

# HYDRAULIC SERVICE MANIFOLD

Safe and predictable hydraulic control for test systems



Moog Hydraulic Service Manifold (HSM) provides an on/off isolation control to a test system or individual hydraulic actuator. The HSM provides smooth transitions of hydraulic pressure. It allows safe operation on test systems, protecting test articles from damage due to unpredictable movement.

The main control valve in the HSM features a newly designed Bushing and Spool Assembly (BSA). A single valve controls the hydraulic output in low and high pressure.

Moog HSM is designed to be working under 210 bar system pressure. The maximum rated flow capacity is ranged from 200 to 1,000 l/min. A single unit of HSM can connect with 4 control stations in maximum, and each station are controlled individually to meet the system needs.

## ADVANTAGES

- Flexibility to connect to 4 control stations
- Option of pilot pressure control and shut-off valve module
- Smooth pressure transition from low to high level and reverse
- Compact design to reduce product size and weight

## APPLICATIONS

- Hydraulic Simulation Table
- Tire Coupled Simulation System
- Multiple Axis Testing System

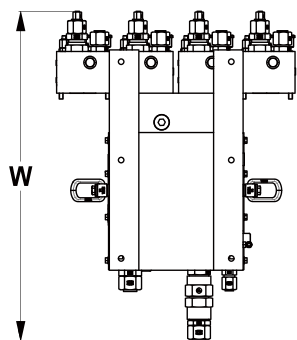


# SPECIFICATIONS

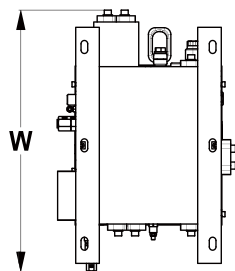
## TECHNICAL DATA

	HSM200	HSM400	HSM1000
Number of station	1 to 4	1 to 4	1
Rated flow	200 l/min	400 l/min	1,000 l/min
Rated pressure	210 bar	210 bar	210 bar
<b>Filtration</b>			
Pressure line filter	20 µm	20 µm	20 µm
Pilot line filter	3 µm	3 µm	3 µm
<b>Accumulation</b>			
Pressure line	6 l	6 l	10 l
Return line	2.5 l	2.5 l	6 l
Pilot line	0.5 l	0.5 l	0.5 l
Soft shift function	0.32 l	0.32 l	0.32 l

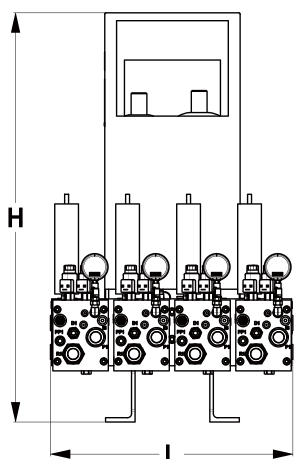
## DIMENSIONS



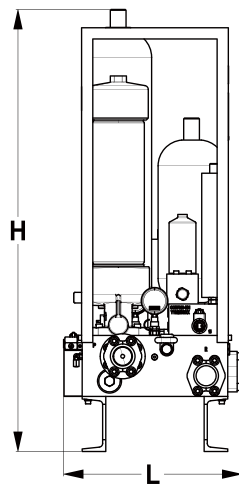
HSM200, HSM400 (Bottom View)



HSM1000 (Bottom View)



HSM200, HSM400 (Front View)



HSM1000 (Front View)

Model	Number of station	L (mm)	W (mm)	H (mm)
HSM200	1	536	618	1,030
	2	536	705	1,025
	3	578	705	1,025
	4	616	705	1,025
HSM400	1	536	760	1,040
	2	536	838	1,040
	3	574	838	1,040
	4	616	838	1,040
HSM1000	1	466	672	1,121

Moog has offices around the world. For more information or the office nearest you, contact us online.

[info@moog.com](mailto:info@moog.com)

[www.moog.com/industrial](http://www.moog.com/industrial)

Moog is a registered trademark of Moog Inc. and its subsidiaries. All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries. ©2022 Moog Inc. All rights reserved. All changes are reserved.

This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

Hydraulic Service Manifold  
MSH/Rev.-, December 2022, CDL 66818-en

**MOOG**