

N E W

ET.. X

Proportional solenoid valves 4 ways / 3 positions



ET .. X VALVES

- External zinc-plated and corrosion-proof components
- Hardened parts to ensure minimal wear and long life
- Flow path optimized through CFD analysis
- Industry common cavities
- Heavy duty polyurethane seals
- Several types of coil connectors and voltages
- Minimum current threshold/dead band
- Manual override options
- All ports may be fully pressurized









ET..X PROPORTIONAL SOLENOID VALVES

4 WAYS / 3 POSITIONS



DESCRIPTION:

Walvoil launches the new ET..X cartridge valve series, proportional solenoid operated, 4-way, 3-position, spool-type. The new ET valves have been designed to reduce the overall dimensions of the valve in order to obtain more compact HICs (Hydraulic Integrated Circuits), and also to increase the performance in terms of pressure, flow-rate and pressure drops.

OPERATION:

The ET..X valve series is available with different spools and manual override options, which increase the versatility of the product and ensure high flow capacity with reduced space requirements.

Optimized through CFD analysis, the reduction of the pressure drops ensures higher switching performances compared to the existing solution, while maintaining the same type of coils and complete interchangeability.

These spool-type valves are available in SAE 08 & 10 size and different spools.

They are used in mobile and industrial applications, for the control of travel direction of actuators such as hydraulic motors and cylinders.

ET..X series is assembled with the Walvoil crimping solution, that ensures, at the same time, more robustness while mounting them on HICs and a reduction of leakage due to spool clearance.

WORKING CONDITIONS

Technical specifications and diagrams measured with mineral oil of 46 mm²/s (46~cSt) viscosity at 40°C – (104°F) temperature.

		ETO8X	ET10X
Nominal flow		10 l/min 2.6 US gpm	25 l/min 6.6 US gpm
Max pressure		250 bar <i>3600 psi</i>	
Oil leakage	At 210 bar 3050 psi	40 cm³/min 2.44 in³/min	200 cm³/min 12.2 in³/min
Fluid		hydraulic mineral oil-based	
Viscosity		10-200 cSt	
Max level of contamination		18/16/13 ISO4406	
Fluid temperature	Polyurethane + NBR seals	from -20 to +80 °C from -4 to +176 °F	
	FPM seals	from -20 to +100 °C from -4 to +212 °F	
Environmental temp. for working conditions		from -20 to +60 °C from -4 to +140 °F	
Cavity		SAE 08/4	SAE 10/4
Coils type		(BER)	(BC)
Power rating		23 W (12/24 VDC)	26 W (12/24 VDC)
Connector types		ISO4400 - Deutsch DT AMP-JPT - Weatherpack/ Metri-pack Flying leads	ISO4400 - Deutsch DT AMP-JPT - Flying leads
Note: For different conditions, please contact Sales Department.			

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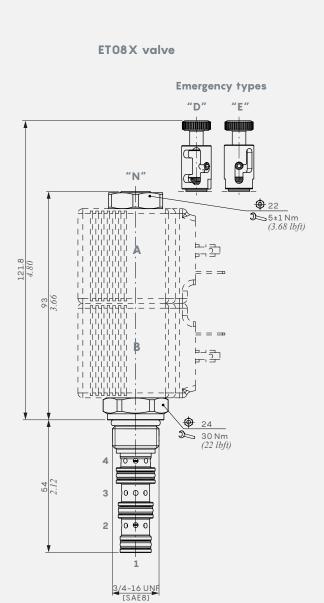
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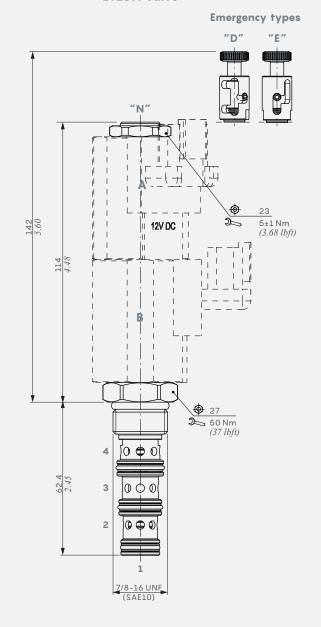




DIMENSIONAL DATA AND HYDRAULIC CIRCUITS

ET10X valve



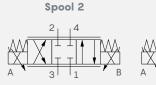


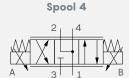
Emergency types

N ET..X/NB Without emergency

D ET..X/DB
Push/pull type with detent

E ET..X/EB
Push/pull type without detent



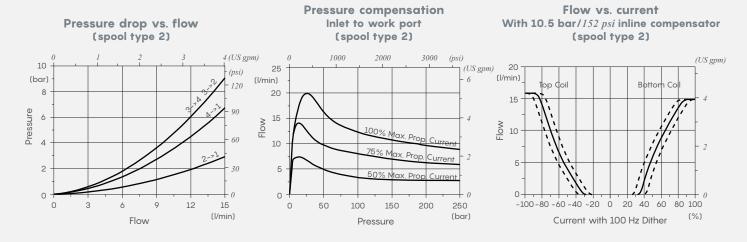


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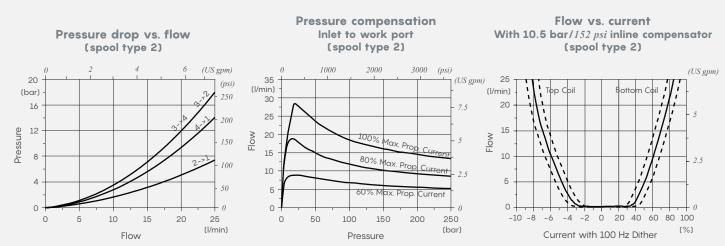


PERFORMANCE DATA

ET08X valve



ET10X valve





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