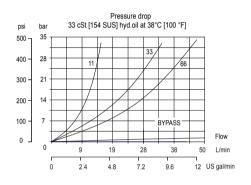
## X05-FD10 Traction Manifold

#### **OPERATION**

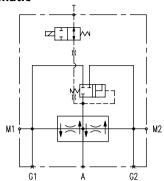
This valve provides electrically actuated traction control for hydrostatic systems with one pump and two motors in parallel. In normal operation, fluid passes freely through the valve. When the solenoid is energized, fluid is forced through the flow divider/combiner, preventing wheel spin or motor over speed.

## **PERFORMANCE**

## **Performance curve**



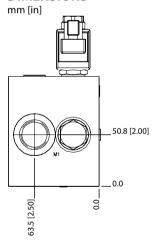
#### **Schematic**

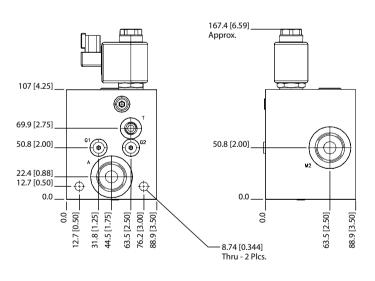


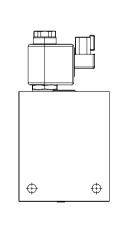
## **Specifications**

Rated pressure	207 bar [3000 psi]
Rated flow at 7 bar	45 l/min
[100 psi]	[12 US gal/min]
Weight	2.79 kg [6.15 lb]
Bypass Cracking Pressure	3.1 bar [45 psi]

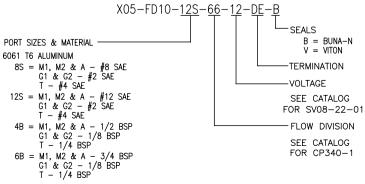
## **DIMENSIONS**







# ORDERING INFORMATION



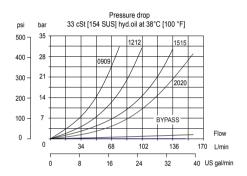
## X05-FD16 Traction Manifold

#### **OPERATION**

This valve provides electrically actuated traction control for hydrostatic systems with one pump and two motors in parallel. In normal operation, fluid passes freely through the valve. When the solenoid is energized, fluid is forced through the flow divider/combiner, preventing wheel spin or motor over speed.

## **PERFORMANCE**

## **Performance curve**



# Schematic M1

## **Specifications**

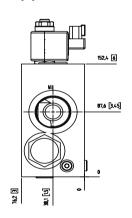
G1

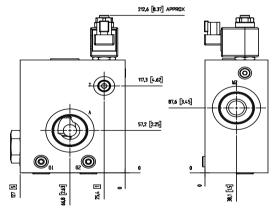
Rated pressure	350 bar [5075 psi]
Rated flow at 7 bar	150 l/min
[100 psi]	[40 US gal/min]
Weight	4.48 kg [9.88 lb]
Bypass cracking pressure	3.8 bar [55 psi]

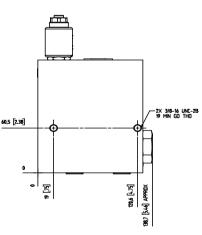
G2

## **DIMENSIONS**

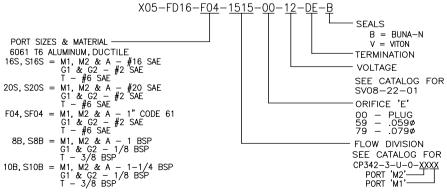
mm [in]







