | 468 | 518 |

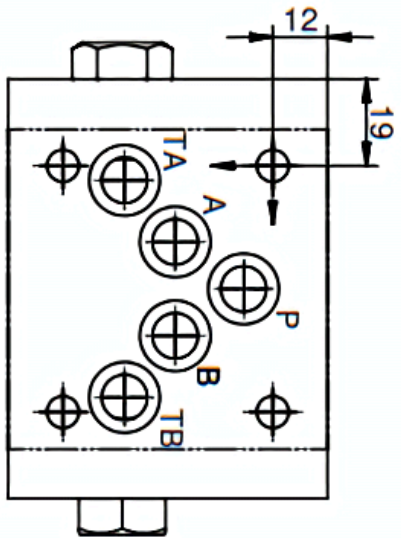
# AGMB-12-BP04




AGMFC - 05



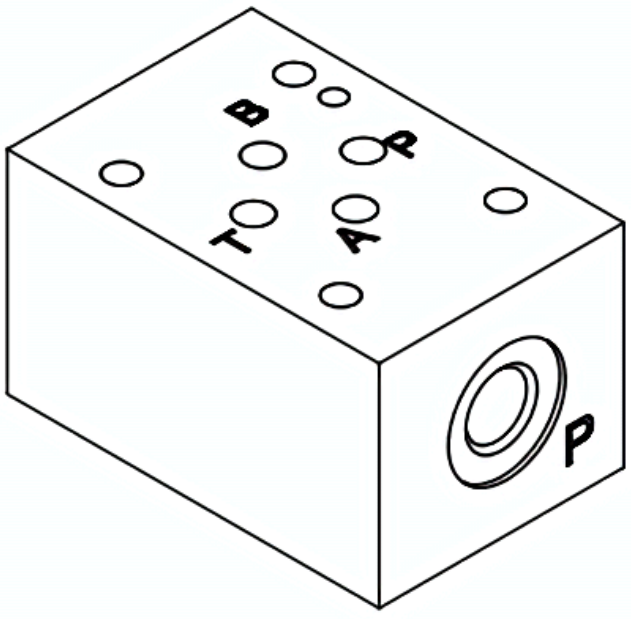



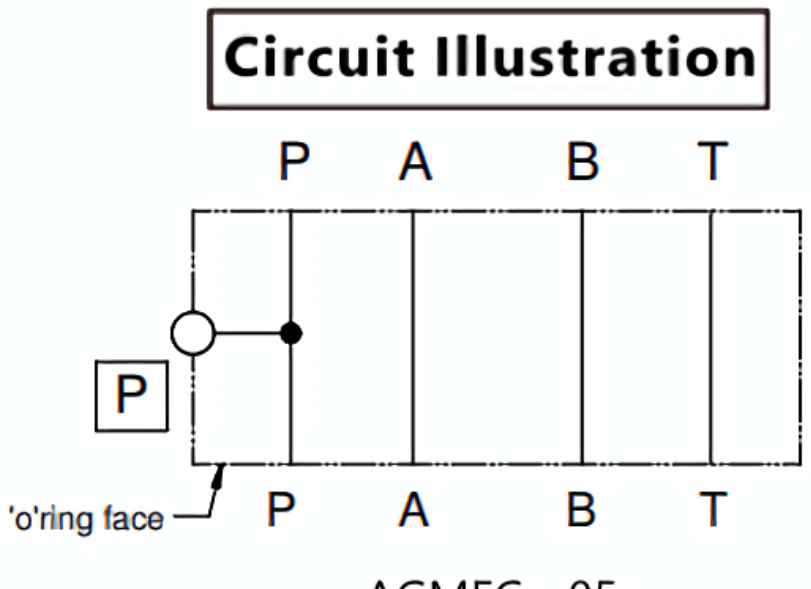




**#Notes**

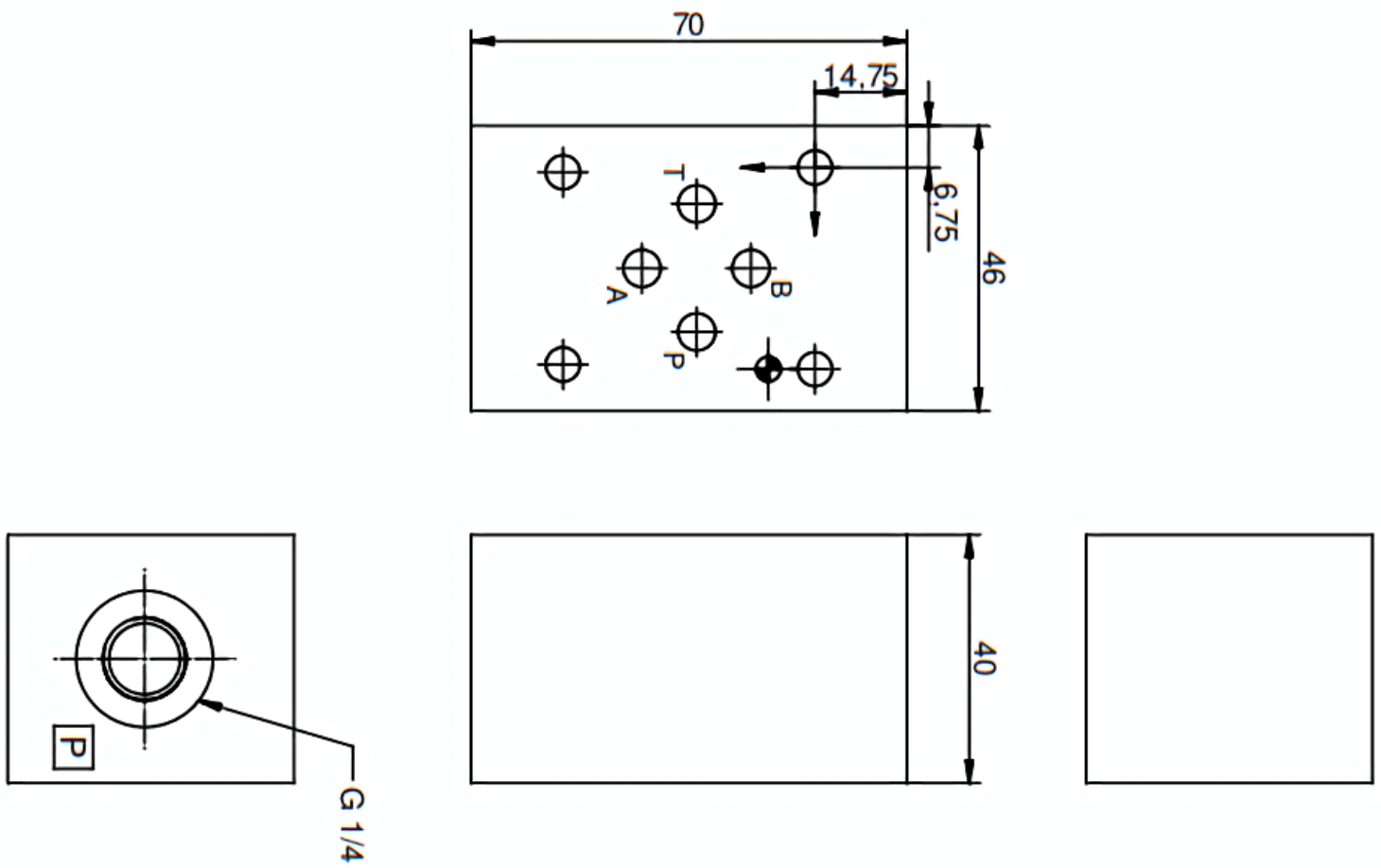
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 30LPM. Block supllied with O'rin necessary HP plugs fitted.
4. All measurements are in mm and the drawings are in the 3rd angle view.

