

RFI/EMC Immunity for Valves with Integrated Electronics

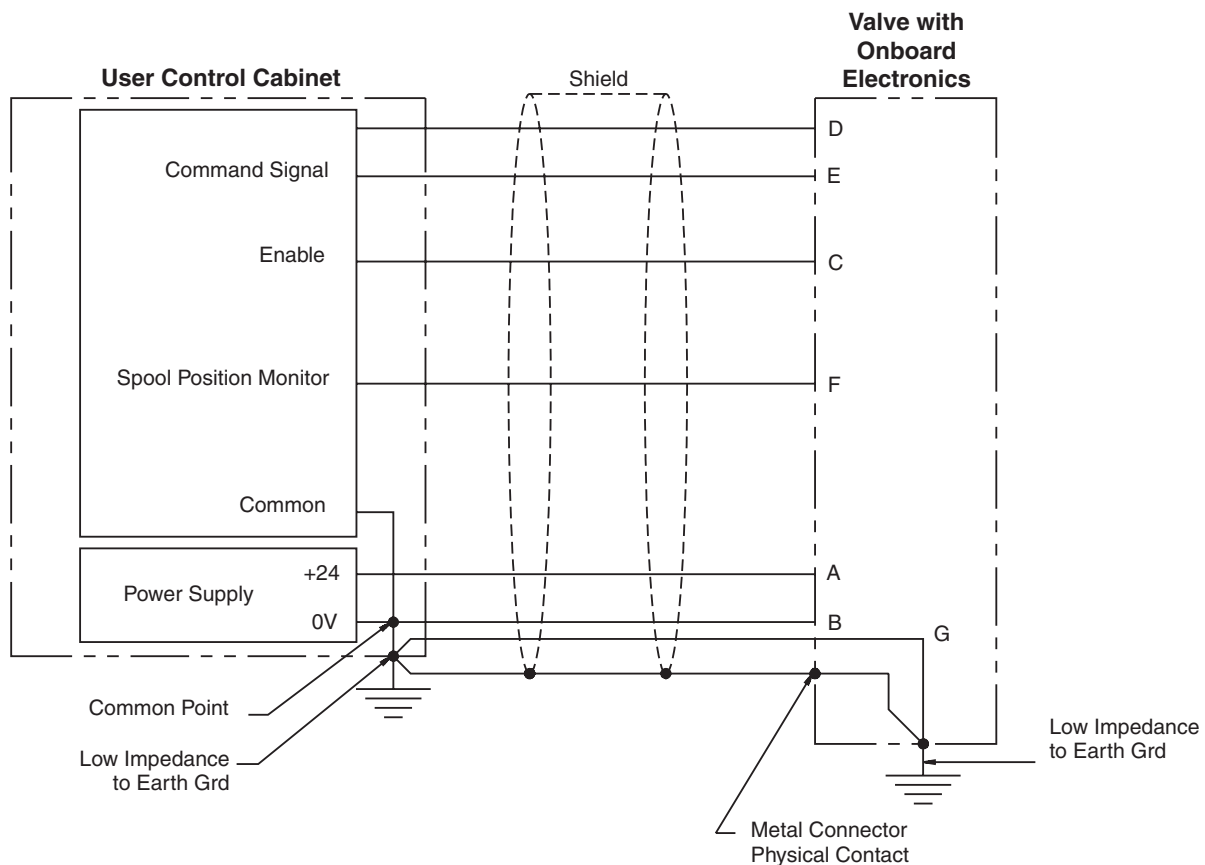
Conformance to the CE RFI/EMC susceptibility and emissions regulations require valves with integrated electronics be properly wired and grounded. The wiring diagram below suggests proper practices, and should be used as a guide for wiring any new application. In some retrofit applications it may be necessary to significantly alter an existing wiring layout and grounding methods to achieve the desired RFI/EMC immunity and avoid ground loops. Note that an improperly wired application can render a system unusable.

Valves should be wired to the user control cabinet by shielded cable where the shield is grounded at both ends. These ground points must be very low impedance earth grounds, and proper wiring practices are required to avoid system ground loops. In some appli-

cations it may be necessary to install a low impedance ground strap between the valve or manifold and earth to achieve a proper ground.

