



BLOCK & STOP HBH Series Valve Systems







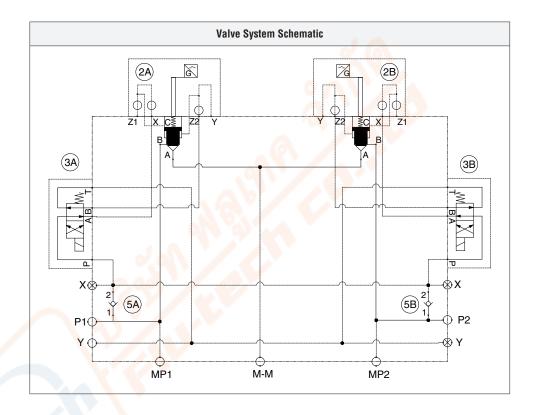
FLU-TECH CO.,LTD | บริษัท ฟลูเทค จำกัด 845/3-4 M.3 , Theparak, Muang, Samutprakan 10270 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

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

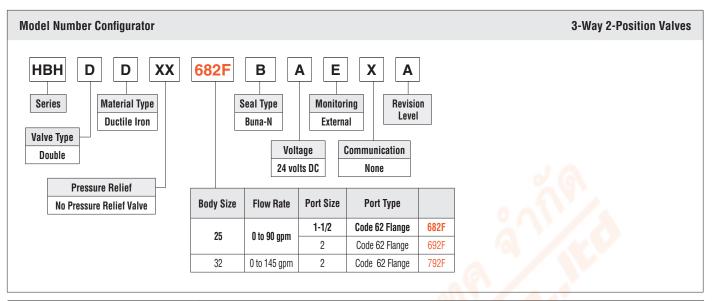


			STANDARD SPECIFICATIONS				
GENERAL	Actuation (solenoid- 2 per system)		One solenoid per valve element Solenoids must be operated synchronously				
			Solenoid pilot operated, spring return				
	Function		Block & Stop				
	Construction Design		Redundant valve system, Poppet type with Spool type pilot 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 bovalve position switches with any and all changes in state of valve control signals.				
	Minimum Operation F	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	Hydraulic Fluids	Mineral Oil HLP, HL-DIN 51524				
			Vegetable Oil HETG - VDMA 24568				
	Operating Pressure		5000 psi (344 bar) maximum				
Inductive Position Sw		Version as per VDE 0580; Rated for continuous duty Electrical connection according to EN 175301-803 Form A					
	Operating Voltage		24 volts DC				
	Power Consumption (e	each solenoid)	30 watts				
	Inductive Position Swi	tch (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	Seals						

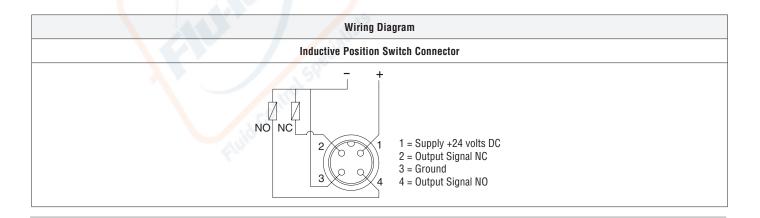
Product Credentials				
Safety Category	CE Conformity Declaration			
Cat. 3 PL d SIL 2 Fenctional Safety Pending	C € Pending			