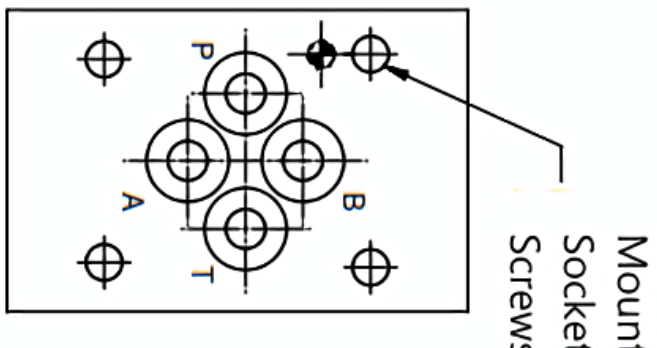
# AGMB-13-TL01



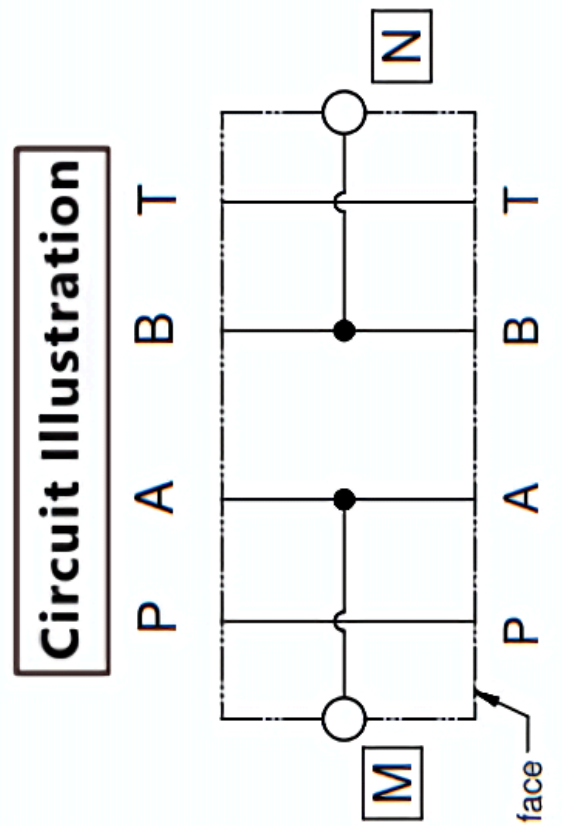

AGMFC - 05



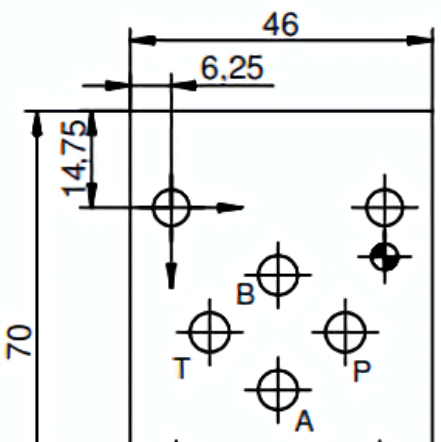



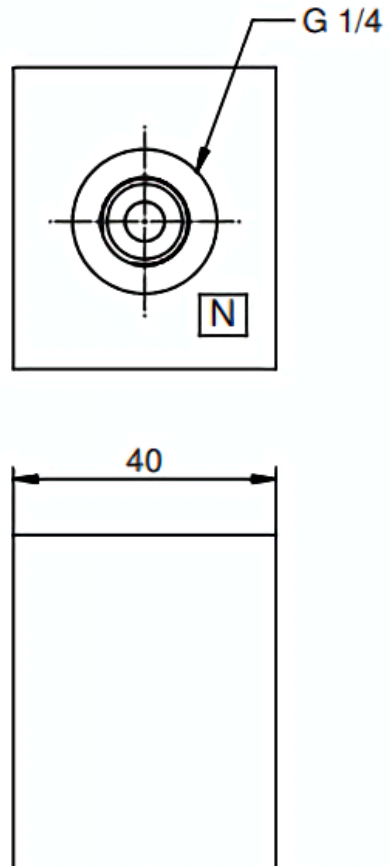

**#Notes**

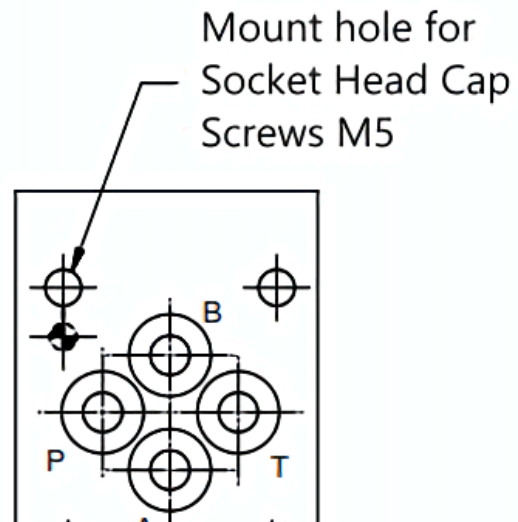
1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM. Use max. ⌀10 OD tube fitting or minimess coupling.
4. Supplied with O'rings.

