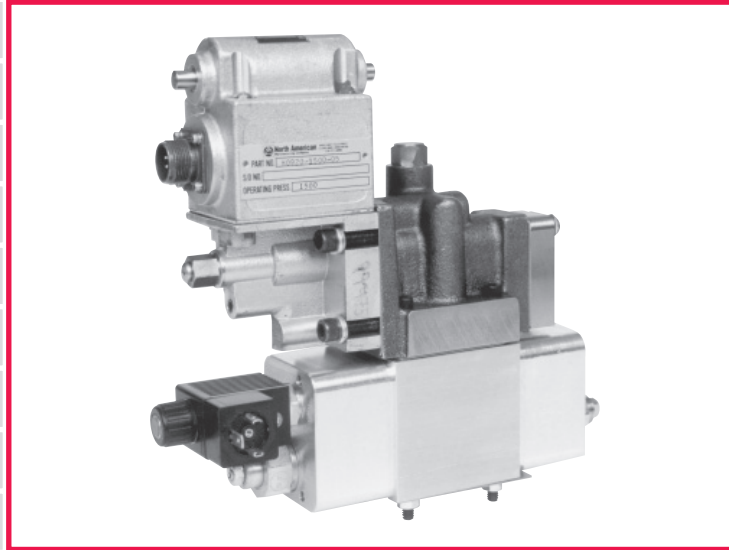


## H0920 Servo Valve



- D05 mounting pattern servo valve for customer mounting
- 3000 psi maximum operating pressure
- Separate blocking valve isolates cylinder from servo valve
- Requires ISO Code 4406 cleanliness level 16/13 hydraulic fluid
- Servo valve directly driven by the H6600 series controllers
- Servo valve contains manual overrides

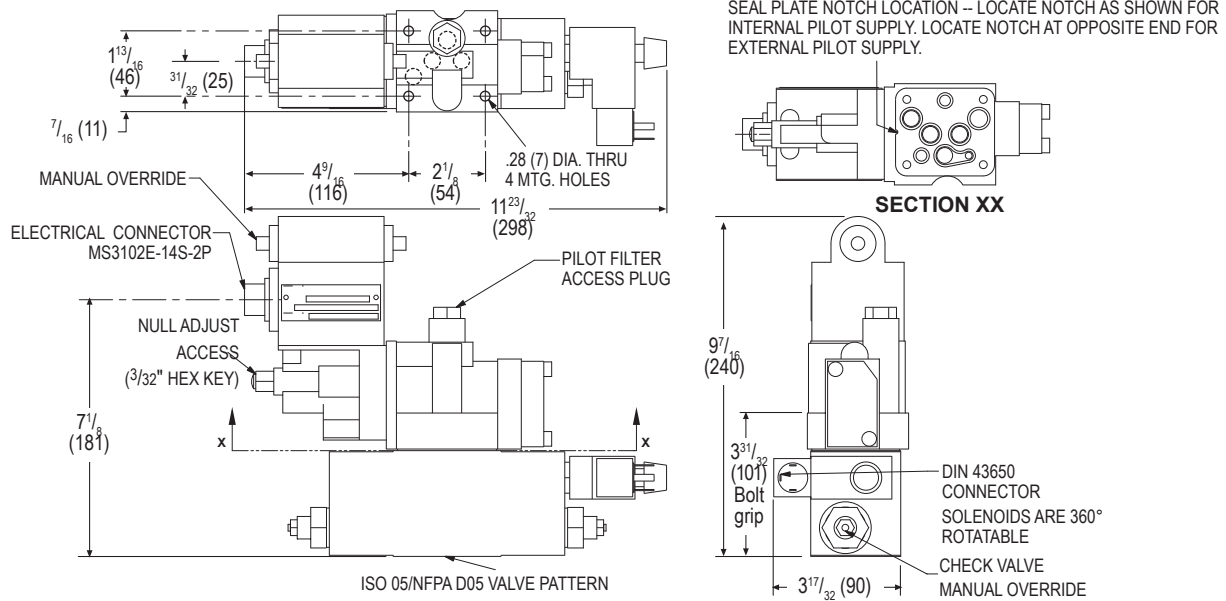
Fives North American offers a complete line of H0920 electro-hydraulic servo valve systems for strip guiding applications in the metals industry. These process line applications include entry-end guiding, intermediate guiding and exit-end guiding.

