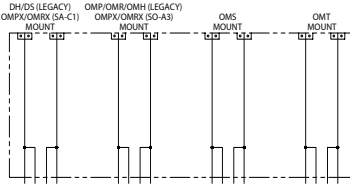
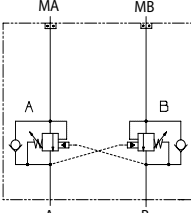
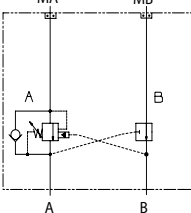


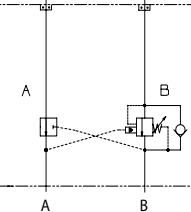
Motor Mount HIC Technical Information

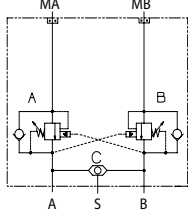
Quick Reference

Symbol	Description	Order No.	Page
	Motormount HIC Test Block	11025000	MM - 21

Symbol	Description	Motor	Model No.	Page
	Dual counterbalance valve	OMPX	MM-DH-00-DCB10-HV	MM - 22
		OMRX	MM-DS-00-DCB10-HV	MM - 23
		OMPX/OMRX	MM-OMP/OMR-00-DCB10-HV	MM - 24
		OMH	MM-OMH-00-DCP441-1	MM - 25
		OMS	MM-OMS-00-DCP441-1	MM - 26
		OMT	MM-OMT-00-DCP441-1	MM - 27

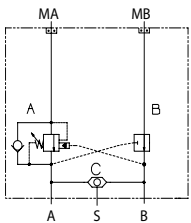
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (A port)	OMPX	MM-DH-00-ACB10-HV	MM - 28
		OMRX	MM-DS-00-ACB10-HV	MM - 29
		OMPX/OMRX	MM-OMP/OMR-00-ACB10-HV	MM - 30
		OMH	MM-OMH-00-ACP441-1	MM - 31
		OMS	MM-OMS-00-ACP441-1	MM - 32
		OMT	MM-OMT-00-ACP441-1	MM - 33

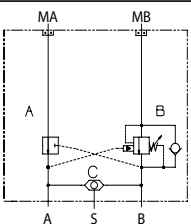
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (B port)	OMPX	MM-DH-00-BCB10-HV	MM - 34
		OMRX	MM-DS-00-BCB10-HV	MM - 35
		OMPX/OMRX	MM-OMP/OMR-00-BCB10-HV	MM - 36
		OMH	MM-OMH-00-BCP441-1	MM - 37
		OMS	MM-OMS-00-BCP441-1	MM - 38
		OMT	MM-OMT-00-BCP441-1	MM - 39

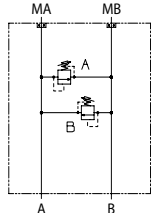
Symbol	Description	Motor	Model No.	Page
	Dual counterbalance valve with shuttle	OMPX	MM-DH-LS-DCB10-HV	MM - 40
		OMRX	MM-DS-LS-DCB10-HV	MM - 41
		OMPX/OMRX	MM-OMP/OMR-LS-DCB10-HV	MM - 42
		OMH	MM-OMH-LS-DCP441-1	MM - 43
		OMS	MM-OMS-LS-DCP441-1	MM - 44
		OMT	MM-OMT-LS-DCP441-1	MM - 45

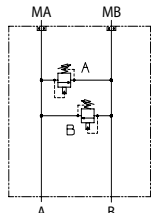
Motor Mount HIC Technical Information

Quick Reference

Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (A port) with shuttle	OMPX	MM-DH-LS-ACB10-HV	MM - 46
		OMRX	MM-DS-LS-ACB10-HV	MM - 47
		OMPX/OMRX	MM-OMP/OMR-LS-ACB10-HV	MM - 48
		OMH	MM-OMH-LS-ACP441-1	MM - 49
		OMS	MM-OMS-LS-ACP441-1	MM - 50
		OMT	MM-OMT-LS-ACP441-1	MM - 51

Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (B port) with shuttle	OMPX	MM-DH-LS-BCB10-HV	MM - 52
		OMRX	MM-DS-LS-BCB10-HV	MM - 53
		OMPX/OMRX	MM-OMP/OMR-LS-BCB10-HV	MM - 54
		OMH	MM-OMH-LS-BCP441-1	MM - 55
		OMS	MM-OMS-LS-BCP441-1	MM - 56
		OMT	MM-OMT-LS-BCP441-1	MM - 57

Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve	OMPX	MM-DH-00-DVME06	MM - 58
		OMRX	MM-DS-00-DVME06	MM - 59
		OMPX/OMRX	MM-OMP/OMR-00-DVME06	MM - 60

Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve	OMH	MM-OMH-00-DCP211-2	MM - 61
		OMS	MM-OMS-00-DCP211-2	MM - 62
		OMT	MM-OMT-00-DCP211-2	MM - 63



Motor Mount HIC Technical Information

Quick Reference

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port)	OMPX	MM-DH-00-AVME06	MM - 64
		OMRX	MM-DS-00-AVME06	MM - 65
		OMPX/OMRX	MM-OMP/OMR-00-AVME06	MM - 66

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port)	OMH	MM-OMH-00-ACP211-2	MM - 67
		OMS	MM-OMS-00-ACP211-2	MM - 68
		OMT	MM-OMT-00-ACP211-2	MM - 69

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port)	OMPX	MM-DH-00-BVME06	MM - 70
		OMRX	MM-DS-00-BVME06	MM - 71
		OMPX/OMRX	MM-OMP/OMR-00-BVME06	MM - 72

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port)	OMH	MM-OMH-00-BCP211-2	MM - 73
		OMS	MM-OMS-00-BCP211-2	MM - 74
		OMT	MM-OMT-00-BCP211-2	MM - 75



Motor Mount HIC Technical Information

Quick Reference

Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve with shuttle	OMPX	MM-DH-LS-DVME06	MM - 76
		OMRX	MM-DS-LS-DVME06	MM - 77
		OMPX/OMRX	MM-OMP/OMR-LS-DVME06	MM - 78

Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve with shuttle	OMH	MM-OMH-LS-DCP211-2	MM - 79
		OMS	MM-OMS-LS-DCP211-2	MM - 80
		OMT	MM-OMT-LS-DCP211-2	MM - 81

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port) with shuttle	OMPX	MM-DH-LS-AVME06	MM - 82
		OMRX	MM-DS-LS-AVME06	MM - 83
		OMPX/OMRX	MM-OMP/OMR-LS-AVME06	MM - 84

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port) with shuttle	OMH	MM-OMH-LS-ACP211-2	MM - 85
		OMS	MM-OMS-LS-ACP211-2	MM - 86
		OMT	MM-OMT-LS-ACP211-2	MM - 87



Motor Mount HIC Technical Information

Quick Reference

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port) with shuttle	OMPX	MM-DH-LS-BVME06	MM - 88
		OMRX	MM-DS-LS-BVME06	MM - 89
		OMPX/OMRX	MM-OMP/OMR-LS-BVME06	MM - 90

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port) with shuttle	OMH	MM-OMH-LS-BCP211-2	MM - 91
		OMS	MM-OMS-LS-BCP211-2	MM - 92
		OMT	MM-OMT-LS-BCP211-2	MM - 93

Symbol	Description	Motor	Model No.	Page
	Bypass solenoid with drain	OMPX	MM-DH-00-BSVP10-NCR	MM - 94
		OMRX	MM-DS-00-BSVP10-NCR	MM - 95
		OMPX/OMRX	MM-OMP/OMR-00-BSVP10-NCR	MM - 96
		OMH	MM-OMH-00-BSVP10-NCR	MM - 97
		OMS	MM-OMS-00-BSVP10-NCR	MM - 98
		OMT	MM-OMT-00-BCP502-3	MM - 99

Symbol	Description	Motor	Model No.	Page
	Dual shock valve with anticavitation	OMPX	MM-DH-00-DPVLP	MM - 100
		OMRX	MM-DS-00-DPVLP	MM - 101
		OMPX/OMRX	MM-OMP/OMR-00-DPVLP	MM - 102
		OMH	MM-OMH-00-DPVLP	MM - 103
		OMS	MM-OMS-00-DPVLP	MM - 104
		OMT	MM-OMT-00-DPVLP	MM - 105

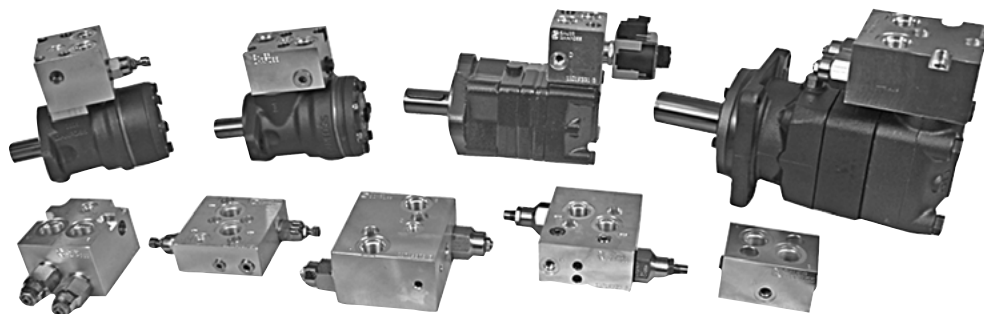
Motor Mount HIC Technical Information

Application Notes

OVERVIEW

This family of motor mount HICs (Hydraulic Integrated Circuits) complements Danfoss Power Solutions orbital motors—also known as Low Speed, High Torque (LSHT) motors. These HICs perform several complementary functions common in LSHT motor applications.

Motor mount HIC family



FUNCTIONS

There are four basic types of HIC functions, or schemes, with additional functions available:

- ☐ Counterbalance (or overcenter)
 - Dual or single valve on A or B port
 - With or without brake shuttle
- ☐ Cross-port relief
 - Dual or single valve on A or B port
 - With or without brake shuttle
- ☐ Bypass solenoid
 - With drain port
- ☐ Dual shock valve with anti-cavitation checks
 - Uses PVLP (shock valve from PVG line)
 - Dual only
 - Ductile iron manifold only

ADVANTAGES

There are advantages to using Danfoss ICS motor mount HICs:

- ☐ Pre-packaged designs, specifically for Danfoss motors
 - Pre-work is done to ensure proper assembly and mounting to motor
- ☐ System plumbing and packaging efficiencies
 - Reduction in fittings, tubing, and/or hoses
 - Reduction in assembly time
- ☐ HICs have been pre-tested to NFPA test standards
- ☐ *Off-the-shelf* solution of common valve functions applied with orbital motors



Motor Mount HIC Technical Information

Application Notes

ORBITAL MOTORS

There are seven specific Danfoss Power Solutions orbital motor types in this program. The table below highlights the motors and their basic technical information. For more information refer to the technical information manual number in the table. HICs fit only the porting configuration shown.

Motor Mount HIC

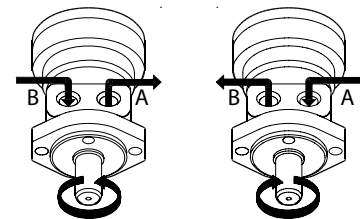
Motor type	MM-DH	MM-DS	MM-OMP/OMR	MM-OMH	MM-OMS	MM-OMT
DH (Legacy) BSP Porting	X					
DS (Legacy) BSP Porting		X				
OMP (Legacy) BSP Porting			X			
OMR (Legacy) BSP Porting			X			
OMPX (SA-C1) Aligned Manifold Porting	X					
OMPX (SO-A3) Offset BSP Porting			X			
OMRX (SA-C1) Aligned Manifold Porting		X				
OMRX (SO-A3) Offset BSP Porting			X			
OMH BSP Porting				X		
OMS BSP Porting					X	
OMT BSP Porting						X

Orbital Motor

Motor rotation

For the motor mount HIC program, the port designations are illustrated here. With the shaft facing you, A is the port on the right, while B is the port on the left.

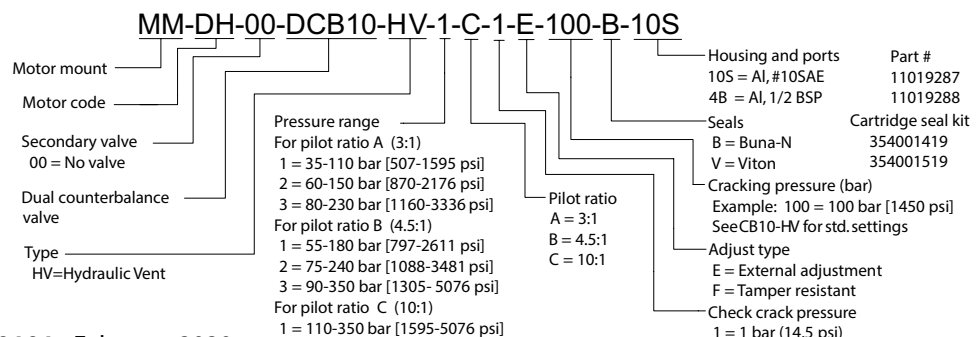
Motor rotation



Order code

The order code is easy to understand. Each code starts with MM for Motor Mount. The second field represents motor type (OMPX, OMRX, OMH, OMS, or OMT). The third field represents secondary valve (00 for none, LS for shuttle). The fourth field gives the primary valve position (D for dual, A port, or B port) followed by the cartridge used (CB10-HV, CP441-1, VME-06, CP211-1, SVP10-NCR, CP502-3 or PVLP). The remainder of the code details options specific to that cartridge, including port style on the HIC. See each individual valve in this section for a detailed breakdown of the available options.

Sample order code





Motor Mount HIC Technical Information

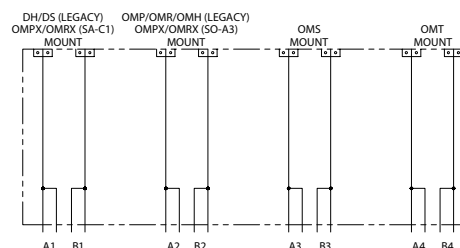
Application Notes

ORBITAL MOTORS (continued)

Important notes

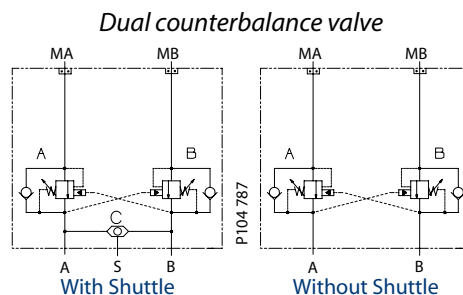
- ☐ Motors are sold separately from HICs.
 - Contact your Danfoss Power Solutions representative to order motors.
 - Refer to the motor technical information manual for detailed motor information.
- ☐ Mounting bolts and O-rings are included with the purchase of the HIC.
 - The service mount kit allows ordering of just bolts and O-rings.
 - All O-rings are viton.
- ☐ All HICs in this program are aluminum, except the dual shock valve HIC.
 - Dual shock valve housing is ductile iron.
 - For ductile iron on any other HIC, please contact your Danfoss ICS representative.
- ☐ OMPX/OMRX and OMH use the same mount, but OMH has higher flow capability.
 - The OMH uses different cartridges to accommodate the higher flow.
- ☐ OMPX (C1) and OMRX (C1) use the same mount, but OMRX (C1) requires an additional subplate to clear the motor housing.
 - This subplate is included with the purchase of the HIC.
 - The subplate is also included in the service mount kit for OMRX (C1) HICs.
- ☐ Motor mount HICs using dual valves have both valves set identically at the factory.
- ☐ Testing
 - A test block is available for HIC testing and adjustment of pressure settings.
 - The test block order number is **11025000**.
 - For further details, refer to the *Accessories* section of this catalog.

Test block schematic



COUNTERBALANCE VALVES

Counterbalance valves prevent motors from drifting excessively due to control valve leakage. They can hold the load in the event of hose/tube failure, or limit overrun when a load is in a lowering or runaway mode (vehicle going downhill). They provide a smooth, cushioned stop when the control valve is suddenly closed.

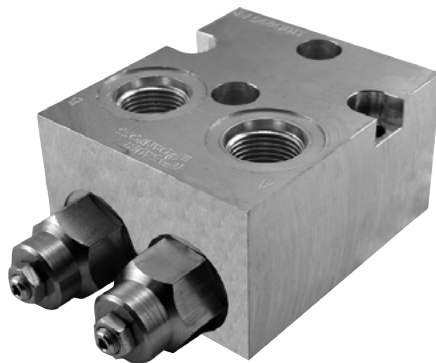


Counterbalance valves have a pilot ratio of 3.0:1, 4.5:1, or 10.0:1. Typical pilot ratio for motor applications is 10.0:1

An optional shuttle valve is available for functions such as load sensing feedback, operating an unloading valve, or releasing a brake. The shuttle connects the highest pressure port (A or B) to the S port.

Configurations are available with dual counterbalance valves, or single valve on A or B port. Typical counterbalance applications include swing drives, winch drives, and vehicle propulsion. For more information about counterbalance valves, see *Counterbalance valves* catalog.

Dual counterbalance valve





Motor Mount HIC Technical Information

Application Notes

COUNTERBALANCE VALVES (continued)

Sample system circuits

Motor with dual counterbalance valve

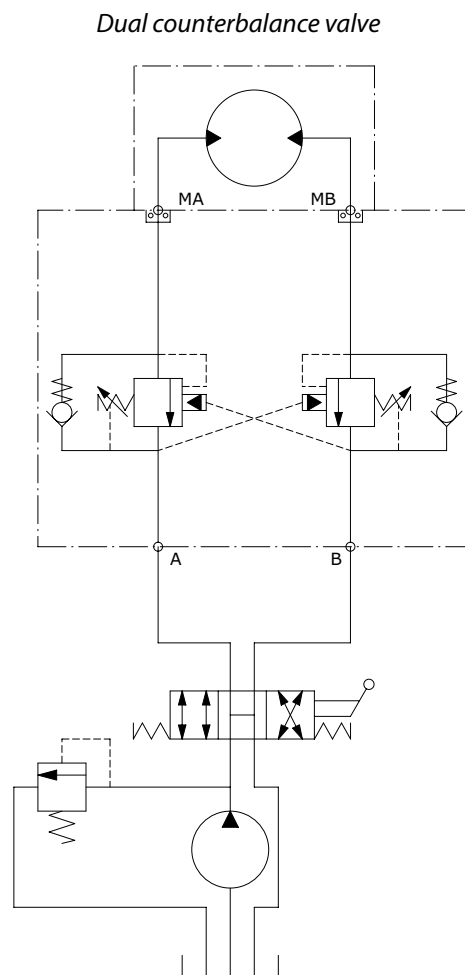
A typical rotary circuit application for a counterbalance valve contains a pump, directional control valve, system relief valve, and motor. Without a counterbalance valve there is no back pressure to hold the load on the motor, or to prevent free rotation when the control valve shifts to the neutral position. Additionally nothing prevents motor rotation in the event of hydraulic line failure.

A counterbalance valve controls motion. It also provides protection against hose or tube failure. In this circuit, a dual counterbalance HIC is mounted to a standard motor, providing functionality in both directions.

Moving the directional control valve to the left causes the motor to rotate in one direction. The motor rotates the load with free flow going through the check valve portion of the counterbalance valve, while piloting open the opposite counterbalance valve to allow flow to discharge from the motor.

When the directional control valve is centered, the counterbalance valve prevents leakage and locks the load in position. Moving the directional control valve to the right sends flow to rotate the motor in the opposite direction.

If the load causes the motor to overrun the pump, pilot pressure to the downstream counterbalance valve decreases and the valve modulates to match the motor speed to the pump flow.



Typical application of dual counterbalance valve in a motor circuit.



Motor Mount HIC Technical Information

Application Notes

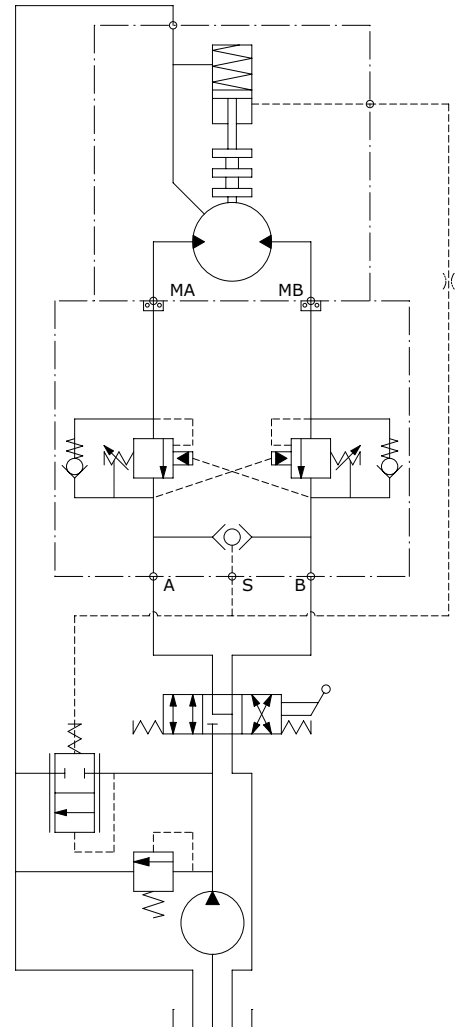
COUNTERBALANCE VALVES (continued)

Motor with dual counterbalance valve and shuttle operating a brake and unloading valve
Adding a load sense, or brake shuttle valve allows further functionality. In this circuit, an integral brake and an unloading valve (logic element), are added. The shuttle valve senses the higher pressure work port and provides pressure to release the brake when the system pressure exceeds the minimum brake release pressure.

When the directional control valve shifts in either direction, pressure builds in the circuit to release the brake and allows the motor to rotate. As shown in the diagram, an orifice provides a slight delay in timing the brake release. When the directional control valve is centered, the brake re-engages. Additionally, the LS pressure signal pilots an unloading valve.

When the directional control valve is centered, pressure builds at the outlet of the gear pump and opens the unloading valve, allowing the pump flow to bypass the circuit and exhaust into the reservoir. When the directional control valve shifts in either direction, the unloading valve is piloted to stay in the closed position, thus allowing pump flow to enter the working circuit. Similarly, this LS pressure could communicate flow demand to a load sensing open circuit piston pump.

Dual counterbalance with shuttle



Motor with integral brake, system includes pump unloading valve.

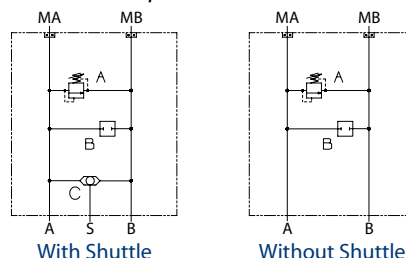
CROSS-PORT RELIEF VALVES

The cross-port relief valve controls maximum torque of the motor. It provides overpressure protection for the work ports. The cross port relief valve is a full-flow relief. It can bypass all motor flow when pressure reaches the relief setting.

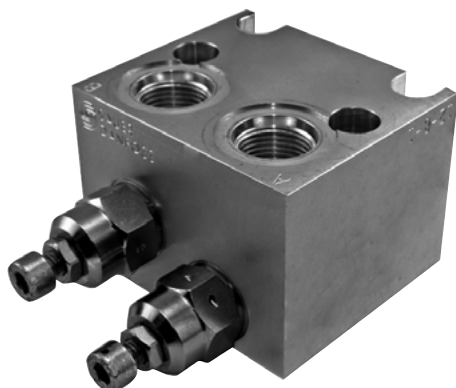
The cross-port relief valve is available in configurations with dual (cross-port) valves or with relief on A or B port only. An optional shuttle valve is also available for load-sensing pumps or auxiliary functions such as brake release.

Typical applications for cross-port relief valves include vehicle propulsion, auger drives, conveyer drives, and slew drive. Any rotary application requiring pressure limiting can benefit from a motor-mounted cross-port relief valve. For more information on relief valves, see **Relief Valves** catalog.

Dual cross-port relief with shuttle



Cross-port relief valve





Motor Mount HIC Technical Information

Application Notes

CROSS-PORT RELIEF VALVES (continued)

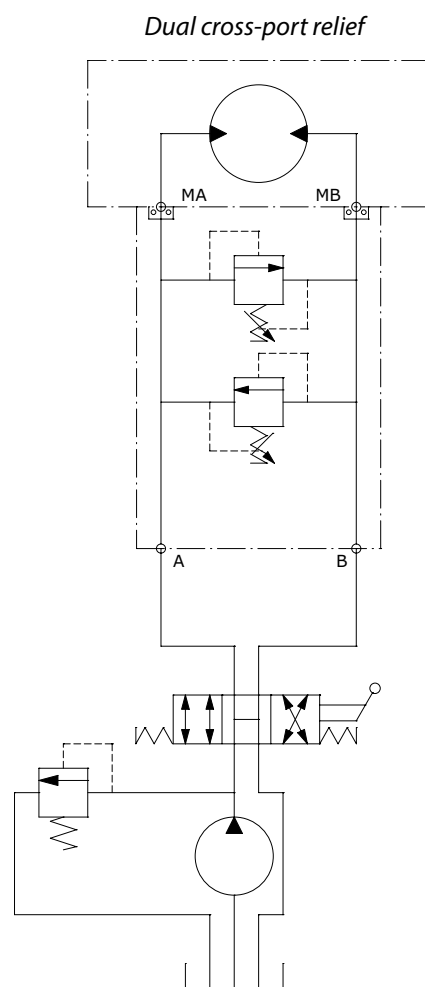
Sample system circuits

Motor with dual cross-port relief

A typical rotary circuit application for a cross-port relief valve contains a pump, directional control valve, system relief valve, and motor. Without a cross-port relief valve there is no overpressure protection at motor work ports. A cross-port relief valve controls motor torque while reducing system component fatigue.

In this circuit, a dual cross-port relief HIC is mounted to a standard motor, providing functionality in both directions. Moving the directional control valve to the left causes the motor to rotate in one direction. When the load exceeds the valve setting, the valve opens allowing the flow to bypass to the opposite work port. The cross-port relief valve remains open until the load on the motor decreases below the pressure setting.

The system relief valve shown in this circuit provides the primary pressure protection. The directional control valve can isolate the pump and motor while shifting, making independent pressure protection necessary. A motor-mounted cross-port relief is typically used in circuits where limiting the torque from the load is critical, where the load is very dynamic, or where distance from the system relief limits responsiveness.



Simple rotary circuit with dual cross-port relief valve.



Motor Mount HIC Technical Information

Application Notes

CROSS-PORT RELIEF VALVES (continued)

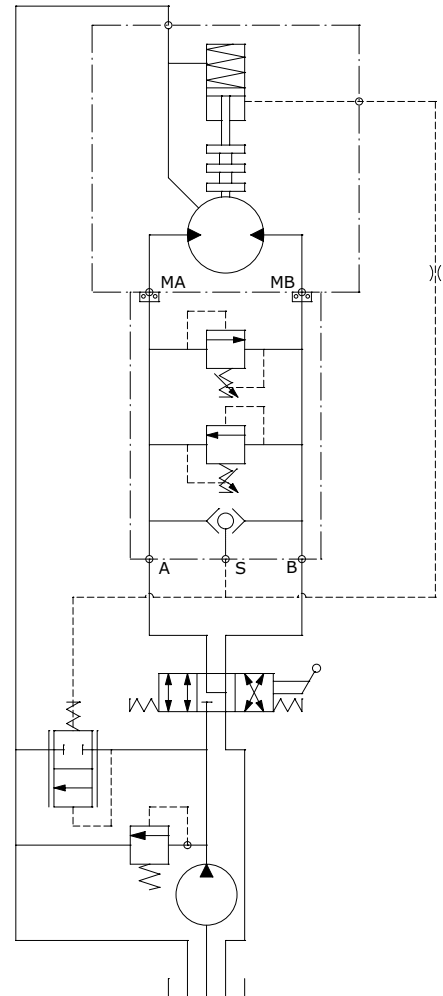
Motor with dual cross-port relief, and shuttle operating a brake and unloading valve

Adding a load sense, or brake shuttle valve allows further functionality. In this circuit, an integral brake and an unloading valve (logic element), are added. The shuttle valve senses the higher pressure work port and provides pressure to release the brake when the system pressure exceeds the minimum brake release pressure.

When the directional control valve shifts in either direction, pressure builds in the circuit to release the brake and allows the motor to rotate. As shown in the diagram, an orifice provides a slight delay in timing the brake release. When the directional control valve is centered, the brake re-engages. Additionally, the LS pressure signal pilots an unloading valve.

When the directional control valve is centered, pressure builds at the outlet of the gear pump and opens the unloading valve, allowing the pump flow to bypass the circuit and exhaust into the reservoir. When the directional control valve shifts in either direction, the unloading valve is piloted to stay in the closed position, thus allowing pump flow to enter the working circuit. Similarly, this LS pressure could communicate flow demand to a load sensing open circuit piston pump.

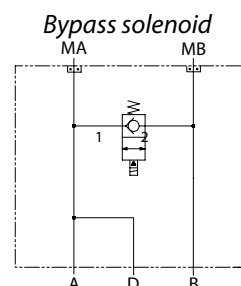
Dual cross-port relief with shuttle



Motor with integral brake, system includes pump unloading valve.

BYPASS SOLENOID VALVES

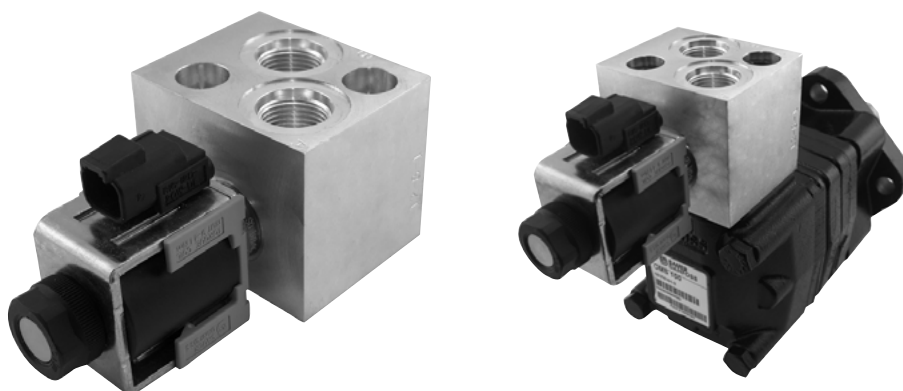
The bypass solenoid allows an electric signal to enable/disable motor rotation independent of system hydraulics. The normally closed solenoid valve bypasses flow from B to A when energized. This function is unidirectional. Contact your Danfoss ICS representative if you require reverse logic or if you want to use a flow control valve instead of a solenoid.



The manifold includes a drain port connected to port A to simplify circuit plumbing. Depending on motor drain pressure capabilities, you may connect the motor drain directly to port D on the HIC instead of routing it back to the reservoir.

Typical uses for this valve include applications requiring individual motors on the same circuit to be turned off independently, disabling motor during system start-up to limit pressure losses, and on/off fan drive applications. For further information on solenoid valves, see *Solenoid Valves* catalog.

Bypass solenoid valve with robust coil





Motor Mount HIC Technical Information

Application Notes

BYPASS SOLENOID VALVES (continued)

Sample system circuits

Motor with drain, no directional valve

A typical rotary circuit application for a bypass solenoid valve contains a pump, system relief valve, motor, and in most cases, a directional control valve. The bypass solenoid valve allows an electrically-actuated method of bypassing flow at the motor.

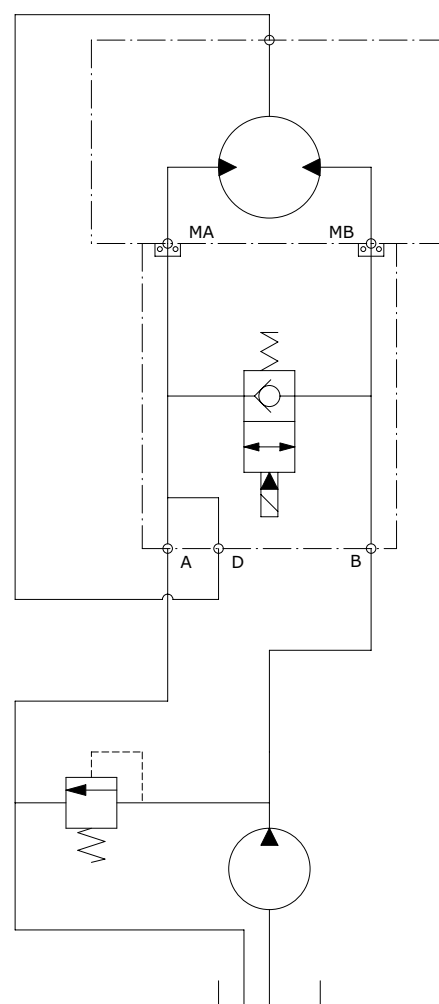
A bypass solenoid valve, when energized, stops the motor rotating by bypassing flow around the motor. In this circuit, a bypass solenoid HIC is mounted to a motor with a drain port, providing functionality in only one direction of motor rotation. The pump provides flow directly to one port of the HIC.

Flow normally goes through the motor and exits the opposite port to the reservoir. When the bypass solenoid valve is energized, the flow bypasses the motor. This causes the motor to stop rotating even though the pump continues to provide flow.

Because this circuit only flows in one direction, and the HIC drain port connects to the discharge port, the motor drain port can connect directly to the HIC. This simplifies system plumbing. You can eliminate the motor drain line to the reservoir. If the motor does not have a case drain, cap the HIC drain port.

The system relief provides pressure protection in this circuit. A circuit similar to this is typically used in systems where the motor only needs to rotate in one direction, a directional control valve is not required, and the application requires the motor to disengage while the pump flow continues.

Bypass solenoid with drain port



This circuit has no directional valve. The solenoid bypass valve controls motor rotation (on/off).

BYPASS SOLENOID VALVES (continued)

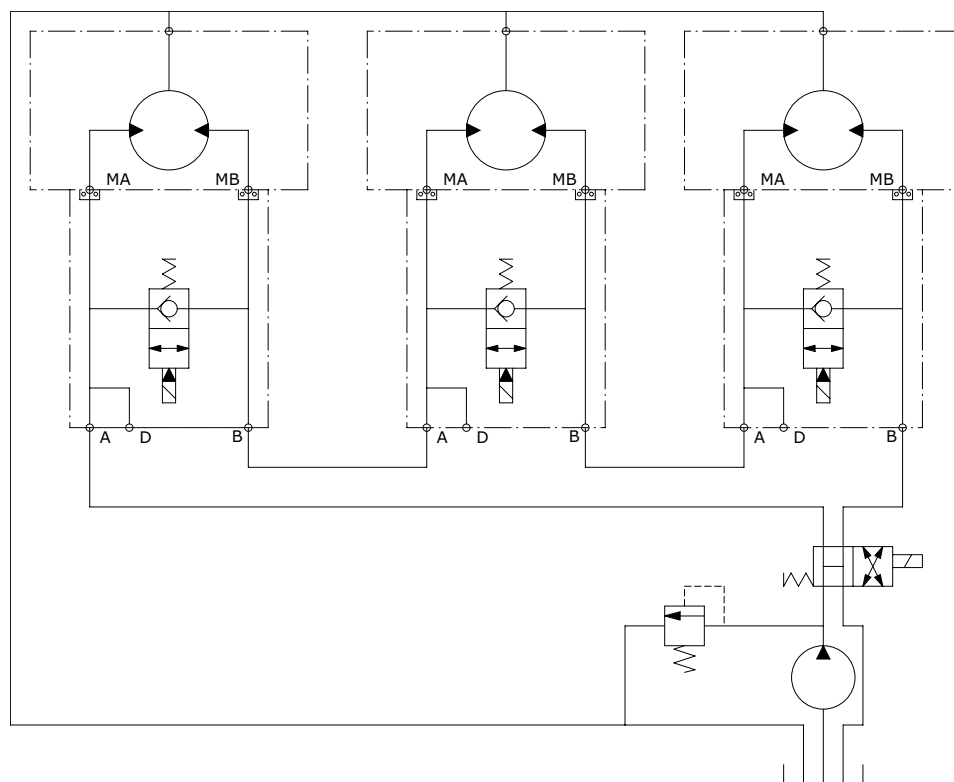
Motors in series

Another potential application of the solenoid bypass valve is one with two or more motors in series. This circuit contains a pump, directional control valve, system relief valve, and a series of motors with drain ports. The motors rotate in one direction, so the system uses a two-position directional valve.

When the directional control valve shifts to the left, flow enters and exits the motor on the right, then through the motor in the middle, through the left motor, then back to the directional control valve and discharges to the reservoir. The function of the solenoid bypass valve in this circuit is to engage and disengage motors that use the same flow source. Any of the three motors can be bypassed individually while maintaining the series flow through the circuit.

Because the drain port connects directly to the discharge port, you cannot use it with motors in series. This circuit is typical of conveyor or auger systems where multiple motors use a common flow source.

Bypass solenoid valve with motors in series



This circuit uses three motors in series with a solenoid operated directional valve and pump relief.