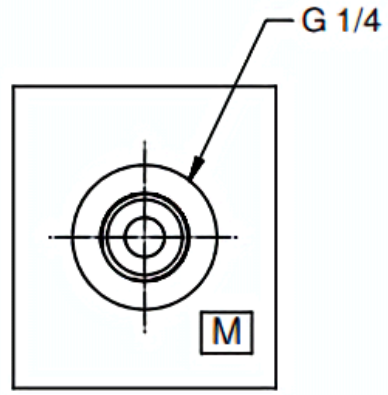


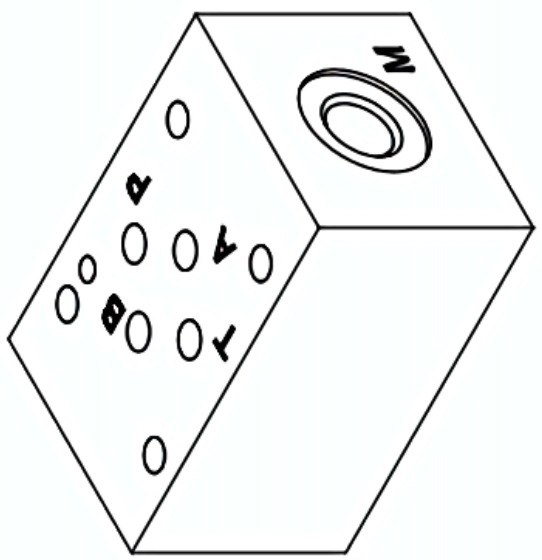





**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

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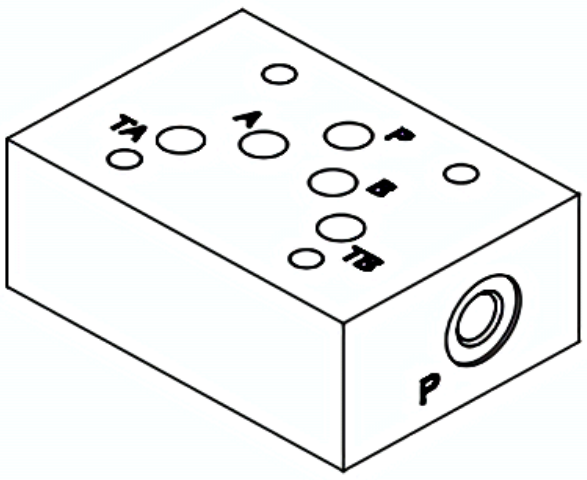
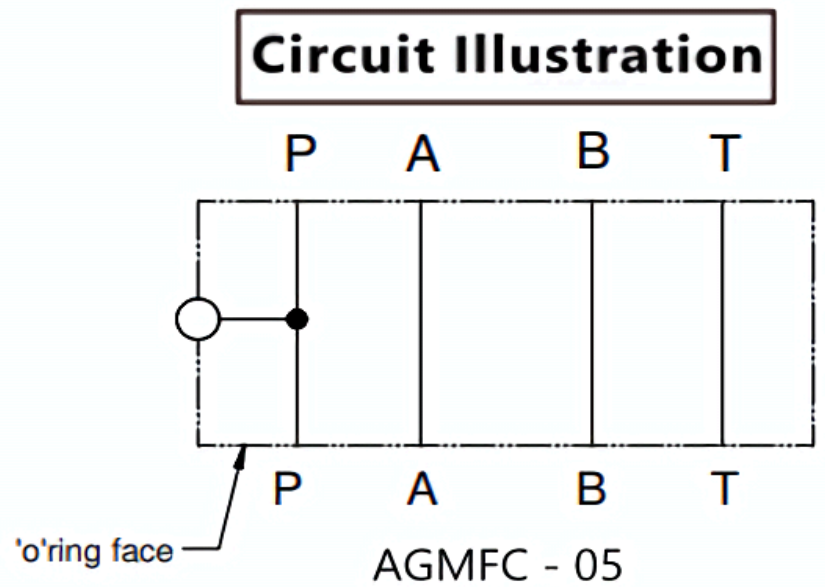
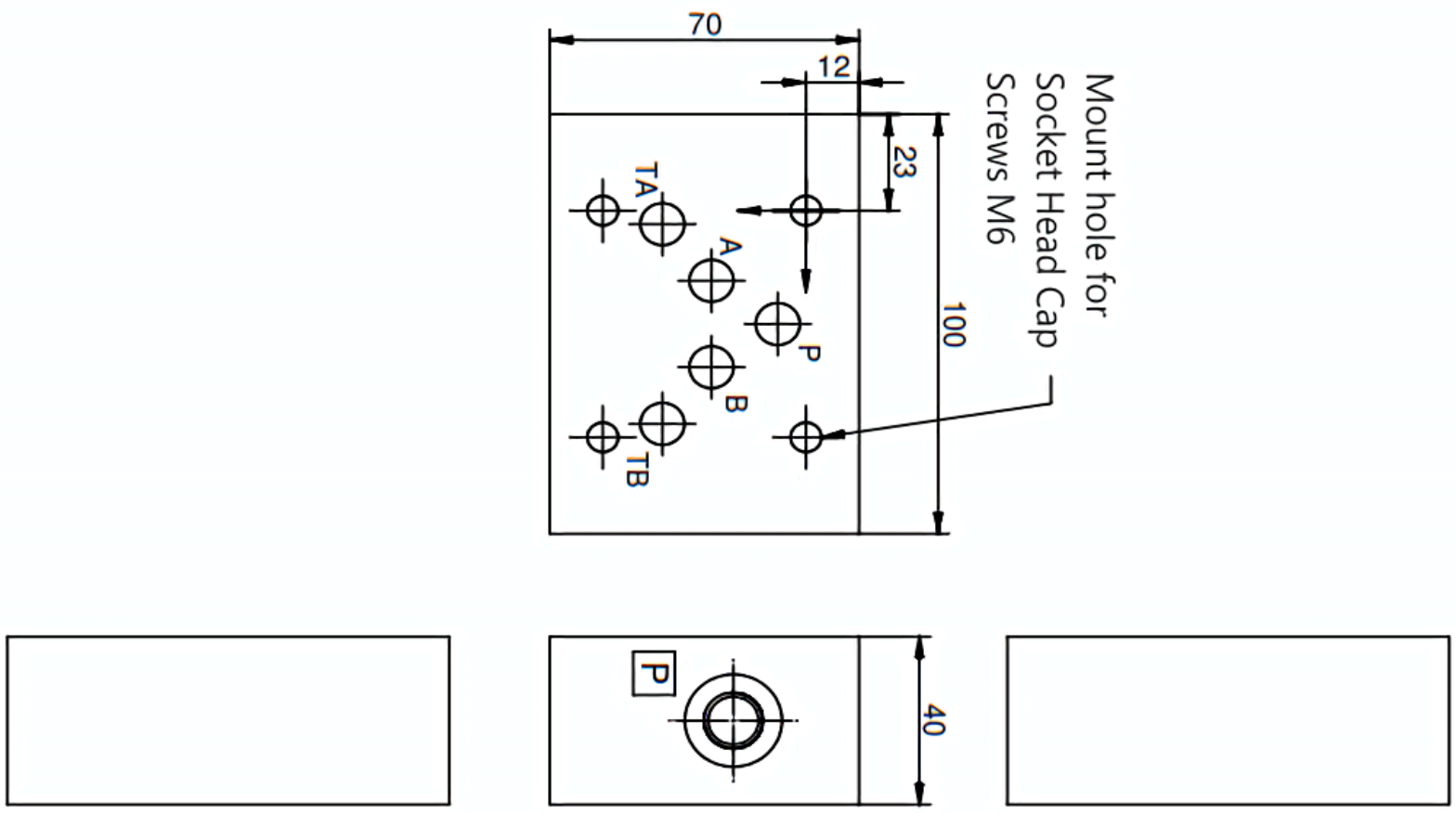
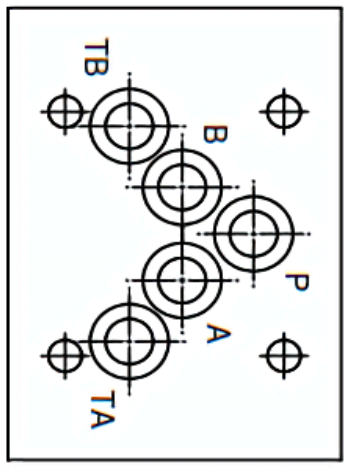
AGMB-14-TL02