Note that when assembling cable/connector assemblies, the shield must be in electrical contact with the connector shell to complete the shield circuit through the valve mating receptacle. (Refer to the Accessories section of this catalog for pre-assembled 'EHC' cable assemblies)

To minimize the exposure to RFI/EMC radiation, electronic equipment should be isolated from sources of high-energy electromagnetic radiation such as cables carrying high currents, radio transmitters, electrical load control centers and contactors.

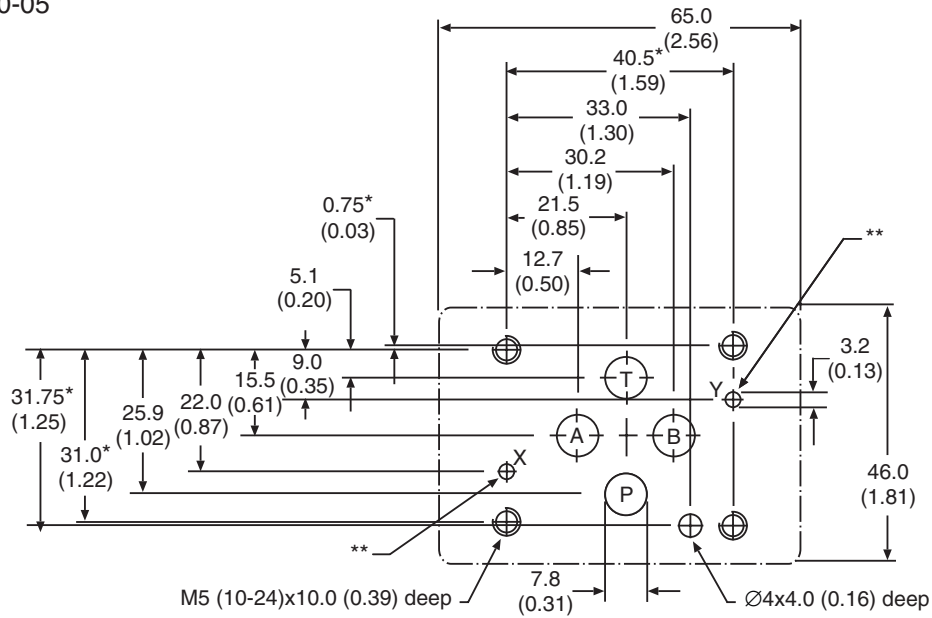


Note: PE on Functional Block Diagrams refers to "Potential Earth".

Size NG6 (NFPA/ISO/CETOP 3)

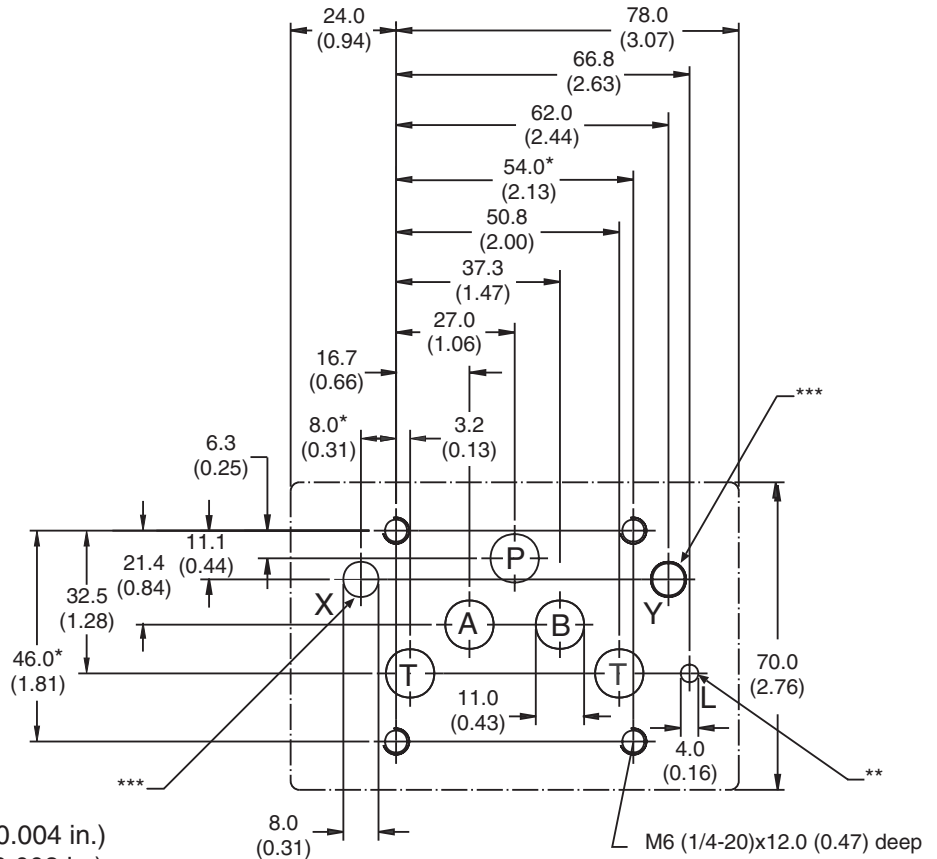
mounting pattern per DIN24340-A6,
 ISO 4401-03-03-0-05