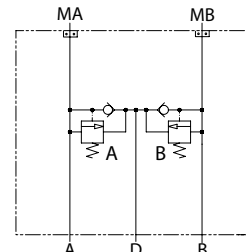
Motor Mount HIC Technical Information

Application Notes

DUAL SHOCK VALVE WITH ANTICAVITATION CHECKS

This valve provides overpressure protection of the motor work ports. It absorbs momentary pressure spikes (shock effects). It is not a full-flow pressure relief valve: Use the dual cross-port relief HIC for full-flow pressure protection or torque limitation. The valve protects the motor from cavitation by allowing additional flow to the motor through the drain port when the motor overruns the pump. This is useful in series wheel-drive applications where one motor must turn faster than the other while the vehicle is cornering. Other applications include auger drives, conveyer drives, slew drives, or any rotary working circuits that experience shock effects.

Dual shock valve with anticavitation checks



A dual shock valve with anti-cavitation motor mount HIC is typically used in circuits where limiting the torque spikes from the load is critical, where the load is very dynamic, or where distance from the system relief valve causes delayed responsiveness. The anticavitation function is also beneficial in high inertial load applications.

Because the valves seat on the cavity, the housing is made of ductile iron. This limits wear. Only dual valve configurations are available. This HIC uses the PVLP shock valves from our PVG line of flow-sharing directional valves. For more information on PVLP, refer to the **PVG 32 Technical Information Manual, 520L0344**.

Dual shock valve with anticavitation checks





Motor Mount HIC Technical Information

Application Notes

DUAL SHOCK VALVE WITH ANTICAVITATION CHECKS (continued)

Sample system circuit

Single motor with drain, open center/closed port directional valve

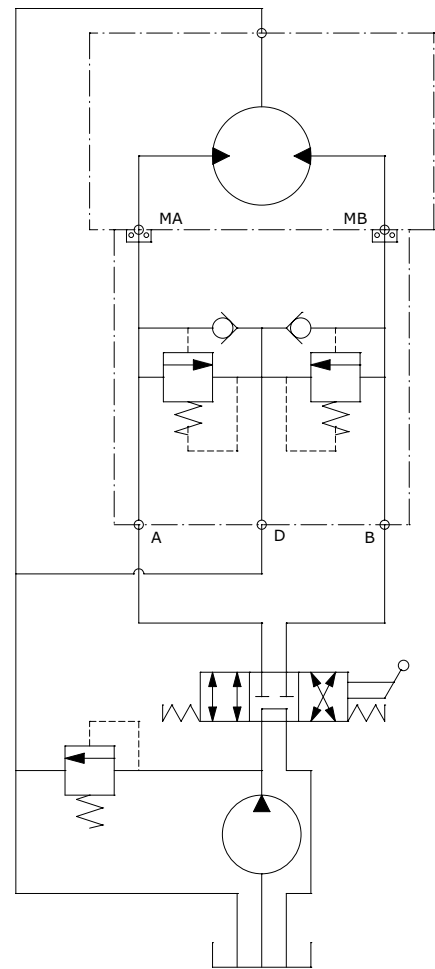
A typical rotary circuit application for a shock valve with anticavitation contains a pump, directional control valve, system relief valve, and motor. Without this valve there is no over-pressure protection at the motor work ports and no protection against cavitation during overrun.

In this circuit, a dual shock valve with anticavitation HIC is mounted to a standard motor, providing functionality in both directions. Moving the directional control valve to the left causes the motor to rotate in one direction. When the motor load exceeds the pressure setting of the shock valve, the valve opens allowing flow to bypass to the drain port. If the drain port is not connected, the flow discharges through the anticavitation check to the opposite system port. The shock valve remains open until the load on the motor decreases below the pressure setting.

The system relief valve in this circuit provides full-flow pressure protection close to the gear pump. The shock valves protect the circuit from pressure spikes closest to the load.

The anticavitation function prevents motor cavitation when the motor overruns pump flow. For anticavitation to function properly, it requires a flow source, typically drawing from the reservoir through the drain port as shown in the circuit.

Dual shock valve with anticavitation checks



Single motor with closed center directional valve and system relief valve. Connection at port D is necessary for anticavitation function.

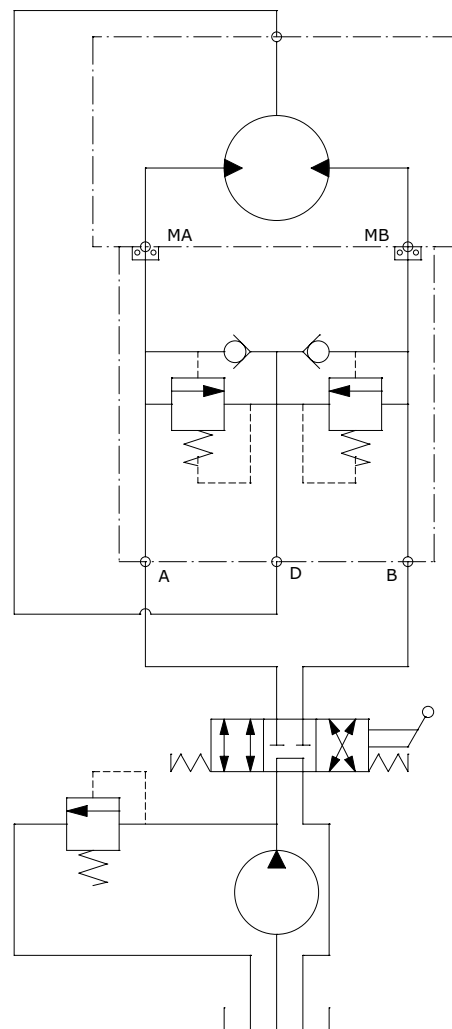
DUAL SHOCK VALVE WITH ANTICAVITATION CHECKS (continued)

Using anticavitation checks as drain checks

Applications that do not require anticavitation protection can use the anticavitation checks as drain checks. Connecting the motor drain directly to the drain port on the HIC allows drain flow to join motor discharge and return to the reservoir through the directional control valve. This saves running a motor drain to the reservoir, but doing this defeats the anticavitation feature: Do not apply the valve in this fashion unless your application never experiences overrunning loads.

Because the drain port is connected to the motor case, pressure spikes in this circuit discharge through the downstream motor port.

Dual shock valve with motor drain



Single motor with drain shown. Connect motor drain to port D on HIC to use anticavitation checks as drain checks. This defeats anticavitation function.



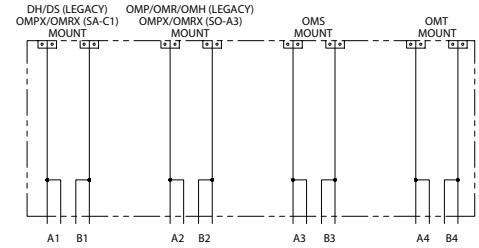
Motor Mount HIC Technical Information

MMHIC Test Block - 11025000

OPERATION

Use this steel test block for setting or testing motor-mount HICs. It contains the mounting patterns for OMPX, OMRS, OMH, OMP, OMR, OMS, and OMT motors. Interface ports are SAE.

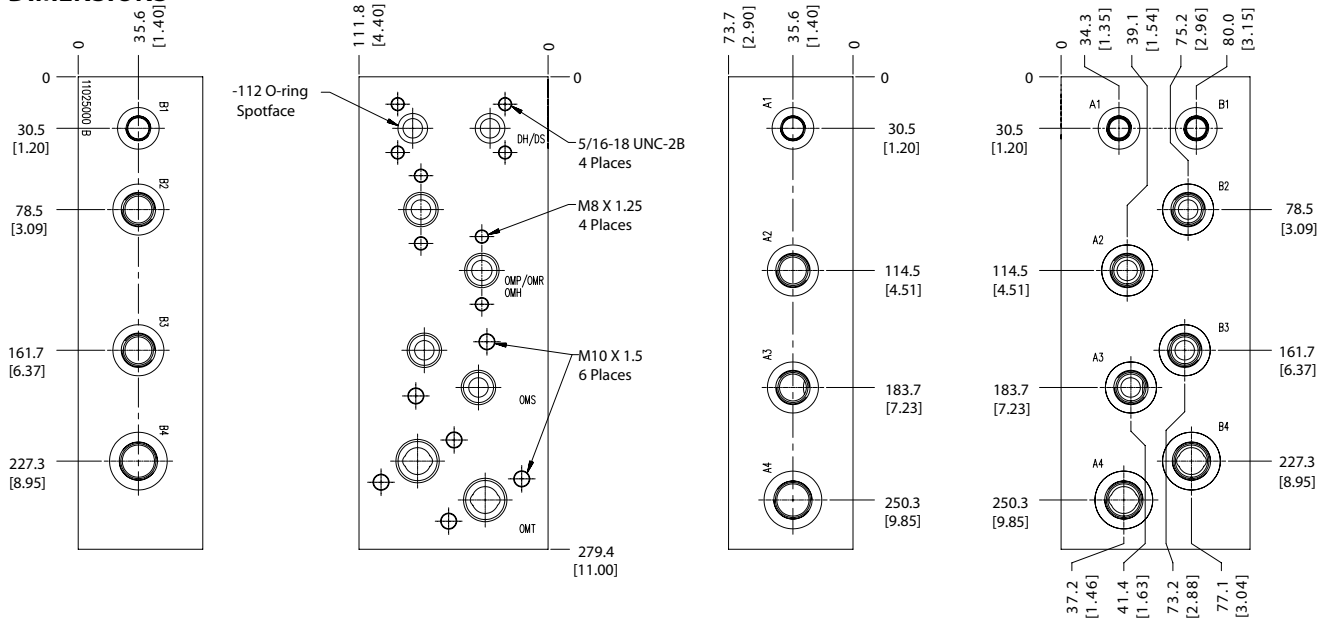
Schematic Diagram



SPECIFICATIONS

Rated pressure	345 bar [5000 psi]
Weight	16.21 kg [35.7 lb]
Ports	
A1/B1	SAE #6
A2/B2	SAE #8
A3/B3	SAE #8
A4/B4	SAE #10

DIMENSIONS



ORDERING INFORMATION

Order Number - **11025000**



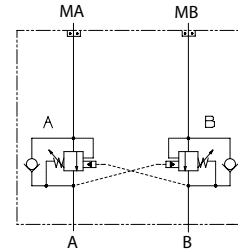
Motor Mount HIC Technical Information

MM-DH-00-DCB10-HV

OPERATION

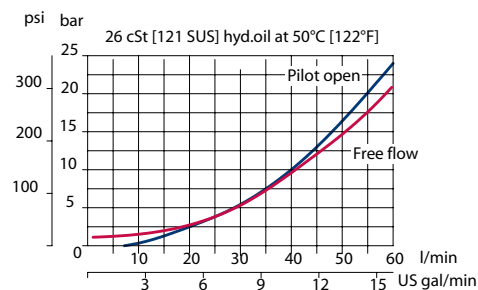
This is a dual counterbalance HIC that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



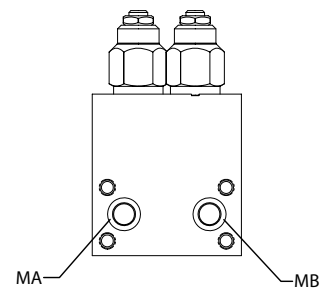
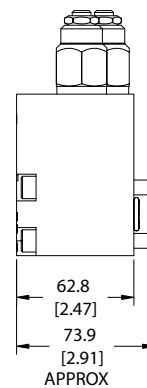
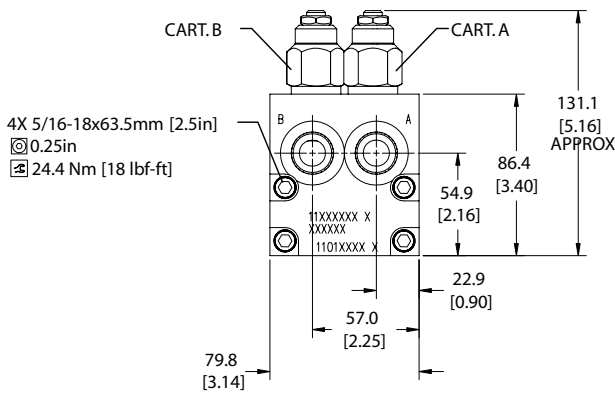
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

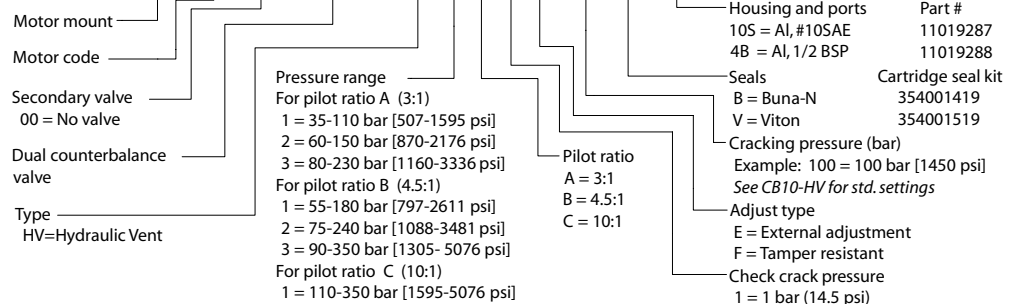
mm [in]



HIC Includes:
- 5/16-18 x 2.5" bolts (4X)
- (-112) O-rings, Viton (12.37x2.62 mm) (2X)

ORDERING INFORMATION

MM-DH-00-DCB10-HV-1-C-1-E-100-B-10S





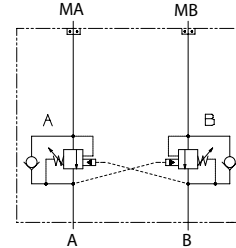
Motor Mount HIC Technical Information

MM-DS-00-DCB10-HV

OPERATION

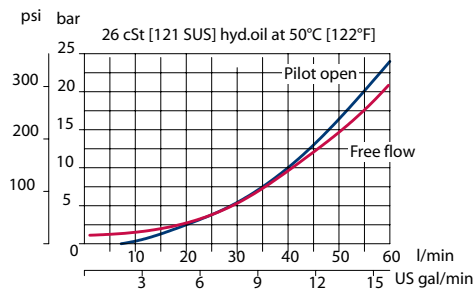
This is a dual counterbalance HIC that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



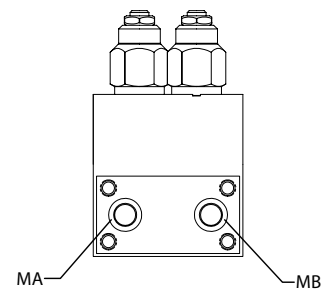
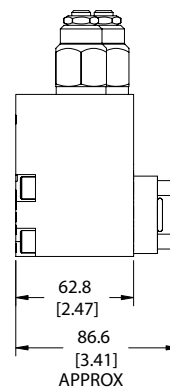
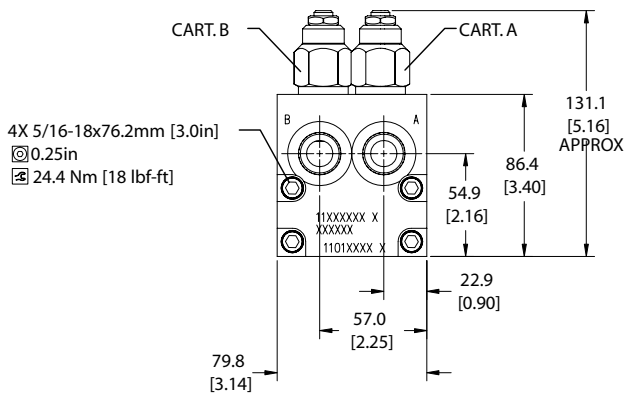
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

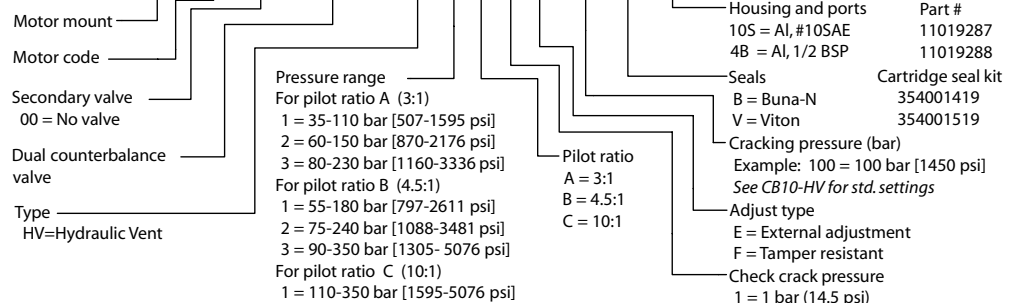
mm [in]



HIC Includes:
- 5/16-18 x3.0" bolts (4X)
- (-112) O'rings, Viton (12.37x2.62 mm) (4X)
- Sub-plate

ORDERING INFORMATION

MM-DS-00-DCB10-HV-1-C-1-E-100-B-10S





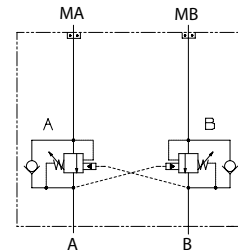
Motor Mount HIC Technical Information

MM-OMP/OMR-00-DCB10-HV

OPERATION

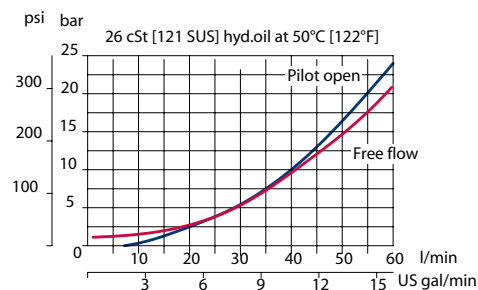
This is a dual-counterbalance HIC that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



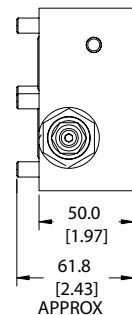
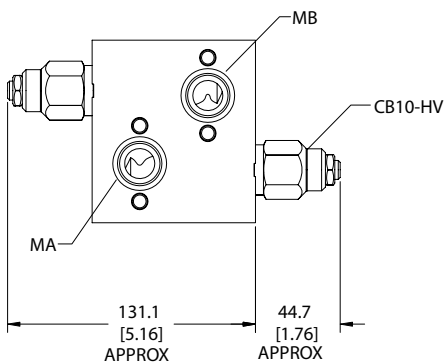
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Service mount kit	11023162
Motor	OMPX/OMRX

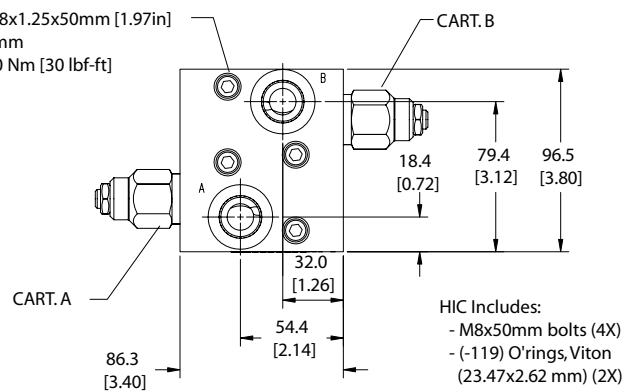
DIMENSIONS

Cross-sectional view

mm [in]



4X M8x1.25x50mm [1.97in]
6mm
40 Nm [30 lbf-ft]



ORDERING INFORMATION

MM-OMP/OMR-00-DCB10-HV-1-C-1-E-100-B-10S

Motor mount	Motor code	Secondary valve	Dual counterbalance valve	Type	Pressure range	Pilot ratio	Housing and ports	Part #
		00 = No valve		HV=Hydraulic Vent	For pilot ratio A (3:1)	A = 3:1	10S = AI, #10SAE	11026313
					1 = 35-110 bar [507-1595 psi]	B = 4.5:1	4B = AI, 1/2 BSP	11026314
					2 = 60-150 bar [870-2176 psi]	C = 10:1	Seals	Cartridge seal kit
					3 = 80-230 bar [1160-3336 psi]		B = Buna-N	354001419
					For pilot ratio B (4.5:1)		V = Viton	354001519
					1 = 55-180 bar [797-2611 psi]		Cracking pressure (bar)	
					2 = 75-240 bar [1088-3481 psi]		Example: 100 = 100 bar [1450 psi]	
					3 = 90-350 bar [1305-5076 psi]		See CB10-HV for std. settings	
					For pilot ratio C (10:1)		Adjust type	
					1 = 110-350 bar [1595-5076 psi]		E = External adjustment	
							F = Tamper resistant	
							Check crack pressure	
							1 = 1 bar (14.5 psi)	



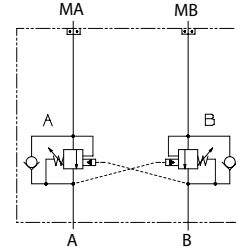
Motor Mount HIC Technical Information

MM-OMH-00-DCP441-1

OPERATION

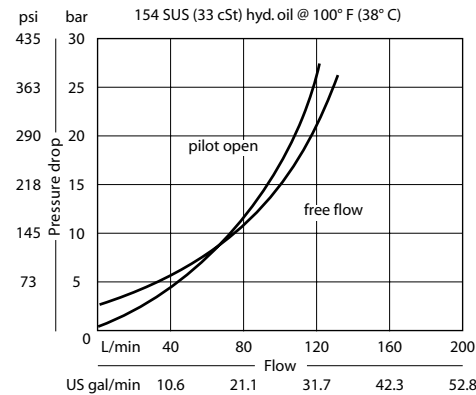
This is a dual-counterbalance HIC that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance

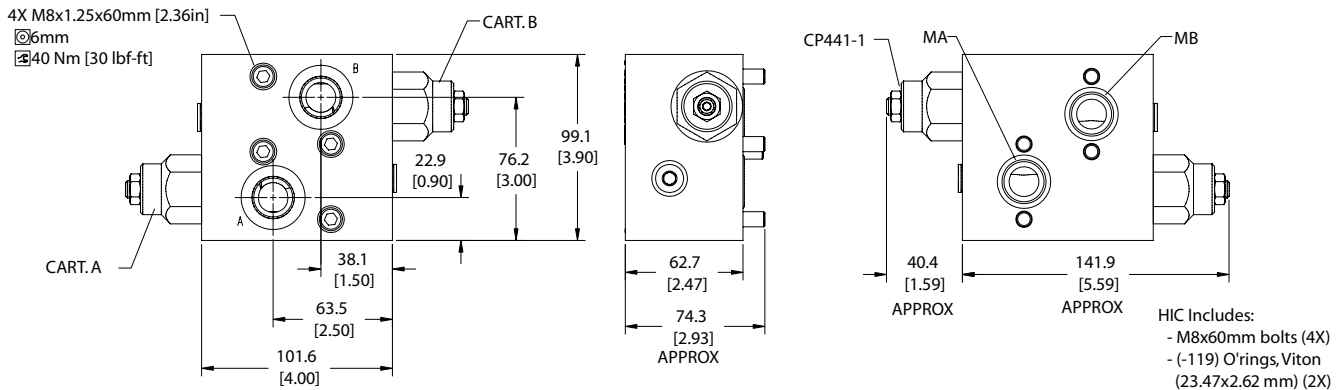


Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view



ORDERING INFORMATION

MM-OMH-00-DCP441-1-B-10S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Dual counterbalance valve	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		00 = No valve		B = Buna-N V = Viton	120335 120336	10S = AI, #10SAE 4B = AI, 1/2 BSP	11026315 11026316	E = External adjustment F = Tamper resistant	See CP441-1 for std. settings For pilot ratio 3:1 A = 34-103 bar [500-1500 psi] B = 103-207 bar [1500-3000 psi] For pilot ratio 4.5:1 A = 34-138 bar [500-2000 psi] B = 103-345 bar [1500-5000 psi] For pilot ratio 10:1 A = 69-345 bar [1000-5000 psi]	005 = .34 bar (5 psi) 015 = 1.03 bar (15 psi)	3.0:1 4.5:1 10.0:1	Code x 10 = psi Example: 050 = 500 psi



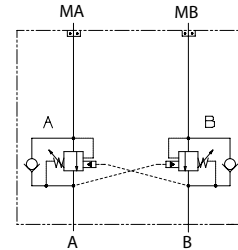
Motor Mount HIC Technical Information

MM-OMS-00-DCP441-1

OPERATION

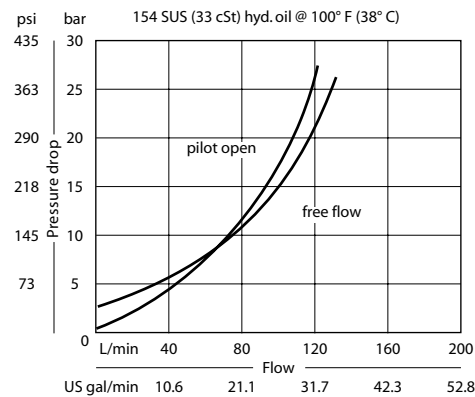
This is a dual-counterbalance HIC that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance

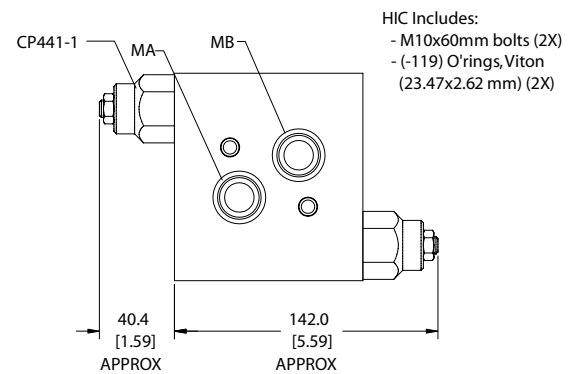
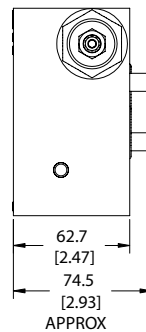
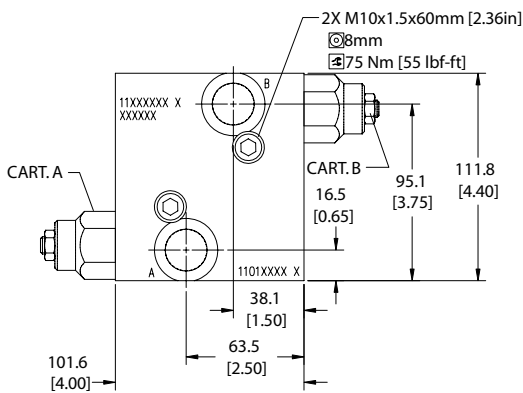


Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Service mount kit	11023867
Motor	OMS

DIMENSIONS

Cross-sectional view



ORDERING INFORMATION

MM-OMS-00-DCP441-1-B-10S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Dual counterbalance valve	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		00 = No valve		B = Buna-N	120335	10S = Al, #10SAE	11026317	E = External adjustment	See CP441-1 for std. settings	005 = .34 bar (5 psi)	3.0:1	Code x 10 = psi
				V = Viton	120336	4B = Al, 1/2 BSP	11026318	F = Tamper resistant	For pilot ratio 3:1	015 = 1.03 bar (15 psi)	4.5:1	Example: 050 = 500 psi
									A = 34-103 bar [500-1500 psi]		10.0:1	
									B = 103-207 bar [1500-3000 psi]			
									For pilot ratio 4.5:1			
									A = 34-138 bar [500-2000 psi]			
									B = 103-345 bar [1500-5000 psi]			
									For pilot ratio 10:1			
									A = 69-345 bar [1000-5000 psi]			



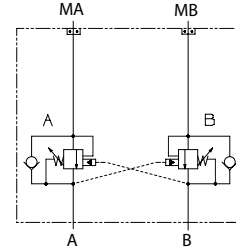
Motor Mount HIC Technical Information

MM-OMT-00-DCP441-1

OPERATION

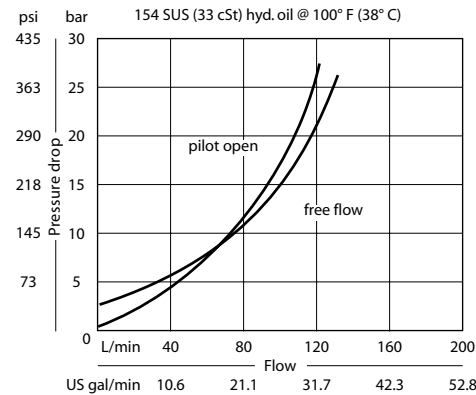
This is a dual-counterbalance HIC that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



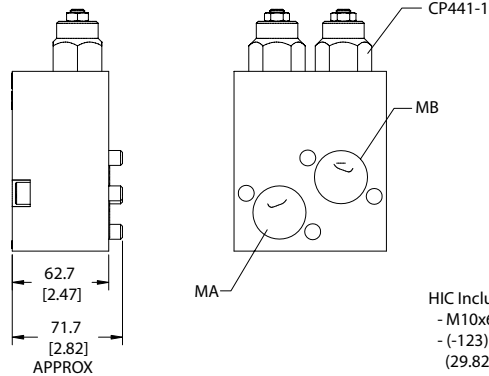
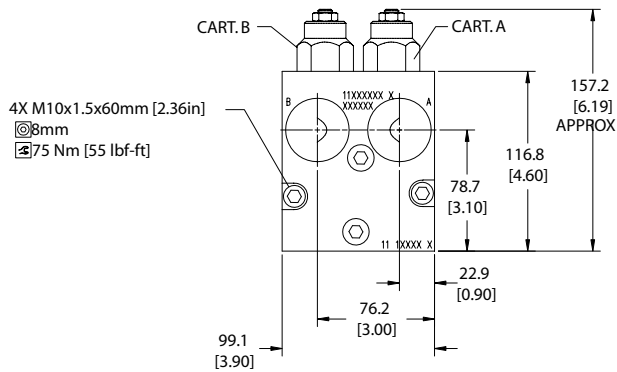
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.20 kg [4.85 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

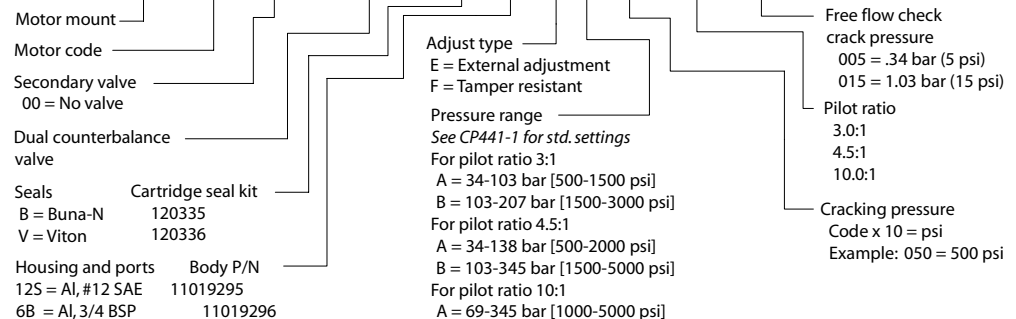
mm [in]



HIC Includes:
- M10x60mm bolts (4X)
- (-123) O'rings, Viton (29.82x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMT-00-DCP441-1-B-12S-E-A-250-10.0-015





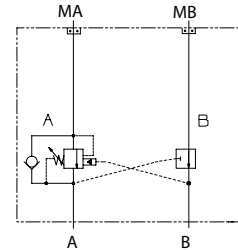
Motor Mount HIC Technical Information

MM-DH-00-ACB10-HV

OPERATION

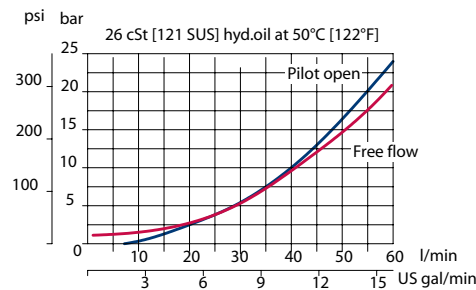
This is a single-counterbalance HIC (A port) that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



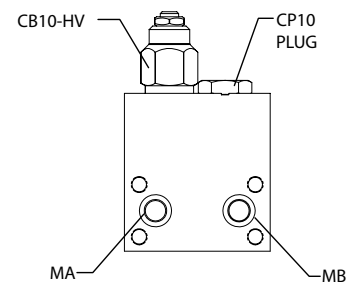
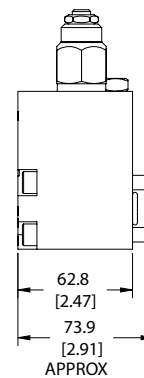
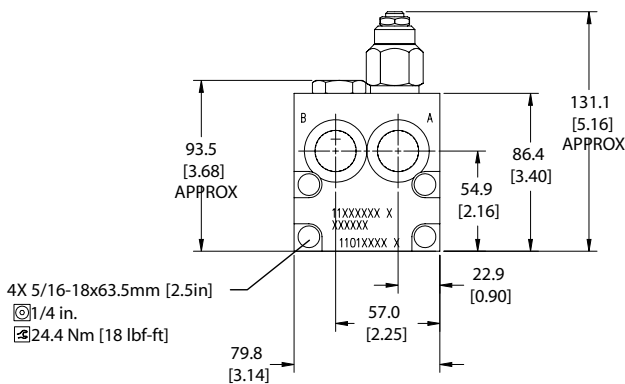
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- 5/16-18 x 2.5" bolts (4X)
- (-112) O-rings, Viton (12.37x2.62 mm) (2X)

ORDERING INFORMATION

MM-DH-00-ACB10-HV-1-C-1-E-100-B-10S

Motor mount

Motor code

Secondary valve

00 = No valve

Single counterbalance valve on 'A' port

Type

HV=Hydraulic Vent

Pressure range

For pilot ratio A (3:1)

1 = 35-110 bar [507-1595 psi]

2 = 60-150 bar [870-2176 psi]

3 = 80-230 bar [1160-3336 psi]

For pilot ratio B (4.5:1)

1 = 55-180 bar [797-2611 psi]

2 = 75-240 bar [1088-3481 psi]

3 = 90-350 bar [1305-5076 psi]

For pilot ratio C (10:1)

1 = 110-350 bar [1595-5076 psi]

Housing and ports

10S = Al, #10SAE

4B = Al, 1/2 BSP

Seals

B = Buna-N

V = Viton

Cracking pressure (bar)

Example: 100 = 100 bar [1450 psi]

See CB10-HV for std. settings

Adjust type

E = External adjustment

F = Tamper resistant

Check crack pressure

1 = 1 bar (14.5 psi)

Part #
10S = Al, #10SAE 11019287
4B = Al, 1/2 BSP 11019288

Cartridge seal kit
B = Buna-N 354001419
V = Viton 354001519



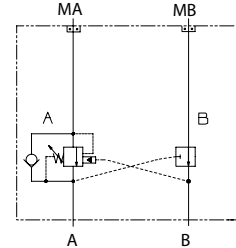
Motor Mount HIC Technical Information

MM-DS-00-ACB10-HV

OPERATION

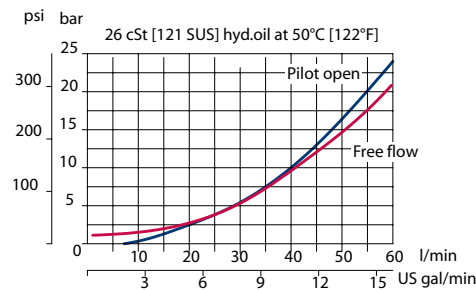
This is a single-counterbalance HIC (A port) that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



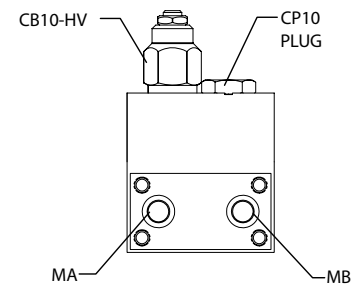
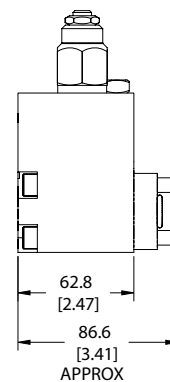
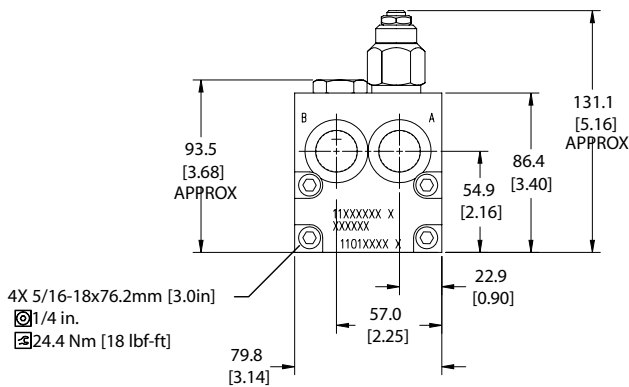
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
 - 5/16-18 x 3.0" bolts (4X)
 - (-112) O-rings, Viton (12.37x2.62 mm) (4X)
 - Sub-plate