The H0920 Servo Valve is directly driven by Fives North American's family of electronic controllers eliminating the need for a separate drive card and control loop to tune. Since the valve that North American offers is a servo valve, it does not have a large dead band, therefore it does not require additional electronics to compensate for the dead band. The H0920 Servo Valve also offers a filtration level equivalent to the majority of competitive proportional valves and contains a field serviceable pilot filter. The H0920 system can operate up to 3000 psi allowing for the use of reduced cylinder bore diameters.

The servo valve and blocking valve have a NFPA D05/ ISO 05 mounting pattern that will mount directly to a standard manifold. The servo valve is internally piloted and drained, allowing for ease of installation. A complete analysis of the system should be done prior to replacing a directional valve with a servo valve.

## DIMENSIONS

inches (mm)



DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

## SPECIFICATIONS

### Servo Valve<sup>①</sup>

<b>Operating Fluid</b>	Petroleum based hydraulic fluid <sup>①</sup>
<b>Supply Filtration</b> (non-bypassing)	25 micron absolute (ISO code 4406 cleanliness level 16/13)
<b>Operating Pressure</b>	
Pressure port	3000 psi max., 200 psi min.
Load ports	3000 psi max. (207 bar)
Return port	200 psi max. (14 bar)
<b>Internal Leakage</b> (207 bar)	0.4 gpm (1.5 lpm) at 3000 psi
<b>Hysteresis</b>	5% max.
<b>Symmetry</b>	10% max.
<b>Linearity</b>	7% max.
<b>Pressure Gain</b>	30% supply min. at 2% signal
<b>Null Shift</b>	
Temperature change	50-150 F (10-65 C) 5% max.
Supply press. change	500 psi (35 bar) 3% max.
Return press. change	200 psi (14 bar) 2% max.
<b>Rated Current</b>	±125 mA (other coil options available upon request) <sup>②</sup>
<b>Electrical Connection</b>	MS3102E-14S-2P H4523-88-1 (10' cable)
<b>Valve Mounting Pattern</b>	NFPA T3.5.1 R2 D05 (2.5 to 20 gpm models)
<b>O-Ring Compound</b>	Viton

### Blocking Valve<sup>③</sup> (P/N H0916-30-005)

<b>Pressure Rating</b>	5000 psi (345 bar) max.
<b>Rated Flow</b>	20 gpm (76 lpm) at 150 psid (10 bar)
<b>Leakage</b>	1 drop per minute (0.004 in. <sup>3</sup> /min) 100 SUS viscosity
<b>O-Ring Compound</b>	Buna-N
<b>Power Consumption</b>	12 watts
<b>Operating Voltage</b>	
Coil P/N H0915-31-002	120 V ac ±20%, 50-60 Hz
Coil P/N H0915-31-003	240 V ac ±20%, 50-60 Hz
	AC coils incorporate integral rectifiers with surge protection.
<b>Temperature Rise above Ambient</b>	
At rated power	93 F (34 C)
At 2x rated power	170 F (77 C)
Coil Insulation	Class H
Connector	Hirschmann (DIN 43650) H0960-11-002 (9' cable assembly)

#### Notes:

- ① Contact Fives North American for special fluids.
- ② Contact Fives North American for coil options.
- ③ Test performed with petroleum based hydraulic fluid, viscosity grade 32 at 100 F.

## H0920-XX00-XX

<b>Supply Operating Pressure</b>	<b>gpm rating at 1000 psid (70 bar)</b>	
<b>15:</b> 200 - 1500 psi (14 - 103 bar)	<b>02:</b> 2.5 gpm (9.5 lpm)	<b>15:</b> 15 gpm (56 lpm)
<b>30:</b> 1550 - 3000 psi (107 - 207 bar)	<b>05:</b> 5.0 gpm (19 lpm)	<b>20:</b> 20 gpm (76 lpm)
	<b>10:</b> 10 gpm (38 lpm)	

## Fives North American Combustion, Inc. Guiding Systems

4455 EAST 71st STREET, CLEVELAND, OH 44105 USA

Tel: 216.271.6000 Fax: 216.641.7852

email: fna.guiding@fivesgroup.com - www.fivesgroup.com/fivesna