# ORDERING INFORMATION





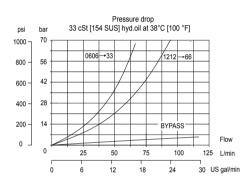
## X05-FD104 Traction Manifold

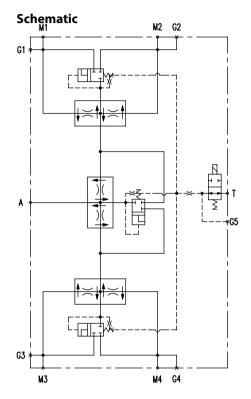
#### **OPERATION**

This valve provides electrically actuated traction control for hydrostatic systems with one pump and four motors in parallel. In normal operation, fluid passes freely through the valve. When the solenoid is energized, fluid is forced through the flow divider/combiners. The result is equal flow to all four motors, preventing wheel spin or motor over speed.

## **PERFORMANCE**

#### Performance curve

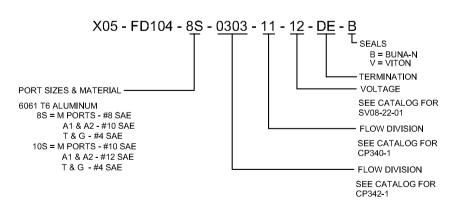




## **Specifications**

Rated pressure	207 bar [3000 psi]
Rated flow at 7 bar	45 l/min
[100 psi]	[12 US gal/min]
Weight	8.74 kg [19.74 lb]
Bypass cracking pressure	3.1 bar [45 psi]

# ORDERING INFORMATION



#### **DIMENSIONS**

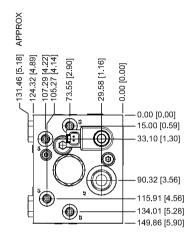
See next page.

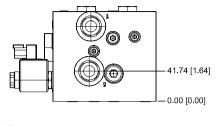


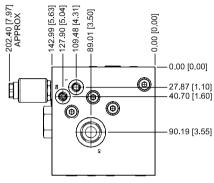
## X05-FD104 Traction Manifold

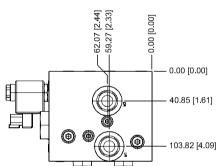
## **DIMENSIONS**

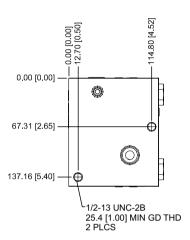
mm [in]











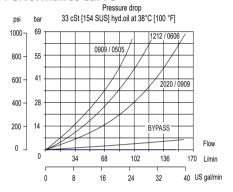
## X05-FD164 Traction Manifold

#### **OPERATION**

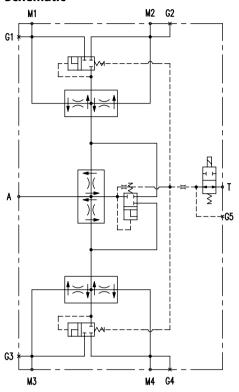
This valve provides electrically actuated traction control for hydrostatic systems with one pump and four motors in parallel. In normal operation, fluid passes freely through the valve. When the solenoid is energized, fluid is forced through the flow divider/combiners. The result is equal flow to all four motors, preventing wheel spin or motor over speed.

## **PERFORMANCE**

#### **Performance curve**



#### **Schematic**

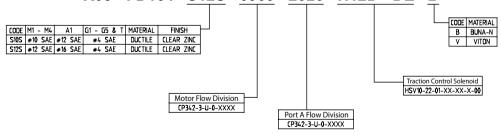


## **Specifications**

Rated pressure	350 bar [5075 psi]
Rated flow at 7 bar	150 l/min
[100 psi]	[40 US gal/min]
Weight	14.57 kg [32.12 lb]
Bypass cracking pressure	4 bar [55 psi]

# ORDERING INFORMATION

## X05 - FD164 - S12S - 0909 - 2020 - H12D - DE - B



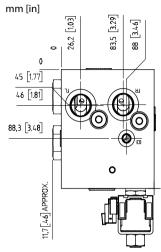
#### **DIMENSIONS**

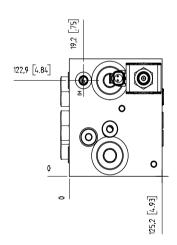
See next page.

