

Hydraulic Service Manifolds (HSM)

Shore Western Hydraulic Service Manifolds can provide for isolated source connections or multiple channels of switched control from a single high pressure supply. With the application of accumulators, relief valves, port control valves and check valves a critically designed manifold block assures the proper hydraulic supply for varied applications. Benefits include:

- **Fluid filtration protects components downstream from impurities in the hydraulic fluid.**
- **Slow ON/OFF pressure switching decreases pressure pulses and abrupt load application.**
- **Electrically controllable high/low pressure increases operational safety.**
- **Smooth pressure transitions as accumulators damp pressure fluctuations**
- **Short term energy storage as accumulators supply fluid for peak flow requirements.**
- **Accumulators help regulate variations in fluid supply and demand.**

Setting the standard for hydraulic service manifolds with advanced design, quality components, and variety of options, Shore Western Hydraulic Service Manifolds are direct replacements for the MTS 290 and 293 models.

Features

Pressure ramping

An electrically adjustable proportional valve allows you to ramp pressure from low to high or vice versa.

Accumulators

Pressure and return accumulators positioned close to the servo-valve improves the high-frequency response characteristics of the actuator.

Pilot pressure

Auxiliary pilot pressure ports direct system hydraulic pressure to other system functions.

Pressure control

An internal pressure control solenoid valve allows you to turn hydraulic pressure on and off via the system control electronics.

Independent pressure control

Complete and independent control of hydraulic pressure provided to individual stations while operating from a single hydraulic source.



100 gpm Service Manifold

Smooth pressure transitions

The effects of rapid removal or application of high pressure are minimized with smooth, controlled transitions between off, low, and high pressure modes.

Enhanced safety

Predictable pressure transitions and rapid dump hydraulic pressure unloading in the event of an abnormal condition reduce unexpected actuator movement and protect the specimen, test system and personnel.

Up to four switch channels

A maximum of four independent, switched control channels can be provided on the 22 Series HSM.

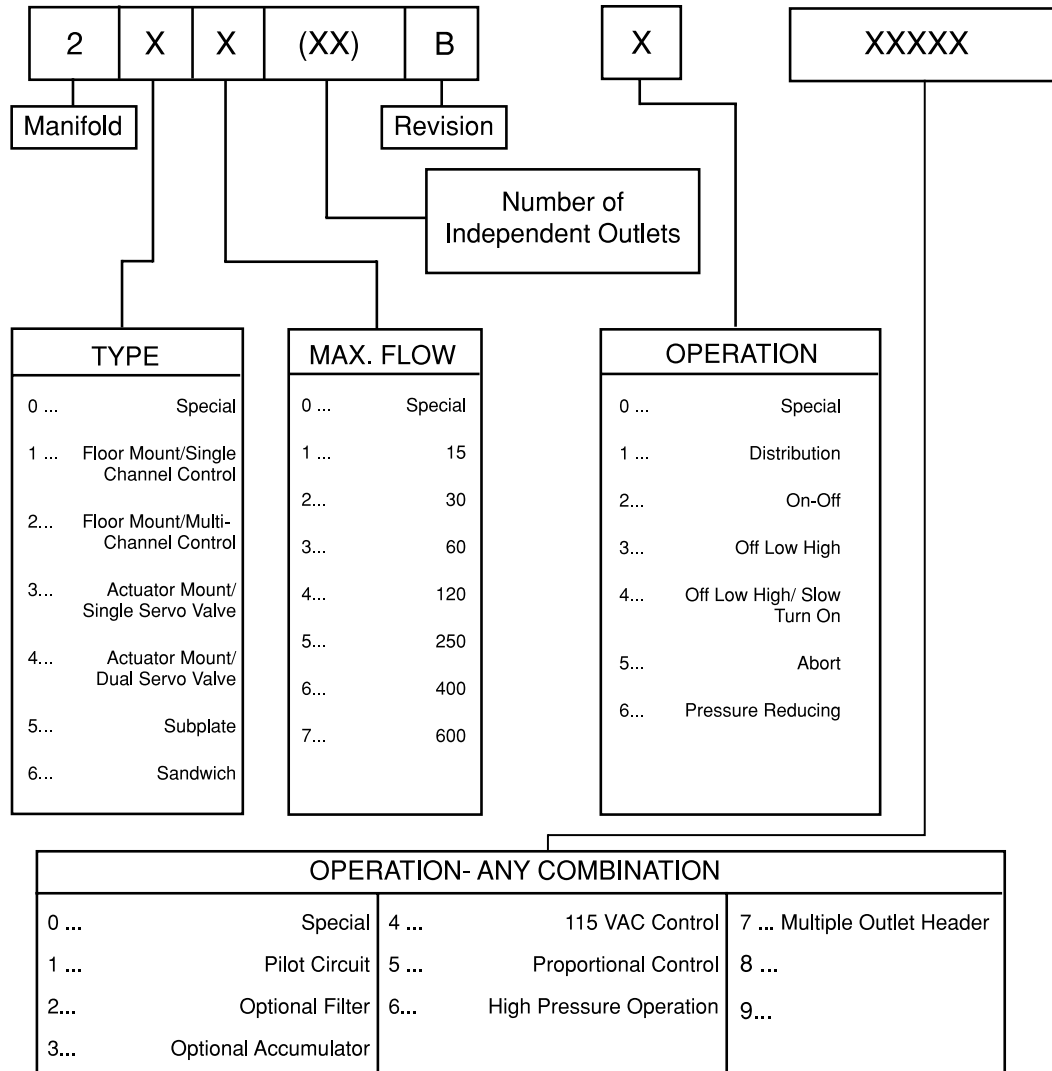
Filtration

Filtration at the manifold prevents the passage of dirt particles that can enter the hydraulic system when adding hydraulic fixtures or opening hydraulic lines.

The floor mounted 21 Series HSM offers one channel of switched control providing off/low/high with ramping between modes. Manufactured in 30, 60, 120, 250, 300 and 600 gpm standard sizes. The 21 Series can be supplied with auxiliary outputs in parallel or an output header manifold with multiple sets of parallel ports, an option commonly used for multichannel test rigs such as a 6 channel MAST system.

The floor mounted 22 Series HSM is designed for multiple channels of switched control, providing off/low/high with ramping between modes. Manufactured in 60, 120 and 250 gpm standard sizes. The independent switching controls are available on each output module, with four channels max.

The actuator mounted 23 and 24 Series Hydraulic Service Manifolds provide the interface between the actuator and the servo valve(s), accumulators and control valves as required by the hydraulic system.



NOTE: Special Codes defined by drawing; 24 VDC control is standard

Special flow rates, pressures and accessories available upon request. Contact factory for specifics.

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