

NEW PRODUCT INTRODUCTION

Control Reliable Double Valves

HBB and HBH Series

Hydraulic Block & Bleed and Block & Hold Safety Valves

Designed for External Monitoring

The HBB Series valves are redundant valve systems designed to meet the needs and requirements of safe hydraulic block and bleed applications.

The HBH Series valves are redundant blocking valve systems designed for critical applications where safe load holding is required for hydraulically controlled cylinders.

Both HBB and HBH Series valve systems are equipped with position sensors for external monitoring by an electrical safety control system.

FEATURES & BENEFITS:

- Rapid response for minimum actuating time
- Position sensors for valve fault monitoring external monitoring required
- Well-proven spool valve design for reliable functionality
- Base mounted design
- Pressure range up to 5000 psi (up to 344 bar)
- Tamper-resistant design prevents unauthorized personnel from altering the valve

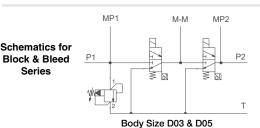
Hydraulic Block & Bleed HBB Series Valves Features

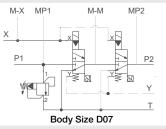
- Blocks hydraulic supply pressure and bleeds downstream pressure back to tank
- Includes relief valve on inlet
- Flow up to 50 gpm
- Body Sizes D03, D05, and D07
- Port Sizes SAE-8, SAE-12, and 11/4 Code 61 Flange

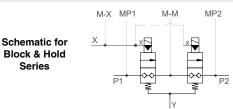
Hydraulic Block & Hold HBH Series Valves Features

- Stops cylinder motion and holds the cylinder in position in the event of loss of supply pressure and/or electrical power
- Holds a vertical load in the event of loss of supply pressure or electrical power
- Flow up to 145 qpm
- Two Body Sizes, D25 and D32
- Port Sizes 11/2 and 2, Code 62 Flange









Standard Specifications

	T T T T T T T T T T T T T T T T T T T
Construction Design	Spool type
	One solenoid per valve element
Actuation	Solenoids must be operated synchronously
(Solenoid- 2 per system)	Body Size D03, D05: Direct Solenoid Operated, spring return Body Size D07: Solenoid Pilot Operated, spring return
Mounting	Type: Base Orientation: Any, preferably horizontal
Solenoids	Version as per VDE 0580; Rated for continuous duty Electrical connection according to EN 175301-803 Form A Enclosure rating according to DIN 400 50 IP 65
Standard Voltages	24 volts DC
Power Consumption (each solenoid)	Body Size D03, D07, D025, D032: 30 watts Body Size D05: 36 watts

Inductive Position Switch (2 per system)	PNP				
Current Consumption (each switch)	400mA maximum				
Temperature Range	Ambient: -4° to 160°F (-20° to 71°C)				
(recommended)	Media: -4° to 140°F (-20° to 60°C)				
Flow Media	Hydraulic Fluids: Mineral Oil HLP, HL-DIN 51524 Vegetable Oil HETG - VMDA 24568				
Inlet Pressure	5000 psi (344 bar) maximum				
Construction Material	Valve Body & Manifold: Ductile Iron Spool: Steel Seals: Buna-N				



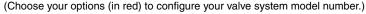


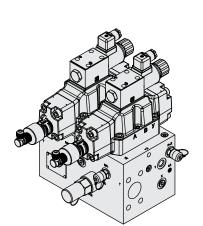




Hydraulic Block & Bleed Series Valves

HOW TO ORDER





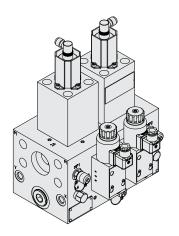
(Choose your options (in red) to configure your valve system moder number.)												
НВВ	DDD		11	108	S	В	1	4	E	X	Α	
Series Material Type					Seal Type Voltage				Revisi	ion Level		
Valve Type Ductile Iron]		Buna-N 24 volts DC				Comm	nunicatio		
									M	onitoring	None	
Pressure Relief Valve	· · · ·	-								External		
Maximum System Operating Pressure	Relief Valve Factory Preset				Body	Flow	Rate	Port	The	Port		
1000	1100	11			Size			Size	_	ead/Type		
1500	1700	17			D03	0 to 1	0 gpm	SAE-8		SAE	1088	
2000	2200	22			D05	0 to 2	0 gpm	SAE-1	2	SAE	212S	
2500	2800	28			D07	O to 5	0 gpm	11/4	Code	e 61 Flange	371F	1
3000	3300	33				0 10 0	o gpiii	174	Oout	, or mange	07 11	J
3500	3900	39						Ro	ly Size	Weight	lh (ka)]
4000	4400	44						DU	•	_	(0,	
4500	5000	50							D03	22.7 (10.3)	
5000	5500	55							D05	53.4 (24.2)	
No Pressure Relief Va	lve	XX							D07	131.9	(59.8)	
For system parameter please con	s outside of this rar tact ROSS.)	ige,									. ,	J

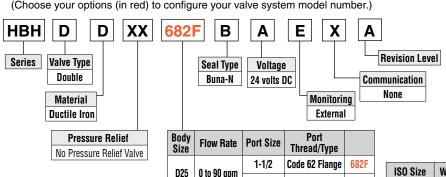
^{**} If your system already incorporates a means of pressure relief, select No Pressure Relief Valve.

Hydraulic Block & Hold Series Valves



(Choose your options (in red) to configure your valve system model number.)





		1-1/2	Codo CO Flores	682F	Ι.		
D25	0 to 90 gpm			00ZF		ISO Size	Weight Ib (kg)
DZJ	o to so ghiii	0	Codo CO Flongo	692F		100 0120	troight ib (kg)
		2	Code 62 Flange	0925		D25	112.3 (50.9)
		45 gpm 2 Code 62 Flange			DZJ	112.3 (30.3)	
D32 0 to 1	0 to 145 anm		Code 62 Flange	792F		D32	142.8 (64.8)
	o to 1 to gpiii					DSZ	142.0 (04.0)

FLUID POWER PRODUCTS FOR PNEUMATIC SOLUTIONS:

- **Base Mounted Valves and Sub-Bases**
- **Line Mounted Valves**
- Manual & Mechanical Valves
- Flow Control Products
- Air Preparation Products (F-R-L's)
- Safety-Related Products
- **Press Safety Products**
- ROSS/FLEX® Solution
- **ROSS Integrated Systems**



WARRANTY, CAUTIONS and WARNINGS

Standard ROSS warranty, cautions and warnings apply, available upon request or at rosscontrols.com.

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