# AGMB-15-TL03



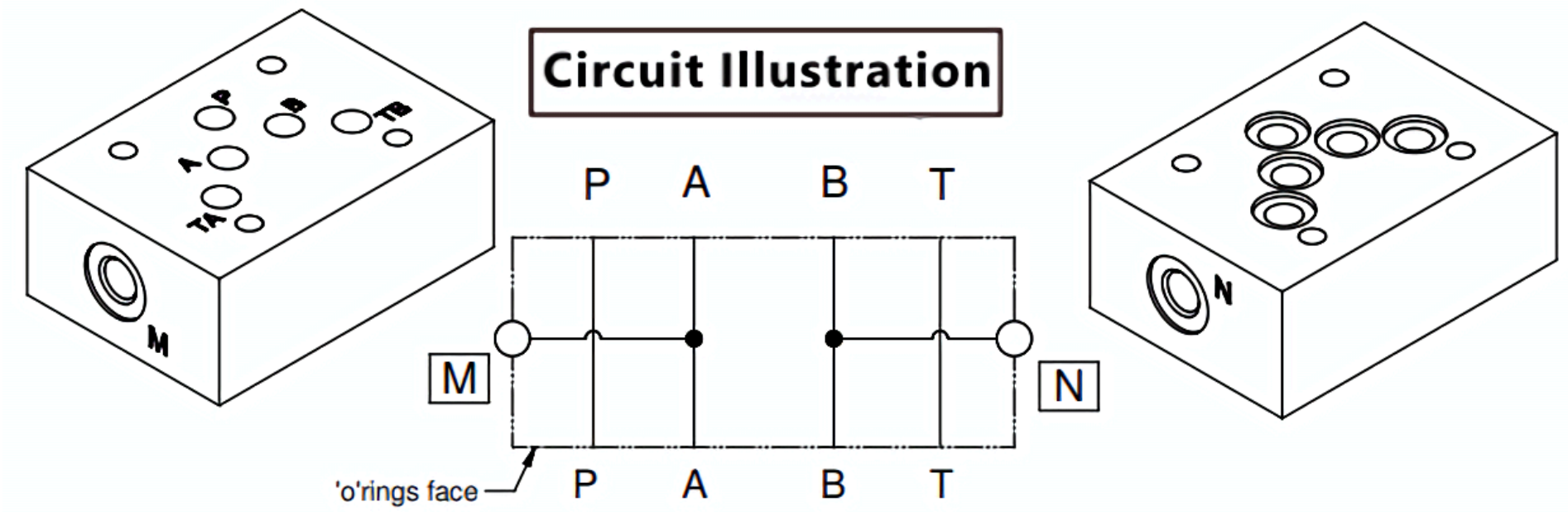



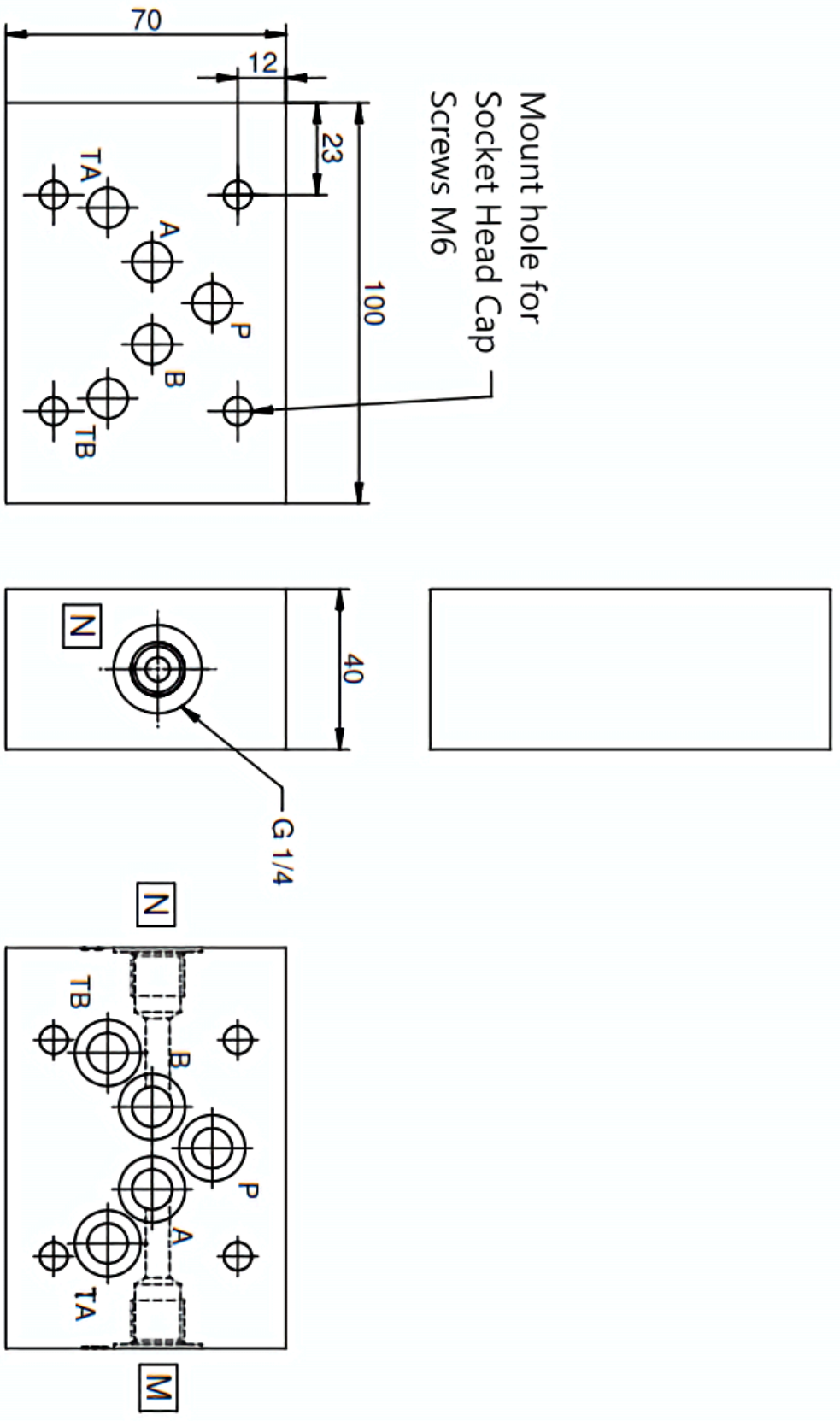

**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 40 to 50LPM. Use max. ⌀10 OD tube fittings or Minimess coupling.
4. Supplied with O'rings.