ORDERING INFORMATION

MM-DS-00-ACB10-HV-1-C-1-E-100-B-10S

Motor mount

Motor code

Secondary valve

00 = No valve

Single counterbalance valve on 'A' port

Type

HV=Hydraulic Vent

Pressure range
 For pilot ratio A (3:1)
 1 = 35-110 bar [507-1595 psi]
 2 = 60-150 bar [870-2176 psi]
 3 = 80-230 bar [1160-3336 psi]
 For pilot ratio B (4.5:1)
 1 = 55-180 bar [797-2611 psi]
 2 = 75-240 bar [1088-3481 psi]
 3 = 90-350 bar [1305-5076 psi]
 For pilot ratio C (10:1)
 1 = 90-350 bar [1305-5076 psi]

Pilot ratio
 A = 3:1
 B = 4.5:1
 C = 10:1

Housing and ports
 10S = AI, #10SAE
 4B = AI, 1/2 BSP

Part #
 11019287
 11019288

Seals
 B = Buna-N
 V = Viton

Cartridge seal kit
 354001419
 354001519

Cracking pressure (bar)

Example: 100 = 100 bar [1450 psi]

See CB10-HV for std. settings

Adjust type

E = External adjustment

F = Tamper resistant

Check crack pressure

1 = 1 bar (14.5 psi)



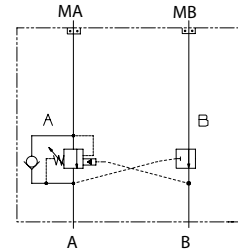
Motor Mount HIC Technical Information

MM-OMP/OMR-00-ACB10-HV

OPERATION

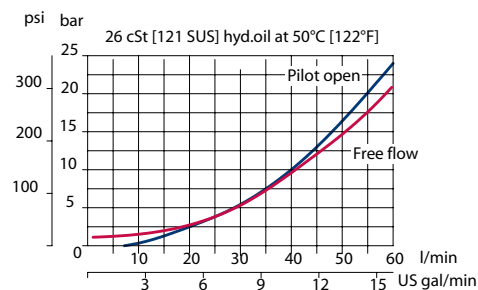
This is a single-counterbalance HIC (A port) that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



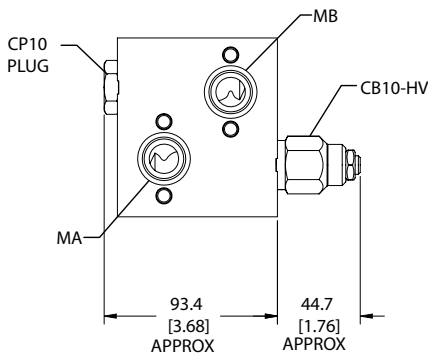
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023162
Motor	OMPX/OMRX

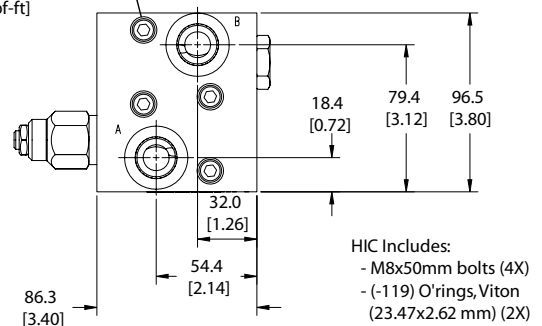
DIMENSIONS

Cross-sectional view

mm [in]



4X M8x1.25x50mm [1.97in]
 6mm
 40 Nm [30 lbf-ft]



ORDERING INFORMATION

MM-OMP/OMR-00-ACB10-HV-1-C-1-E-100-B-10S

Motor mount	Housing and ports	Part #
Motor code	10S = Al, #10SAE	11026313
Secondary valve	4B = Al, 1/2 BSP	11026314
00 = No valve	Seals	Cartridge seal kit
Single counterbalance valve on 'A' port	B = Buna-N	354001419
Type	V = Viton	354001519
HV=Hydraulic Vent	Cracking pressure (bar)	
	Example: 100 = 100 bar [1450 psi]	
	See CB10-HV for std. settings	
	Adjust type	
	E = External adjustment	
	F = Tamper resistant	
	Check crack pressure	
	1 = 1 bar (14.5 psi)	

Pressure range
 For pilot ratio A (3:1)
 1 = 35-110 bar [507-1595 psi]
 2 = 60-150 bar [870-2176 psi]
 3 = 80-230 bar [1160-3336 psi]
 For pilot ratio B (4.5:1)
 1 = 55-180 bar [797-2611 psi]
 2 = 75-240 bar [1088-3481 psi]
 3 = 90-350 bar [1305-5076 psi]
 For pilot ratio C (10:1)
 1 = 90-350 bar [1305-5076 psi]

Pilot ratio
 A = 3:1
 B = 4.5:1
 C = 10:1



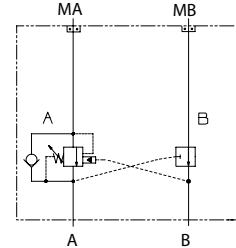
Motor Mount HIC Technical Information

MM-OMH-00-ACP441-1

OPERATION

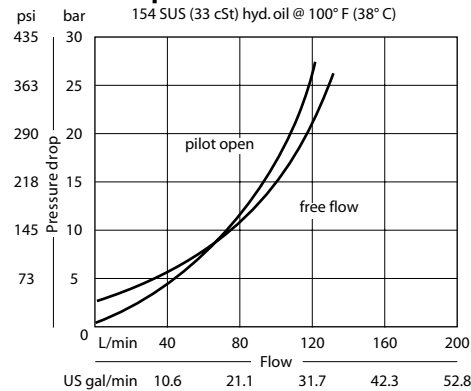
This is a single-counterbalance HIC (A port) that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

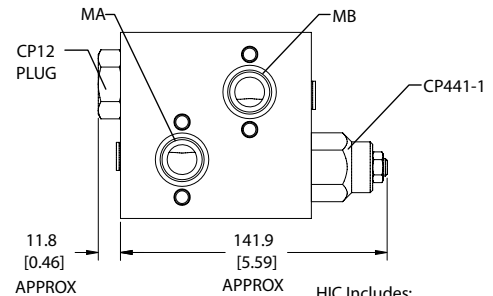
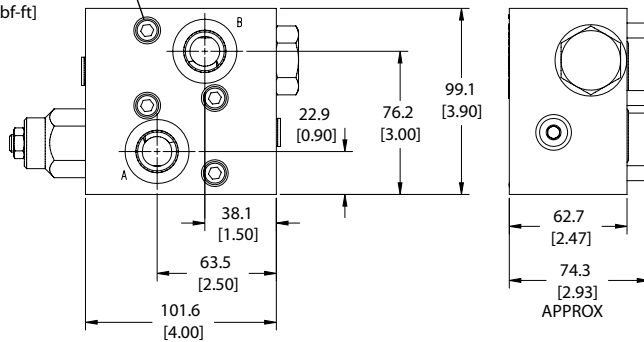
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]

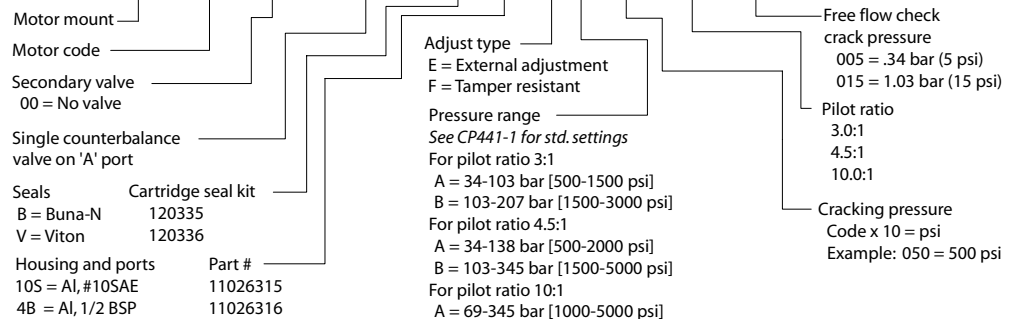
4X M8x1.25x60mm [2.36in]
⌀6mm
40 Nm [30 lbf-ft]



HIC Includes:
- M8x60mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMH-00-ACP441-1-B-10S-E-A-250-10.0-015





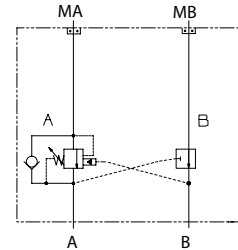
Motor Mount HIC Technical Information

MM-OMS-00-ACP441-1

OPERATION

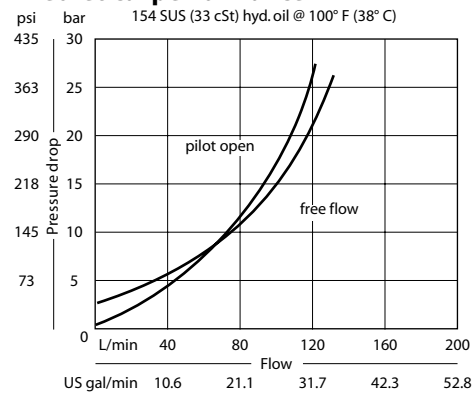
This is a single-counterbalance HIC (A port) that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



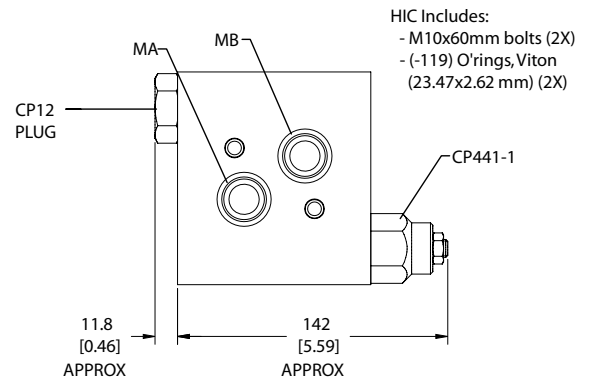
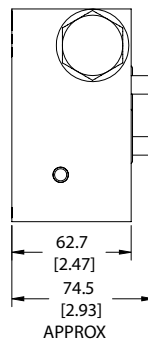
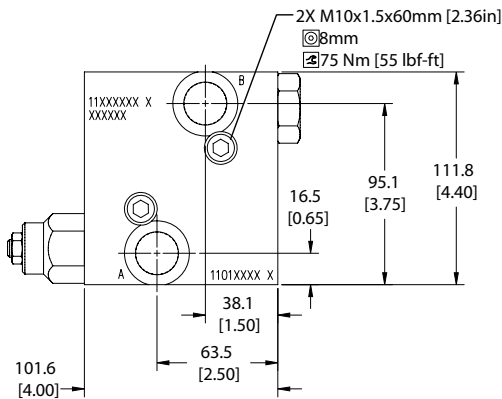
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023867
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMS-00-ACP441-1-B-10S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'A' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		00 = No valve		B = Buna-N V = Viton	120335 120336	10S = AI, #10SAE 4B = AI, 1/2 BSP	11026317 11026318	E = External adjustment F = Tamper resistant	See CP441-1 for std. settings For pilot ratio 3:1 A = 34-103 bar [500-1500 psi] B = 103-207 bar [1500-3000 psi] For pilot ratio 4.5:1 A = 34-138 bar [500-2000 psi] B = 103-345 bar [1500-5000 psi] For pilot ratio 10:1 A = 69-345 bar [1000-5000 psi]	005 = .34 bar (5 psi) 015 = 1.03 bar (15 psi)	3.0:1 4.5:1 10.0:1	Code x 10 = psi Example: 050 = 500 psi



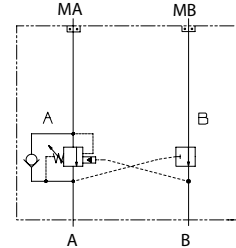
Motor Mount HIC Technical Information

MM-OMT-00-ACP441-1

OPERATION

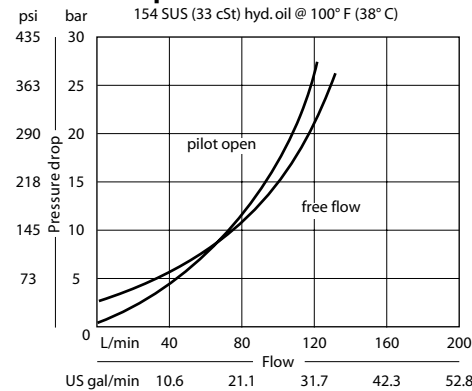
This is a single-counterbalance HIC (A port) that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



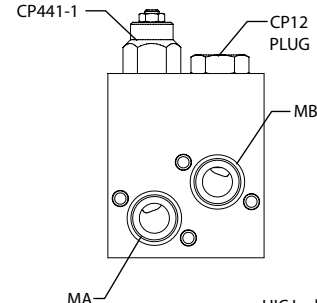
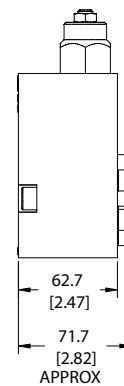
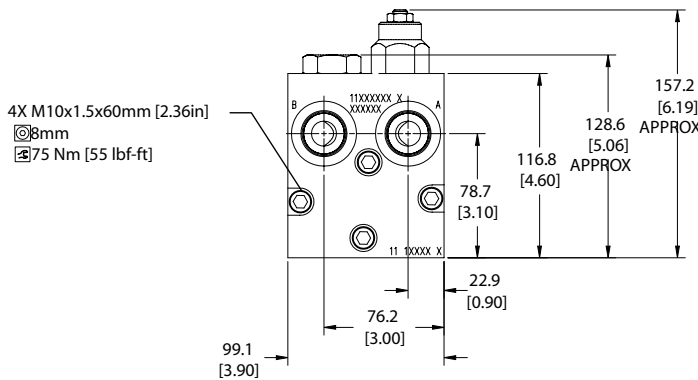
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.20 kg [4.85 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M10x60mm bolts (4X)
- (-123) O'rings,Viton (29.82x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMT-00-ACP441-1-B-12S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'A' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		00 = No valve		B = Buna-N V = Viton	120335 120336	12S = AI, #12 SAE 6B = AI, 3/4 BSP	11019295 11019296	E = External adjustment F = Tamper resistant	See CP441-1 for std. settings For pilot ratio 3:1 A = 34-103 bar [500-1500 psi] B = 103-207 bar [1500-3000 psi] For pilot ratio 4.5:1 A = 34-138 bar [500-2000 psi] B = 103-345 bar [1500-5000 psi] For pilot ratio 10:1 A = 69-345 bar [1000-5000 psi]	005 = .34 bar (5 psi) 015 = 1.03 bar (15 psi)	3.0:1 4.5:1 10.0:1	Code x 10 = psi Example: 050 = 500 psi



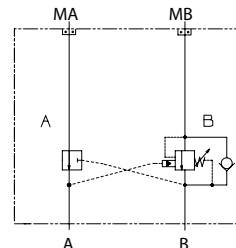
Motor Mount HIC Technical Information

MM-DH-00-BCB10-HV

OPERATION

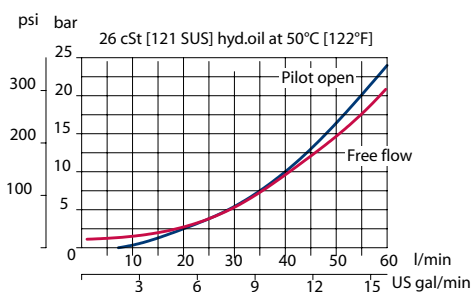
This is a single counterbalance HIC (on B port) that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



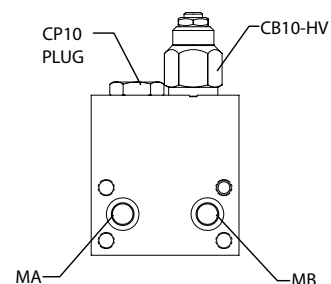
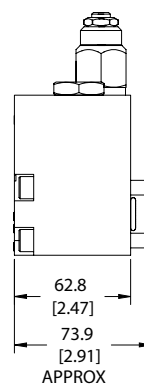
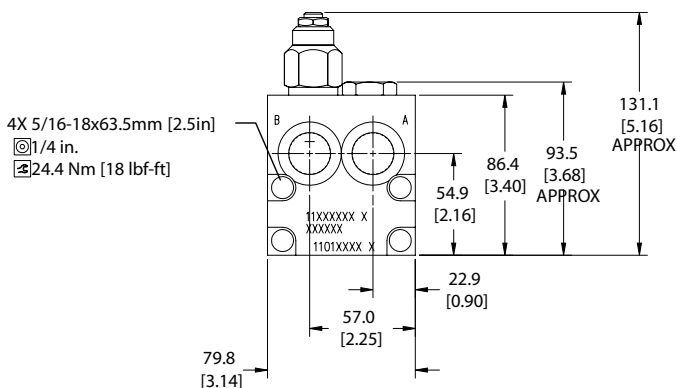
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

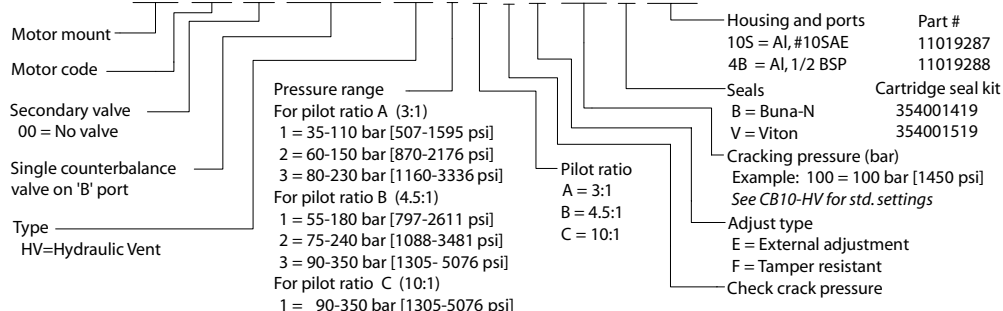
mm [in]



HIC Includes:
 - 5/16-18 x 2.5" bolts (4X)
 - (-112) O-rings, Viton (12.37x2.62 mm) (2X)

ORDERING INFORMATION

MM-DH-00-BCB10-HV-1-C-1-E-100-B-10S





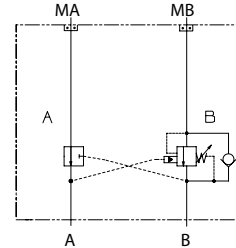
Motor Mount HIC Technical Information

MM-DS-00-BCB10-HV

OPERATION

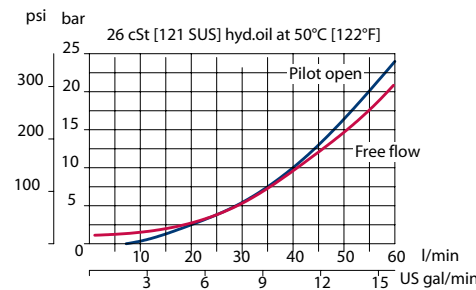
This is a single counterbalance HIC (on B port) that mounts to DS motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



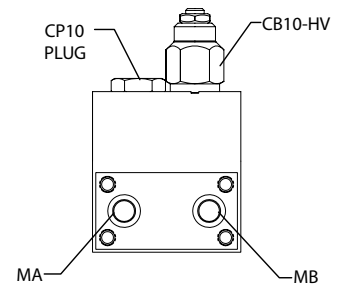
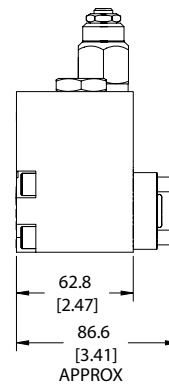
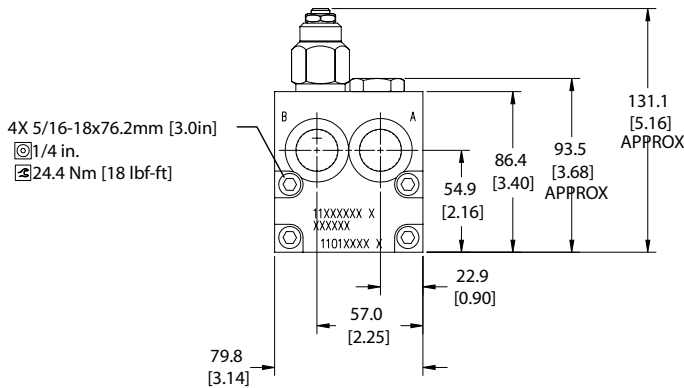
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
 - 5/16-18 x 3.0" bolts (4X)
 - (-112) O-rings, Viton (12.37x2.62 mm) (4X)

ORDERING INFORMATION

MM-DS-00-BCB10-HV-1-C-1-E-100-B-10S

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'B' port	Type	Pressure range	Pilot ratio	Housing and ports	Part #
00 = No valve				HV=Hydraulic Vent	For pilot ratio A (3:1)	A = 3:1	10S = AI, #10SAE	11019287
					1 = 35-110 bar [507-1595 psi]	B = 4.5:1	4B = AI, 1/2 BSP	11019288
					2 = 60-150 bar [870-2176 psi]	C = 10:1	Seals	Cartridge seal kit
					3 = 80-230 bar [1160-3336 psi]		B = Buna-N	354001419
					For pilot ratio B (4.5:1)		V = Viton	354001519
					1 = 55-180 bar [797-2611 psi]		Cracking pressure (bar)	
					2 = 75-240 bar [1088-3481 psi]		Example: 100 = 100 bar [1450 psi]	
					3 = 90-350 bar [1305-5076 psi]		See CB10-HV for std. settings	
					For pilot ratio C (10:1)		Adjust type	
					1 = 90-350 bar [1305-5076 psi]		E = External adjustment	
							F = Tamper resistant	
							Check crack pressure	
							1 = 1 bar (14.5 psi)	



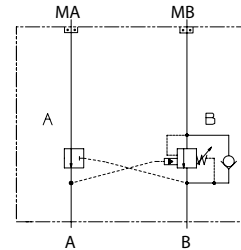
Motor Mount HIC Technical Information

MM-OMP/OMR-00-BCB10-HV

OPERATION

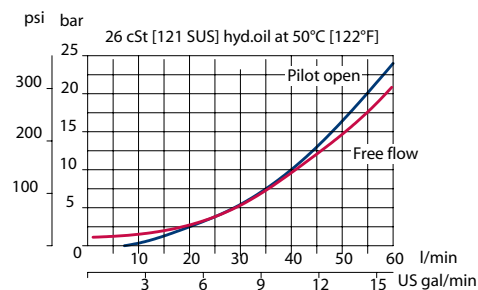
This is a single counterbalance HIC (on B port) that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



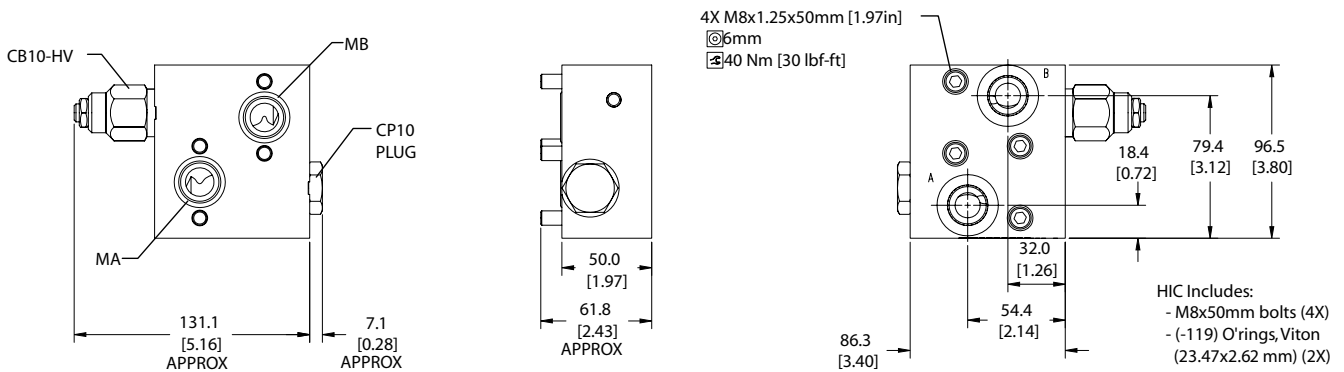
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Plug	SDC10-V-3S-B1
Service mount kit	11023762
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMP/OMR-00-BCB10-HV-1-C-1-E-100-B-10S

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'B' port	Type	Pressure range	Pilot ratio	Housing and ports	Part #
		00 = No valve		HV=Hydraulic Vent	For pilot ratio A (3:1)	A = 3:1	10S = Al, #10SAE	11026313
					1 = 35-110 bar [507-1595 psi]	B = 4.5:1	4B = Al, 1/2 BSP	11026314
					2 = 60-150 bar [870-2176 psi]	C = 10:1	Seals	Cartridge seal kit
					3 = 80-230 bar [1160-3336 psi]		B = Buna-N	354001419
					For pilot ratio B (4.5:1)		V = Viton	354001519
					1 = 55-180 bar [797-2611 psi]		Cracking pressure (bar)	
					2 = 75-240 bar [1088-3481 psi]		Example: 100 = 100 bar [1450 psi]	
					3 = 90-350 bar [1305-5076 psi]		See CB10-HV for std. settings	
					For pilot ratio C (10:1)		Adjust type	
					1 = 90-350 bar [1305-5076 psi]		E = External adjustment	
							F = Tamper resistant	
							Check crack pressure	
							1 = 1 bar (14.5 psi)	



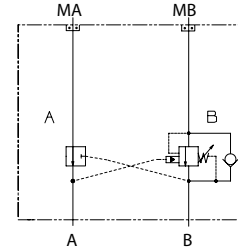
Motor Mount HIC Technical Information

MM-OMH-00-BCP441-1

OPERATION

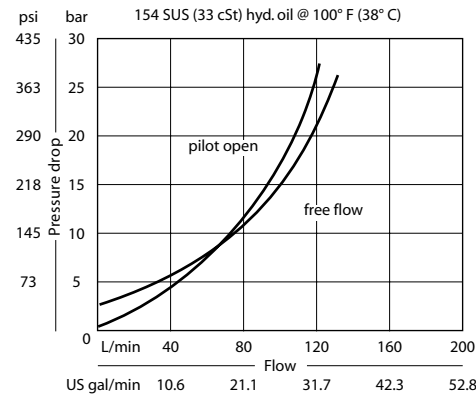
This is a single counterbalance HIC (on B port) that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

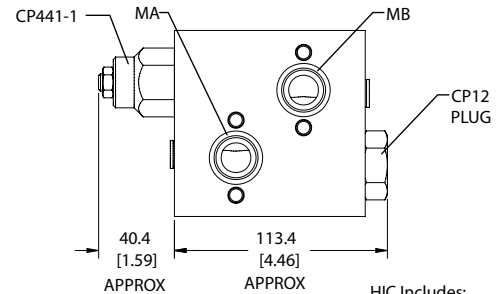
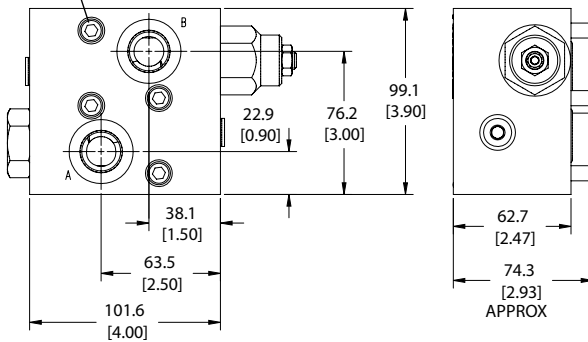
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]

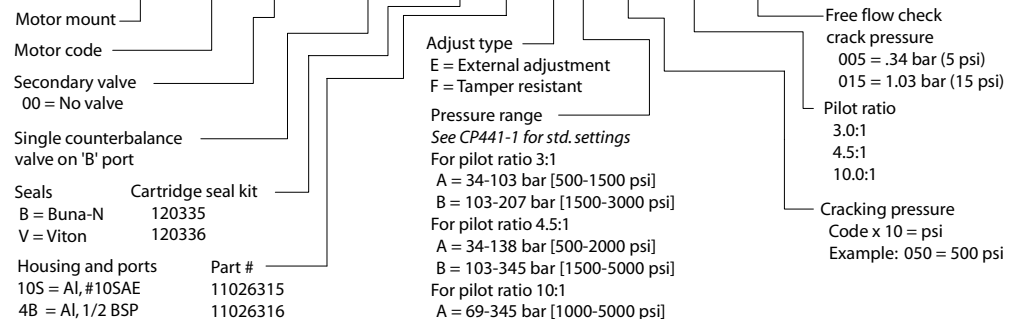
4X M8x1.25x60mm [2.36in]
6mm
40 Nm [30 lbf-ft]



HIC Includes:
- M8x60mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMH-00-BCP441-1-B-10S-E-A-250-10.0-015





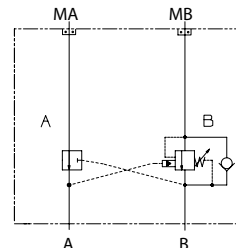
Motor Mount HIC Technical Information

MM-OMS-00-BCP441-1

OPERATION

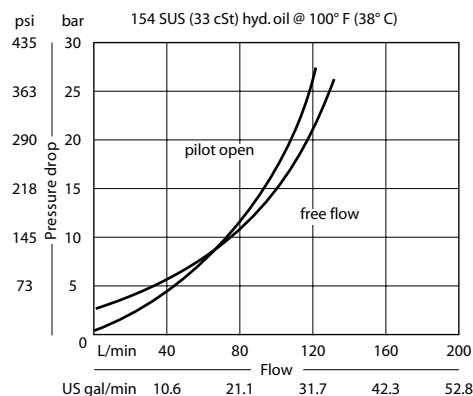
This is a single counterbalance HIC (on B port) that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance

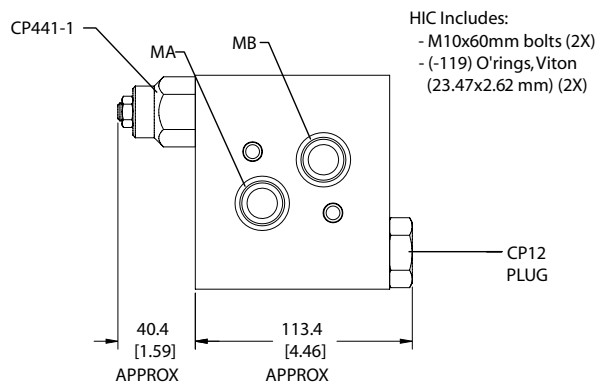
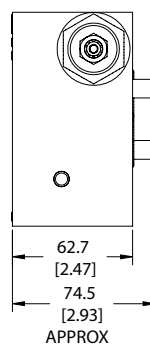
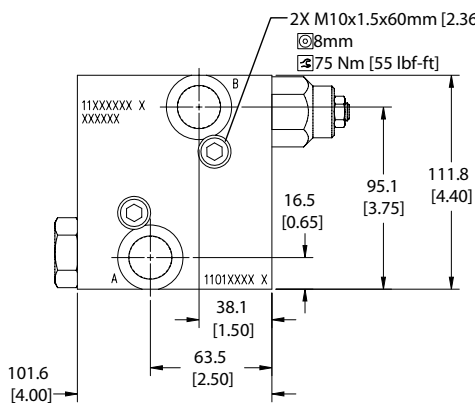


Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023867
Motor	OMS

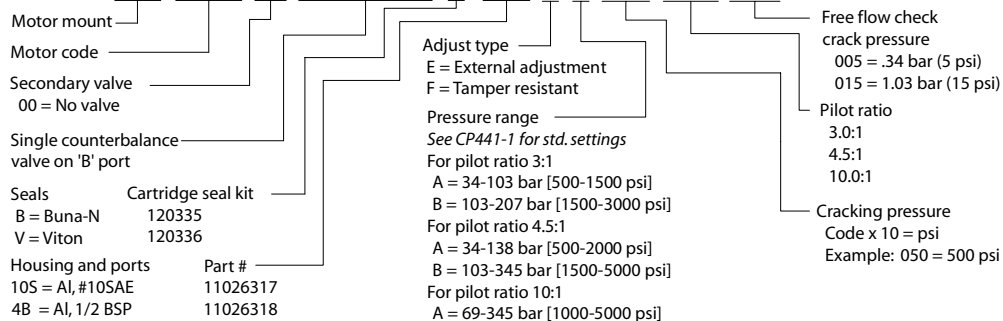
DIMENSIONS

Cross-sectional view



ORDERING INFORMATION

MM-OMS-00-BCP441-1-B-10S-E-A-250-10.0-015





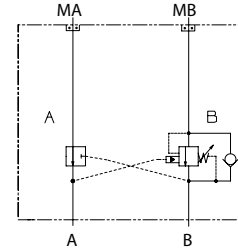
Motor Mount HIC Technical Information

MM-OMT-00-BCP441-1

OPERATION

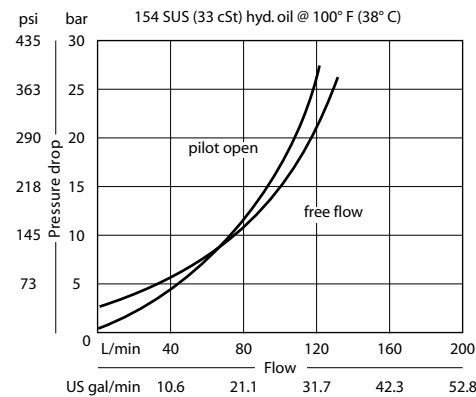
This is a single counterbalance HIC (on B port) that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



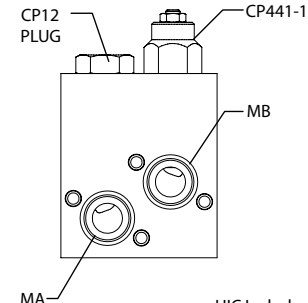
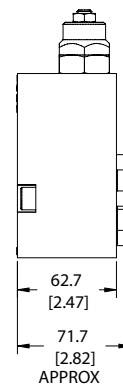
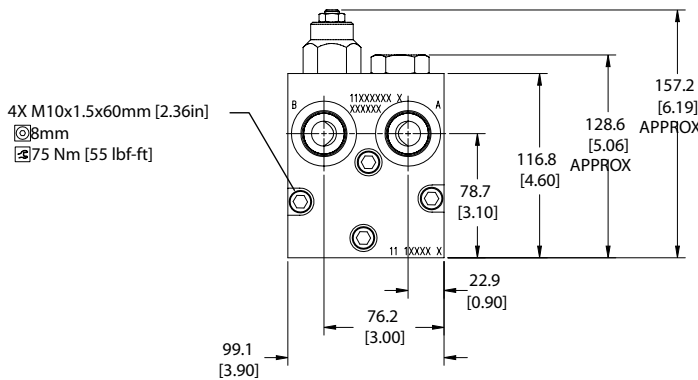
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.20 kg [4.85 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M10x60mm bolts (4X)
- (-123) O'rings, Viton (29.82x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMT-00-BCP441-1-B-12S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'B' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		00 = No valve		B = Buna-N V = Viton	120335 120336	12S = AI, #12 SAE 6B = AI, 3/4 BSP	11019295 11019296	E = External adjustment F = Tamper resistant	See CP441-1 for std. settings For pilot ratio 3:1 A = 34-103 bar [500-1500 psi] B = 103-207 bar [1500-3000 psi] For pilot ratio 4.5:1 A = 34-138 bar [500-2000 psi] B = 103-345 bar [1500-5000 psi] For pilot ratio 10:1 A = 69-345 bar [1000-5000 psi]	005 = .34 bar (5 psi) 015 = 1.03 bar (15 psi)	3.0:1 4.5:1 10.0:1	Code x 10 = psi Example: 050 = 500 psi



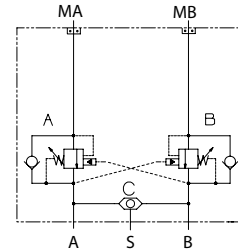
Motor Mount HIC Technical Information

MM-DH-LS-DCB10-HV

OPERATION

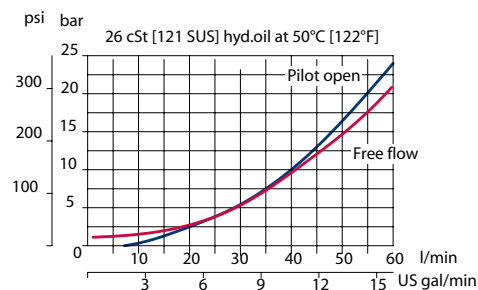
This is a dual counterbalance HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