A



Size NG10 (NFPA/ISO/CETOP 5HE)

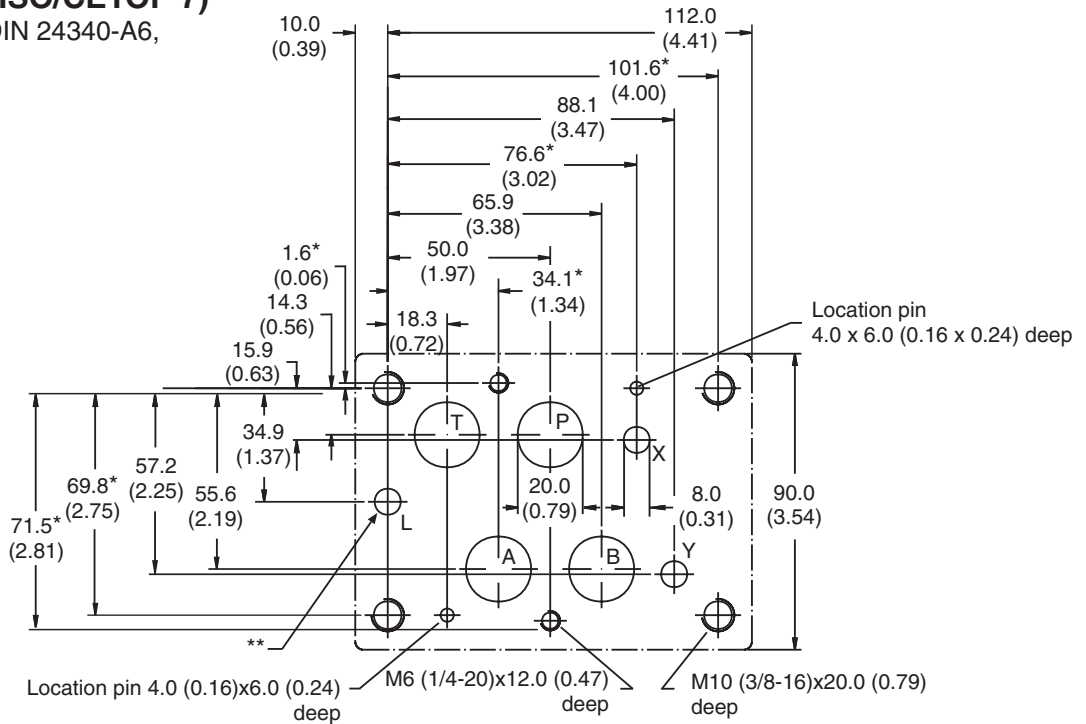
mounting pattern per DIN 24340-A6,
 ISO 4401-05-05-0-05



