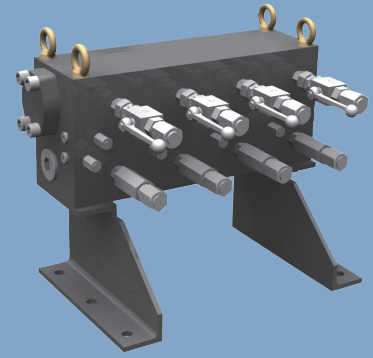


# Hydraulic Distribution Manifold

Distribute hydraulic power to downstream devices



## Product Overview

The Moog Hydraulic Distribution Manifold (HDM) is designed to facilitate hydraulic power distribution in aerospace, automotive, and other test systems. HDM connects in between a hydraulic power source, such as Hydraulic Service Manifold (HSM) or Hydraulic Power Unit (HPU), and downstream hydraulic devices, for example hydraulic actuators. It helps the test facilities layout the hydraulic circuitry in a simple and neat structure.

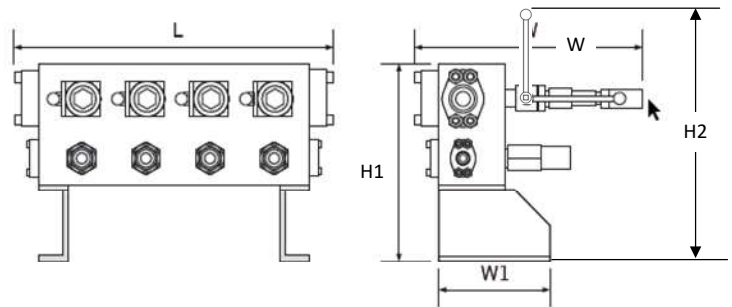
Features	Benefits
3 levels of flow rate design	Adjustable for different sizes of hydraulic sources
210 bar (3,000 psi) system pressure	Used in high pressure power source systems
Up to 8 outlet ports	Flexible selection for specific application
Quick coupling hydraulic fittings	Quick and easy to plug and unplug hydraulic hoses
Pilot pressure and drain connections	Supply of pilot pressure for hydraulic devices

## TYPICAL APPLICATIONS

Different models are designed for specific application, typically HDM can be used in:

- Aero and static testing
- Dynamic and large flow system
- General piping and HPU splitting

## Dimensions



Model	Outlet Quantity	L	W	Handle		W1
				Open	Closed	
				H1	H2	
-050-1490-1XX	4	19.3	13.29	13.68	17.76	10
	6	27.3	13.29	13.68	17.76	10
	8	35.3	13.29	13.68	17.76	10
-050-1490-2XX	4	17.38	14.68	13.76	17.97	11
	6	25.88	14.68	13.76	17.97	11
	8	34.38	14.68	13.76	17.97	11
-050-1490-4XJ	2	13.97	18.34	16.06	21.66	12
	4	25.97	18.34	16.06	21.66	12
	6	37.97	18.34	16.06	21.66	12
-050-1490-LINK	2	22.06	19.17	14.8	20.39	12