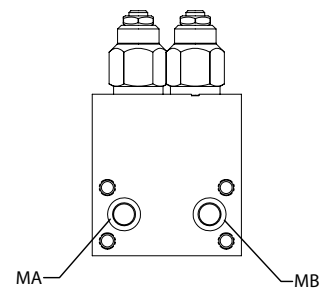
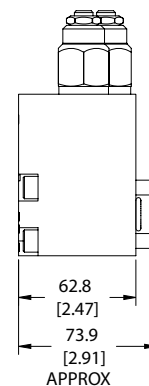
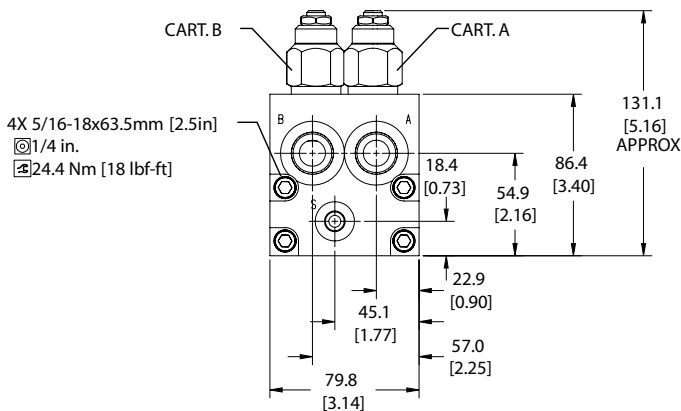
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

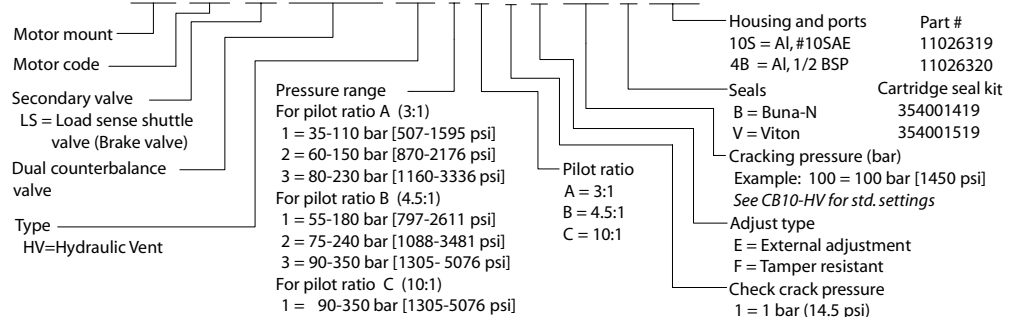
mm [in]



HIC Includes:
 - 5/16-18 x 2.5" bolts (4X)
 - (-112) O-rings, Viton (12.37x2.62 mm) (2X)

ORDERING INFORMATION

MM-DH-LS-DCB10-HV-1-C-1-E-100-B-10S





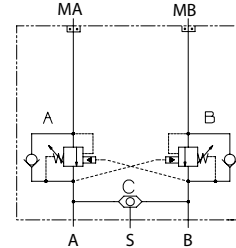
Motor Mount HIC Technical Information

MM-DS-LS-DCB10-HV

OPERATION

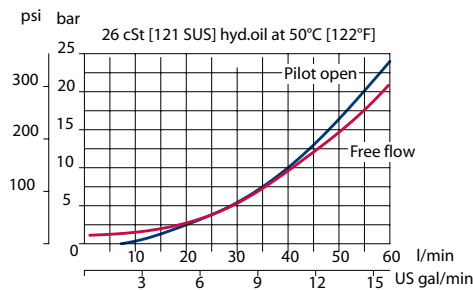
This is a dual counterbalance HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



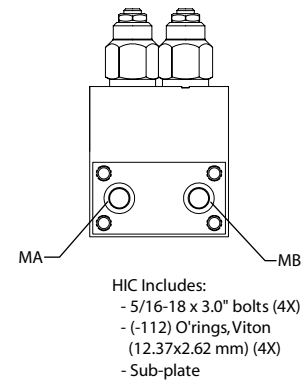
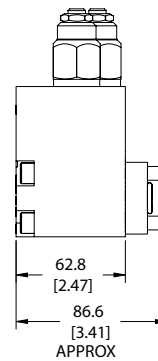
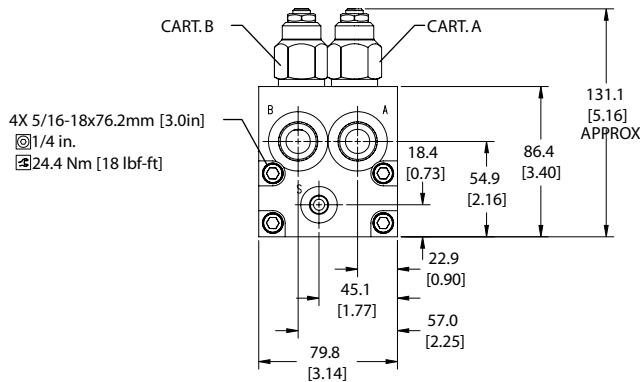
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min 16 US gal/min
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-LS-DCB10-HV-1-C-1-E-100-B-10S

Motor mount

Motor code

Secondary valve

LS = Load sense shuttle valve (Brake valve)

Dual counterbalance valve

Type

HV=Hydraulic Vent

Pressure range

For pilot ratio A (3:1)

1 = 35-110 bar [507-1595 psi]

2 = 60-150 bar [870-2176 psi]

3 = 80-230 bar [1160-3336 psi]

For pilot ratio B (4.5:1)

1 = 55-180 bar [797-2611 psi]

2 = 75-240 bar [1088-3481 psi]

3 = 90-350 bar [1305-5076 psi]

For pilot ratio C (10:1)

1 = 90-350 bar [1305-5076 psi]

Pilot ratio

A = 3:1

B = 4.5:1

C = 10:1

Housing and ports

10S = AI, #10SAE

4B = AI, 1/2 BSP

Seals

B = Buna-N

V = Viton

Cracking pressure (bar)

Example: 100 = 100 bar [1450 psi]

See CB10-HV for std. settings

Adjust type

E = External adjustment

F = Tamper resistant

Check crack pressure

1 = 1 bar (14.5 psi)

Part #

11026319

11026320

Cartridge seal kit

B = Buna-N 354001419

V = Viton 354001519



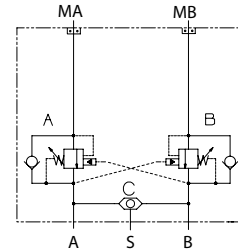
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-DCB10-HV

OPERATION

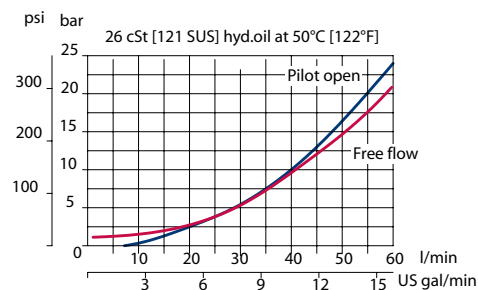
This is a dual counterbalance HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



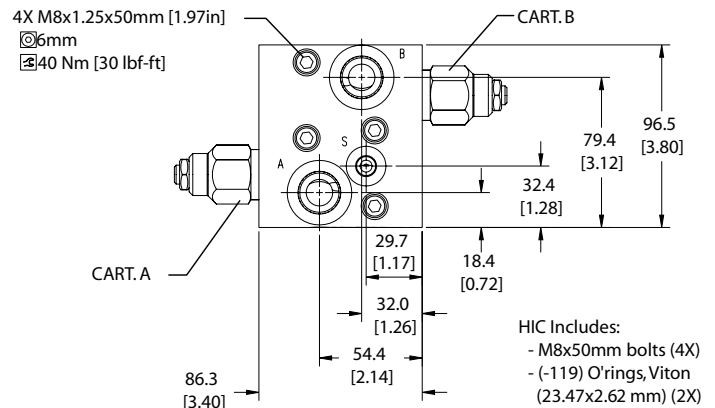
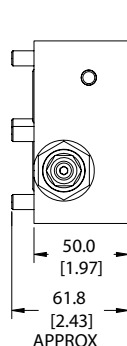
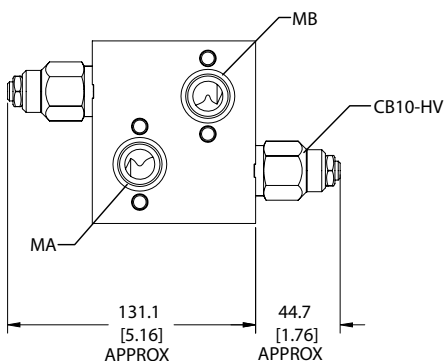
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMP/OMR-LS-DCB10-HV-1-C-1-E-100-B-10S

Motor mount	Housing and ports	Part #
Motor code	10S = Al, #10SAE	11026333
Secondary valve	4B = Al, 1/2 BSP	11026334
LS = Load sense shuttle valve (Brake valve)	Seals	Cartridge seal kit
Dual counterbalance valve	B = Buna-N	354001419
Type	V = Viton	354001519
HV=Hydraulic Vent	Cracking pressure (bar)	
	Example: 100 = 100 bar [1450 psi]	
	See CB10-HV for std. settings	
	Adjust type	
	E = External adjustment	
	F = Tamper resistant	
	Check crack pressure	
	1 = 1 bar (14.5 psi)	

Pressure range

For pilot ratio A (3:1)

1 = 35-110 bar [507-1595 psi]

2 = 60-150 bar [870-2176 psi]

3 = 80-230 bar [1160-3336 psi]

For pilot ratio B (4.5:1)

1 = 55-180 bar [797-2611 psi]

2 = 75-240 bar [1088-3481 psi]

3 = 90-350 bar [1305-5076 psi]

For pilot ratio C (10:1)

1 = 90-350 bar [1305-5076 psi]

Pilot ratio

A = 3:1

B = 4.5:1

C = 10:1



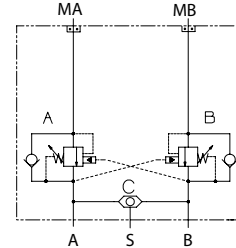
Motor Mount HIC Technical Information

MM-OMH-LS-DCP441-1

OPERATION

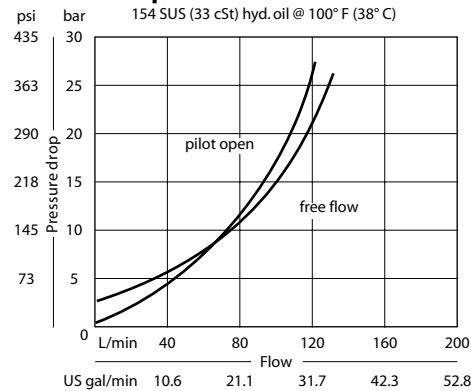
This is a dual counterbalance HIC with shuttle that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



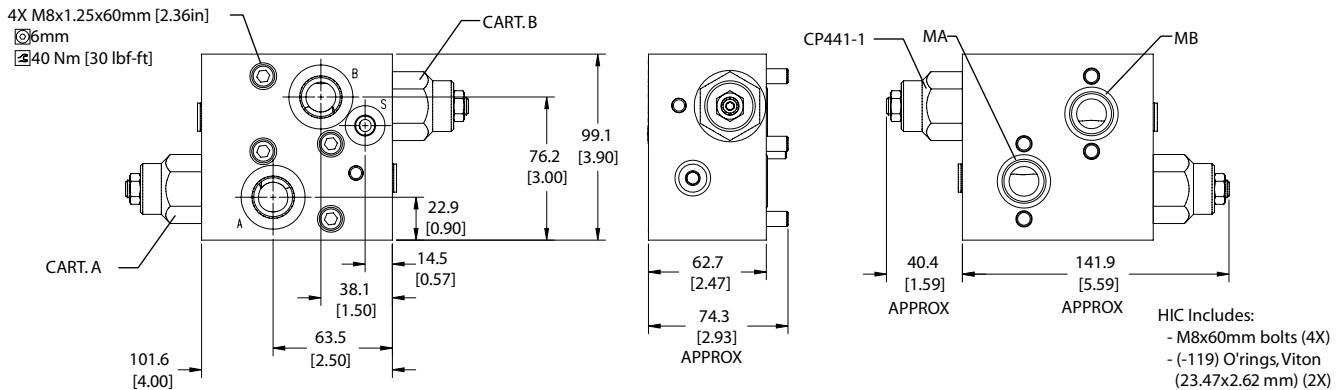
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-LS-DCP441-1-B-10S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Dual counterbalance valve	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		LS = Load sense shuttle valve		B = Buna-N V = Viton	B = 120335 V = 120336	10S = A1, #10SAE 4B = A1, 1/2 BSP	11026321 11026332	E = External adjustment F = Tamper resistant	See CP441-1 for std. settings For pilot ratio 3:1 A = 34-103 bar [500-1500 psi] B = 103-207 bar [1500-3000 psi] For pilot ratio 4.5:1 A = 34-138 bar [500-2000 psi] B = 103-345 bar [1500-5000 psi] For pilot ratio 10:1 A = 69-345 bar [1000-5000 psi]	005 = .34 bar (5 psi) 015 = 1.03 bar (15 psi)	3.0:1 4.5:1 10.0:1	Code x 10 = psi Example: 050 = 500 psi



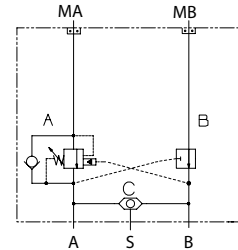
Motor Mount HIC Technical Information

MM-DH-LS-ACB10-HV

OPERATION

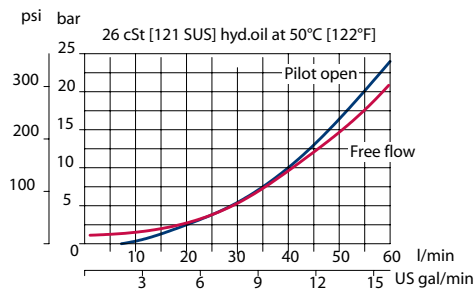
This is a single counterbalance (A port) HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



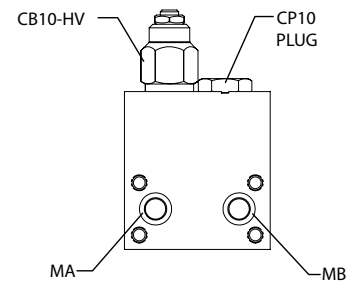
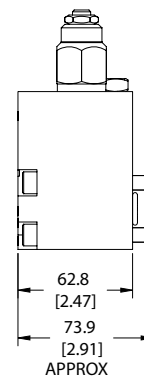
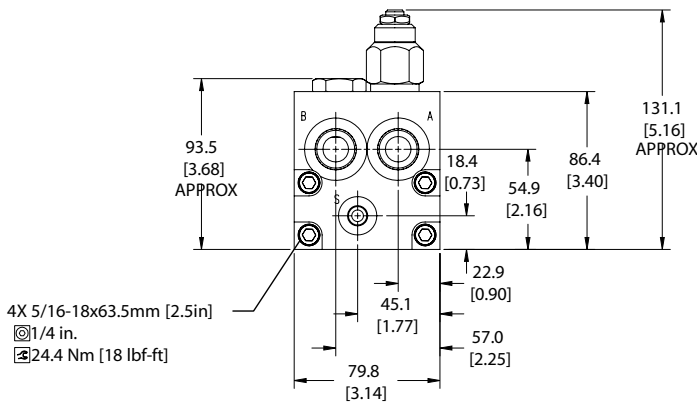
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- 5/16-18 x 2.5" bolts (4X)
- (-112) O'rings, Viton (12.37x2.62 mm) (2X)

ORDERING INFORMATION

MM-DH-LS-ACB10-HV-1-C-1-E-100-B-10S

Motor mount	Motor code	Secondary valve LS = Load sense shuttle valve (Brake valve)	Single counterbalance valve on 'A' port	Type HV=Hydraulic Vent	Pressure range For pilot ratio A (3:1) 1 = 35-110 bar [507-1595 psi] 2 = 60-150 bar [870-2176 psi] 3 = 80-230 bar [1160-3336 psi] For pilot ratio B (4.5:1) 1 = 55-180 bar [797-2611 psi] 2 = 75-240 bar [1088-3481 psi] 3 = 90-350 bar [1305-5076 psi] For pilot ratio C (10:1) 1 = 90-350 bar [1305-5076 psi]	Pilot ratio A = 3:1 B = 4.5:1 C = 10:1	Housing and ports 10S = AI, #10SAE 4B = AI, 1/2 BSP	Seals B = Buna-N V = Viton	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi] See CB10-HV for std. settings	Adjust type E = External adjustment F = Tamper resistant	Check crack pressure 1 = 1 bar [14.5 psi]	Part # 11026319 11026320 Cartridge seal kit 354001419 354001519
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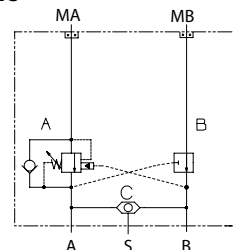


Motor Mount HIC Technical Information MM-DS-LS-ACB10-HV

OPERATION

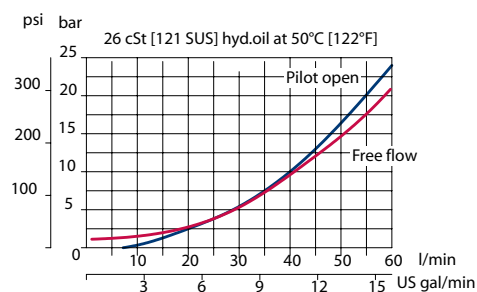
This is a single counterbalance (A port) HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



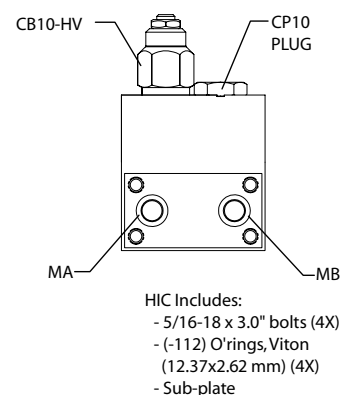
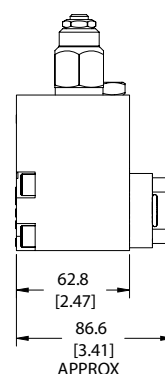
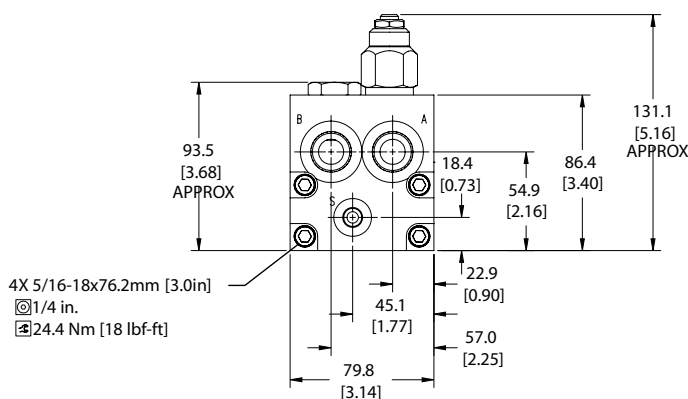
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- 5/16-18 x 3.0" bolts (4X)
- (-112) O'rings, Viton (12.37x2.62 mm) (4X)
- Sub-plate

ORDERING INFORMATION

MM-DS-LS-ACB10-HV-1-C-1-E-100-B-10S

Motor mount
Motor code
Secondary valve
LS = Load sense shuttle valve (Brake valve)
Single counterbalance valve on 'A' port
Type
HV=Hydraulic Vent

Pressure range
For pilot ratio A (3:1)
1 = 35-110 bar [507-1595 psi]
2 = 60-150 bar [870-2176 psi]
3 = 80-230 bar [1160-3336 psi]
For pilot ratio B (4.5:1)
1 = 55-180 bar [797-2611 psi]
2 = 75-240 bar [1088-3481 psi]
3 = 90-350 bar [1305-5076 psi]
For pilot ratio C (10:1)
1 = 90-350 bar [1305-5076 psi]

Housing and ports
10S = AI, #10SAE
4B = AI, 1/2 BSP
Seals
B = Buna-N
V = Viton
Cracking pressure (bar)
Example: 100 = 100 bar [1450 psi]
See CB10-HV for std. settings
Adjust type
E = External adjustment
F = Tamper resistant
Check crack pressure
1 = 1 bar (14.5 psi)

Part #
11026319
11026320
Cartridge seal kit
354001419
354001519



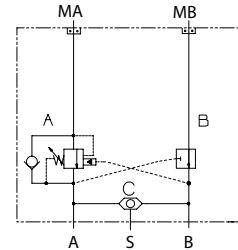
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-ACB10-HV

OPERATION

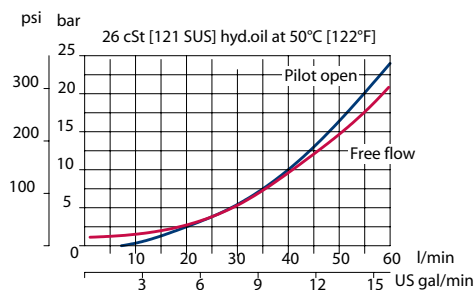
This is a single counterbalance (A port) HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



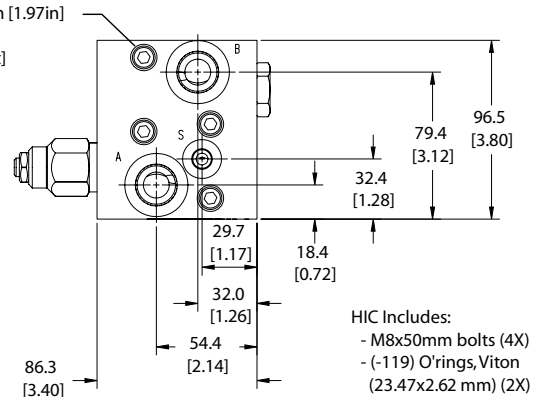
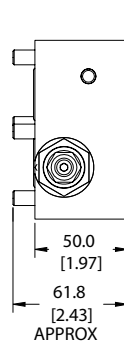
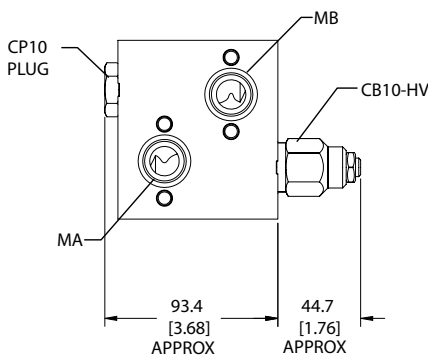
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M8x50mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMP/OMR-LS-ACB10-HV-1-C-1-E-100-B-10S

Motor mount	Housing and ports	Part #
Motor code	10S = Al, #10SAE	11026333
Secondary valve	4B = Al, 1/2 BSP	11026334
LS = Load sense shuttle valve (Brake valve)	Seals	Cartridge seal kit
Single counterbalance valve on 'A' port	B = Buna-N	354001419
Type	V = Viton	354001519
HV=Hydraulic Vent	Cracking pressure (bar)	
	Example: 100 = 100 bar [1450 psi]	
	See CB10-HV for std. settings	
	Adjust type	
	E = External adjustment	
	F = Tamper resistant	
	Check crack pressure	
	1 = 1 bar (14.5 psi)	

Pressure range
For pilot ratio A (3:1)
1 = 35-110 bar [507-1595 psi]
2 = 60-150 bar [870-2176 psi]
3 = 80-230 bar [1160-3336 psi]
For pilot ratio B (4.5:1)
1 = 55-180 bar [797-2611 psi]
2 = 75-240 bar [1088-3481 psi]
3 = 90-350 bar [1305-5076 psi]
For pilot ratio C (10:1)
1 = 90-350 bar [1305-5076 psi]

Pilot ratio
A = 3:1
B = 4.5:1
C = 10:1



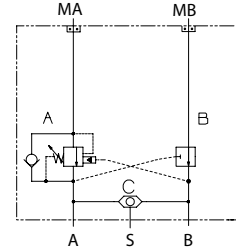
Motor Mount HIC Technical Information

MM-OMH-LS-ACP441-1

OPERATION

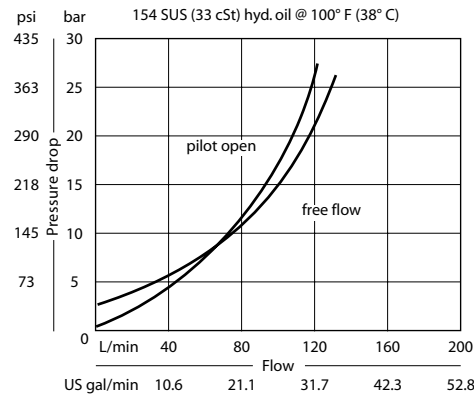
This is a single counterbalance (A port) HIC with shuttle that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



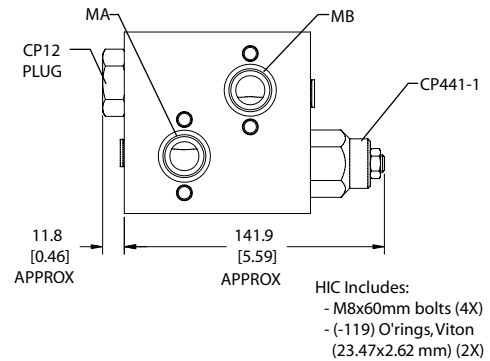
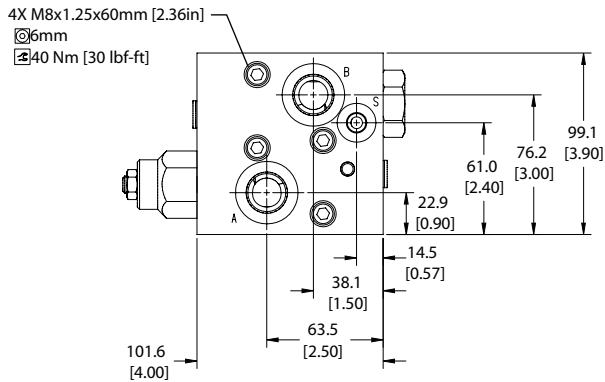
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-LS-ACP441-1-B-10S-E-A-250-10.0-015

Motor mount	Adjust type	Free flow check crack pressure
Motor code	E = External adjustment	005 = .34 bar (5 psi)
Secondary valve	F = Tamper resistant	015 = 1.03 bar (15 psi)
LS = Load sense shuttle valve (brake valve)	Pressure range	Pilot ratio
Single counterbalance valve on 'A' port	See CP441-1 for std. settings	3.0:1
Seals	For pilot ratio 3:1	4.5:1
Cartridge seal kit	A = 34-103 bar [500-1500 psi]	10.0:1
B = Buna-N 120335	B = 103-207 bar [1500-3000 psi]	Cracking pressure
V = Viton 120336	For pilot ratio 4.5:1	Code x 10 = psi
Housing and ports	A = 34-138 bar [500-2000 psi]	Example: 050 = 500 psi
Part #	B = 103-345 bar [1500-5000 psi]	
10S = A1, #10SAE 11026321	For pilot ratio 10:1	
4B = A1, 1/2 BSP 11026332	A = 69-345 bar [1000-5000 psi]	



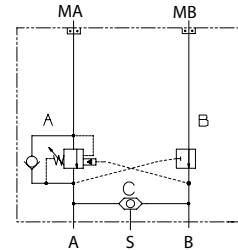
Motor Mount HIC Technical Information

MM-OMS-LS-ACP441-1

OPERATION

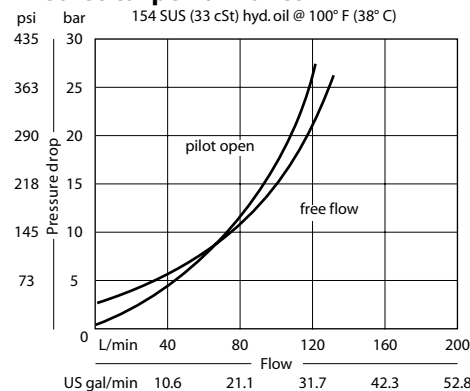
This is a single counterbalance (A port) HIC with shuttle that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



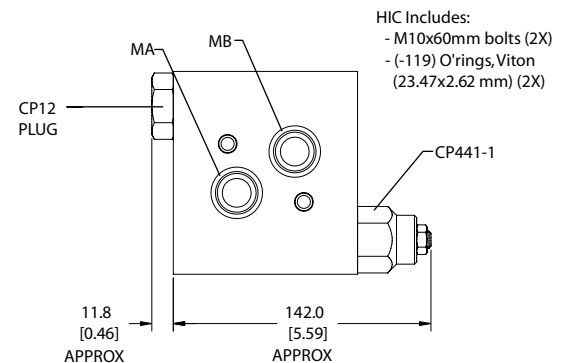
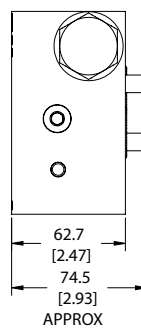
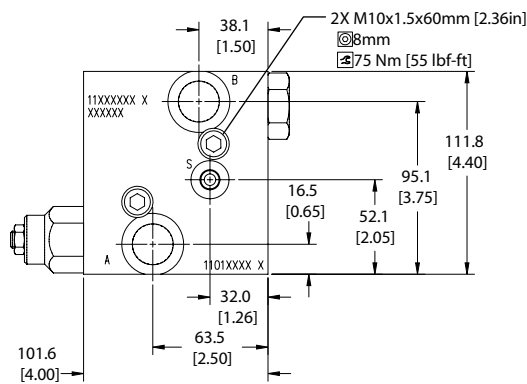
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023867
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M10x60mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMS-LS-ACP441-1-B-10S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	Single counterbalance valve on 'A' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
		LS = Load sense shuttle valve (brake valve)		B = Buna-N	120335	10S = AI, #10SAE	11026335	E = External adjustment	See CP441-1 for std. settings	005 = .34 bar (5 psi)	3.0:1	Code x 10 = psi
				V = Viton	120336	4B = AI, 1/2 BSP	11026336	F = Tamper resistant		015 = 1.03 bar (15 psi)	4.5:1	Example: 050 = 500 psi
									For pilot ratio 3:1		10.0:1	
									A = 34-103 bar [500-1500 psi]			
									B = 103-207 bar [1500-3000 psi]			
									For pilot ratio 4.5:1			
									A = 34-138 bar [500-2000 psi]			
									B = 103-345 bar [1500-5000 psi]			
									For pilot ratio 10:1			
									A = 69-345 bar [1000-5000 psi]			



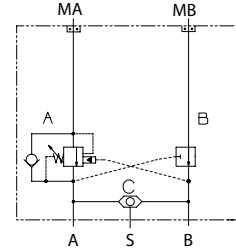
Motor Mount HIC Technical Information

MM-OMT-LS-ACP441-1

OPERATION

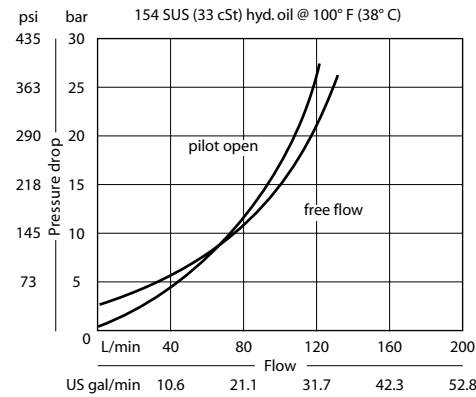
This is a single counterbalance (A port) HIC with shuttle that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



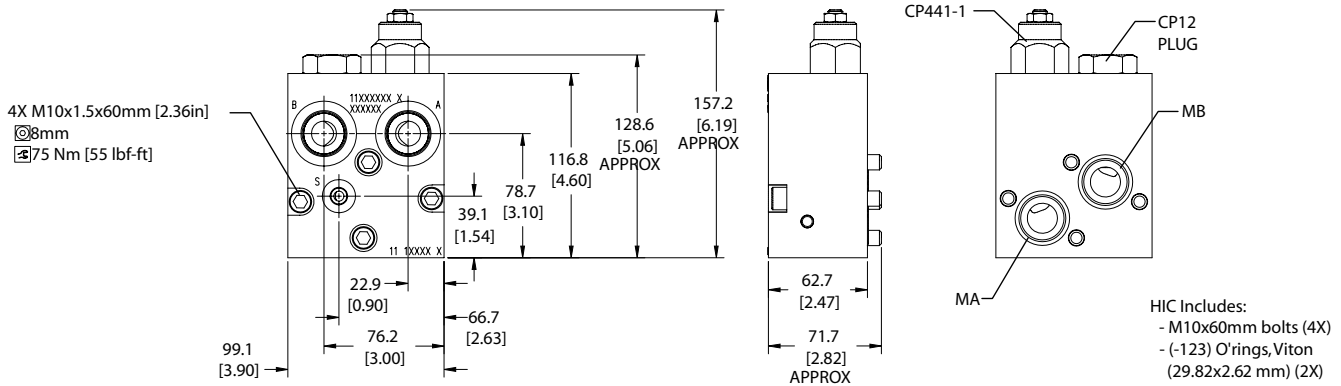
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.19 kg [4.83 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-LS-ACP441-1-B-12S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (brake valve)	Single counterbalance valve on 'A' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure	Pilot ratio	Cracking pressure
					B = Buna-N	120335	12S = A1, #12SAE	11026337	E = External adjustment	See CP441-1 for std. settings	005 = .34 bar (5 psi)	3.0:1	Code x 10 = psi
					V = Viton	120336	6B = A1, 3/4 BSP	11026338	F = Tamper resistant		015 = 1.03 bar (15 psi)	4.5:1	Example: 050 = 500 psi
										For pilot ratio 3:1		10.0:1	
										A = 34-103 bar [500-1500 psi]			
										B = 103-207 bar [1500-3000 psi]			
										For pilot ratio 4.5:1			
										A = 34-138 bar [500-2000 psi]			
										B = 103-345 bar [1500-5000 psi]			
										For pilot ratio 10:1			
										A = 69-345 bar [1000-5000 psi]			

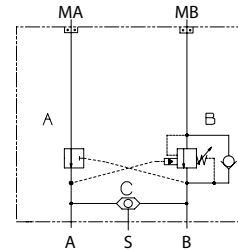


Motor Mount HIC Technical Information MM-DH-LS-BCB10-HV

OPERATION

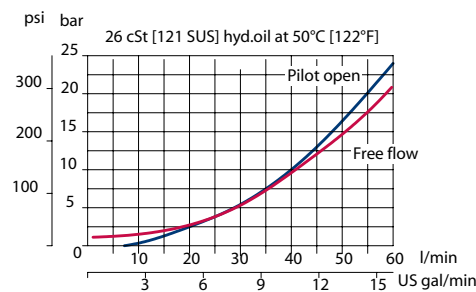
This is a single counterbalance (B port) HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



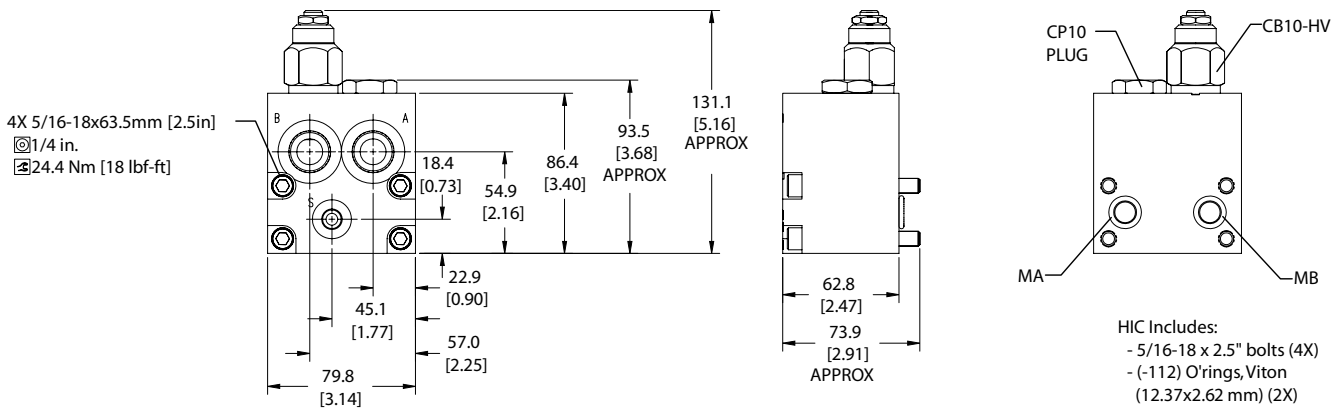
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-LS-BCB10-HV-1-C-1-E-100-B-10S

Motor mount	Housing and ports	Part #
Motor code	10S = Al, #10SAE	11026319
Secondary valve	4B = Al, 1/2 BSP	11026320
LS = Load sense shuttle valve (Brake valve)	Seals	Cartridge seal kit
Single counterbalance valve on 'B' port	B = Buna-N	354001419
Type	V = Viton	354001519
HV=Hydraulic Vent	Cracking pressure (bar)	
	Example: 100 = 100 bar [1450 psi]	
	See CB10-HV for std. settings	
	Adjust type	
	E = External adjustment	
	F = Tamper resistant	
	Check crack pressure	
	1 = 1 bar (14.5 psi)	

Pressure range
For pilot ratio A (3:1)
1 = 35-110 bar [507-1595 psi]
2 = 60-150 bar [870-2176 psi]
3 = 80-230 bar [1160-3336 psi]
For pilot ratio B (4.5:1)
1 = 55-180 bar [797-2611 psi]
2 = 75-240 bar [1088-3481 psi]
3 = 90-350 bar [1305-5076 psi]
For pilot ratio C (10:1)
1 = 90-350 bar [1305-5076 psi]