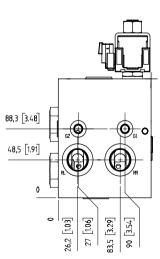


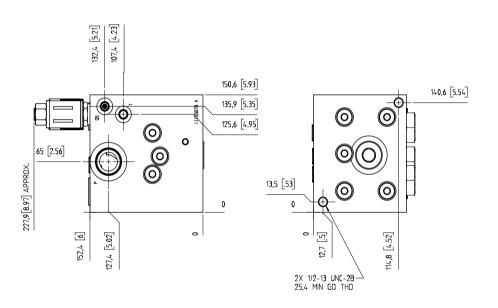
## X05-FD164 Traction Manifold

## **DIMENSIONS**











## **OPERATION & APPLICATION**

The Loop Flushing Block allows oil to drain from the power transmission loop to other oil treatment components. The low pressure side of the circuit is directed to the relief valve, which is then drained out of the transmission loop.

This HIC is typically used in closed loop circuits to assist in the process of removing contamination and cooling oil. Hydrostatic systems with sustained operation and continuous pressure will benefit from a loop flushing circuit.

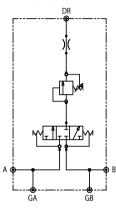
To configure the LFB12, determine the charge pump pressure and desired flushing flow. Working up from the desired flow, select the orifice size with a pressure rise that, when added to one of the available relief settings (in the ordering information section), meets the charge pump pressure.

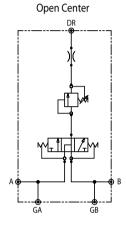
## **Specifications**

Rated pressure	350 bar [5075 psi]
Rated flow	See performance chart
Weight	3.4 kg [7.5 lb]
Valves	CP721-3 [Shuttle]
	CP210-1 [Relief]
	M12 orifice plug
Material	Ductile Iron

# Closed Center

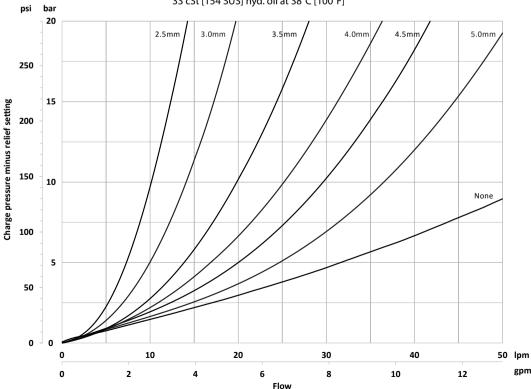
Schematic





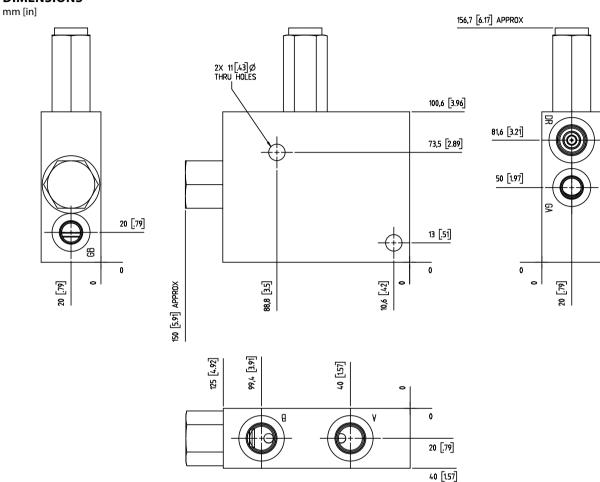
## **PERFORMANCE CHART**

Pressure rise per orifice option 33 cSt [154 SUS] hyd. oil at 38°C [100°F]









# ORDERING INFORMATION