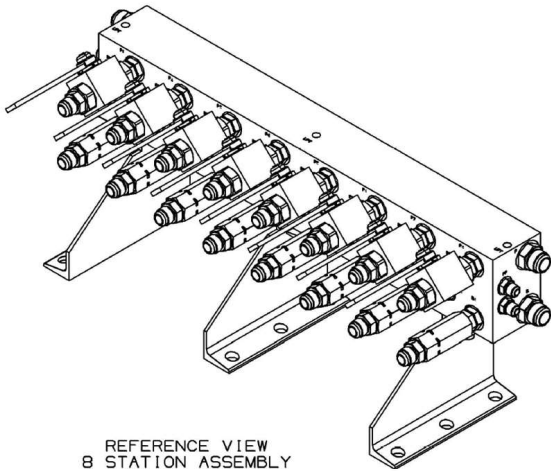
# SPECIFICATIONS

## Specifications

Model Number	Rated Flow	System Pressure	Inlet Ports				Outlet Ports			
			Pressure	Return	Drain	Pilot Pressure	Pressure	Return	Drain	Pilot Pressure
-050-1490-1XJ	100 lpm (26 gpm)	210 bar (3,000 psi)	SAE-16 37° Flare	SAE-16 37° Flare	SAE-8 37° Flare	SAE-8 37° Flare	SAE-12 37° Flare	SAE-12 37° Flare	SAE-6 37° Flare	SAE-6 37° Flare
-050-1490-2XJ	200 lpm (52 gpm)	210 bar (3,000 psi)	SAE-24 37° Flare	SAE-24 37° Flare	SAE-8 37° Flare	SAE-8 37° Flare	SAE-16 37° Flare	SAE-16 37° Flare	SAE-6 37° Flare	SAE-6 37° Flare
-050-1490-4XJ	400 lpm (105 gpm)	210 bar (3,000 psi)	2 inch Code 61 Type 1 Per ISO 6162	2 inch Code 61 Type 1 Per ISO 6162	SAE-8 37° Flare	SAE-8 37° Flare	SAE-24 37° Flare	SAE-24 37° Flare	SAE-6 37° Flare	SAE-6 37° Flare
-050-1490-1XD	100 lpm (26 gpm)	210 bar (3,000 psi)	SAE-16 37° Flare	SAE-16 37° Flare	SAE-8 37° Flare	SAE-8 37° Flare	.75 inch Quick Disconnect Coupler ISO 7241 Series A	.75 inch Quick Disconnect Nipple ISO 7241 Series A	SAE-6 37° Flare	SAE-6 37° Flare
-050-1490-2XD	200 lpm (105 gpm)	210 bar (3,000 psi)	SAE-24 37° Flare	SAE-24 37° Flare	SAE-8 37° Flare	SAE-8 37° Flare	1 inch Quick Disconnect Coupler ISO 7241 Series A	1 inch Quick Disconnect Nipple ISO 7241 Series A	SAE-6 37° Flare	SAE-6 37° Flare
-050-1490-LINK	880 lpm (230 gpm)	210 bar (3,000 psi)	2 inch Code 61 Type 1 Per ISO 6162	2 inch Code 61 Type 1 Per ISO 6162	SAE-8 37° Flare	SAE-8 37° Flare	2 inch Code 61 Type 1 Per ISO 6162	2 inch Code 61 Type 1 Per ISO 6162	SAE-8 37° Flare	SAE-8 37° Flare

