

BLOCK & STOP HBH Series Valve Systems

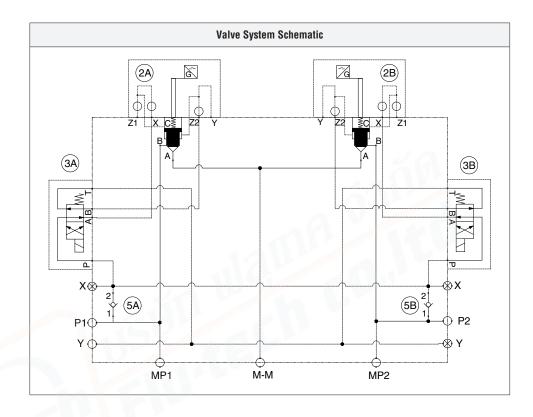


HBH Series Hydraulic Block & Stop Redundant Valve Systems for External Monitoring



Block & Stop Safety Function

Blocks the flow of hydraulic fluid in order to stop cylinder motion.



The HBH Series valves are redundant blocking valve systems designed for critical applications where safe block and stop is required for hydraulically controlled cylinders. These valve systems are equipped with inductive position switches for external monitoring by an electrical safety control system.

	Valve System Features
External Monitoring	Each single valve in the HBH Series system is equipped with inductive position switches. Monitoring of these switches is to be done by an electrical safety control system.
Poppet and Spool Type Design	Poppet-type cartridge valve elements for blocking flow and stopping cylinder motion. Solenoid pilot valves are spool type.
Tamper Resistant	Special tool required for disassembly.
Mounting	In-line – with Code 62 Flange ports.

These valves are not designed for controlling clutch/brake mechanisms on mechanical power presses, or mechanical power press applications.









Specifications



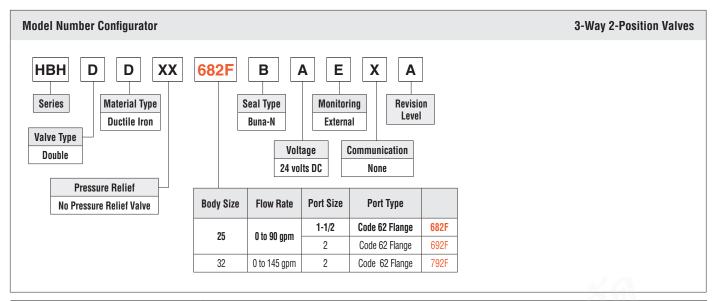
			STANDARD SPECIFICATIONS				
GENERAL	Actuation (solenoid- 2 per system)		One solenoid per valve element Solenoids must be operated synchronously				
			Solenoid pilot operated, spring return				
	Function		Block & Stop				
	Construction Design		Redundant valve system, Poppet type with Spool type pilot valves				
		Туре	In-line				
	Mounting	Orientation	Any, preferably horizontal				
,	Connection (hydraulic)		Code 62 Flange (P1 & P2), SAE (X, Y, MP1, M-M, MP2)				
	Monitoring		Dynamic, cyclical, external with customer supplied equipment. Monitoring should check state of bo valve position switches with any and all changes in state of valve control signals.				
	Minimum Operation Fro	equency	Once per month, to ensure proper function				
OPERATING CONDITIONS	_	Ambient	-4° to 160°F (-20° to 71°C)				
	Temperature	Media	-4° to 140°F (-20° to 60°C)				
	Flow Media		Mineral Oil HLP, HL-DIN 51524				
		Hydraulic Fluids	Vegetable Oil HETG - VDMA 24568				
	Operating Pressure		5000 psi (344 bar) maximum				
	ONDITIONS Flow Media Hydraulic F Operating Pressure Solenoids		Version as per VDE 0580; Rated for continuous duty Electrical connection according to EN 175301-803 Form A				
ELECTRICAL	Operating Voltage		24 volts DC				
DATA	Power Consumption (each solenoid)		30 watts				
	Inductive Position Switch (2 per system)		PNP (M12, 5-pin, A-coded)				
	Maximum Current (each switch)		400mA maximum				
	Valve Body & Manifold		Ductile Iron				
CONSTRUCTION	Spool & Poppet		Steel				
MATERIAL			Buna-N				

Product Credentials					
Safety Category	CE Conformity Declaration				
Cat. 3 PL d Fractional Safety Pending	C € Pending				

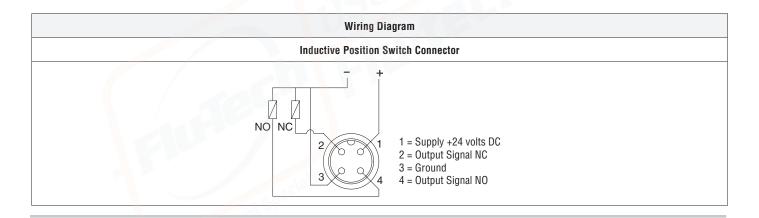
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Ordering Information