# AGMB-16-TL04



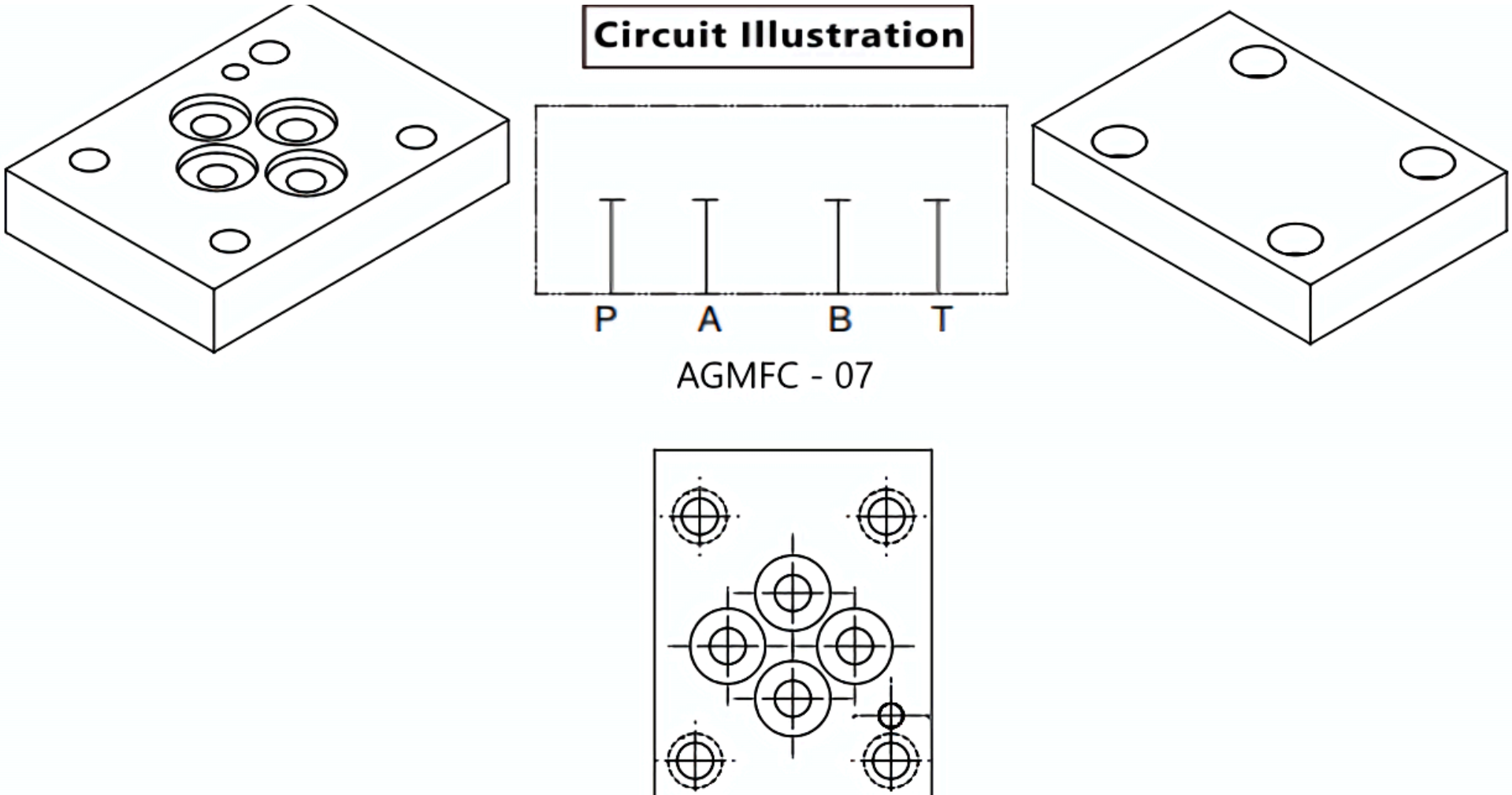

## AGMFC - 06




**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 40 to 50LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

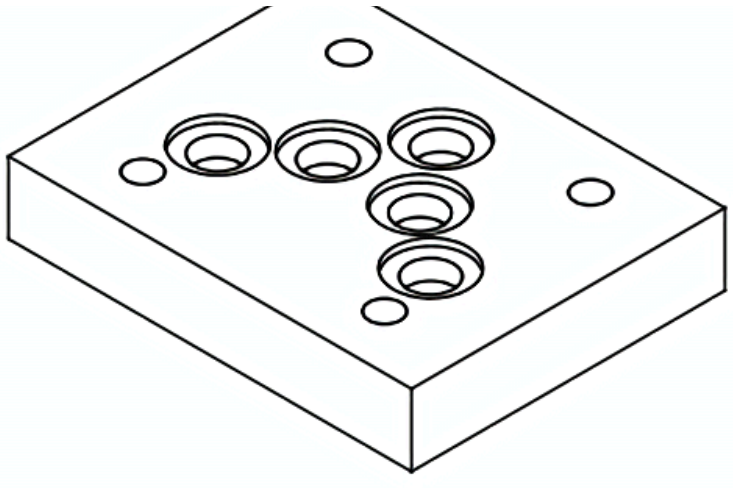
# AGMB-17-BL01

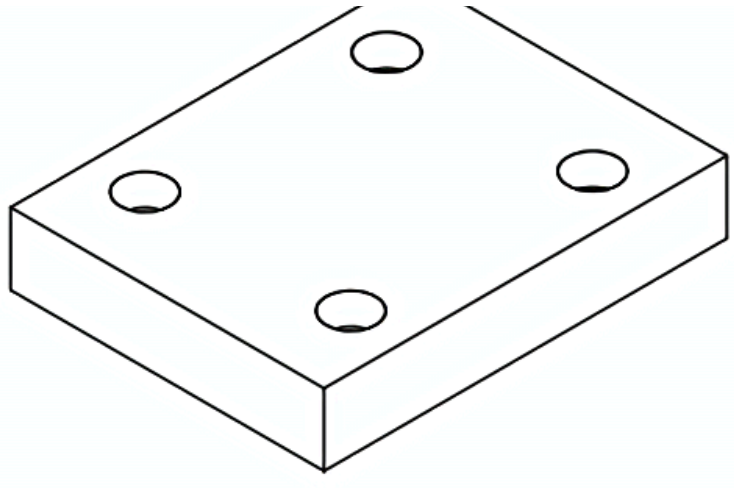


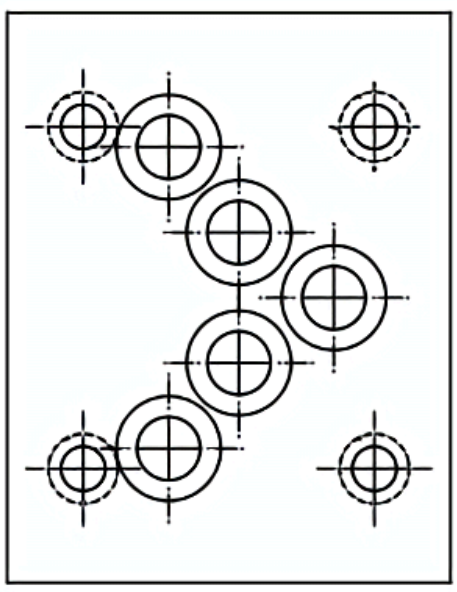

**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Supllied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

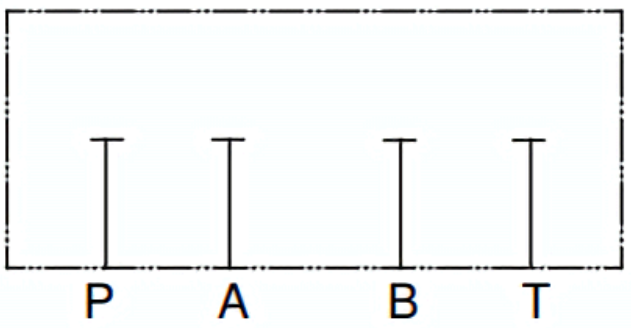