Pilot ratio
A = 3:1
B = 4.5:1
C = 10:1



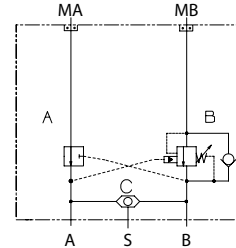
Motor Mount HIC Technical Information

MM-DS-LS-BCB10-HV

OPERATION

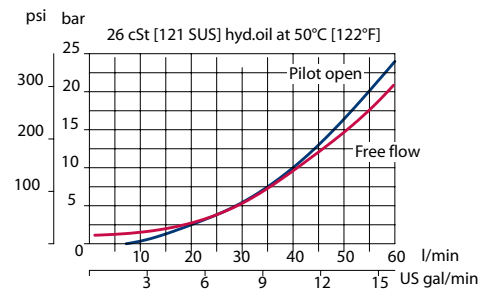
This is a single counterbalance (B port) HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



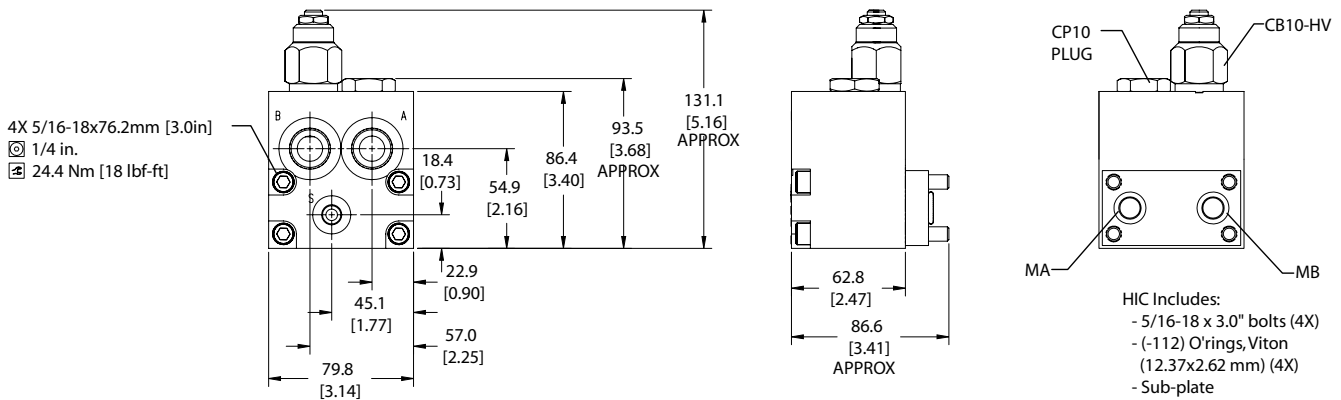
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-LS-BCB10-HV-1-C-1-E-100-B-10S

Motor mount	Motor code	Secondary valve LS = Load sense shuttle valve (Brake valve)	Single counterbalance valve on 'B' port	Type HV=Hydraulic Vent	Pressure range For pilot ratio A (3:1) 1 = 35-110 bar [507-1595 psi] 2 = 60-150 bar [870-2176 psi] 3 = 80-230 bar [1160-3336 psi] For pilot ratio B (4.5:1) 1 = 55-180 bar [797-2611 psi] 2 = 75-240 bar [1088-3481 psi] 3 = 90-350 bar [1305-5076 psi] For pilot ratio C (10:1) 1 = 90-350 bar [1305-5076 psi]	Pilot ratio A = 3:1 B = 4.5:1 C = 10:1	Housing and ports 10S = AI, #10SAE 4B = AI, 1/2 BSP	Seals B = Buna-N V = Viton	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi] See CB10-HV for std. settings	Adjust type E = External adjustment F = Tamper resistant	Check crack pressure 1 = 1 bar (14.5 psi)	Part # 11026319 11026320 Cartridge seal kit 354001419 354001519
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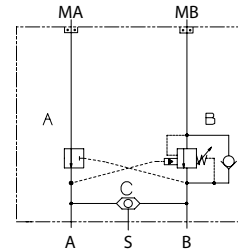
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-BCB10-HV

OPERATION

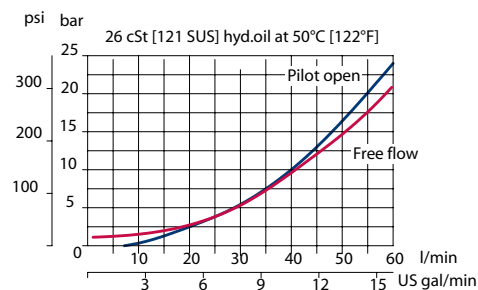
This is a single counterbalance (B port) HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



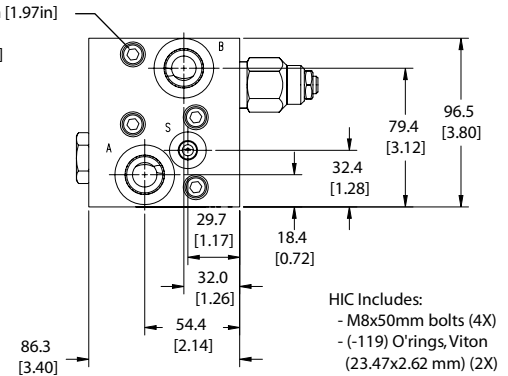
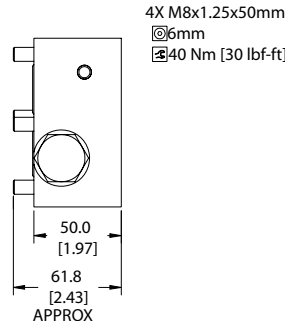
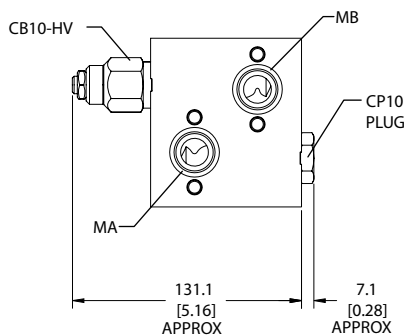
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10-HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMP/OMR-LS-BCB10-HV-1-C-1-E-100-B-10S

Motor mount																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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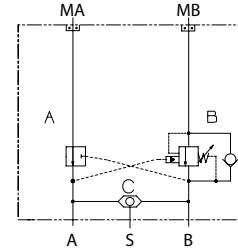
Motor Mount HIC Technical Information

MM-OMH-LS-BCP441-1

OPERATION

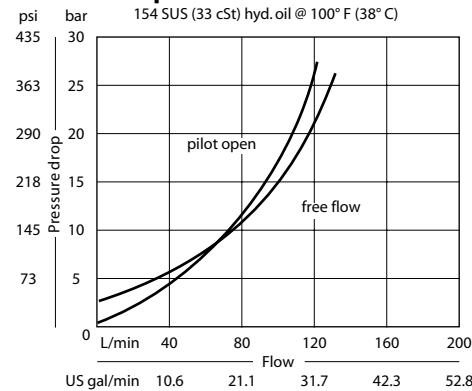
This is a single counterbalance (B port) HIC with shuttle that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

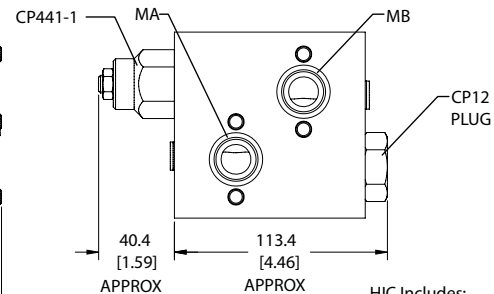
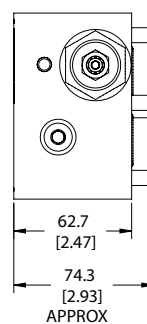
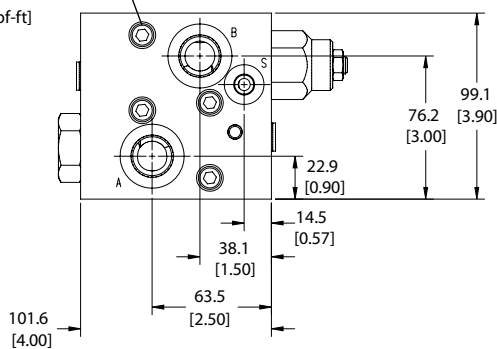
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]

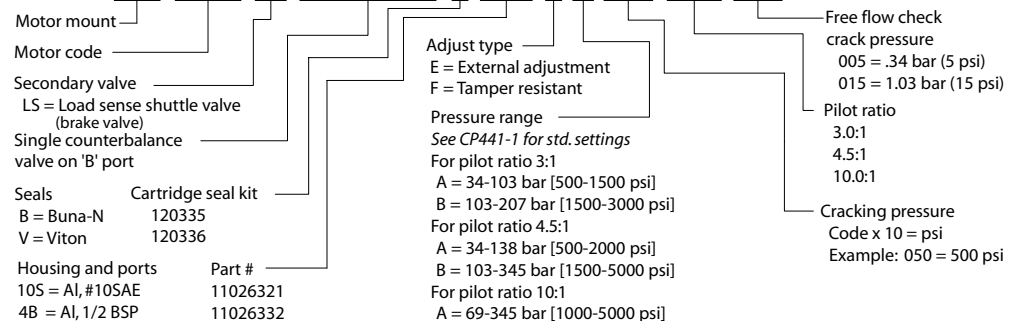
4X M8x1.25x60mm [2.36in]
6mm
40 Nm [30 lbf-ft]



HIC Includes:
- M8x60mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMH-LS-BCP441-1-B-10S-E-A-250-10.0-015



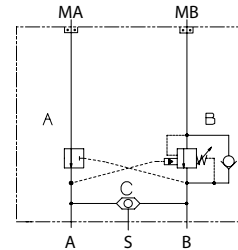


Motor Mount HIC Technical Information MM-OMS-LS-BCP441-1

OPERATION

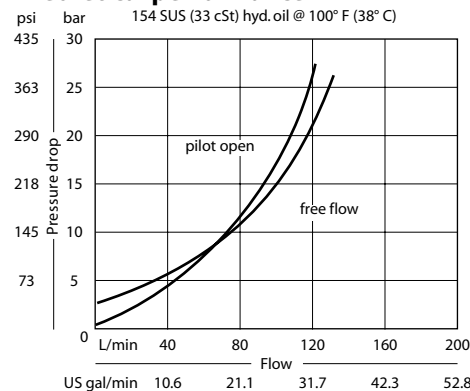
This is a single counterbalance (B port) HIC with shuttle that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



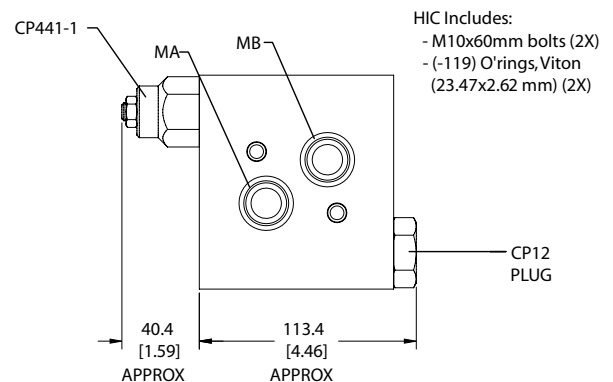
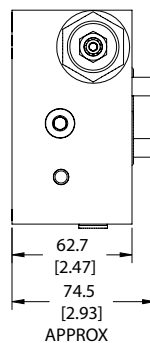
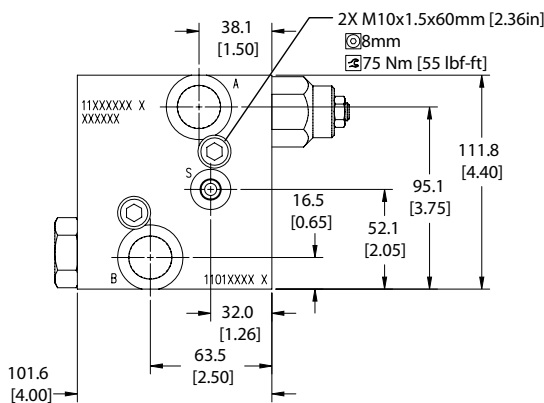
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023867
Motor	OMS

DIMENSIONS

Cross-sectional view

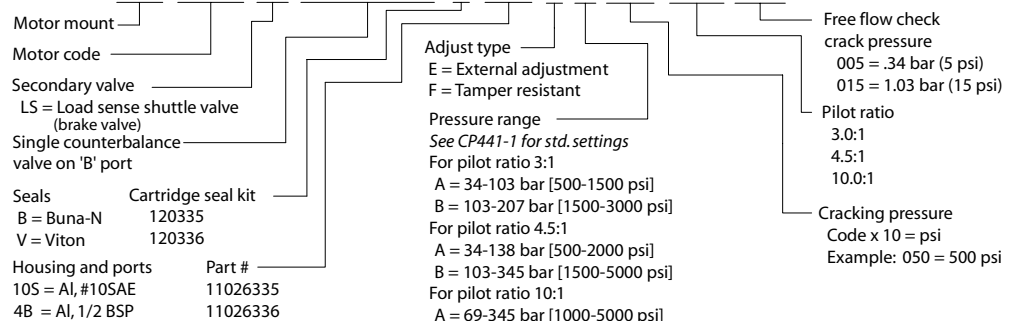
mm [in]



HIC Includes:
- M10x60mm bolts (2X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMS-LS-BCP441-1-B-10S-E-A-250-10.0-015





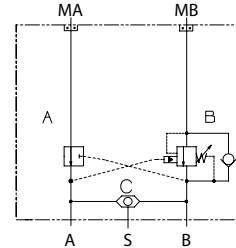
Motor Mount HIC Technical Information

MM-OMT-LS-BCP441-1

OPERATION

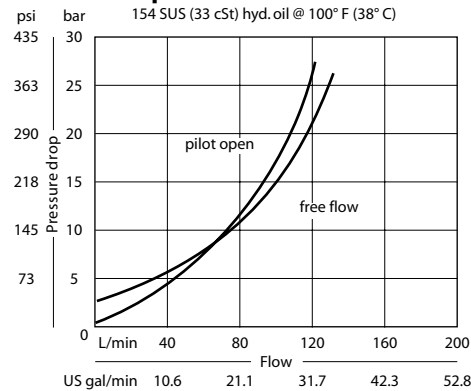
This is a single counterbalance (B port) HIC with shuttle that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



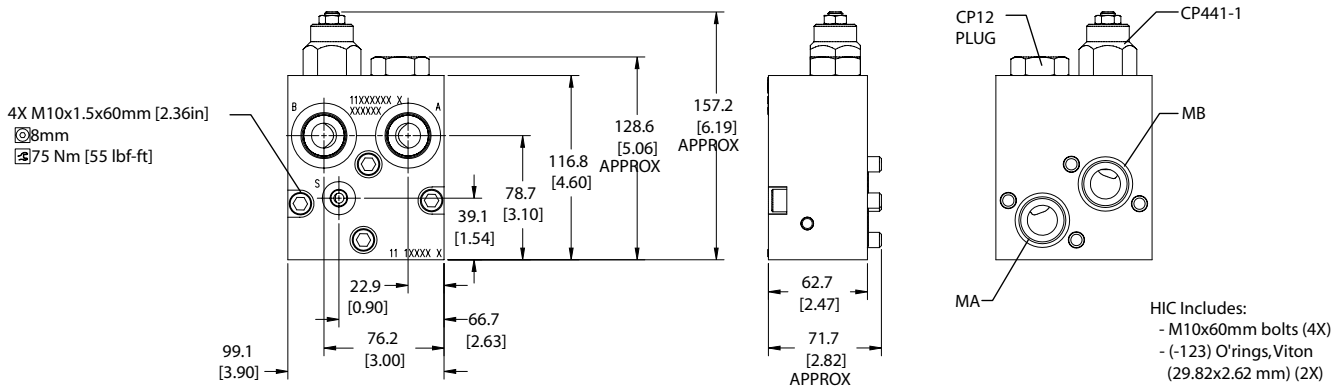
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ 70% of crack pressure
Weight	2.19 kg [4.83 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-LS-BCP441-1-B-12S-E-A-250-10.0-015

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (brake valve)	Single counterbalance valve on 'B' port	Seals	Cartridge seal kit	Housing and ports	Part #	Adjust type	Pressure range	Free flow check crack pressure
					B = Buna-N	120335	12S = A1, #12SAE	11026337	E = External adjustment	See CP441-1 for std. settings	005 = .34 bar (5 psi)
					V = Viton	120336	6B = A1, 3/4 BSP	11026338	F = Tamper resistant	For pilot ratio 3:1	015 = 1.03 bar (15 psi)
										A = 34-103 bar [500-1500 psi]	Pilot ratio
										B = 103-207 bar [1500-3000 psi]	3.0:1
										For pilot ratio 4.5:1	4.5:1
										A = 34-138 bar [500-2000 psi]	10.0:1
										B = 103-345 bar [1500-5000 psi]	Cracking pressure
										For pilot ratio 10:1	Code x 10 = psi
										A = 69-345 bar [1000-5000 psi]	Example: 050 = 500 psi



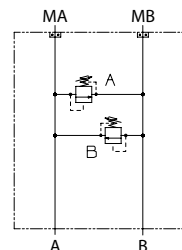
Motor Mount HIC Technical Information

MM-DH-00-DVME06

OPERATION

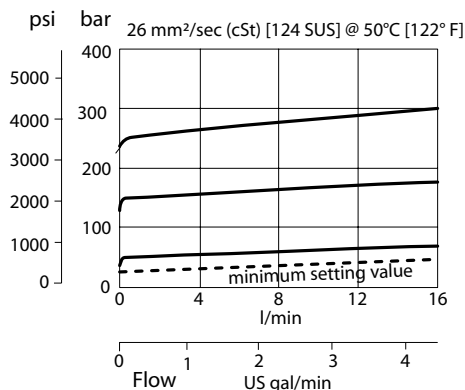
This is a dual cross-port relief HIC that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



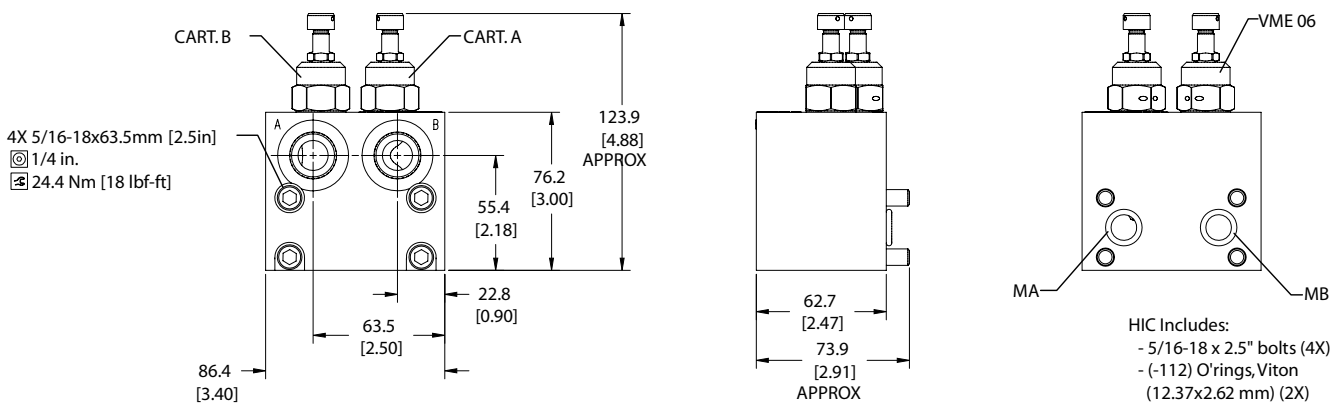
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-00-DVME06-EN-2-10S-B-100

Motor mount		Cracking pressure (bar)	
Motor code		Example: 100 = 100 bar [1450 psi]	
Secondary valve	00 = No valve	Seals	
Dual relief valve		B = Buna-N	
Adjust type	EN = External screw	V = Viton	
		Housing and ports	Part #
		10S = Al, #10SAE	11019307
		4B = Al, 1/2 BSP	11019308
		Setting range	
		1 = 25-70 bar [363-1015 psi]	
		2 = 35-170 bar [508-2466 psi]	
		3 = 70-315 bar [1015-4569 psi]	



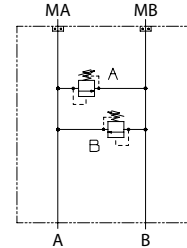
Motor Mount HIC Technical Information

MM-DS-00-DVME06

OPERATION

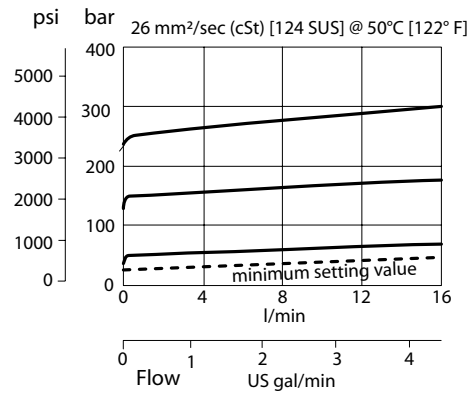
This is a dual cross-port relief HIC that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



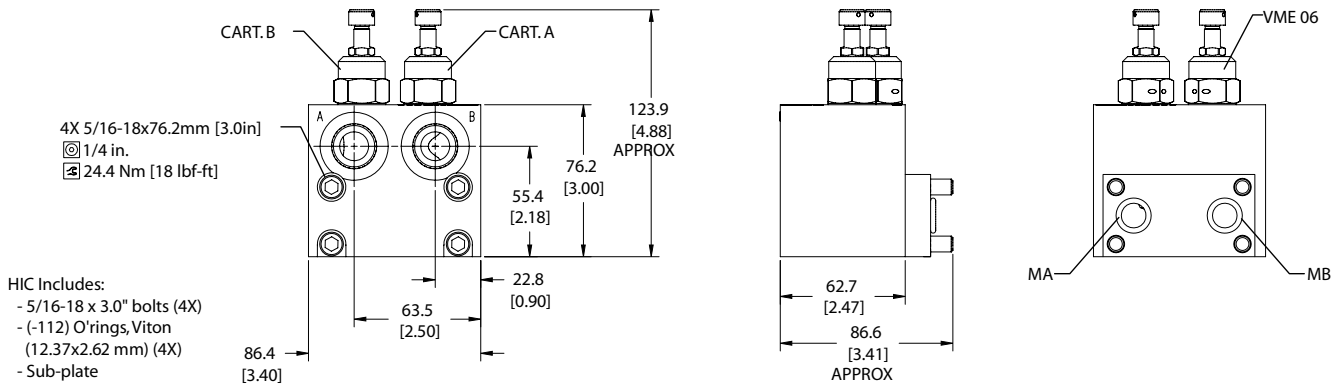
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-00-DVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve 00 = No valve	Housing and ports 10S = Al, #10SAE 4B = Al, 1/2 BSP
Dual relief valve	Part # 11019307 11019308
Adjust type EN = External screw	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]



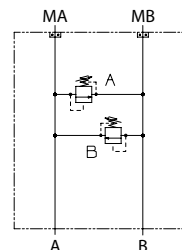
Motor Mount HIC Technical Information

MM-OMP/OMR-00-DVME06

OPERATION

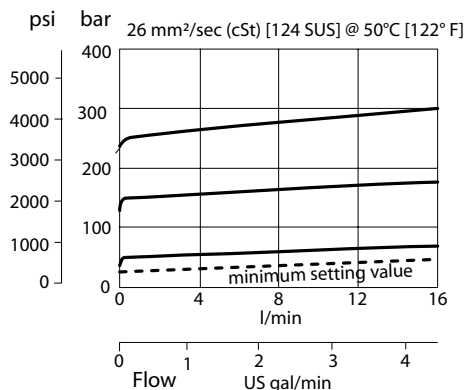
This is a dual cross-port relief HIC that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



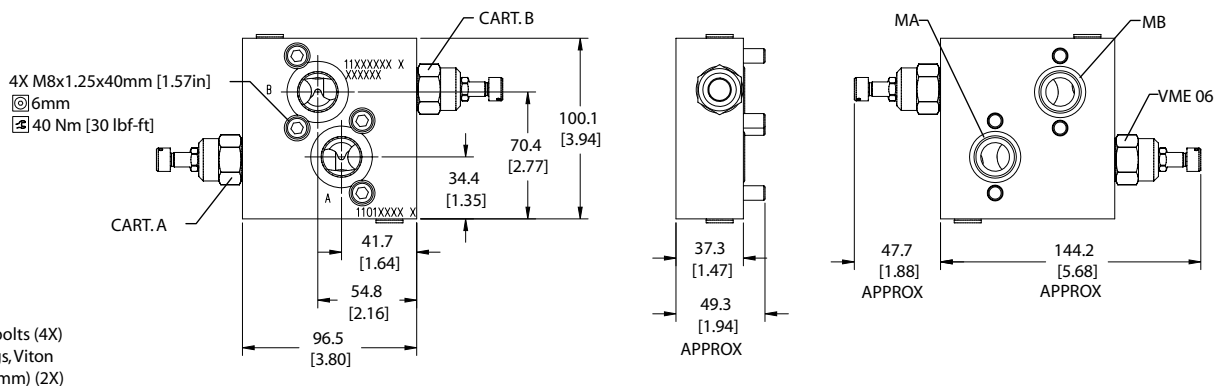
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Service mount kit	11023868
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

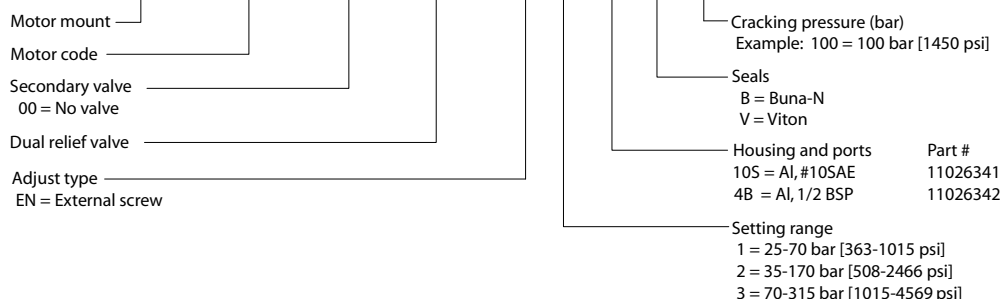
mm [in]



HIC Includes:
- M8x40mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMP/OMR-00-DVME06-EN-2-10S-B-100





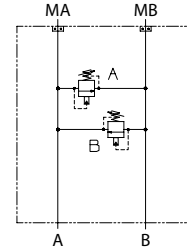
Motor Mount HIC Technical Information

MM-OMH-00-DCP211-2

OPERATION

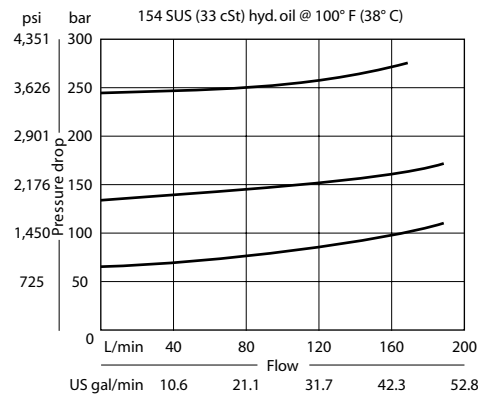
This is a dual cross-port relief HIC that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance

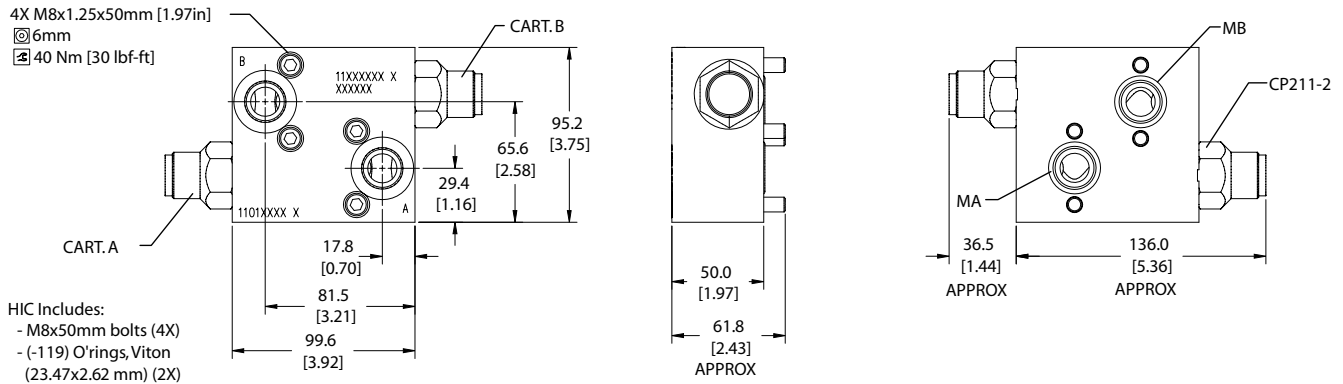


Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.42 kg [3.13 lb]
Cartridge	CP211-2
Service mount kit	11023762
Motor	OMH

DIMENSIONS

Cross-sectional view



ORDERING INFORMATION

MM-OMH-00-DCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	Dual relief valve	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	10S = Al, #10SAE 4B = Al, 1/2 BSP	11026339 11026340	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob



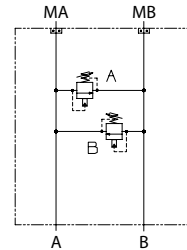
Motor Mount HIC Technical Information

MM-OMS-00-DCP211-2

OPERATION

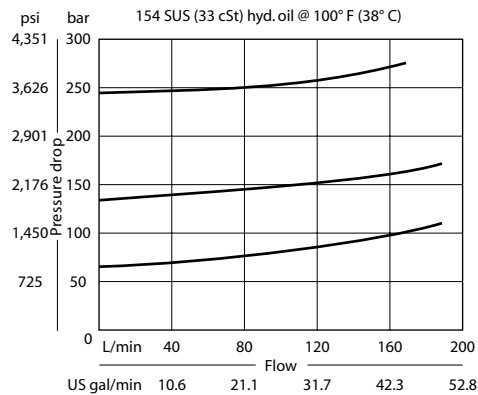
This is a dual cross-port relief HIC that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

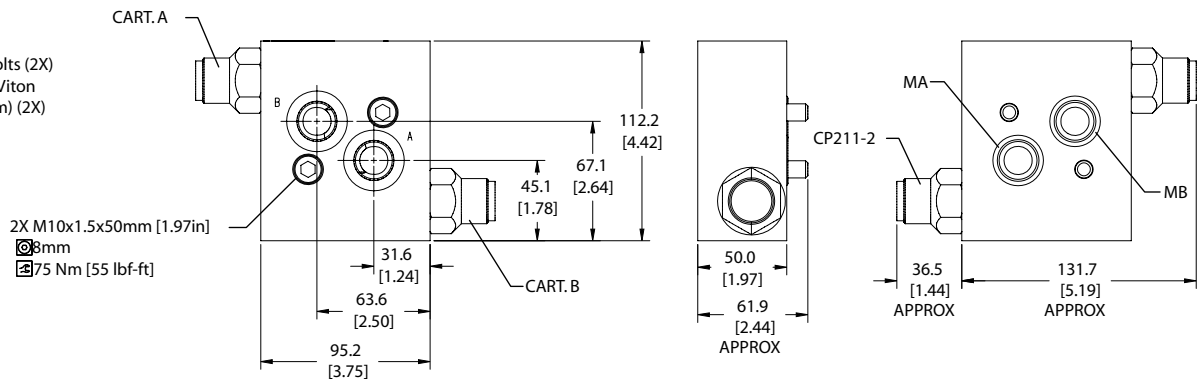
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMS-00-DCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	Dual relief valve	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	10S = Al, #10SAE 4B = Al, 1/2 BSP	11026343 11026344	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob

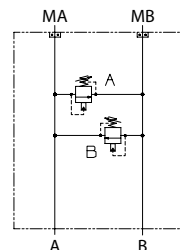
Motor Mount HIC Technical Information

MM-OMT-00-DCP211-2

OPERATION

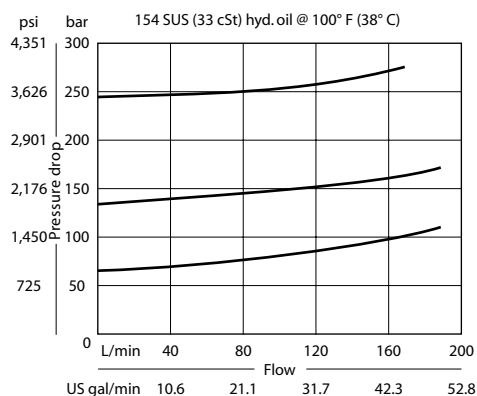
This is a dual cross-port relief HIC that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



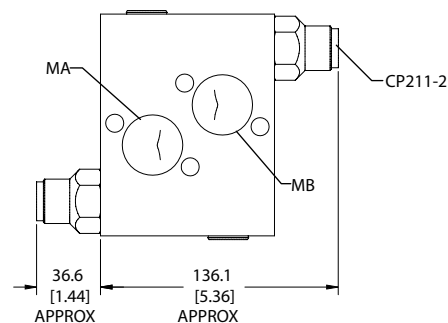
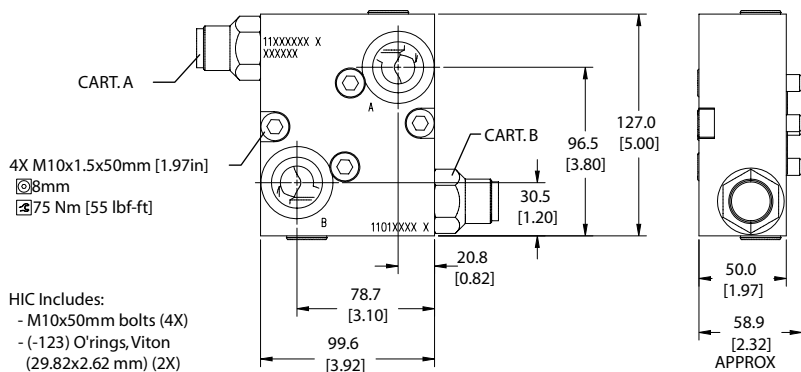
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-00-DCP211-2-B-12S-E-C-254

Motor mount		Crack pressure Code x 10 = psi Example: 050 = 500 psi
Motor code		Pressure range <i>See CP211-2 for std. settings</i> A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]
Secondary valve		
00 = No valve		
Dual relief valve		
Seals	Cartridge seal kit	
B = Buna-N	120017	
V = Viton	120018	
Housing and ports	Part #	Adjust type
12S = Al, #12 SAE	11026345	A = Internal E = External
6B = Al, 3/4 BSP	11026346	F = Tamper resistant K = Knob



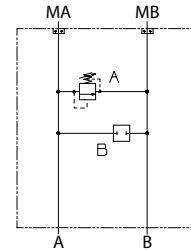
Motor Mount HIC Technical Information

MM-DH-00-AVME06

OPERATION

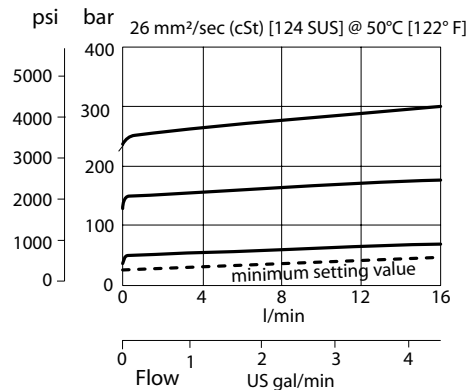
This is a single cross-port relief (A to B) HIC that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



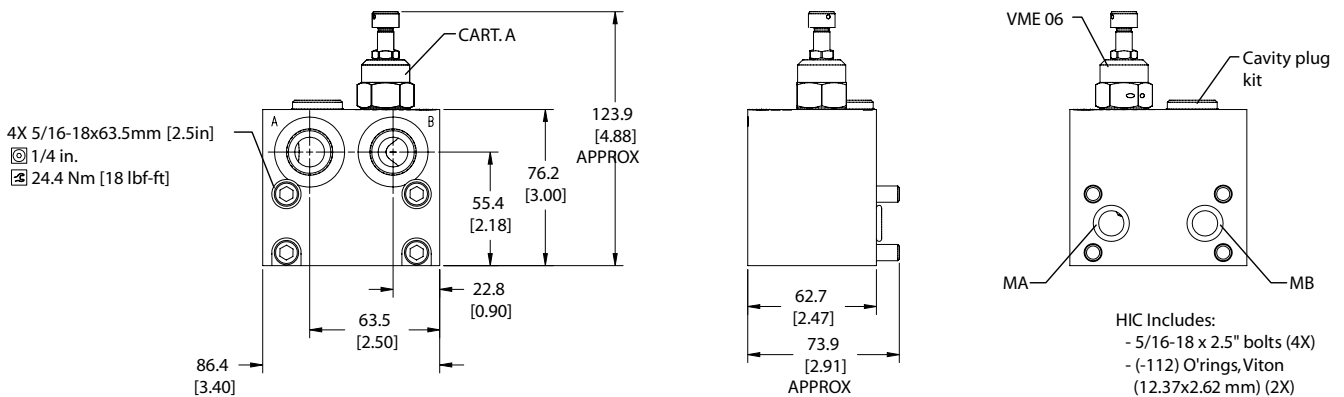
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Plug	11023862
Service mount kit	11026074
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-00-AVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve 00 = No valve	Housing and ports 10S = Al, #10SAE 4B = Al, 1/2 BSP
Single relief valve on 'A' port	Part # 11019307 11019308
Adjust type EN = External screw	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]