Body Size	Weight Ib (kg)
25	112.3 (50.9)
32	142.8 (64.8)



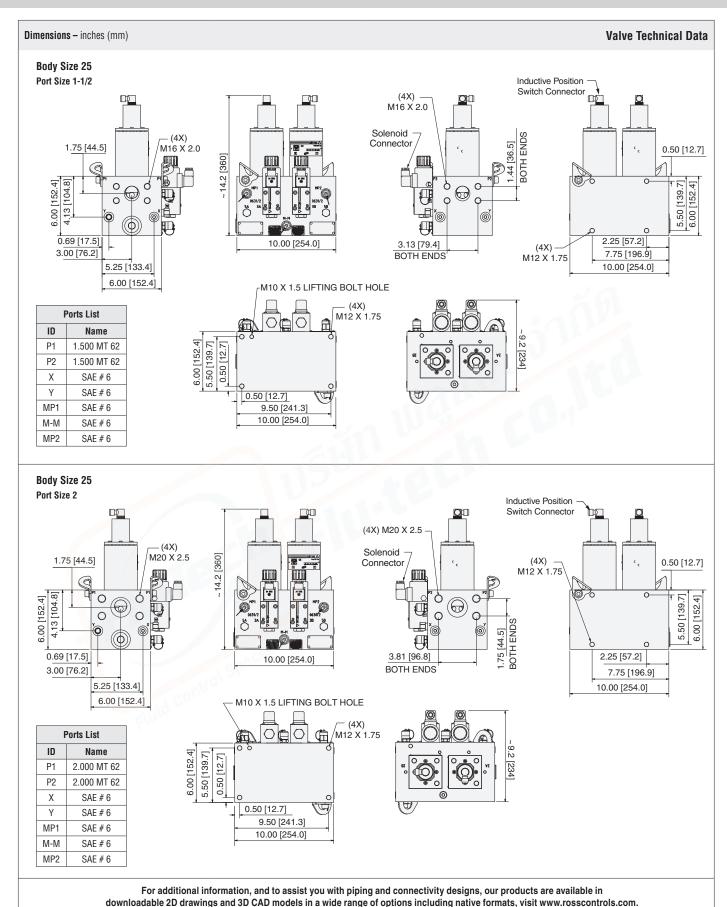
An Integration Guide for HBH Series valve systems is available from ROSS to provide information such as operation, monitoring, and integration into users control circuits, please visit www.rosscontrols.com.

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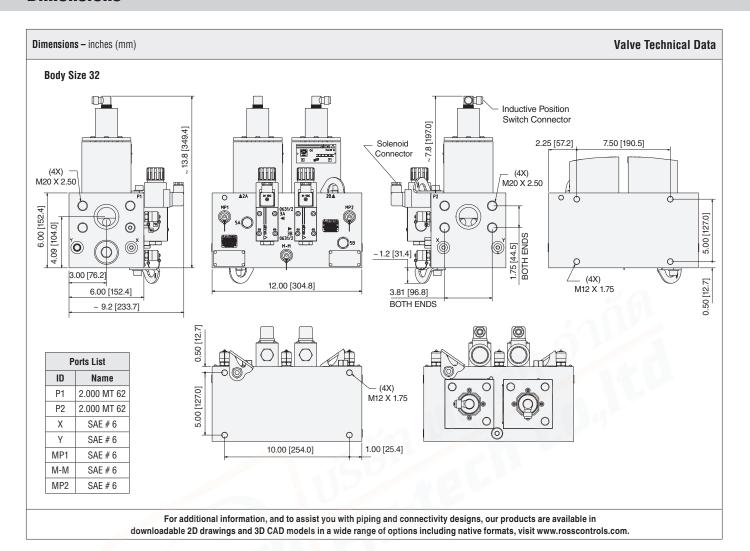


Dimensions





Dimensions



Accessories & Options



Connectors (no cable)				Model			
	Connection	Connector Type	Fitting Connection	Without Light	Lighted Connector 24 Volts DC	Quantity	
	Solenoid EN 175301-803 Form A	EN 175201 902 Form A	_	937K87	936K87-W	1	
		1/2" NPT conduit	723K77	724K77-W	1		

Pre-wired Connectors	Connection Connector Type			Launth	0	Model Number			
		Connector Type	End 1	End 2	Length meters (feet)	Cord Diameter	Without Light	Lighted Connector 24 Volts DC	Quantity
	Solenoid		75301-803 Cannastar	Flying leads	2 (6.5)	6-mm	721K77	720K77-W	1
		EN 175301-803				10-mm	371K77	383K77-W	
		Form A	Connector		5 (16.4)	-	2243H77	_	2
					10 (32.8)	-	2244H77	_	2
			Elving loods	5 (16.4)	-	2644B77	-	2	
	Concor	Sensor 5-pin, straight, A-coded	Female	Flying leads	10 (32.8)	-	2370B77	/ / -	
	SellSul			Mala	5 (16.4)	-	2645B77		0
	71 00000		Male	10 (32.8)	_	2371B77	_	2	