# AGMB-18-BL02



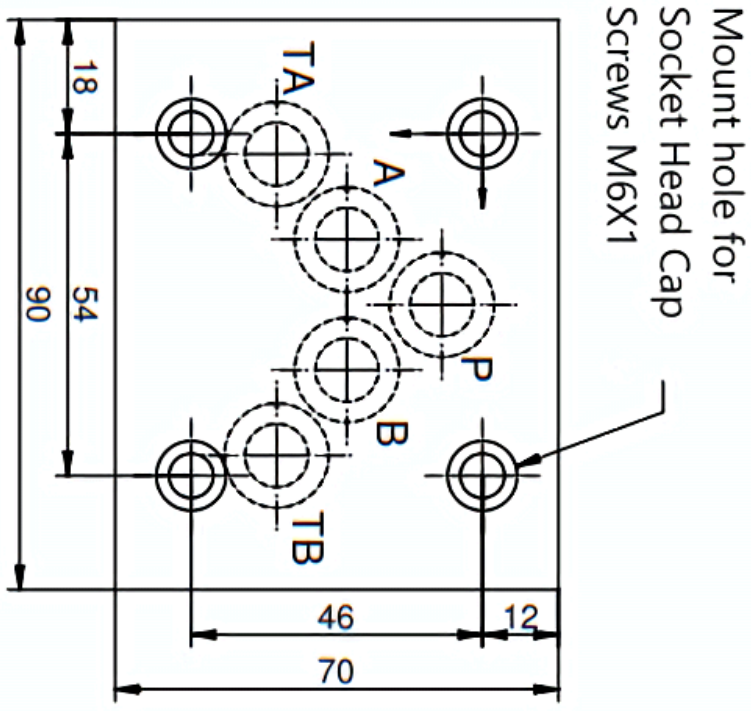




**Circuit Illustration**



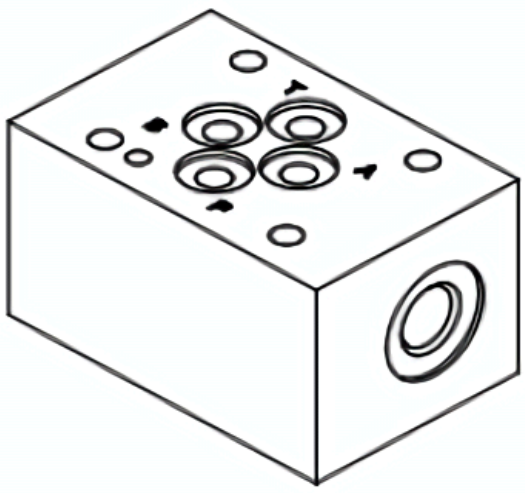

AGMFC - 07

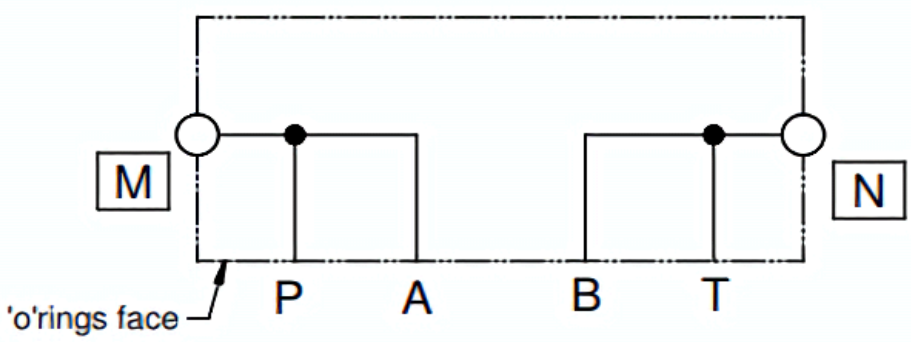

**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Supplied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

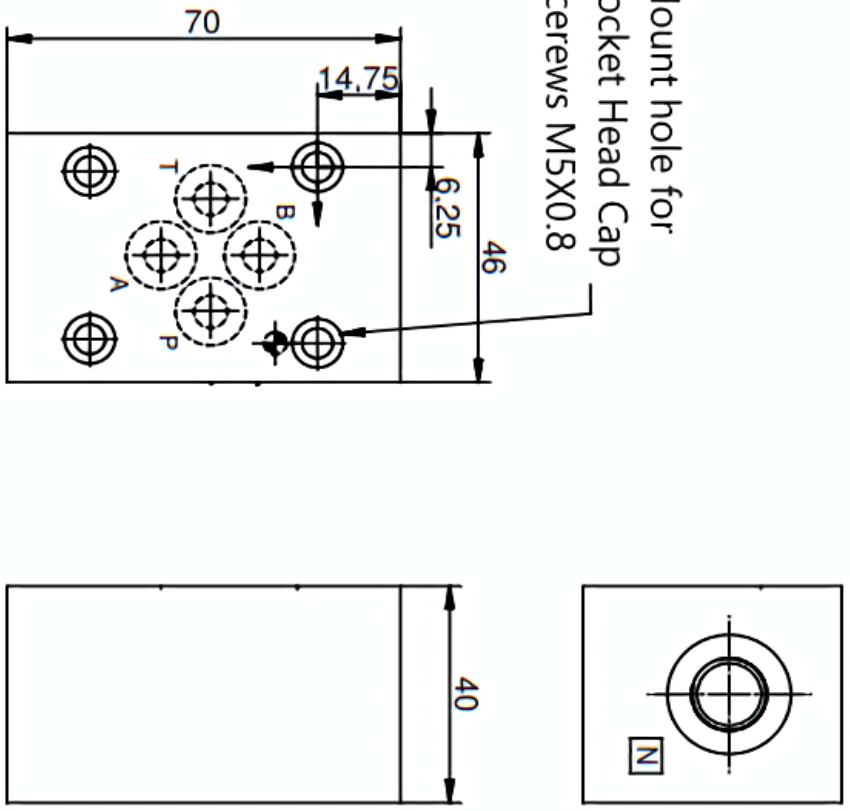
# AGMB-19-COP02

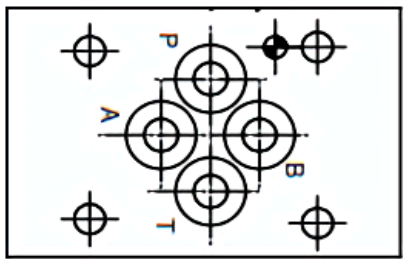


## Circuit Illustration




AGMFC - 08

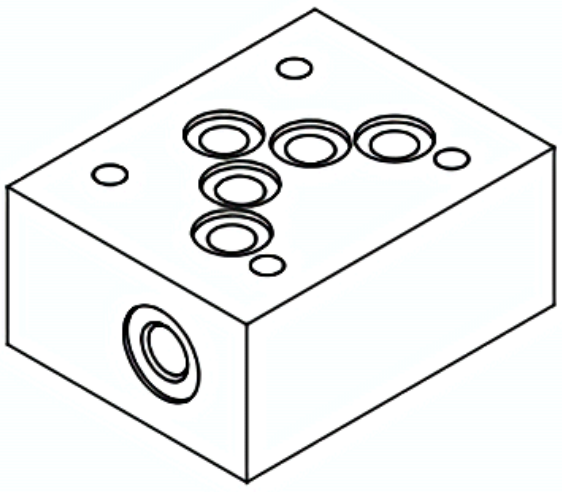


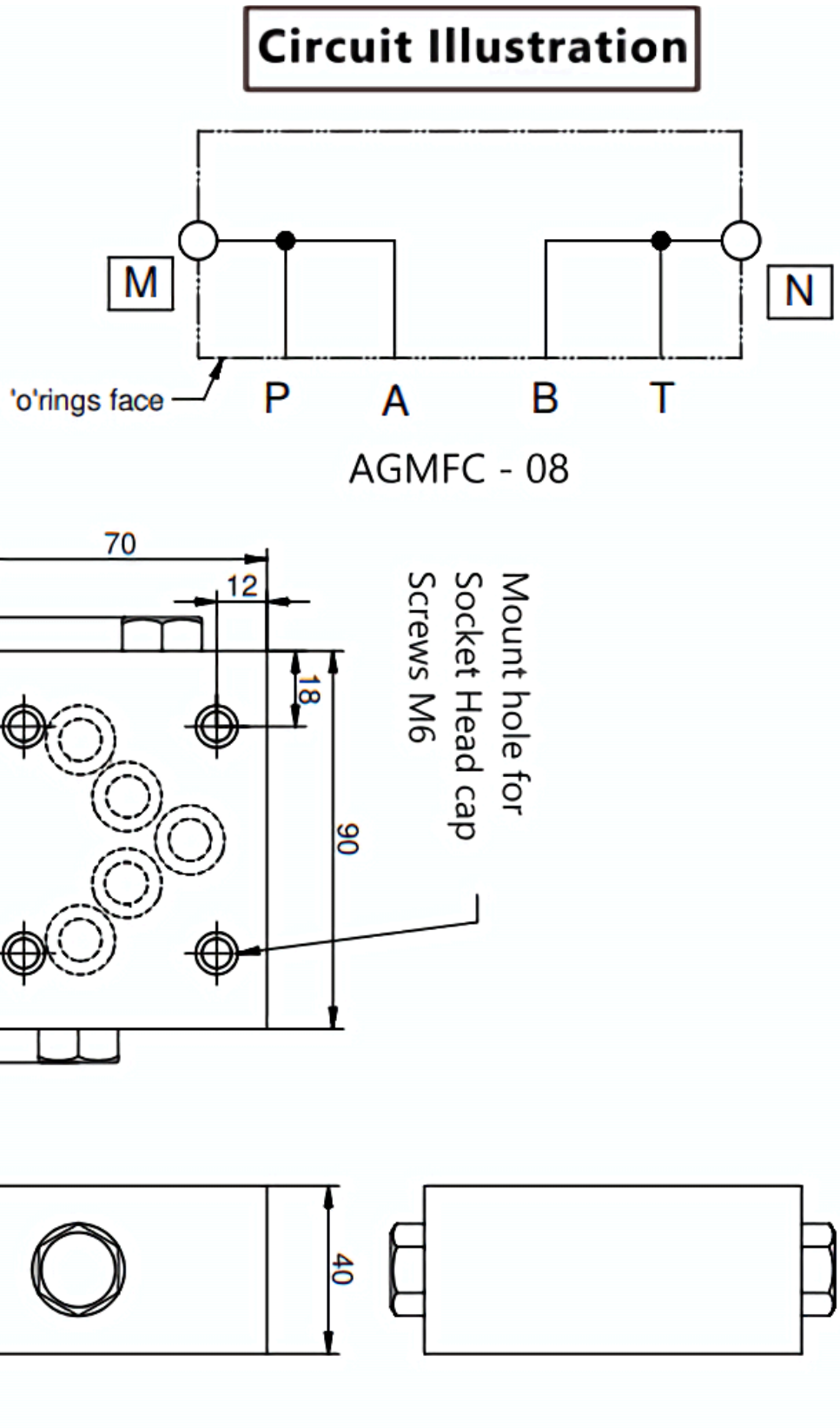