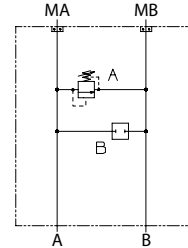
Motor Mount HIC Technical Information

MM-DS-00-AVME06

OPERATION

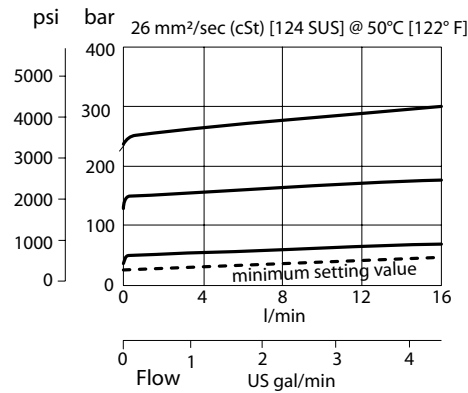
This is a single cross-port relief (A to B) HIC that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



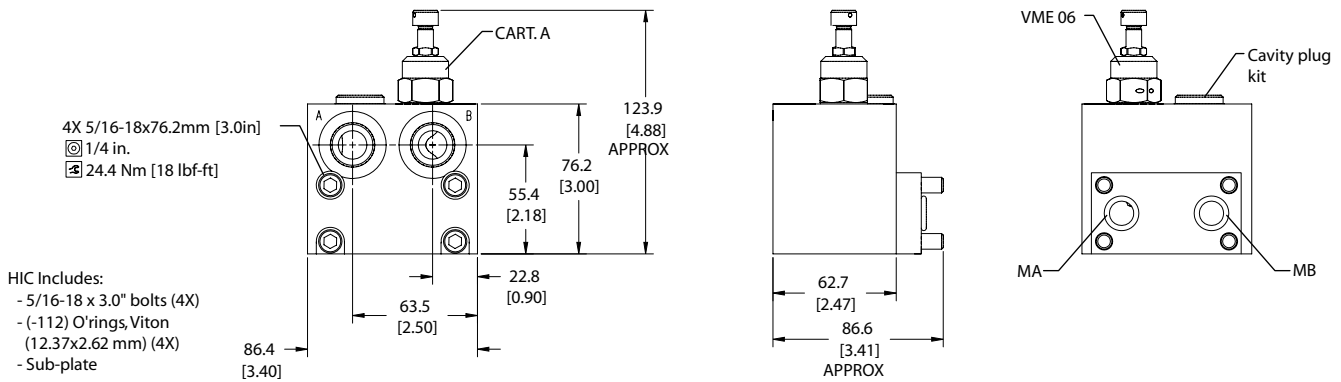
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-00-AVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar)	Part #
Motor code	Example: 100 = 100 bar [1450 psi]	11019307
Secondary valve	Seals	11019308
00 = No valve	B = Buna-N	
Single relief valve on 'A' port	V = Viton	
Adjust type	Housing and ports	
EN = External screw	10S = Al, #10SAE	
	4B = Al, 1/2 BSP	
	Setting range	
	1 = 25-70 bar [363-1015 psi]	
	2 = 35-170 bar [508-2466 psi]	
	3 = 70-315 bar [1015-4569 psi]	



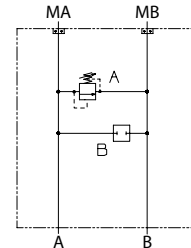
Motor Mount HIC Technical Information

MM-OMP/OMR-00-AVME06

OPERATION

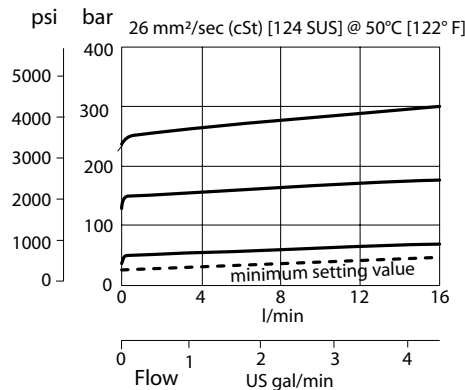
This is a single cross-port relief (A to B) HIC that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

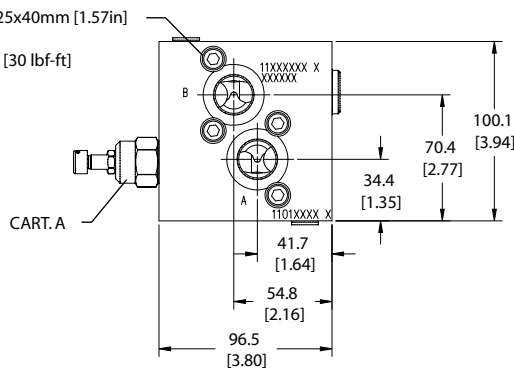
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023868
Motor	OMPX/OMRX

DIMENSIONS

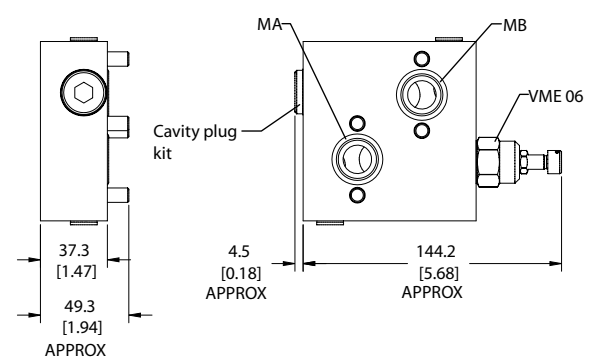
Cross-sectional view

mm [in]

4X M8x1.25x40mm [1.57in]
⌀6mm
40 Nm [30 lbf-ft]



HIC Includes:
- M8x40mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMP/OMR-00-AVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve 00 = No valve	Housing and ports 10S = Al, #10SAE 4B = Al, 1/2 BSP
Single relief valve on 'A' port	Part # 11026341 11026342
Adjust type EN = External screw	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]



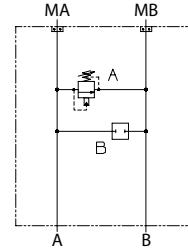
Motor Mount HIC Technical Information

MM-OMH-00-ACP211-2

OPERATION

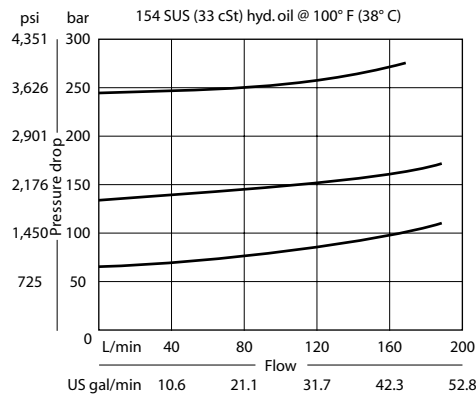
This is a single cross-port relief (A to B) HIC that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



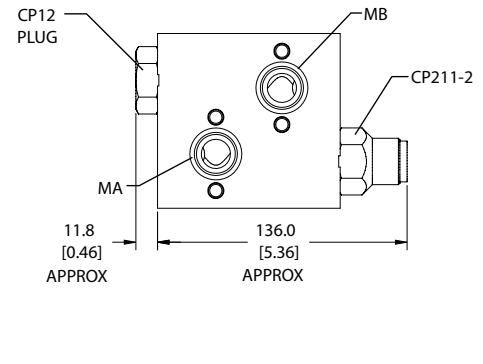
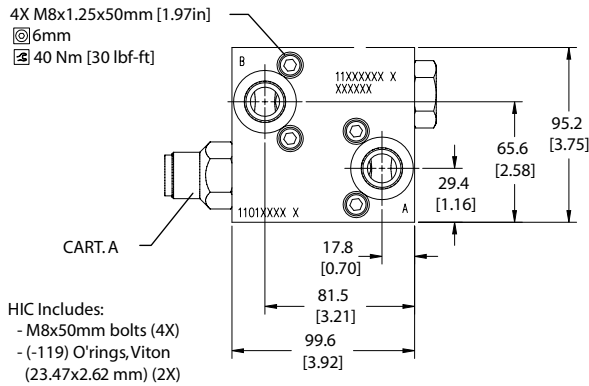
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.42 kg [3.13 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023162
Motor	OMH

DIMENSIONS

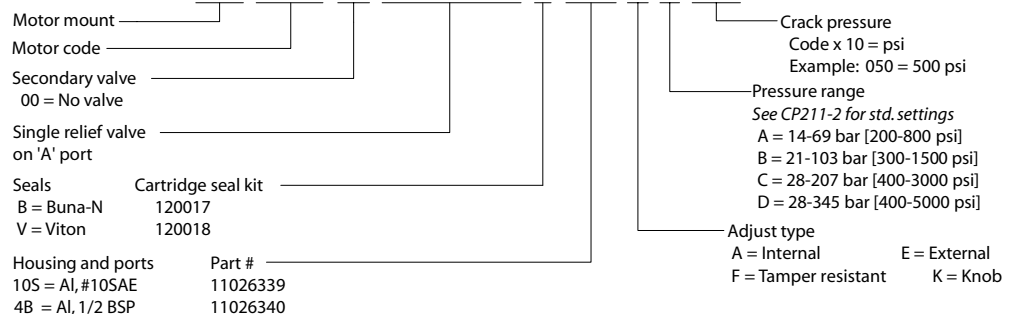
Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-00-ACP211-2-B-10S-E-C-254





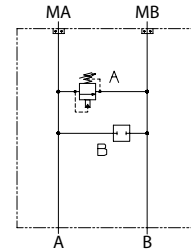
Motor Mount HIC Technical Information

MM-OMS-00-ACP211-2

OPERATION

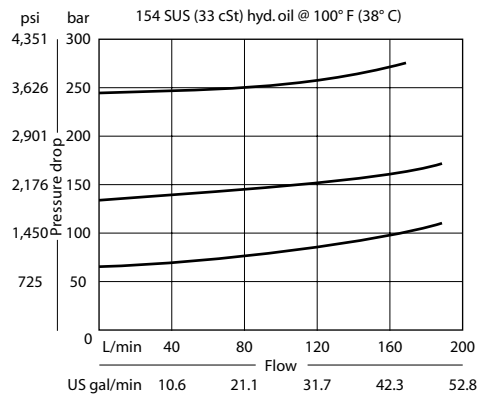
This is a single cross-port relief (A to B) HIC that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

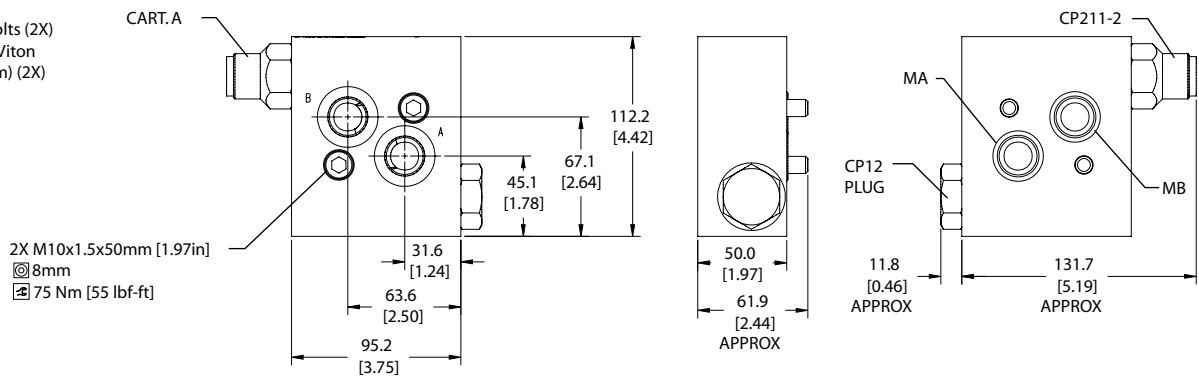
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMS-00-ACP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	Single relief valve on 'A' port	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	10S = AI, #10SAE 4B = AI, 1/2 BSP	11026343 11026344	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob



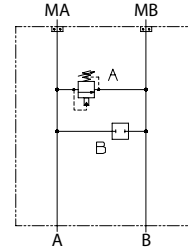
Motor Mount HIC Technical Information

MM-OMT-00-ACP211-2

OPERATION

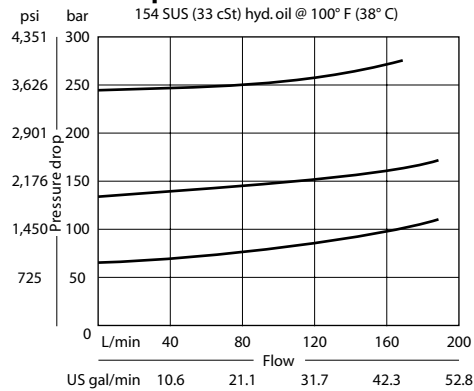
This is a single cross-port relief (A to B) HIC that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



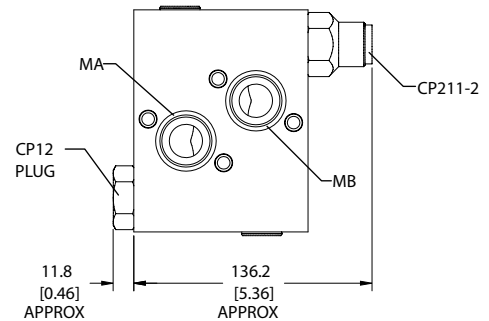
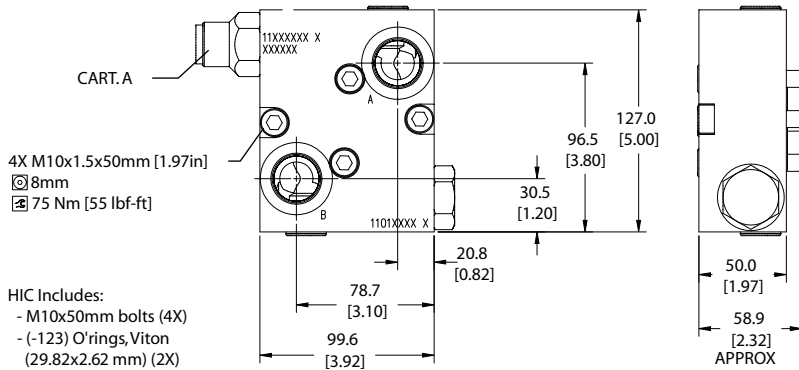
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-00-ACP211-2-B-12S-E-C-254

Motor mount	Motor code	Secondary valve	Single relief valve on 'A' port	Seals	Cartridge seal kit	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob
Housing and ports	Part #							
12S = A1, #12 SAE 6B = A1, 3/4 BSP	11026345 11026346							



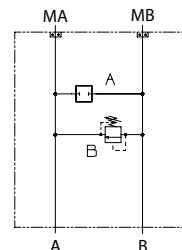
Motor Mount HIC Technical Information

MM-DH-00-BVME06

OPERATION

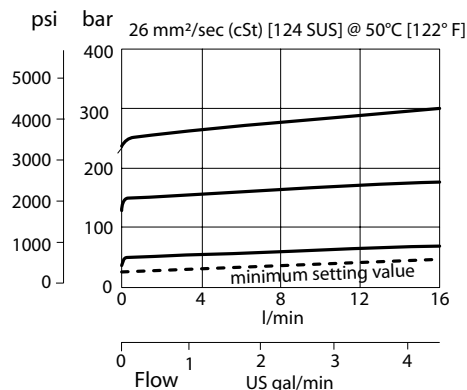
This is a single cross-port relief (B to A) HIC that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



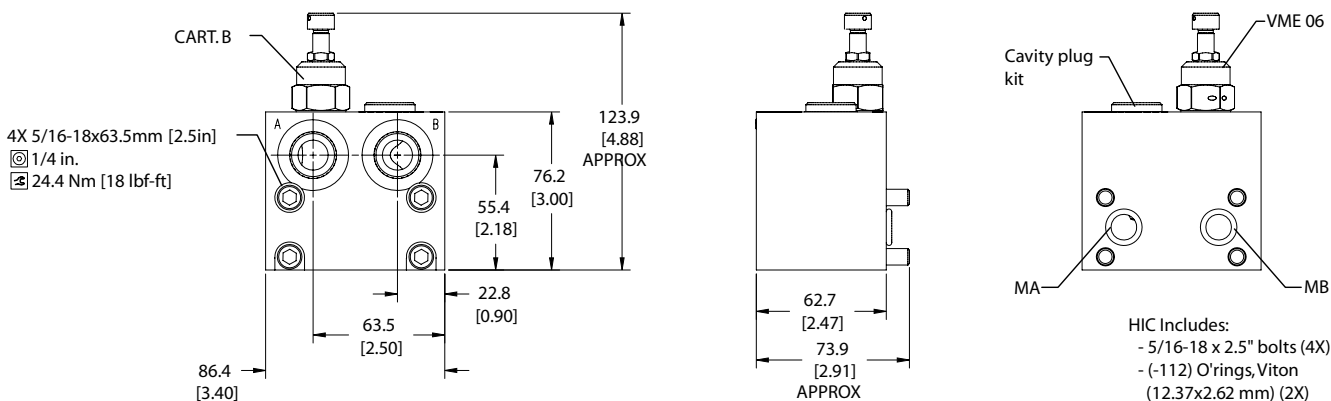
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-00-BVME06-EN-2-10S-B-100

Motor mount	Motor code	Secondary valve	Single relief valve on 'B' port	Adjust type	Cracking pressure (bar)	Seals	Housing and ports	Setting range	Part #
		00 = No valve		EN = External screw	Example: 100 = 100 bar [1450 psi]	B = Buna-N V = Viton	10S = Al, #10SAE 4B = Al, 1/2 BSP	1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]	11019307 11019308



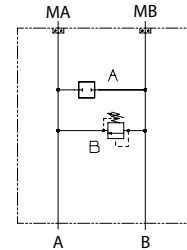
Motor Mount HIC Technical Information

MM-DS-00-BVME06

OPERATION

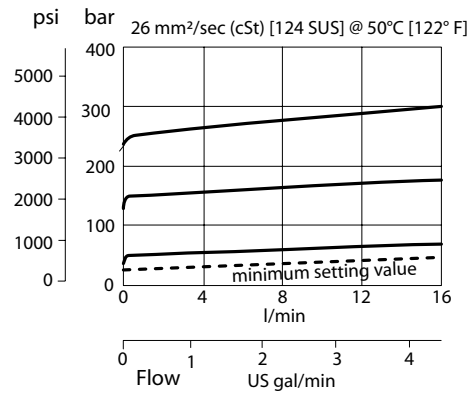
This is a single cross-port relief (B to A) HIC that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



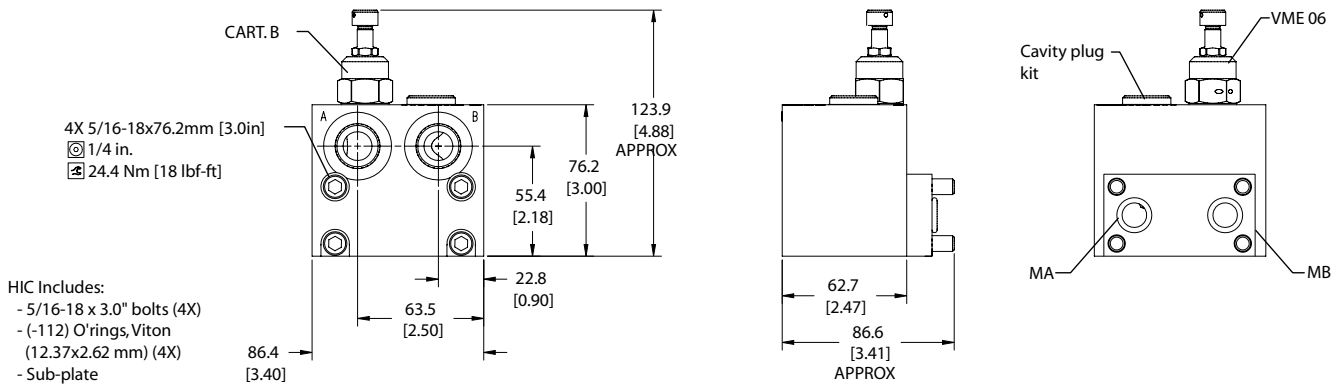
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-00-BVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar)	Part #
Motor code	Example: 100 = 100 bar [1450 psi]	11019307
Secondary valve	Seals	11019308
00 = No valve	B = Buna-N	
Single relief valve on 'B' port	V = Viton	
Adjust type	Housing and ports	
EN = External screw	10S = Al, #10SAE	
	4B = Al, 1/2 BSP	
	Setting range	
	1 = 25-70 bar [363-1015 psi]	
	2 = 35-170 bar [508-2466 psi]	
	3 = 70-315 bar [1015-4569 psi]	



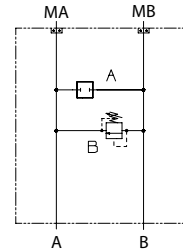
Motor Mount HIC Technical Information

MM-OMP/OMR-00-BVME06

OPERATION

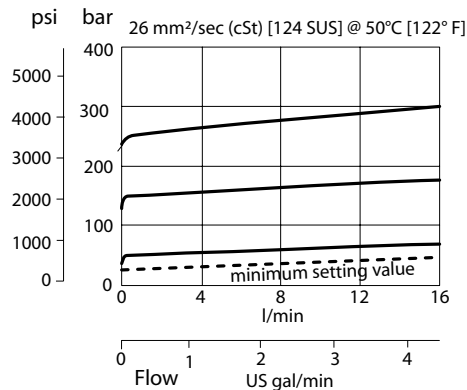
This is a single cross-port relief (B to A) HIC that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



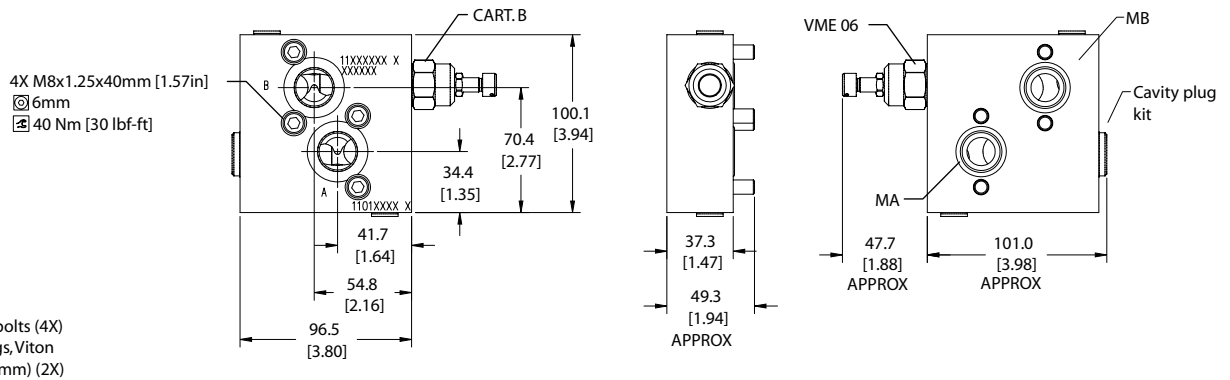
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023868
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M8x40mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMP/OMR-00-BVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]	
Motor code	Seals B = Buna-N V = Viton	
Secondary valve 00 = No valve	Housing and ports 10S = AI, #10SAE 4B = AI, 1/2 BSP	Part # 11026341 11026342
Single relief valve on 'B' port	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]	
Adjust type EN = External screw		



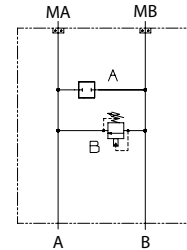
Motor Mount HIC Technical Information

MM-OMH-00-BCP211-2

OPERATION

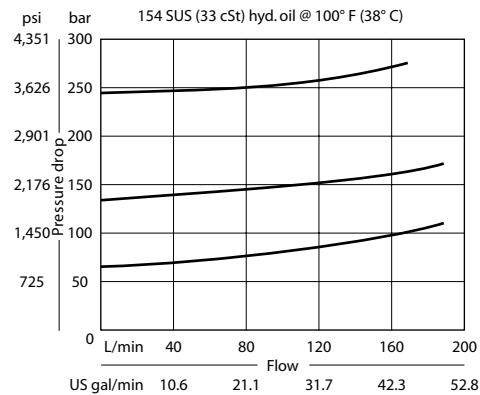
This is a single cross-port relief (B to A) HIC that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

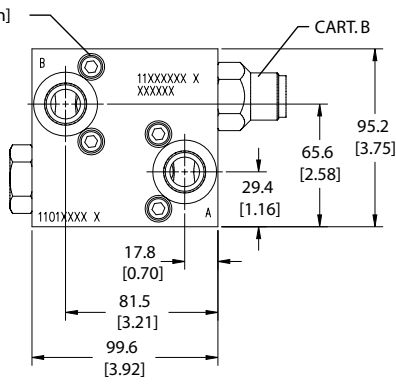
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.42 kg [3.13 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023162
Motor	OMH

DIMENSIONS

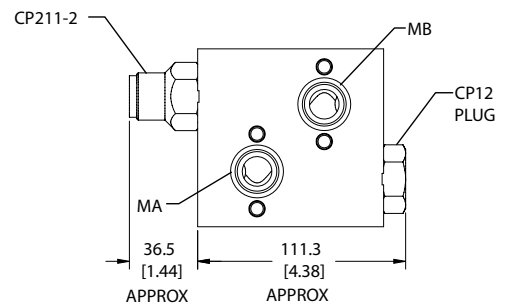
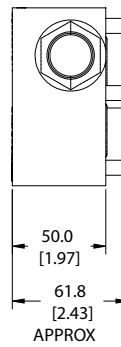
Cross-sectional view

mm [in]

4X M8x1.25x50mm [1.97in]
6mm
40 Nm [30 lbf-ft]



HIC Includes:
- M8x50mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMH-00-BCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	Single relief valve on 'B' port	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	10S = AI, #10SAE 4B = AI, 1/2 BSP	11026339 11026340	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob



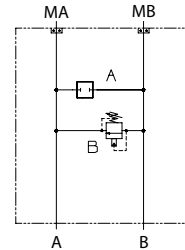
Motor Mount HIC Technical Information

MM-OMS-00-BCP211-2

OPERATION

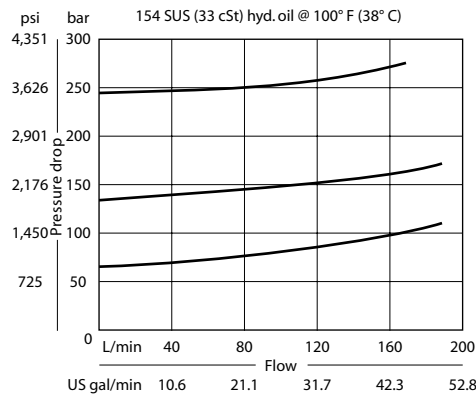
This is a single cross-port relief (B to A) HIC that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

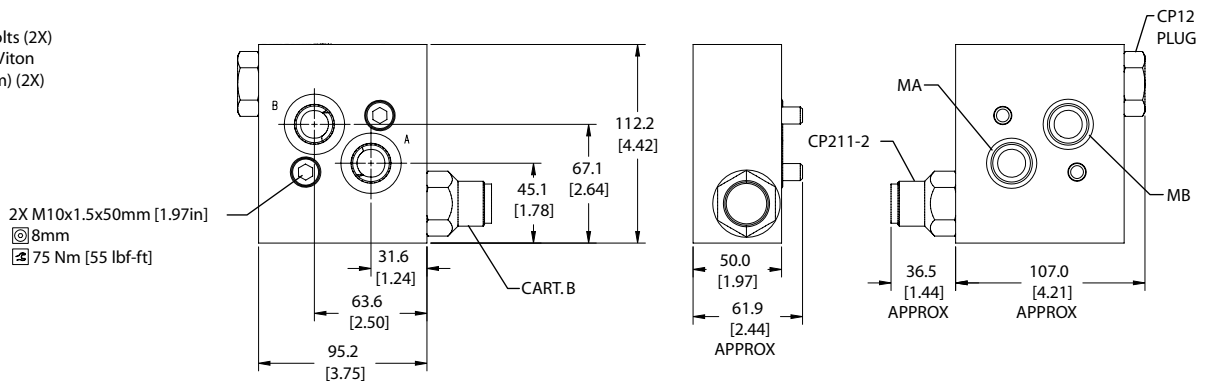
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMS-00-BCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	Single relief valve on 'B' port	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N	120017	10S = AI, #10SAE	11026343	Code x 10 = psi	See CP211-2 for std. settings	A = Internal
				V = Viton	120018	4B = AI, 1/2 BSP	11026344	Example: 050 = 500 psi	A = 14-69 bar [200-800 psi]	E = External
									B = 21-103 bar [300-1500 psi]	F = Tamper resistant
									C = 28-207 bar [400-3000 psi]	K = Knob
									D = 28-345 bar [400-5000 psi]	



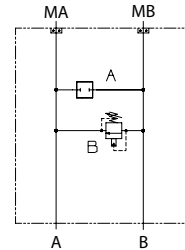
Motor Mount HIC Technical Information

MM-OMT-00-BCP211-2

OPERATION

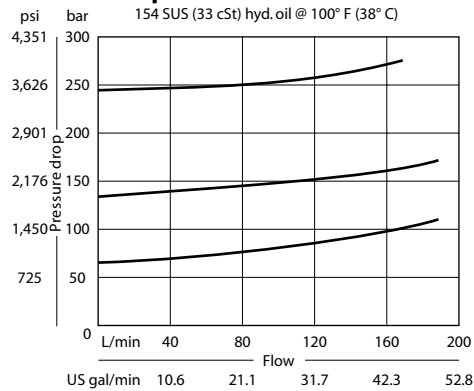
This is a single cross-port relief (B to A) HIC that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



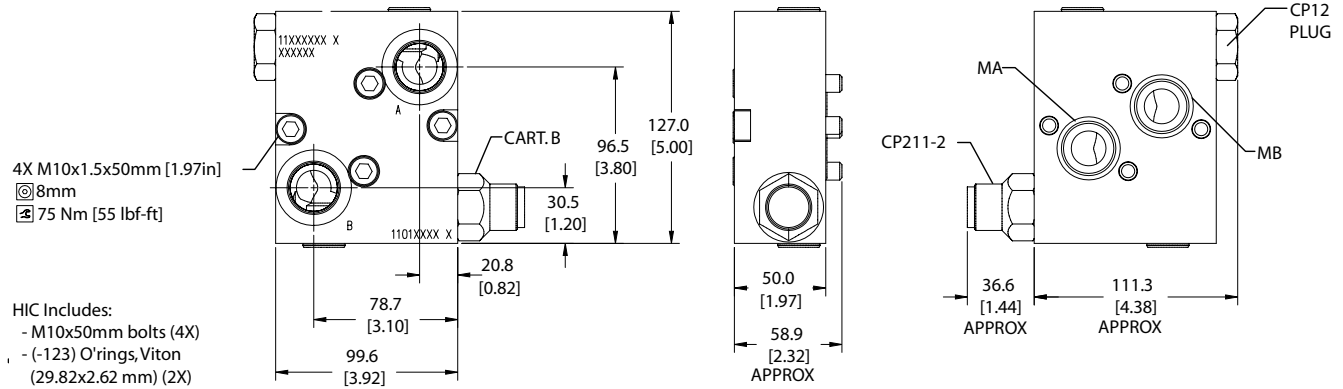
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-00-BCP211-2-B-12S-E-C-254

Motor mount	Motor code	Secondary valve	Single relief valve on 'B' port	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Pressure range	Adjust type
		00 = No valve		B = Buna-N V = Viton	120017 120018	12S = Al, #12 SAE 6B = Al, 3/4 BSP	11026345 11026346	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob



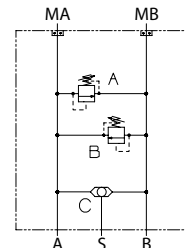
Motor Mount HIC Technical Information

MM-DH-LS-DVME06

OPERATION

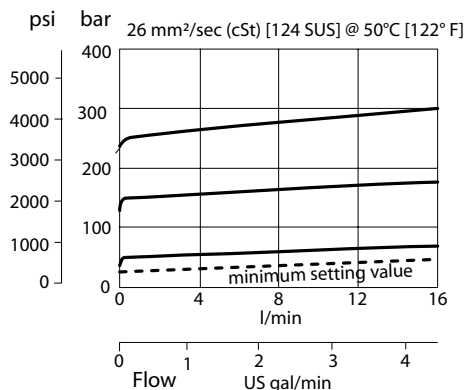
This is a dual cross-port relief HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



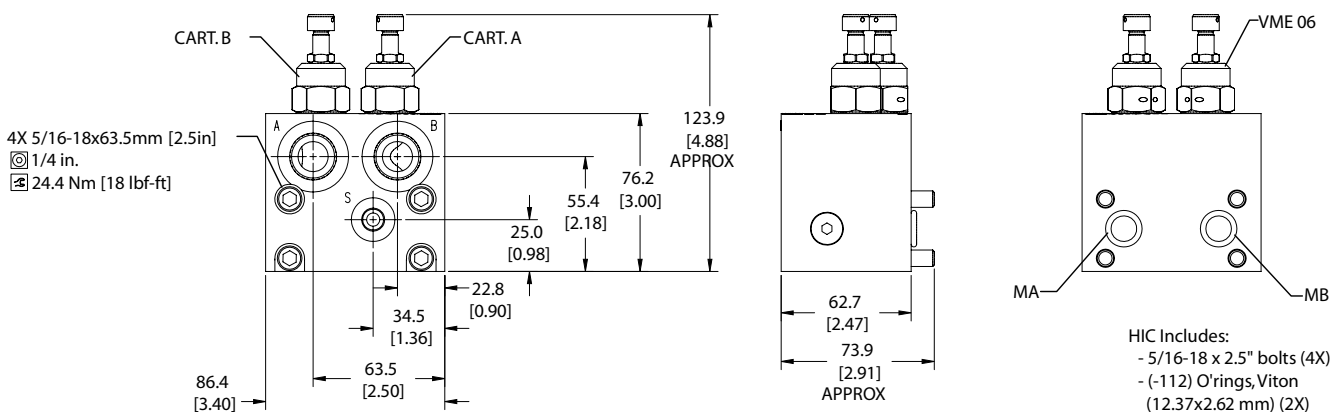
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-LS-DVME06-EN-2-10S-B-100

Motor mount		Cracking pressure (bar)	
Motor code		Example: 100 = 100 bar [1450 psi]	
Secondary valve		Seals	
LS = Load sense shuttle valve (Brake valve)		B = Buna-N	
Dual relief valve		V = Viton	
Adjust type		Housing and ports	Part #
EN = External screw		10S = AI, #10SAE	11019317
		4B = AI, 1/2 BSP	11019318
		Setting range	
		1 = 25-70 bar [363-1015 psi]	
		2 = 35-170 bar [508-2466 psi]	
		3 = 70-315 bar [1015-4569 psi]	



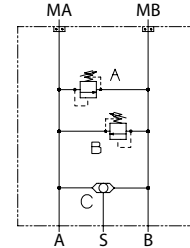
Motor Mount HIC Technical Information

MM-DS-LS-DVME06

OPERATION

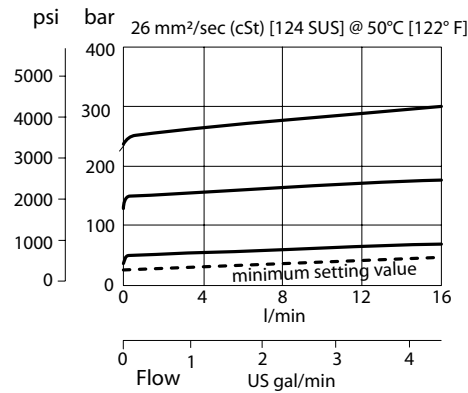
This is a dual cross-port relief HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