- * Dimension tolerance ± 0.1 mm (0.004 in.)
 All other dimensions ± 0.2 mm (0.008 in.)
- ** Port not used with valves in this catalog
- *** Ports only used for pilot operated valves

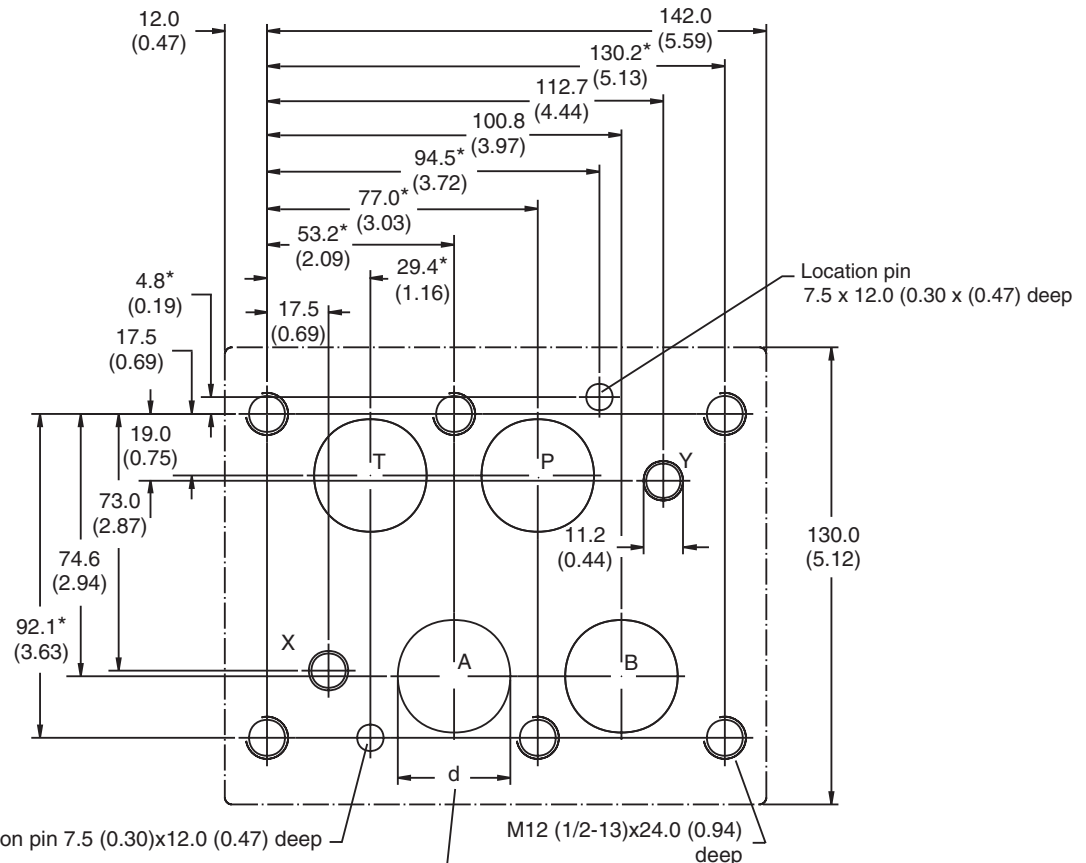
Size NG16 (NFPA/ISO/CETOP 7)

mounting pattern per DIN 24340-A6,
 ISO 4401-07-07-0-05



Size NG25 (NFPA/ISO/CETOP 8)

mounting pattern per DIN 24340-A6,
 ISO 4401-08-08-0-05



* Dimension tolerance ± 0.1 mm (0.004 in.)
 All other dimensions ± 0.2 mm (0.008 in.)
 ** Port not used with valves in this catalog