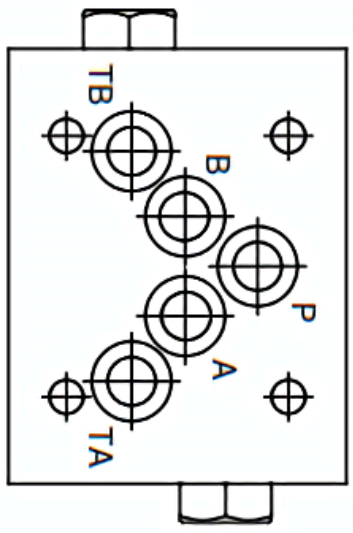

**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

# AGMB-20-COP02






**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 40 to 50LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings and necessary HP plugs fitted.
4. All measurements are in mm and the drawings are in the 3rd angle view.

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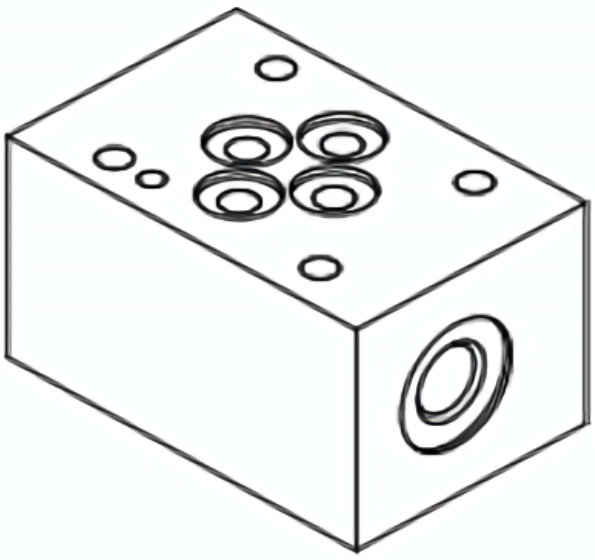
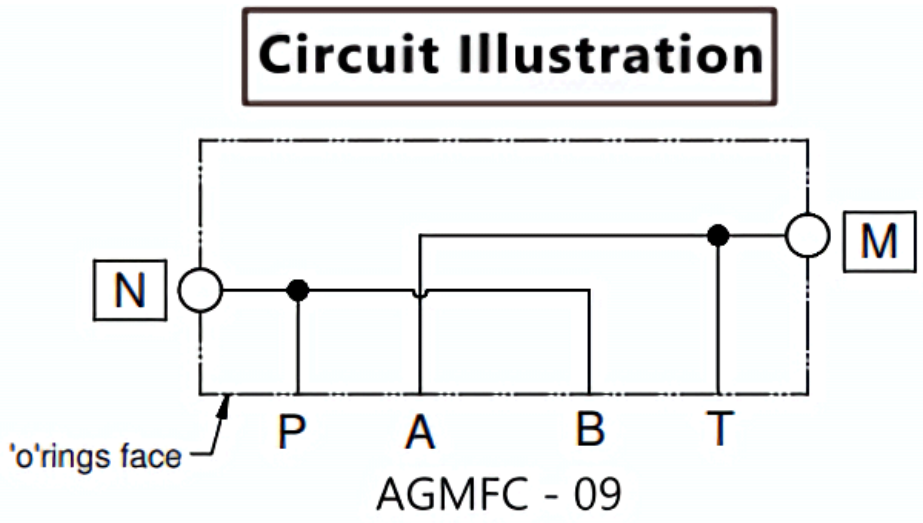
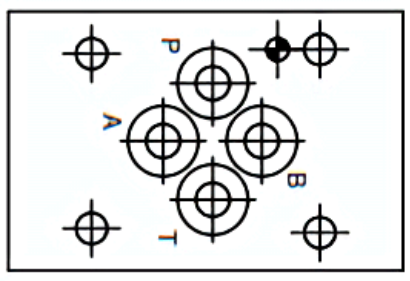
# AGMB-21-COP03





