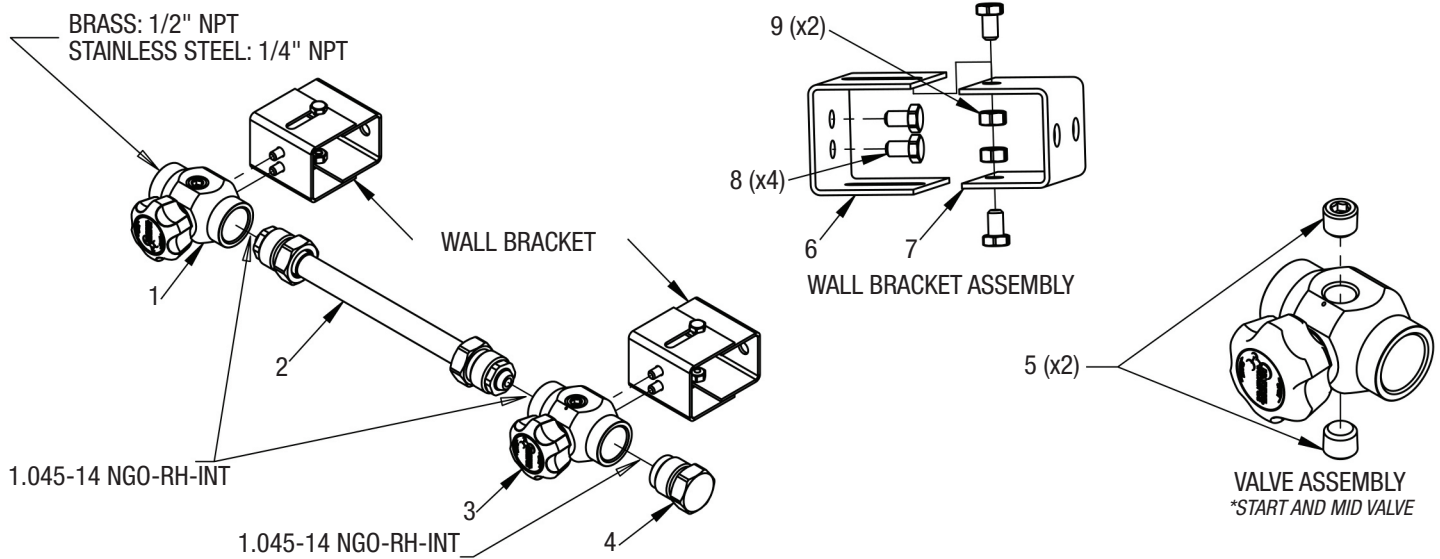




HARRIS MODULAR MANIFOLD ASSEMBLY INSTRUCTIONS



ITEM	DESCRIPTION	PART NO.	ITEM	DESCRIPTION	PART NO.	ITEM	DESCRIPTION	PART NO.
1	START VALVE		3	MID VALVE		5	VALVE PLUG	
	BRS START VALVE	9105192		MID VALVE BRS	9105194		BRS VALVE PLUG	9000495
	SS START VALVE	9105193		MID VALVE SS	9105195		SS VALVE PLUG	9000553
2	HEADER TUBE		4	HEADER PLUG		6	VALVE BRACKET	9009502
	HEADER TUBE 5" BRS	9105188		HEADER PLUG BRS	9105185	7	WALL BRACKET	9009503
	HEADER TUBE 10" BRS	9105187		HEADER PLUG SS	9105186	8	SCREW	9009505
	HEADER TUBE 5" SS	9105184			9	NUT	9009504	
	HEADER TUBE 10" SS	9105183						

The header manifold is to be attached to a wall or other secure structure. Each valve will have a typical distance of either 5" or 10" from center to center depending on length of tube being used. The header assembly does not come with mounting hardware as the customer should choose fasteners appropriate for the mounting surface.

1. The start valve (1) has two openings, one end connecting to the manifold hub and the other end to the header tube. NOTE: Brass models will have a 1/2" NPT opening and Stainless Steel models will have a 1/4" NPT opening.
2. The start valve (1) opening will be used to connect to the inlet of the manifold hub. On the opposite end, a 1.045-14 NGO opening will be used to attach the header tube.
3. To connect the start valve to header tube, a 1- 5/8" wrench and 1-1/8" wrench will be required. Use the 1-5/8" wrench to hold the valve body and the 1-1/8" wrench to tighten the header tube. Torque each header tube (2) connection to 40 ft-lbs.
4. Connect mid valve (3) to the unattached end of the header tube. Ensure valve bodies are parallel to one another. Use the 1-5/8" wrench to hold the valve body and the 1-1/8" wrench to tighten the header tube. Torque to 40 ft- lbs.
5. Following steps 2 and 3, attach additional header tubes and mid valves as required by application.
6. On the final mid valve (3) of the assembly, connect header plug (4) to the rear opening. Use the 1-5/8" wrench to hold the valve body and the 1-1/8" wrench to tighten the plug. Torque to 40 ft-lbs.
7. Attach a valve bracket (6) to every valve in the assembly using the screws (8) provided.
8. Match header assembly dimensions to the mounting surface. Properly align and fasten wall bracket to the mounting surface.
9. Mount the header assembly by connecting the valve bracket (6) and wall bracket (7) using the provided screws and nuts. The wall bracket assembly allows for distance adjustments from mounting surface to the header assembly.
10. **Attaching the hoses:** Remove bottom plug (5) on the valve. Assemble nipple and pigtail to valve block using Teflon® tape to seal the threads. Wrench tighten from 18 ft-lbs up to 25 ft-lbs of torque.
11. Once fully assembled and connected to the manifold system. S-L-O-W-L-Y pressurize and check each joint for leaks with Snoop or warm soapy water. Increase torque slightly, if needed, to eliminate leaks. Do not torque any connection to greater than 60 ft-lbs. If leaks cannot be eliminated, contact your distributor or Harris Products Group Technical Service.