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

Ordering Information



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

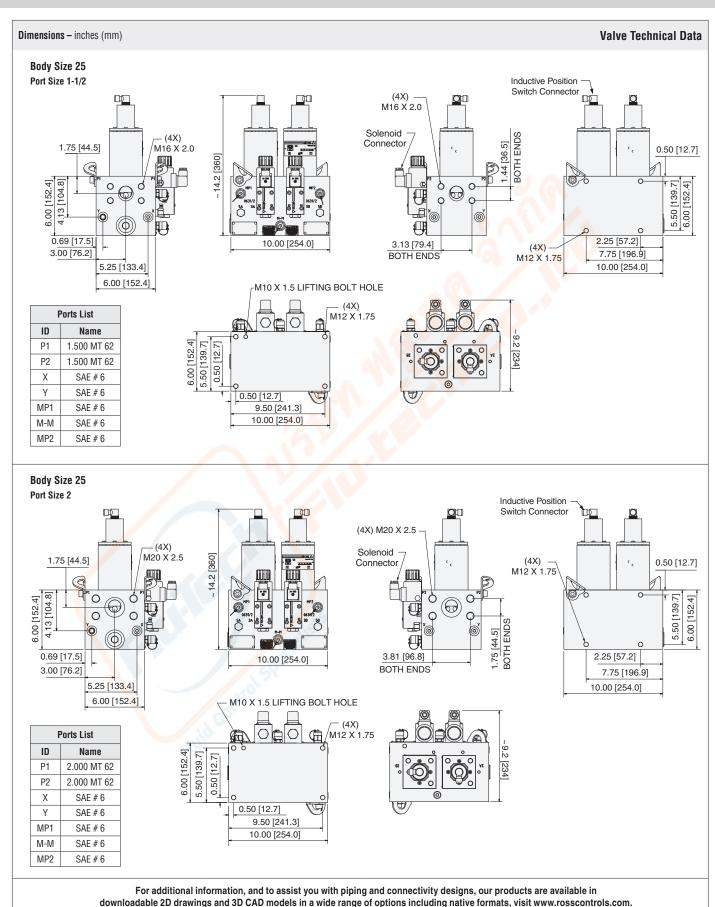


An Integration Guide for HBH Series valve systems is available from ROSS to provide information such as operation, monitoring, and integration into users control circuits, please visit www.rosscontrols.com.

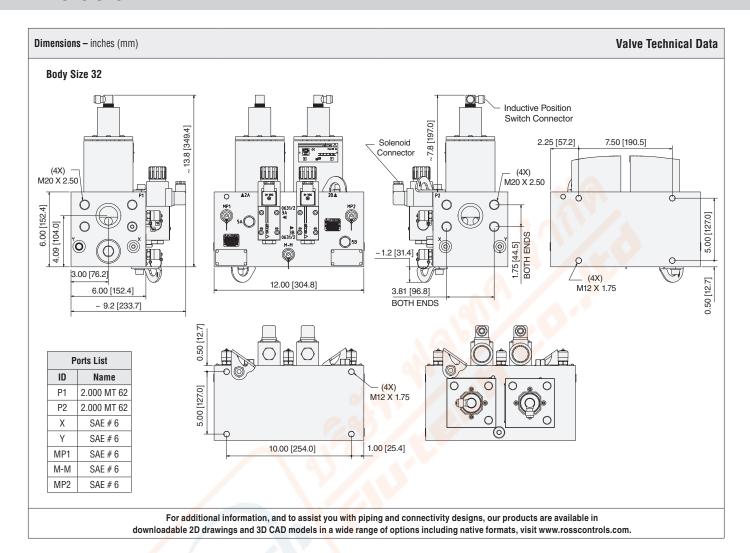
These valves are not designed for controlling clutch/brake mechanisms on mechanical power presses, or mechanical power press applications.

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	FN 175201 002 Form A	_	937K87	936K87-W	1	
		1/2" NPT conduit	723K77	724K77-W	1		

	Connection Connector Type			Longth	Cord	Model Number			
		Connector Type	End 1	End 2	Length meters (feet)	Diameter	Without Light	Lighted Connector 24 Volts DC	Quantity
	Solenoid EN 175301-8 Form A		O3 Connector	Flying leads -	2 (6.5)	6-mm	721K77	720K77-W	1
Pre-wired Connectors		EN 175301-803				10-mm	371K77	383K77-W	
		Form A	Connector		5 (16.4)	<u> </u>	2243H77	-	2
					10 (32.8)	1	2244H77	_	
			Flying leads	5 (16.4)	_	2644B77	_	2	
	Sensor	M12	Female	, ,	10 (32.8)	_	2370B77	_	2
	Sensor 5-pin, straight, Fen A-coded	remale	Male -	5 (16.4)	-	2645B77	_	2	
				10 (32.8)		2371B77	-		