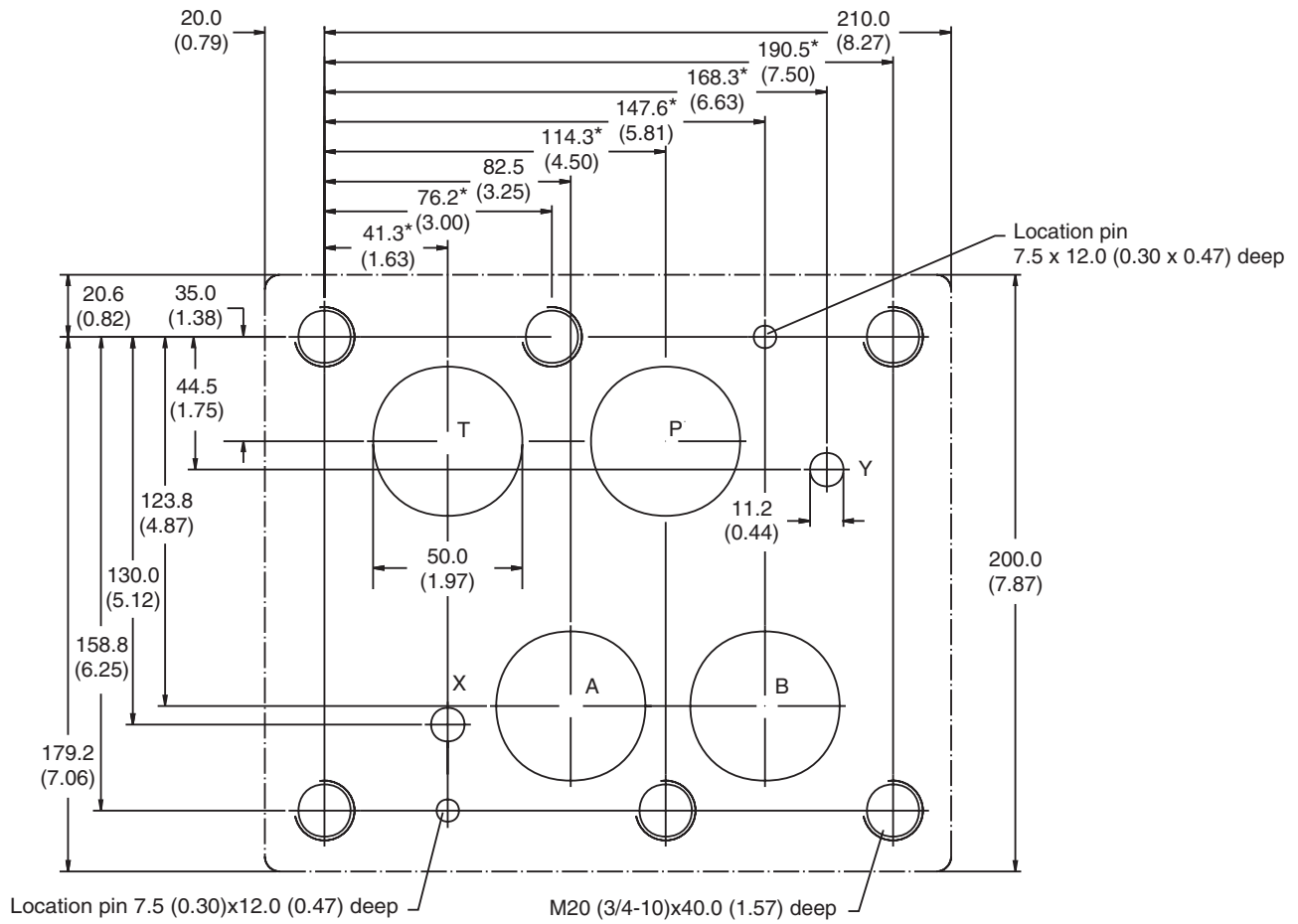
d (A,B,T) series 8: $\varnothing 27.0$ (1.06)
 d (P) series 8: $\varnothing 26.5$ (1.04)
 d (P,A,B,T) series 9: $\varnothing 32.0$ (1.26)



Size NG32 (NFPA/ISO/CETOP 10)

mounting pattern per DIN 24340-A6,
 ISO 4401-10-09-0-05

A



* Dimension tolerance ± 0.1 mm (0.004 in.)
 All other dimensions ± 0.2 mm (0.008 in.)