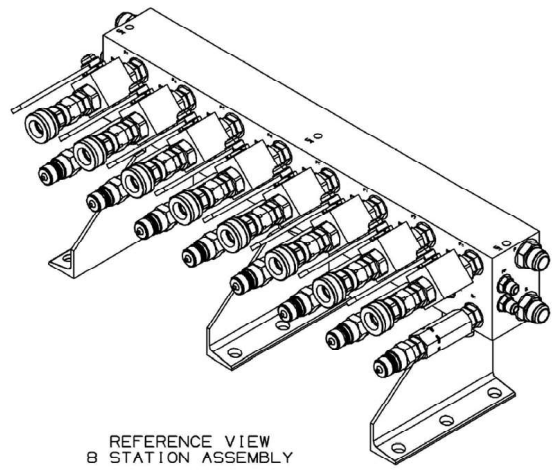
# SPECIFICATIONS

**-050-1490-1XJ**



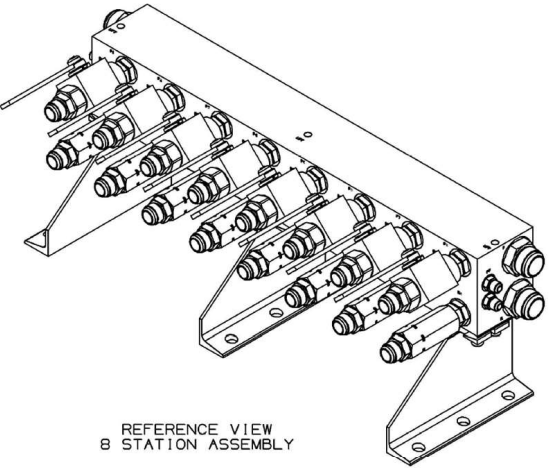
REFERENCE VIEW  
8 STATION ASSEMBLY

**-050-1490-1XD**



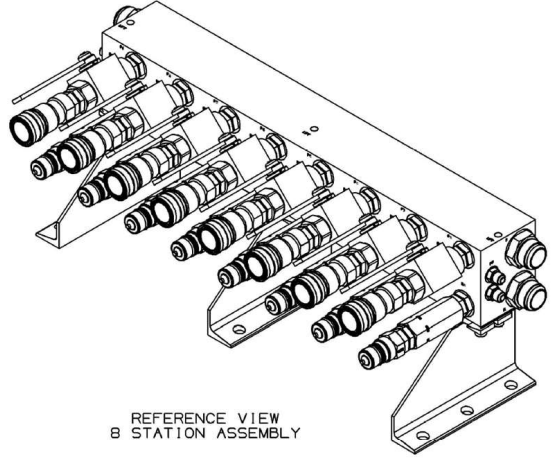
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8 STATION ASSEMBLY

**-050-1490-2XJ**



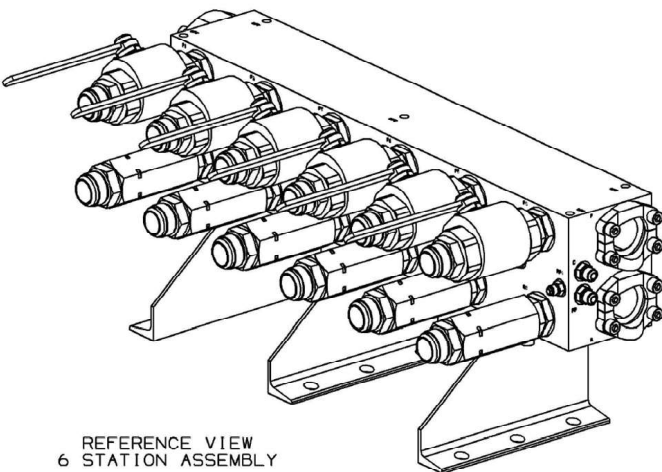
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8 STATION ASSEMBLY

**-050-1490-2XD**



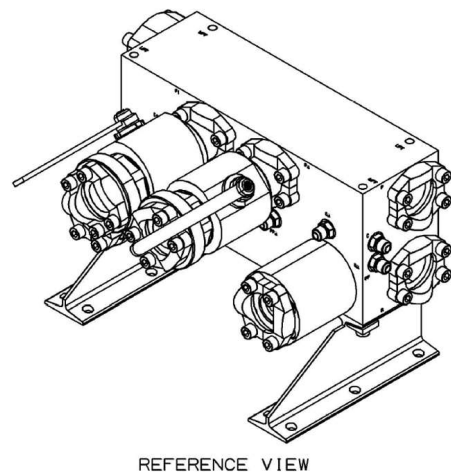
REFERENCE VIEW  
8 STATION ASSEMBLY

**-050-1490-4XJ**



REFERENCE VIEW  
6 STATION ASSEMBLY

**-050-1490-LINK**



REFERENCE VIEW

# SPECIFICATIONS

Ordering Code

-050 - 1490 - X X X

Distribution Manifold

Inlet Flow	
Specify	Flow
1	100 lpm
2	200 lpm

Outlet Port Type	
Specify	Type
J	JIC 37° Flare (ISO8434-2)
D	Quick Disconnect

Number of Outlet Ports	
Value	Outlet Qty
8	8 Outlet Ports
6	6 Outlet Ports
4	4 Outlet Ports

-050 - 1490 - 4 X J

Distribution Manifold

Inlet Flow	
Specify	Flow
4	400 lpm

Outlet Port Type	
Specify	Type
J	JIC 37° Flare (ISO8434-2)

Quick Disconnect not available with 400 lpm version

Number of Outlet Ports	
Value	Outlet Qty
6	6 Outlet Ports
4	4 Outlet Ports
2	2 Outlet Ports

-050 - 1490 - L I N K

Distribution Manifold

LINK Manifold

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MCM/Rev. B, July 2024, Id. CDL59574

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