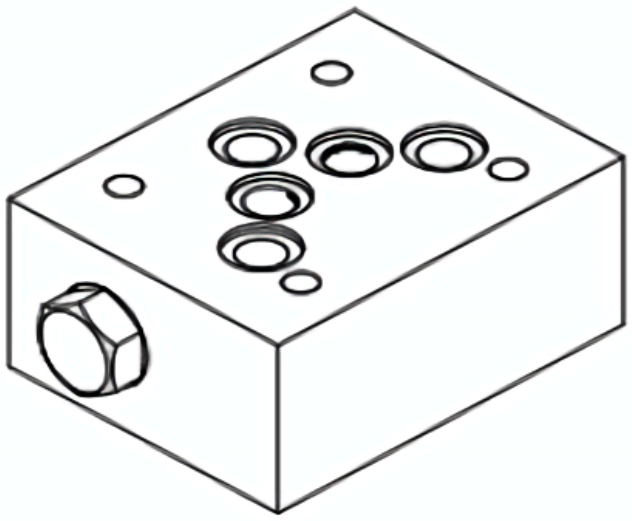


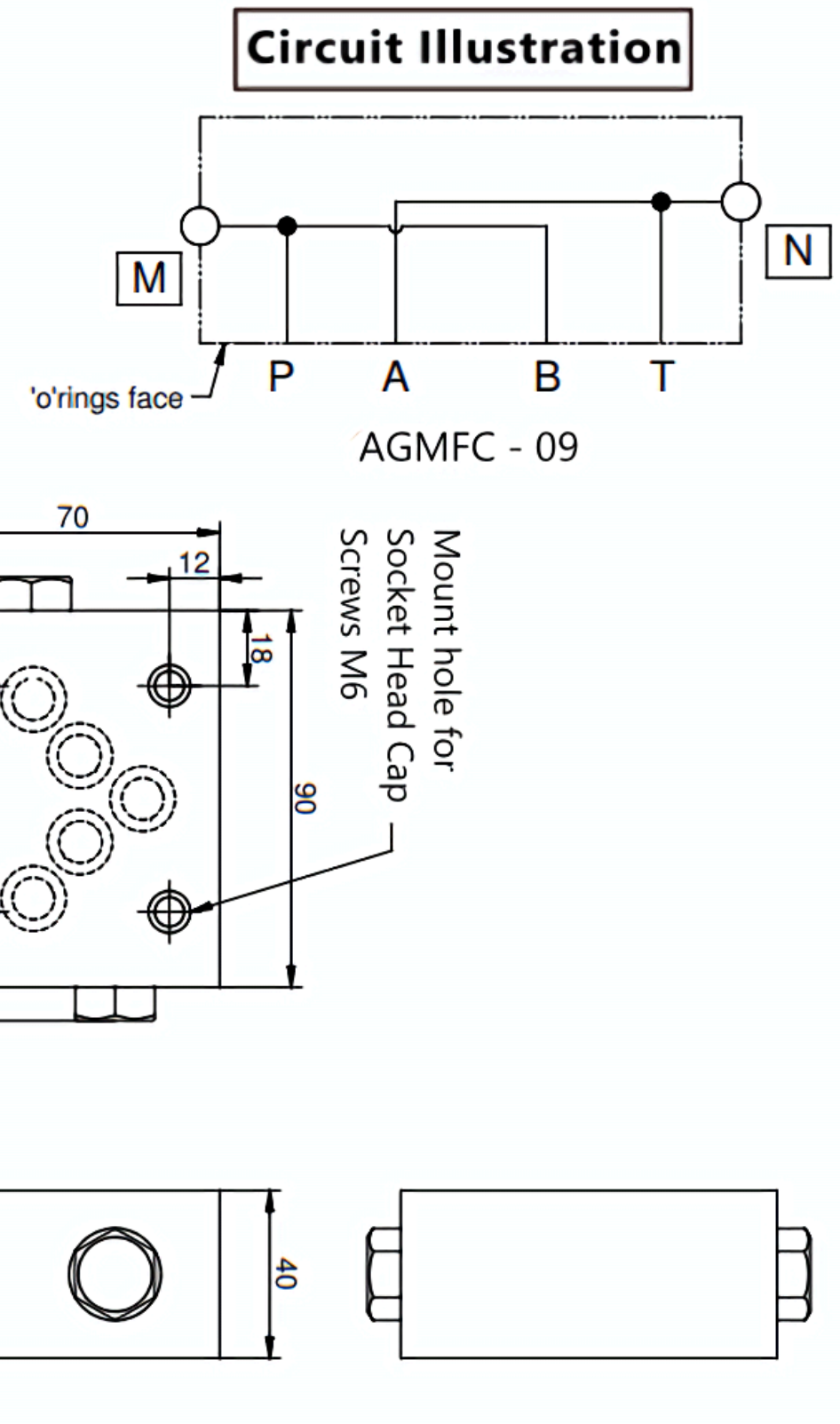


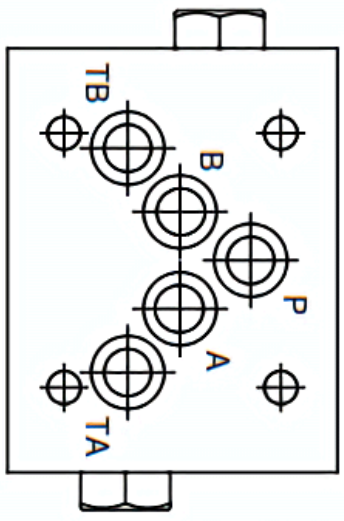

**#Notes**

1. Blocks are in fully blackodised
 and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 20LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings.
4. All measurements are in mm and the drawings are in the 3rd angle view.

# AGMB-22-COP04






**#Notes**

1. Blocks are in fully blackodised and unpainted condition.
2. Max. operating pressure = 310 Bar
3. Max. flow capacity 40 to 50LPM. Use max. ⌀10 OD tube fittings in M and N or Minimess Coupling.
4. Supplied with O'rings and with necessary HP plugs fitted
4. All measurements are in mm and the drawings are in the 3rd angle view.

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