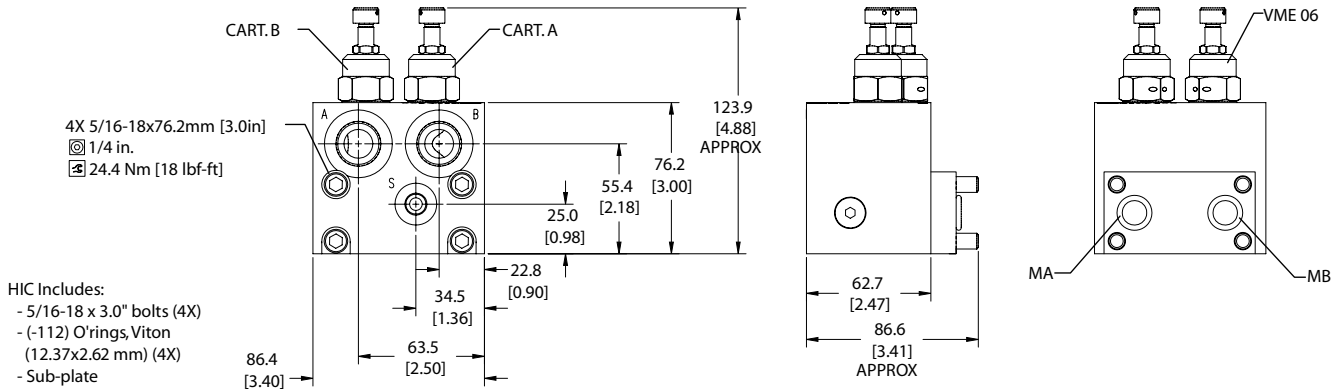
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-LS-DVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar)	Example: 100 = 100 bar [1450 psi]
Motor code	Seals	B = Buna-N V = Viton
Secondary valve	Housing and ports	10S = Al, #10SAE 4B = Al, 1/2 BSP
LS = Load sense shuttle valve (Brake valve)	Part #	11019317 11019318
Dual relief valve	Setting range	1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]
Adjust type		
EN = External screw		



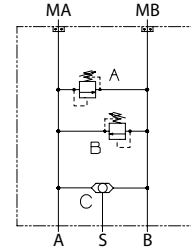
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-DVME06

OPERATION

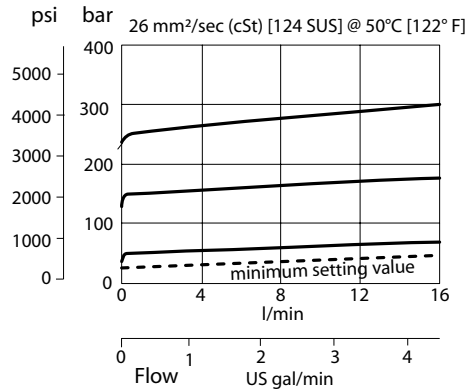
This is a dual cross-port relief HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



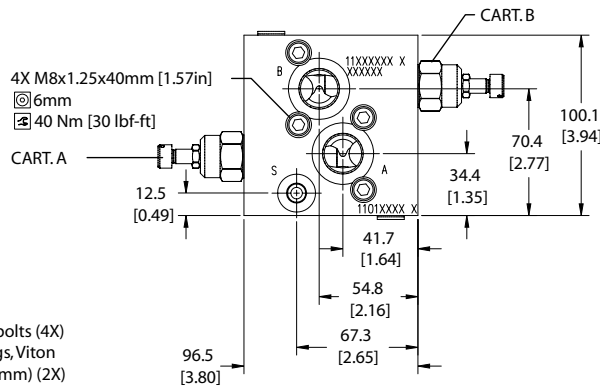
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023868
Motor	OMPX/OMRX

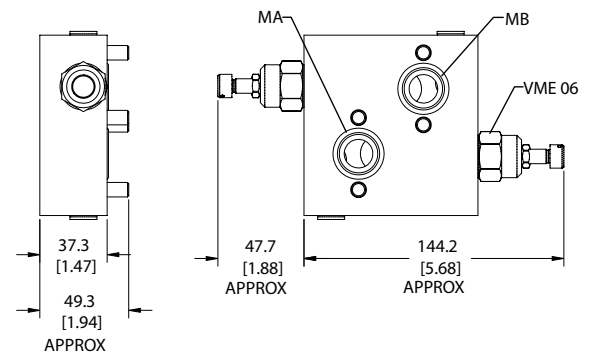
DIMENSIONS

Cross-sectional view

mm [in]

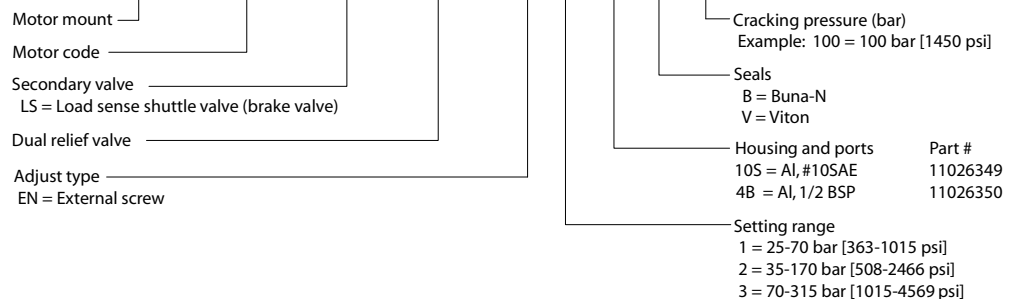


HIC Includes:
- M8x40mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMP/OMR-LS-DVME06-EN-2-10S-B-100





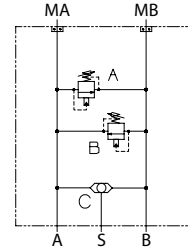
Motor Mount HIC Technical Information

MM-OMH-LS-DCP211-2

OPERATION

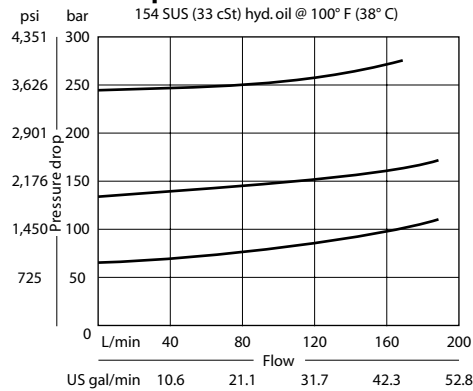
This is a dual cross-port relief HIC with shuttle that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



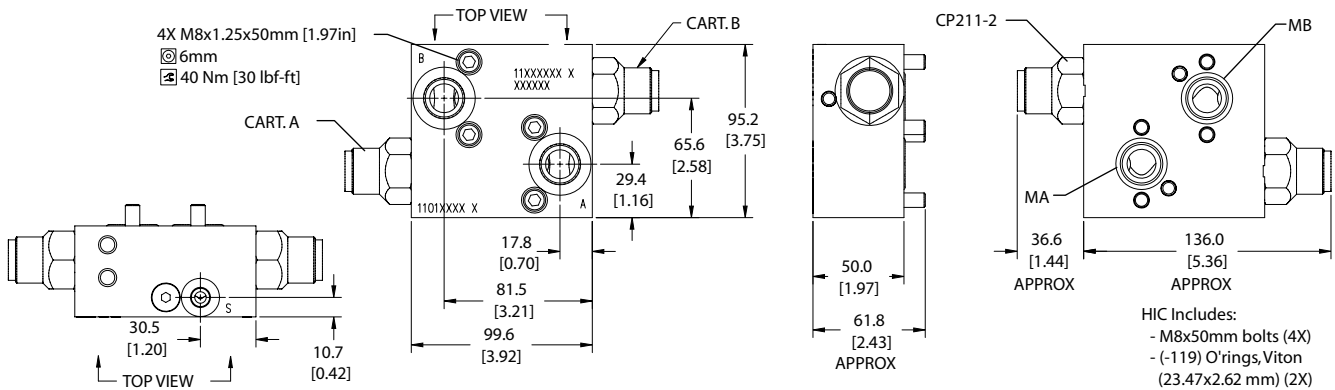
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.41 kg [3.11 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-LS-DCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (Brake valve)	Dual relief valve	Seals	Cartridge seal kit	Crack pressure	Code x 10 = psi	Example: 050 = 500 psi
B = Buna-N	120017	V = Viton	120018				Pressure range	See CP211-2 for std. settings	
							A = 14-69 bar [200-800 psi]		
							B = 21-103 bar [300-1500 psi]		
							C = 28-207 bar [400-3000 psi]		
							D = 28-345 bar [400-5000 psi]		
Housing and ports	Part #						Adjust type	A = Internal	E = External
10S = AI, #10SAE	11026347						F = Tamper resistant	K = Knob	
4B = AI, 1/2 BSP	11026348								



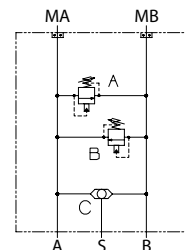
Motor Mount HIC Technical Information

MM-OMS-LS-DCP211-2

OPERATION

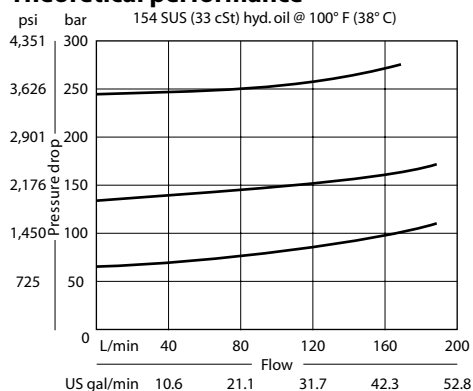
This is a dual cross-port relief HIC with shuttle that mounts to OMS motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

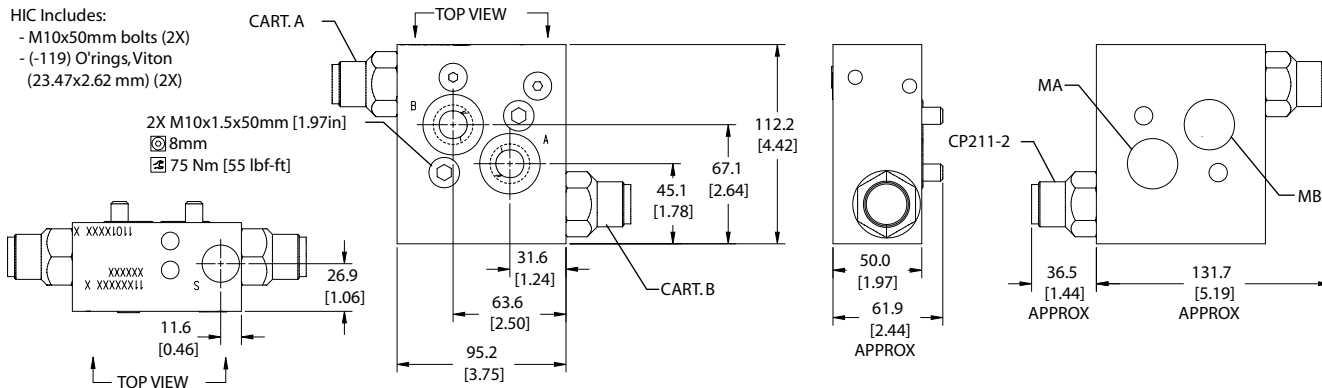
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMS-LS-DCP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (Brake valve)	Dual relief valve	Seals	Cartridge seal kit	Housing and ports	Part #	Crack pressure	Code x 10 = psi	Example: 050 = 500 psi	Pressure range	See CP211-2 for std. settings	Adjust type	A = Internal	E = External	F = Tamper resistant	K = Knob
					B = Buna-N	120017	10S = AI, #10SAE	11026351										
					V = Viton	120018	4B = AI, 1/2 BSP	11026352										



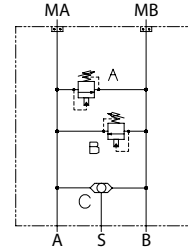
Motor Mount HIC Technical Information

MM-OMT-LS-DCP211-2

OPERATION

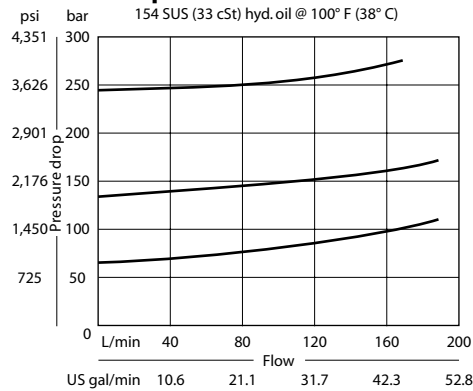
This is a dual cross-port relief HIC with shuttle that mounts to OMT motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



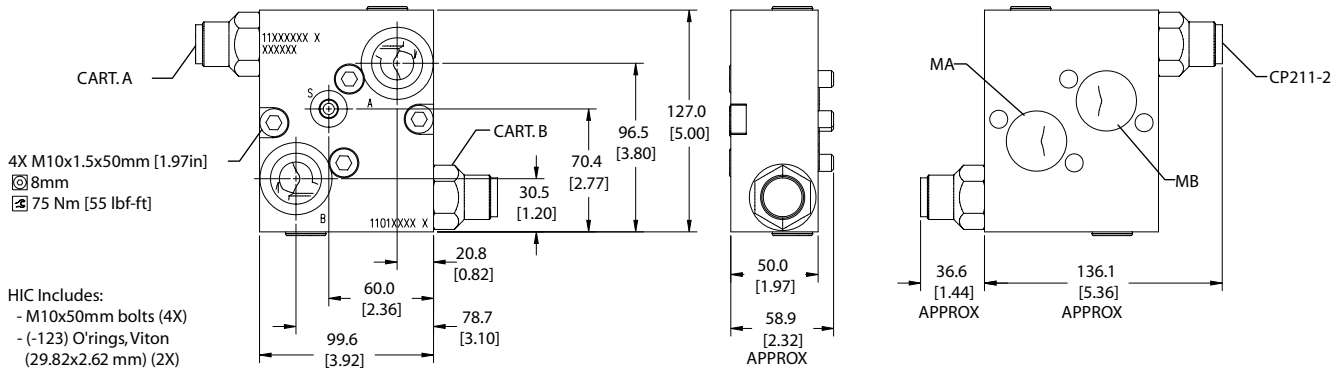
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.84 kg [4.06 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-LS-DCP211-2-B-12S-E-C-254

Motor mount	Motor code	Secondary valve	Dual relief valve	Seals	Cartridge seal kit	Crack pressure	Pressure range	Adjust type
LS = Load sense shuttle valve (Brake valve)				B = Buna-N V = Viton	120017 120018	Code x 10 = psi Example: 050 = 500 psi	See CP211-2 for std. settings A = 14-69 bar [200-800 psi] B = 21-103 bar [300-1500 psi] C = 28-207 bar [400-3000 psi] D = 28-345 bar [400-5000 psi]	A = Internal F = Tamper resistant E = External K = Knob
Housing and ports	Part #							
12S = Al, #12 SAE 6B = Al, 3/4 BSP	11026353 11026354							



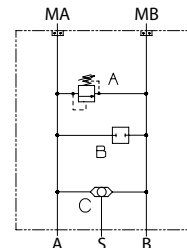
Motor Mount HIC Technical Information

MM-DH-LS-AVME06

OPERATION

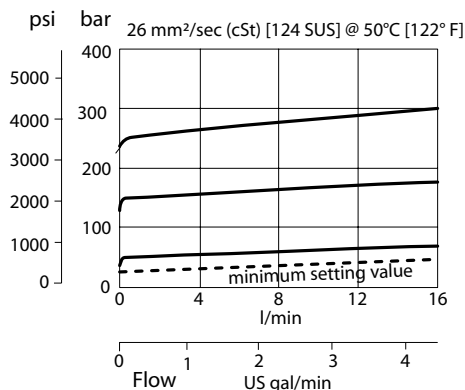
Single cross-port relief (A to B) HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



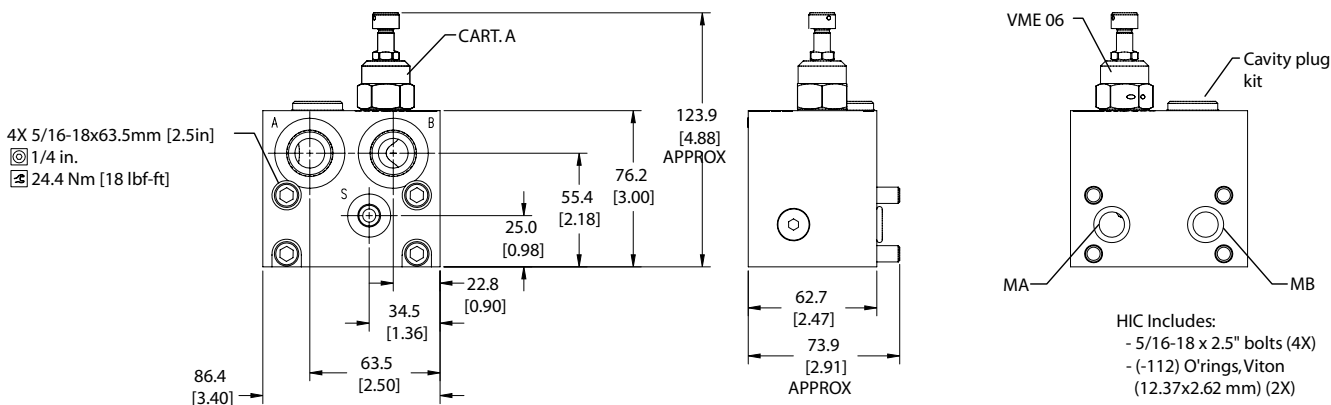
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-LS-AVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve LS = Load sense shuttle valve (Brake valve)	Housing and ports 10S = Al, #10SAE 4B = Al, 1/2 BSP
Single relief valve on 'A' port	Part # 11019317 11019318
Adjust type EN = External screw	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]



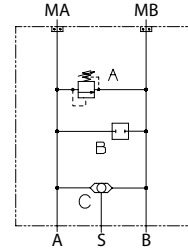
Motor Mount HIC Technical Information

MM-DS-LS-AVME06

OPERATION

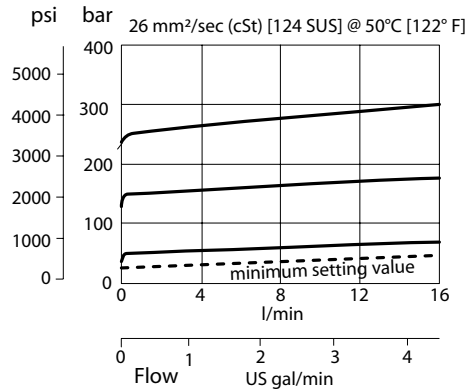
Single cross-port relief (A to B) HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



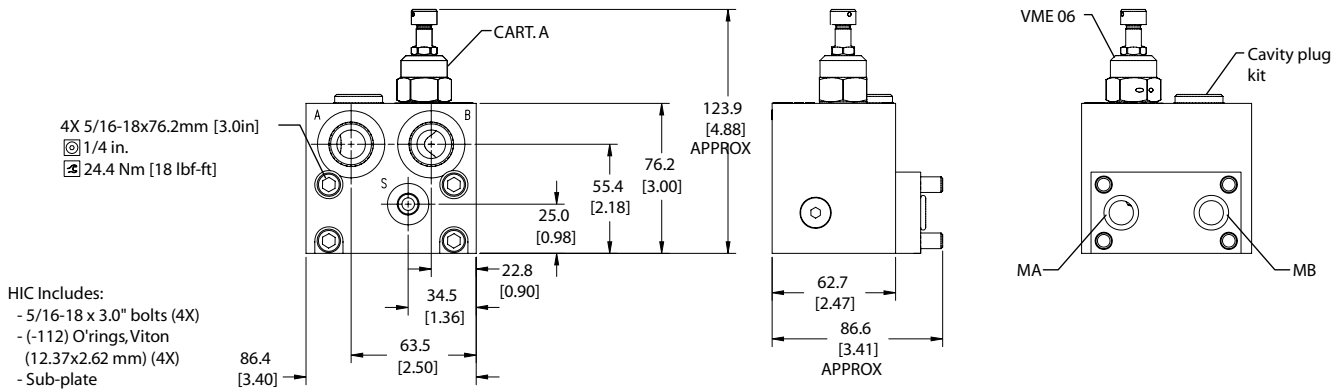
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-LS-AVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve LS = Load sense shuttle valve (Brake valve)	Housing and ports 10S = Al, #10SAE 4B = Al, 1/2 BSP
Single relief valve on 'A' port	Part # 11019317 11019318
Adjust type EN = External screw	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]

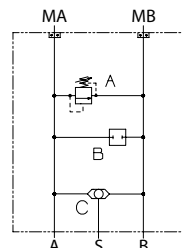
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-AVME06

OPERATION

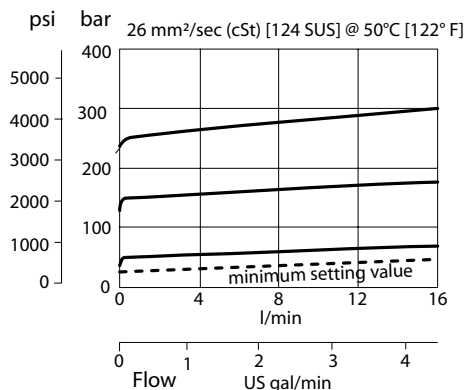
Single cross-port relief (A to B) HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



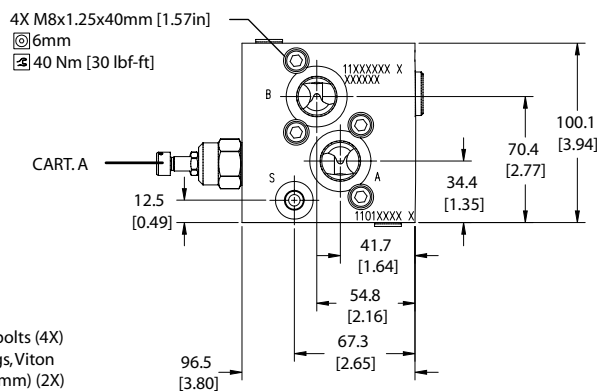
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023868
Motor	OMPX/OMRX

DIMENSIONS

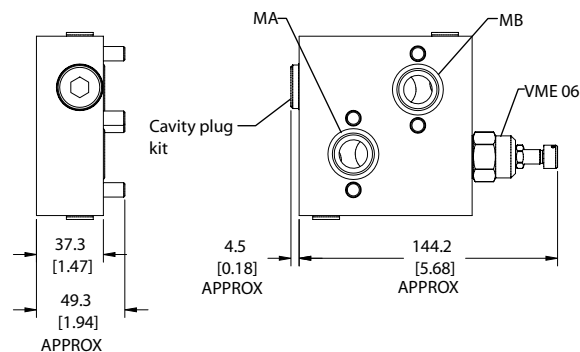
Cross-sectional view

mm [in]



HIC Includes:

- M8x40mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMP/OMR-LS-AVME06-EN-2-10S-B-100

Motor mount

Motor code —

Secondary valve

LS = Load sense shuttle valve (brake valve)

Single relief valve
on 'A' port

Adjust type

Adjust type ———
EN = External screw

—Cracking pressure (bar)

Example: 100 = 100 bar [1450 psi]

— Seals

B = Buna-N

V = Viton

- Housing and ports

10S = AI, #10SAE

4B = Al, 1/2 BSP

— Setting range

1 = 25-70 bar [363-1015 psi]

2 = 35-170 bar [508-2466 psi]

3 = 70-315 bar [1015-4569 psi]

Part #
11026349
11026350



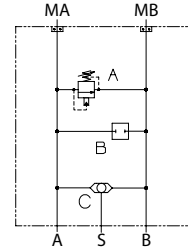
Motor Mount HIC Technical Information

MM-OMH-LS-ACP211-2

OPERATION

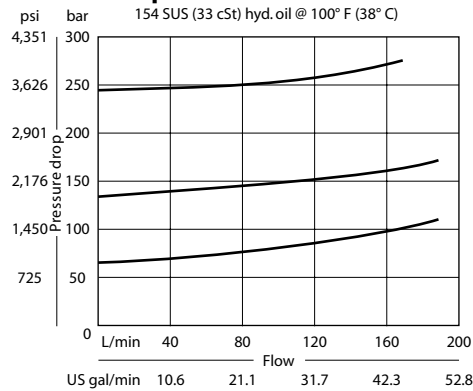
Single cross-port relief (A to B) HIC with shuttle that mounts to OMH motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



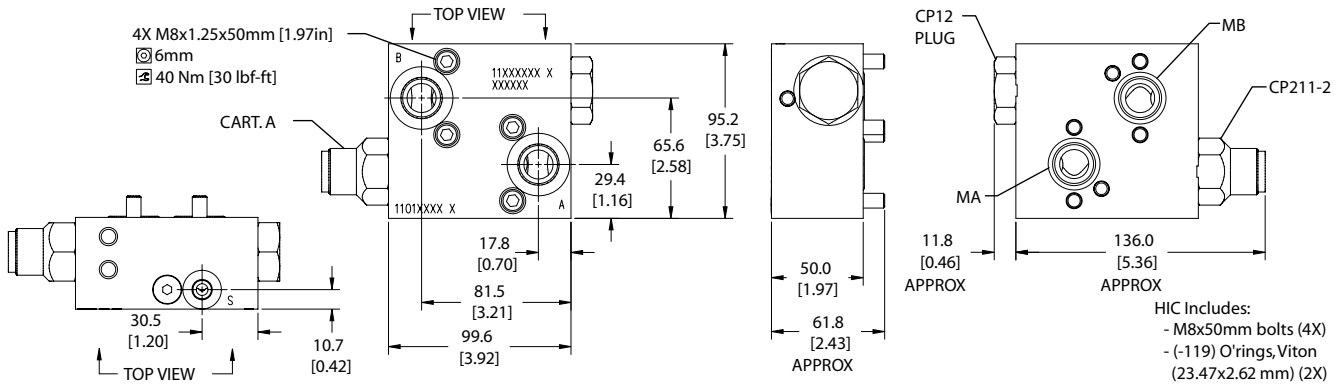
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.41 kg [3.11 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-LS-ACP211-2-B-10S-E-C-254

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (Brake valve)	Single relief valve on 'A' port	Seals	B = Buna-N	V = Viton	Cartridge seal kit	120017	120018	Housing and ports	10S = AI, #10SAE	4B = AI, 1/2 BSP	Part #	11026347	11026348	Crack pressure	Code x 10 = psi	Example: 050 = 500 psi	Pressure range	See CP211-2 for std. settings	A = 14-69 bar [200-800 psi]	B = 21-103 bar [300-1500 psi]	C = 28-207 bar [400-3000 psi]	D = 28-345 bar [400-5000 psi]	Adjust type	A = Internal	E = External	F = Tamper resistant	K = Knob
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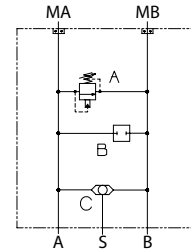
Motor Mount HIC Technical Information

MM-OMS-LS-ACP211-2

OPERATION

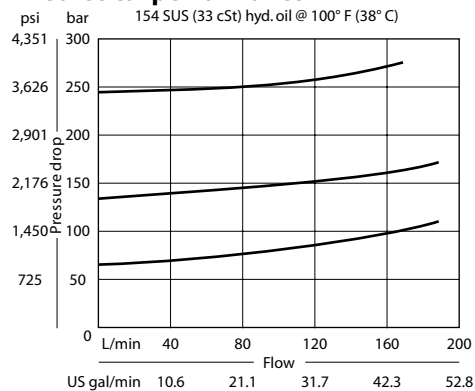
This is a single cross-port relief (A to B)
HIC with shuttle that mounts to OMS
motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

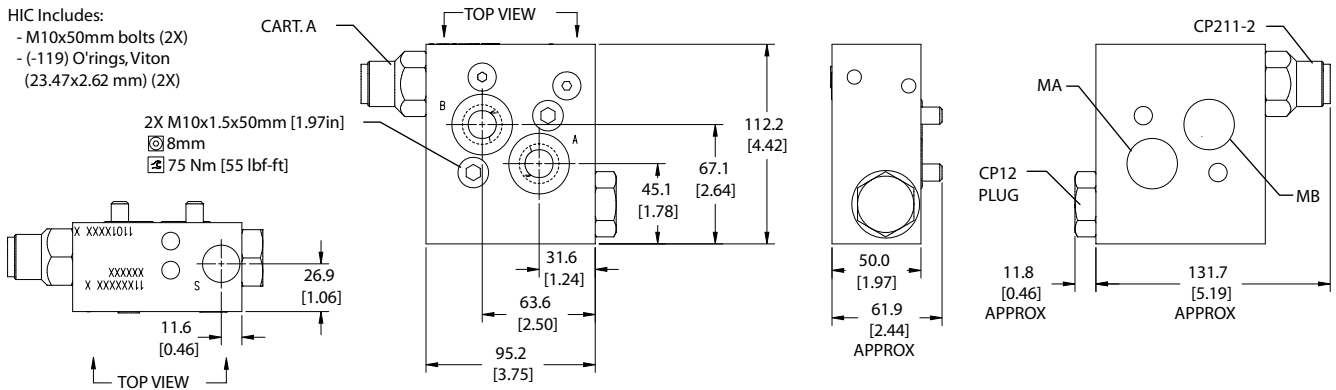
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMS-LS-ACP211-2-B-10S-E-C-254

Motor mount		Crack pressure	
Motor code		Code x 10 = psi	
Secondary valve		Example: 050 = 500 psi	
LS = Load sense shuttle valve (Brake valve)		Pressure range	
Single relief valve on 'A' port		See CP211-2 for std. settings	
Seals	Cartridge seal kit	A = 14-69 bar [200-800 psi]	
B = Buna-N	120017	B = 21-103 bar [300-1500 psi]	
V = Viton	120018	C = 28-207 bar [400-3000 psi]	
Housing and ports	Part #	D = 28-345 bar [400-5000 psi]	
10S = Al, #10SAE	11026351	Adjust type	
4B = Al, 1/2 BSP	11026352	A = Internal	E = External
		F = Tamper resistant	K = Knob



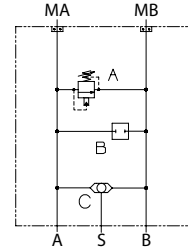
Motor Mount HIC Technical Information

MM-OMT-LS-ACP211-2

OPERATION

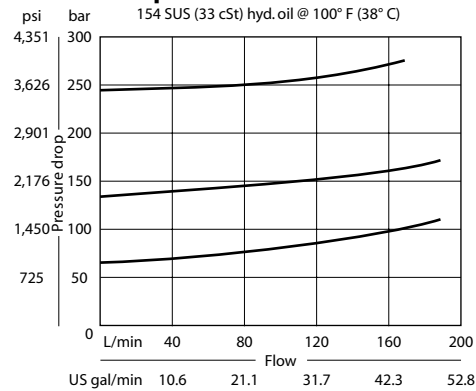
This is a single cross-port relief (A to B)
HIC with shuttle that mounts to OMT
motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



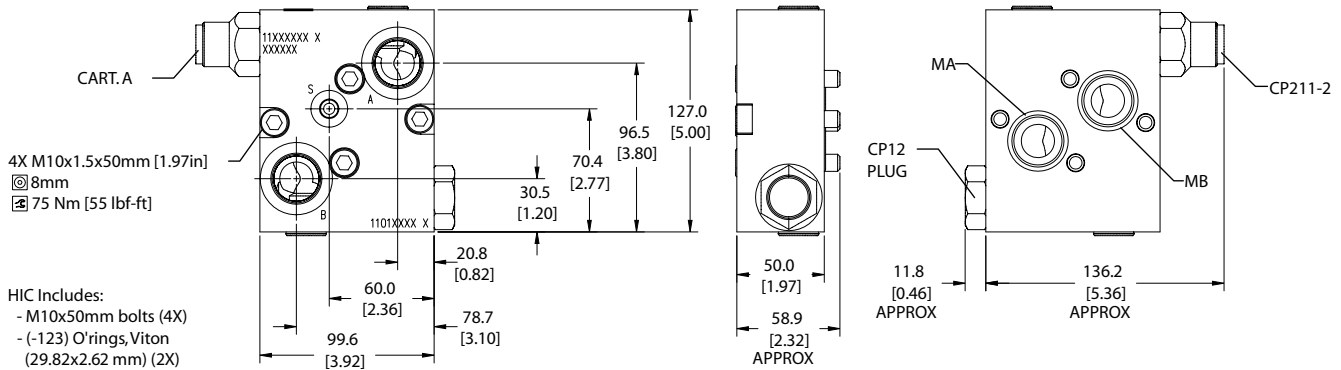
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.84 kg [4.06 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-LS-ACP211-2-B-12S-E-C-254

Motor mount	Motor code	Secondary valve	LS = Load sense shuttle valve (Brake valve)	Single relief valve on 'A' port	Seals	Cartridge seal kit	Crack pressure	Code x 10 = psi	Example: 050 = 500 psi
B = Buna-N	120017	V = Viton	120018				Pressure range	See CP211-2 for std. settings	
Housing and ports	12S = AI, #12 SAE	6B = AI, 3/4 BSP	Part #				Adjust type	A = Internal	E = External
								F = Tamper resistant	K = Knob



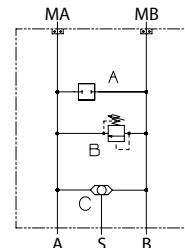
Motor Mount HIC Technical Information

MM-DH-LS-BVME06

OPERATION

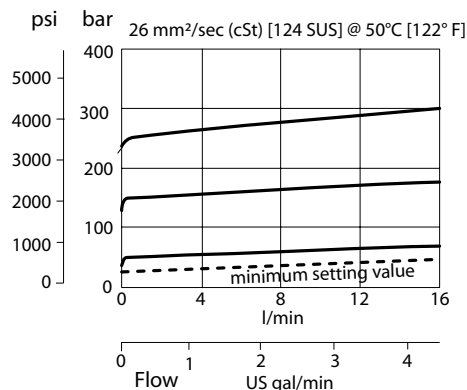
This is a single cross-port relief (B to A) HIC with shuttle that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



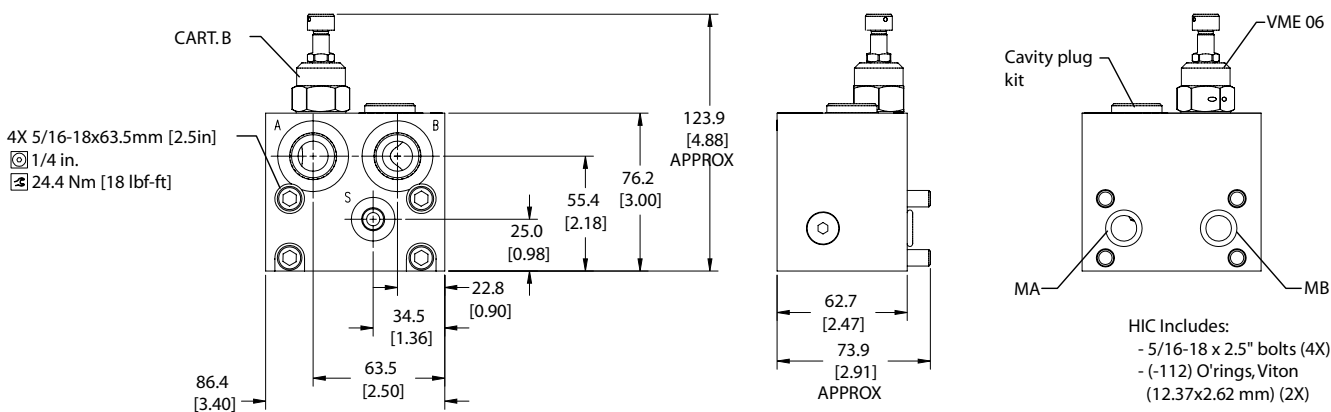
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DH-LS-BVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar)	Part #
Motor code	Example: 100 = 100 bar [1450 psi]	11019317
Secondary valve	Seals	11019318
LS = Load sense shuttle valve (Brake valve)	B = Buna-N	
Single relief valve on 'B' port	V = Viton	
Adjust type	Housing and ports	
EN = External screw	10S = Al, #10SAE	
	4B = Al, 1/2 BSP	
	Setting range	
	1 = 25-70 bar [363-1015 psi]	
	2 = 35-170 bar [508-2466 psi]	
	3 = 70-315 bar [1015-4569 psi]	



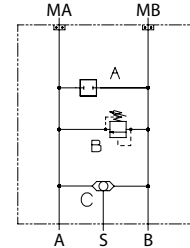
Motor Mount HIC Technical Information

MM-DS-LS-BVME06

OPERATION

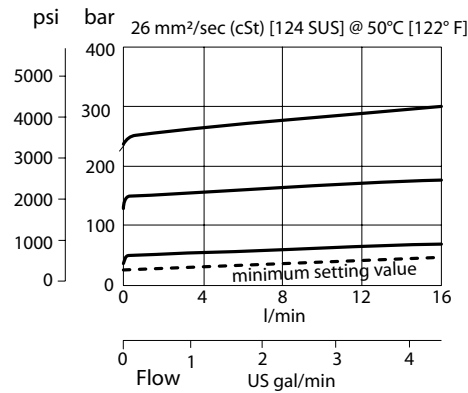
This is a single cross-port relief (B to A) HIC with shuttle that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor.

Schematic



SPECIFICATIONS

Theoretical performance



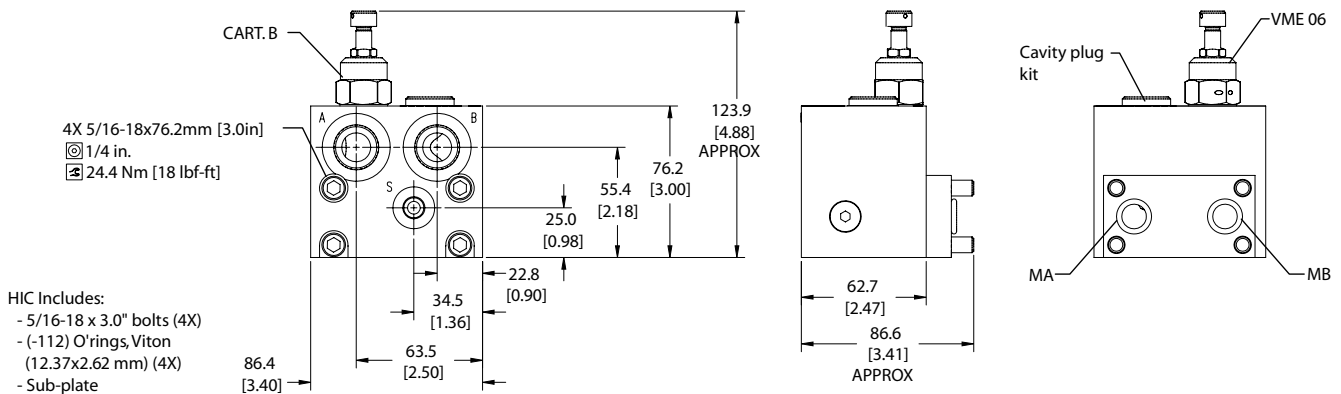
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-DS-LS-BVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar)	Example: 100 = 100 bar [1450 psi]
Motor code	Seals	B = Buna-N V = Viton
Secondary valve	Housing and ports	10S = Al, #10SAE 4B = Al, 1/2 BSP
LS = Load sense shuttle valve (Brake valve)	Part #	11019317 11019318
Single relief valve on 'B' port	Setting range	1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]
Adjust type		
EN = External screw		



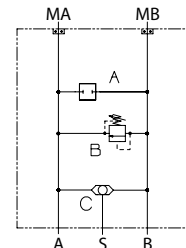
Motor Mount HIC Technical Information

MM-OMP/OMR-LS-BVME06

OPERATION

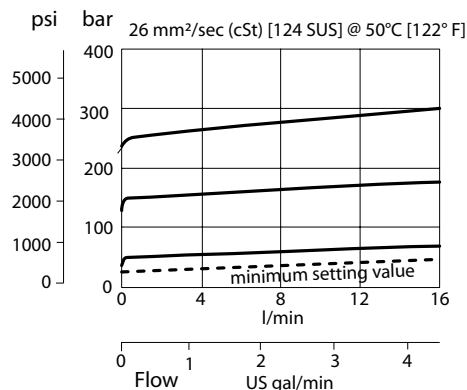
This is a single cross-port relief (B to A) HIC with shuttle that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors.

Schematic



SPECIFICATIONS

Theoretical performance



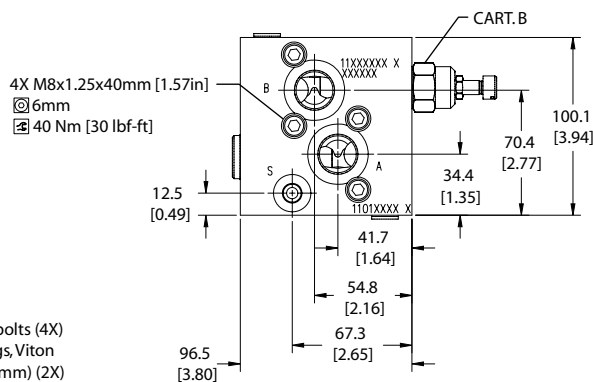
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023868
Motor	OMPX/OMRX

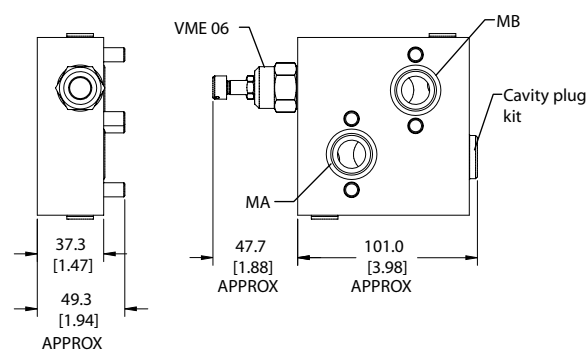
DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M8x40mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)



ORDERING INFORMATION

MM-OMP/OMR-LS-BVME06-EN-2-10S-B-100

Motor mount	Cracking pressure (bar) Example: 100 = 100 bar [1450 psi]
Motor code	Seals B = Buna-N V = Viton
Secondary valve LS = Load sense shuttle valve (brake valve)	Housing and ports
Single relief valve on 'B' port	10S = Al, #10SAE
Adjust type EN = External screw	4B = Al, 1/2 BSP
	Setting range 1 = 25-70 bar [363-1015 psi] 2 = 35-170 bar [508-2466 psi] 3 = 70-315 bar [1015-4569 psi]
	Part # 11026349 11026350



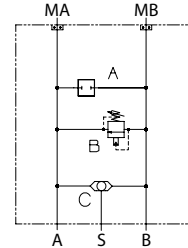
Motor Mount HIC Technical Information

MM-OMH-LS-BCP211-2

OPERATION

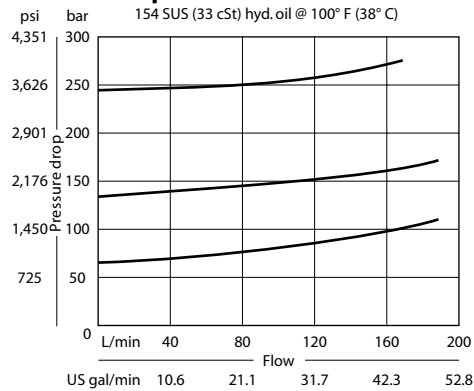
This is a single cross-port relief (B to A)
HIC with shuttle that mounts to OMH
motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



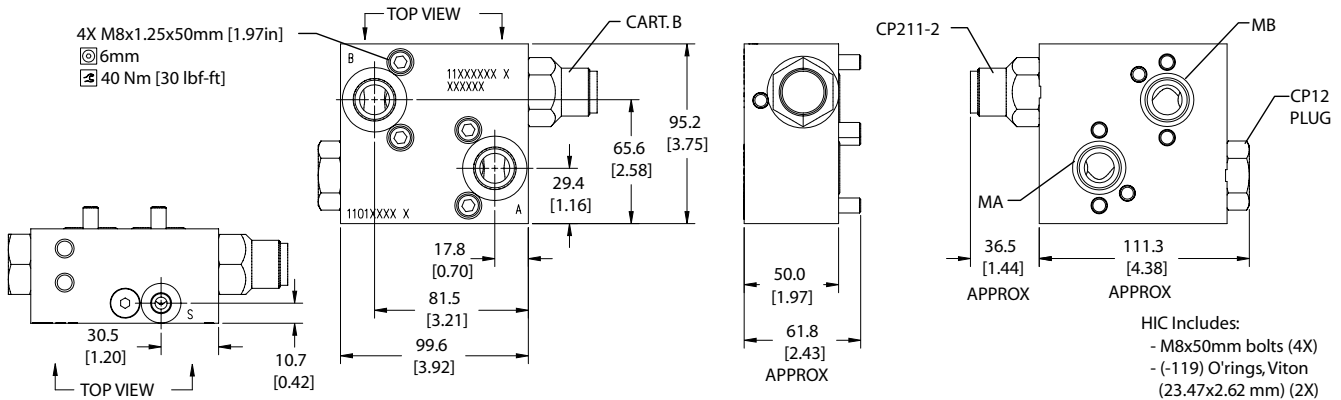
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.41 kg [3.11 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-LS-BCP211-2-B-10S-E-C-254

Motor mount		Crack pressure	
Motor code		Code x 10 = psi	
Secondary valve		Example: 050 = 500 psi	
LS = Load sense shuttle valve (Brake valve)		Pressure range	
Single relief valve on 'B' port		See CP211-2 for std. settings	
Seals	Cartridge seal kit	A = 14-69 bar [200-800 psi]	
B = Buna-N	120017	B = 21-103 bar [300-1500 psi]	
V = Viton	120018	C = 28-207 bar [400-3000 psi]	
Housing and ports	Part #	D = 28-345 bar [400-5000 psi]	
10S = AI, #10SAE	11026347	Adjust type	
4B = AI, 1/2 BSP	11026348	A = Internal	E = External
		F = Tamper resistant	K = Knob



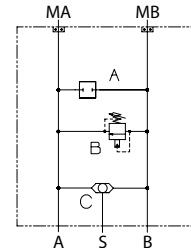
Motor Mount HIC Technical Information

MM-OMS-LS-BCP211-2

OPERATION

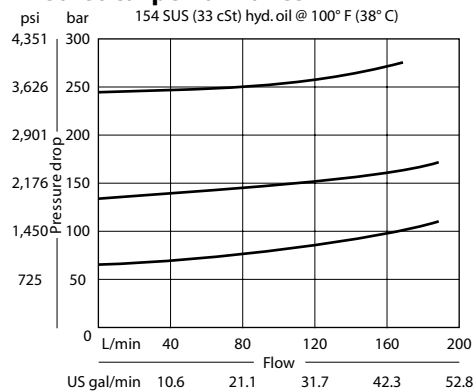
This is a single cross-port relief (B to A)
HIC with shuttle that mounts to OMS
motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023866
Motor	OMS

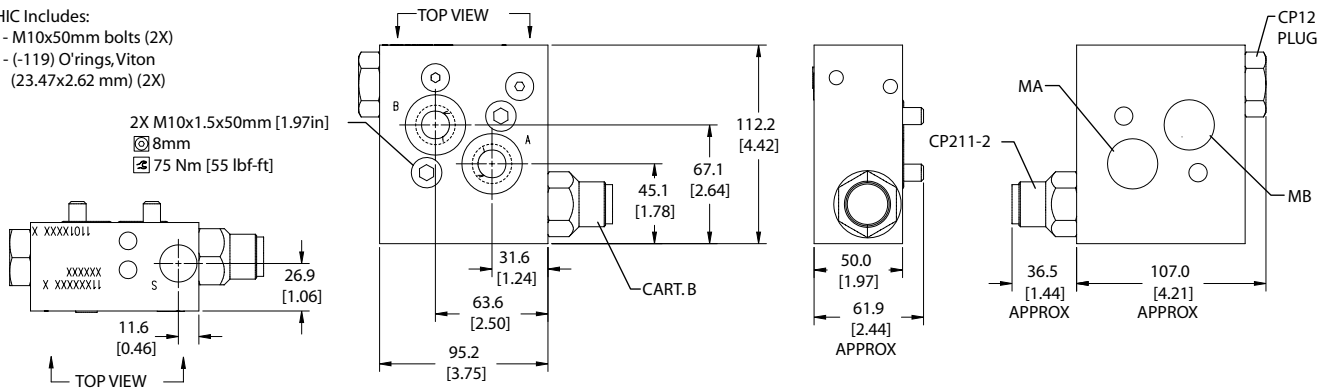
DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

2X M10x1.5x50mm [1.97in]
⊗ 8mm
⊗ 75 Nm [55 lbf-ft]



ORDERING INFORMATION

MM-OMS-LS-BCP211-2-B-10S-E-C-254

Motor mount		Crack pressure	
Motor code		Code x 10 = psi	
Secondary valve		Example: 050 = 500 psi	
LS = Load sense shuttle valve (Brake valve)		Pressure range	
Single relief valve on 'B' port		See CP211-2 for std. settings	
Seals	Cartridge seal kit	A = 14-69 bar [200-800 psi]	
B = Buna-N 120017		B = 21-103 bar [300-1500 psi]	
V = Viton 120018		C = 28-207 bar [400-3000 psi]	
Housing and ports	Part #	D = 28-345 bar [400-5000 psi]	
10S = Al, #10SAE	11026351	Adjust type	
4B = Al, 1/2 BSP	11026352	A = Internal	E = External
		F = Tamper resistant	K = Knob



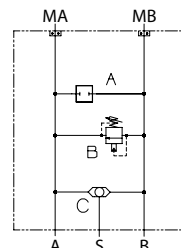
Motor Mount HIC Technical Information

MM-OMT-LS-BCP211-2

OPERATION

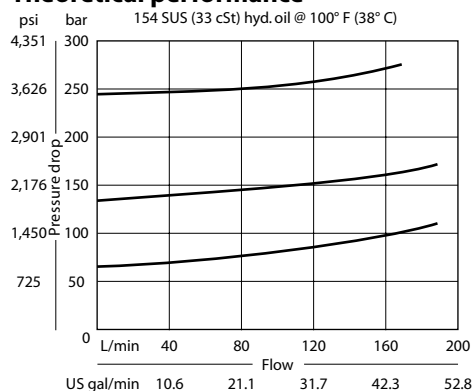
This is a single cross-port relief (B to A)
HIC with shuttle that mounts to OMT
motors with BSP porting.

Schematic



SPECIFICATIONS

Theoretical performance



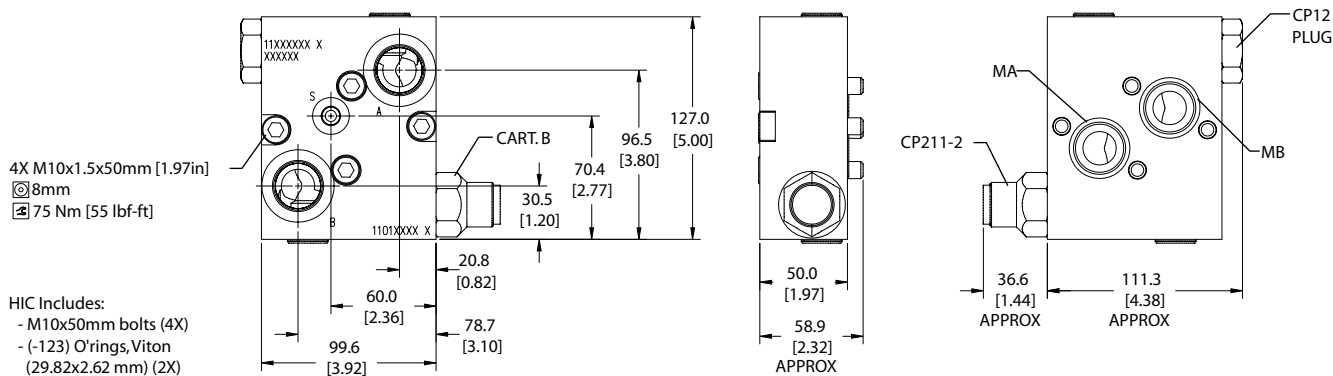
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ 207 bar [3000 psi]
Weight	1.84 kg [4.06 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

Motor mount	MM-OMT-LS-BCP211-2-B-12S-E-C-254	Crack pressure	Code x 10 = psi
Motor code		Example: 050 = 500 psi	
Secondary valve		Pressure range	See CP211-2 for std. settings
LS = Load sense shuttle valve (Brake valve)		A = 14-69 bar [200-800 psi]	
Single relief valve on 'B' port		B = 21-103 bar [300-1500 psi]	
Seals		C = 28-207 bar [400-3000 psi]	
B = Buna-N	120017	D = 28-345 bar [400-5000 psi]	
V = Viton	120018	Adjust type	A = Internal E = External
Housing and ports		F = Tamper resistant	K = Knob
12S = Al, #12 SAE	Part # 11026353		
6B = Al, 3/4 BSP	11026354		



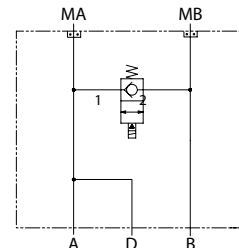
Motor Mount HIC Technical Information

MM-DH-00-BSVP10-NCR

OPERATION

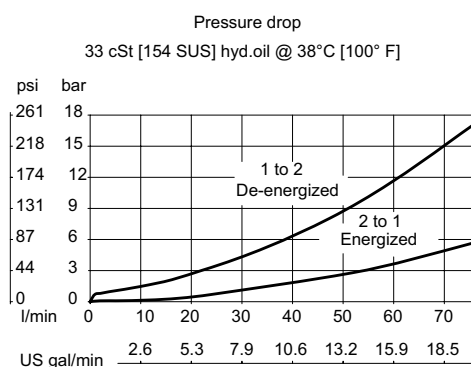
This is a bypass solenoid HIC with drain that mounts to OMPX motors with manifold mount porting (SA-C1). When energized, the valve connects ports A and B. Drain connects to port A. The OMPX motor replaces the legacy DH motor.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ rated pressure
Weight	1.36 kg [3.00 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023864
Motor	OMPX

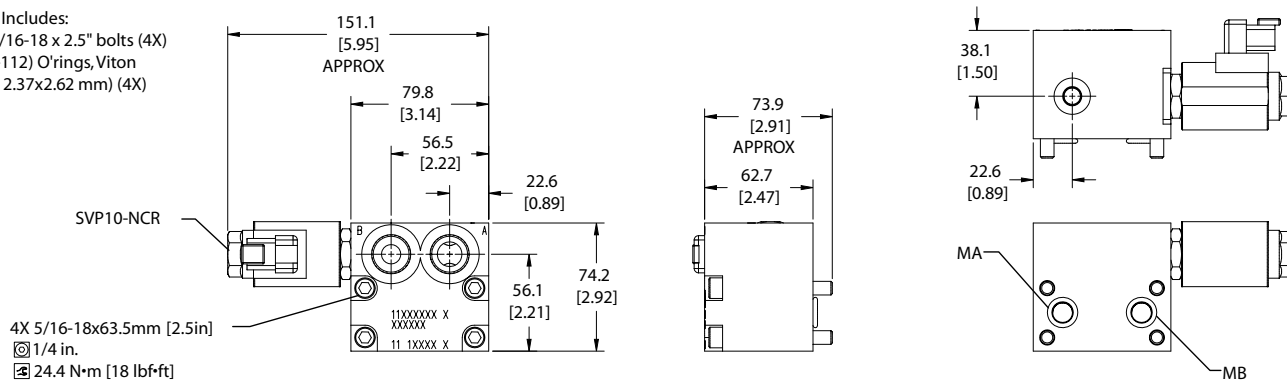
DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:

- 5/16-18 x 2.5" bolts (4X)
- (-112) O-rings, Viton (12.37x2.62 mm) (4X)



ORDERING INFORMATION

MM-DH-00-BSVP10-NCR-12D-DE-B-N-10S

Motor mount	Housing and ports	Part #
Motor code	10S = Al, #10SAE	11026356
Secondary valve	4B = Al, 1/2 BSP	11026357
00 = No valve	Filter 300 µM	
Solenoid valve	N = No filter (standard)	
Coil voltage	F = with filter	
00 = No coil	Seals	
12D = 12 VDC (Standard Coil)	B = Buna-N	
24D = 24 VDC (Standard Coil)	V = Viton	
R12D = 12 VDC (R-Coil)		
R24D = 24 VDC (R-Coil)		
Coil termination		
00 = No connector	AJ = Amp Junior*	
FL = Flying Lead	SP = Spade*	
DN = Din 43650*	AS = Amp SuperSeal 1.5 and	
DE = Deutsch	Metri-Pack 150 Series Type 1	
	M3 = Metri-Pack 150 Series Type 2	

* These terminations not available on robust coil (R12D, R24D)



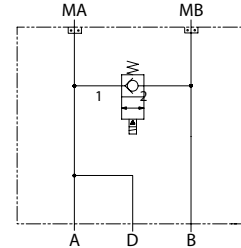
Motor Mount HIC Technical Information

MM-DS-00-BSVP10-NCR

OPERATION

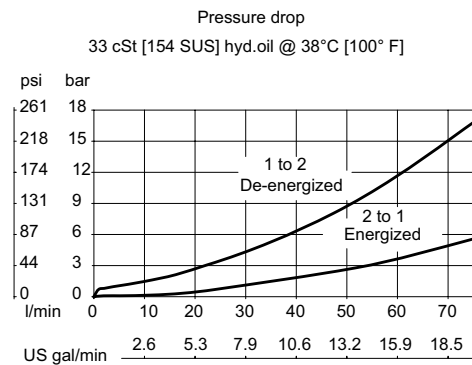
This is a bypass solenoid HIC with drain that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor. When energized, the valve connects ports A and B. Drain connects to port A.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ rated pressure
Weight	1.47 kg [3.24 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023865
Motor	OMRX

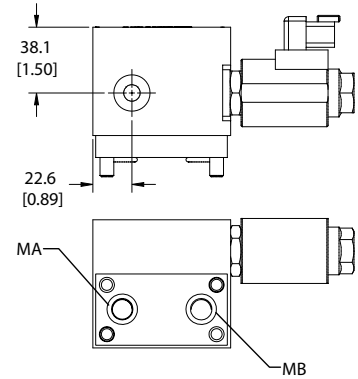
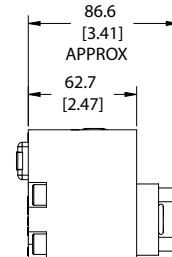
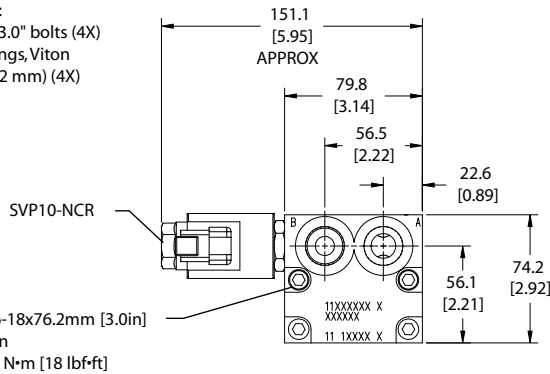
DIMENSIONS

Cross-sectional view

mm [in]

HIC Includes:

- 5/16-18 x 3.0" bolts (4X)
- (-112) O'rings, Viton (12.37x2.62 mm) (4X)



ORDERING INFORMATION

MM-DS-00-BSVP10-NCR-12D-DE-B-N-10S

Motor mount	Housing and ports	Part #
Motor code	10S = AI, #10SAE	11026356
Secondary valve	4B = AI, 1/2 BSP	11026357
00 = No valve	Filter 300 µm	
Solenoid valve	N = No filter (standard)	
	F = with filter	
Coil voltage	Seals	
00 = No coil	B = Buna-N	
12D = 12 VDC (Standard Coil)	V = Viton	
24D = 24 VDC (Standard Coil)		
R12D = 12 VDC (R-Coil)		
R24D = 24 VDC (R-Coil)		
Coil termination		
00 = No connector	AJ = Amp Junior*	
FL = Flying Lead	SP = Spade*	
DN = Din 43650*	AS = Amp SuperSeal 1.5 and	
DE = Deutsch	Metri-Pack 150 Series Type 1	
	M3 = Metri-Pack 150 Series Type 2	

* These terminations not available on robust coil (R12D, R24D)



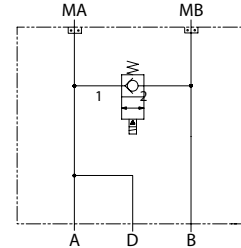
Motor Mount HIC Technical Information

MM-OMH-00-BSVP10-NCR

OPERATION

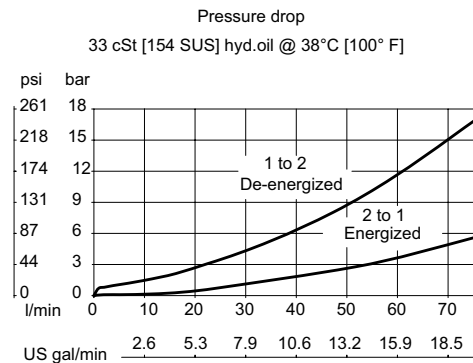
This is a bypass solenoid HIC with drain that mounts to OMH motors with manifold mount porting. When energized, the valve connects ports A and B. Drain connects to port A.

Schematic



SPECIFICATIONS

Theoretical performance



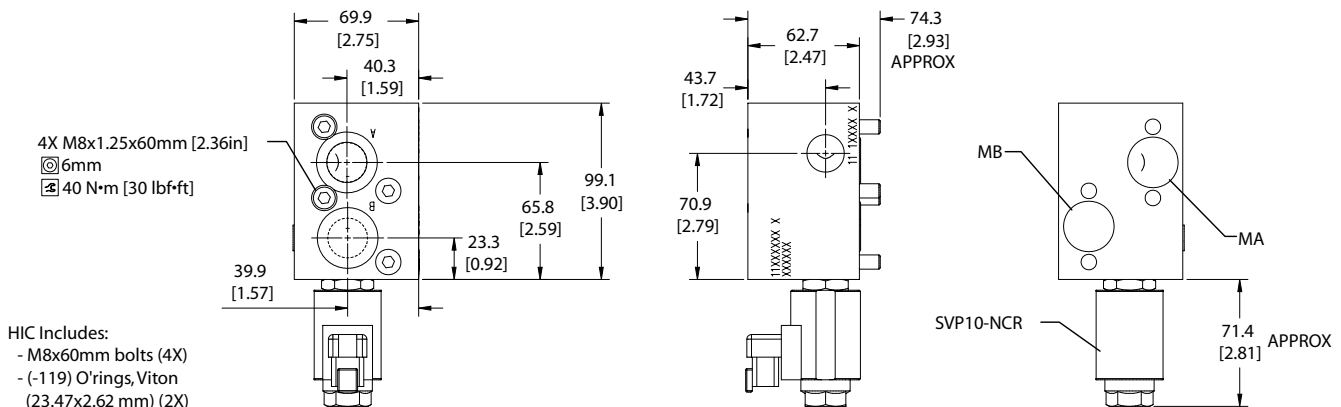
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ rated pressure
Weight	1.51 kg [3.33 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMH-00-BSVP10-NCR-12D-DE-B-N-10S

Motor mount	Motor code	Secondary valve	Solenoid valve	Coil voltage	Coil termination	AJ = Amp Junior*	SP = Spade*	AS = Amp SuperSeal 1.5 and Metri-Pack 150 Series Type 1	M3 = Metri-Pack 150 Series Type 2	Housing and ports	10S = Al, #10SAE 4B = Al, 1/2 BSP	Filter 300 µM N = No filter (standard) F = with filter	Seals B = Buna-N V = Viton	Part # 11026358 11026359
00 = No valve	00 = No coil	12D = 12 VDC (Standard Coil) 24D = 24 VDC (Standard Coil) R12D = 12 VDC (R-Coil) R24D = 24 VDC (R-Coil)	00 = No connector FL = Flying Lead DN = Din 43650* DE = Deutsch											

* These terminations not available on robust coil (R12D, R24D)



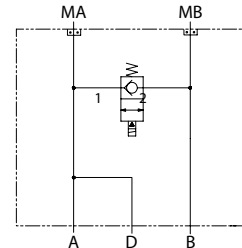
Motor Mount HIC Technical Information

MM-OMS-00-BSVP10-NCR

OPERATION

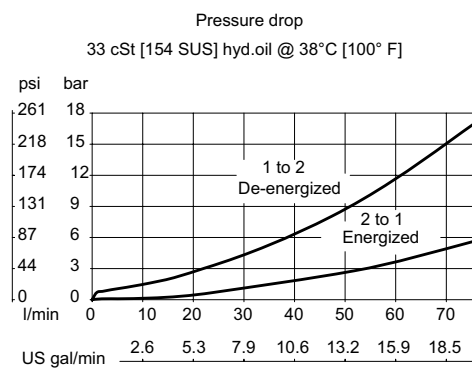
This is a bypass solenoid HIC with drain that mounts to OMS motors with manifold mount porting. When energized, the valve connects ports A and B. Drain connects to port A.

Schematic



SPECIFICATIONS

Theoretical performance



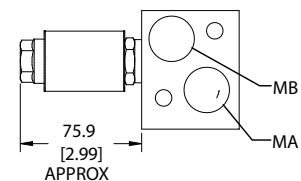
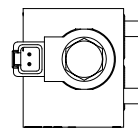
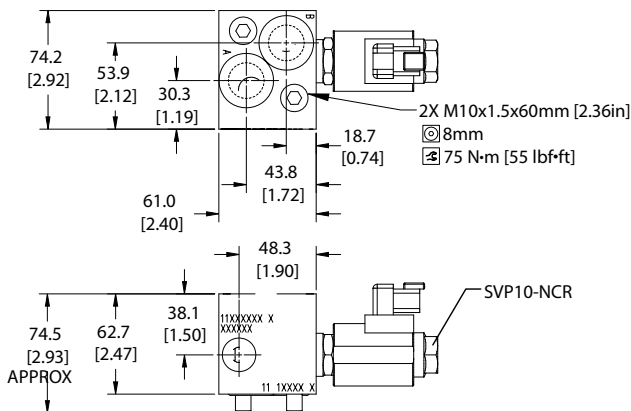
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ rated pressure
Weight	1.03 kg [2.27 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023867
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M10x60mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMS-00-BSVP10-NCR-12D-DE-B-N-10S

Motor mount	Motor code	Secondary valve 00 = No valve	Solenoid valve	Coil voltage 00 = No coil 12D = 12 VDC (Standard Coil) 24D = 24 VDC (Standard Coil) R12D = 12 VDC (R-Coil) R24D = 24 VDC (R-Coil)	Coil termination 00 = No connector FL = Flying Lead DN = Din 43650* DE = Deutsch	AJ = Amp Junior* SP = Spade* AS = Amp SuperSeal 1.5 and Metri-Pack 150 Series Type 1 M3 = Metri-Pack 150 Series Type 2	Housing and ports 10S = AI, #10SAE 4B = AI, 1/2 BSP	Filter 300 µm N = No filter (standard) F = with filter	Seals B = Buna-N V = Viton	Part # 11019331 11019332
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* These terminations not available on robust coil (R12D, R24D)



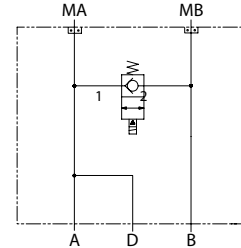
Motor Mount HIC Technical Information

MM-OMT-00-BCP502-3

OPERATION

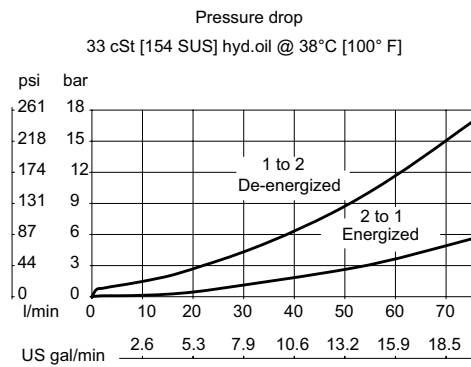
This is a bypass solenoid HIC with drain that mounts to OMT motors with manifold mount porting. When energized, the valve connects ports A and B. Drain connects to port A.

Schematic



SPECIFICATIONS

Theoretical performance



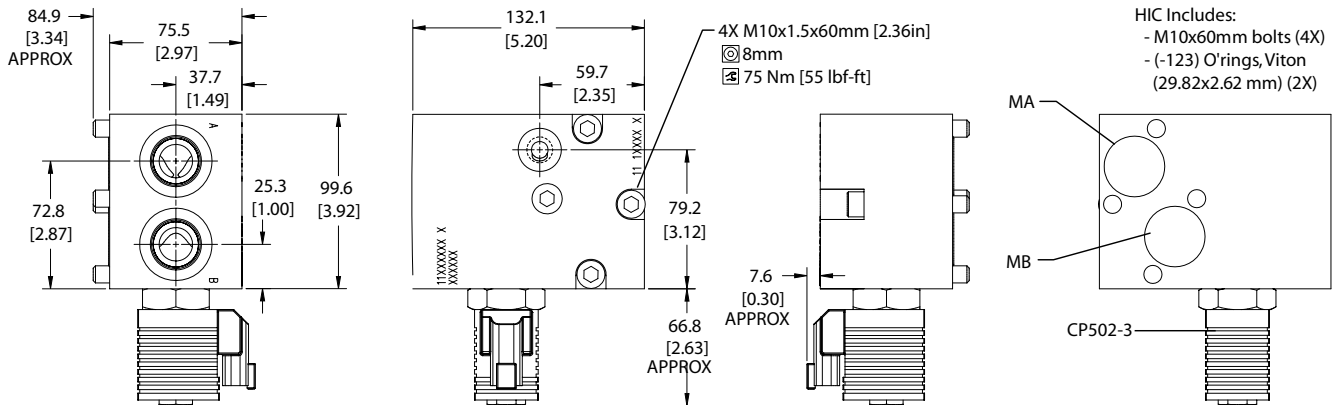
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ rated pressure
Weight	2.18 kg [4.81 lb]
Cartridge	CP502-3
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023871
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMT-00-BCP502-3-B-12S-12D-DE

Motor mount		Coil termination	0 = No connector	H = Din 43650
Motor code			S = Spade	DE = Deutsch
Secondary valve			L = Lead	M2 = Metri-Pack 150
00 = No valve				Type 1
Solenoid valve		Coil voltage	000 = No coil	
Seals			12D = 12 VDC	
B = Buna-N	120019		24D = 24 VDC	
V = Viton	120020	Housing and ports	12S = Al, #12 SAE	Part #
Cartridge seal kit			6B = Al, 3/4 BSP	11019333
				11019334



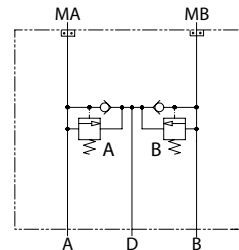
Motor Mount HIC Technical Information

MM-DH-00-DPVLP

OPERATION

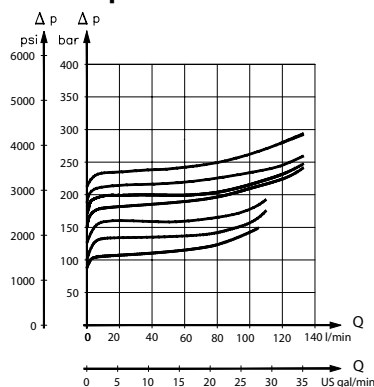
This is a dual shock valve with anticavitation checks that mounts to OMPX motors with manifold mount porting (SA-C1). The OMPX motor replaces the legacy DH motor. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

Schematic



SPECIFICATIONS

Theoretical performance



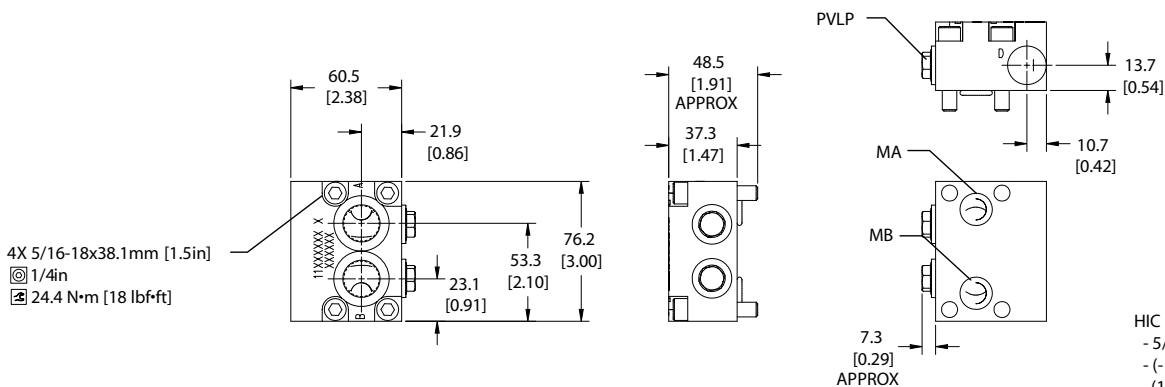
Specifications

Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	1.20 kg [2.65 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023862
Motor	OMPX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- 5/16-18 x 1.5" bolts (4X)
- (-112) O-rings, Viton (12.37x2.62 mm) (4X)

ORDERING INFORMATION

MM-DH-00-DPVLP-100-S8S

Motor mount	Housing and ports	Part #
Motor code	S8S = 11L17 or Ductile, #8 SAE	11019335
Secondary valve	S3B = 11L17 or Ductile, 3/8 BSP	11019336
00 = No valve		
Dual shock valve	Pressure setting (Bar)	
	100 = 100 bar [1450 psi]	
	125 = 125 bar [1813 psi]	
	150 = 150 bar [2175 psi]	
	175 = 175 bar [2538 psi]	
	190 = 190 bar [2755 psi]	
	210 = 210 bar [3045 psi]	
	230 = 230 bar [3335 psi]	

Motor Mount HIC Technical Information

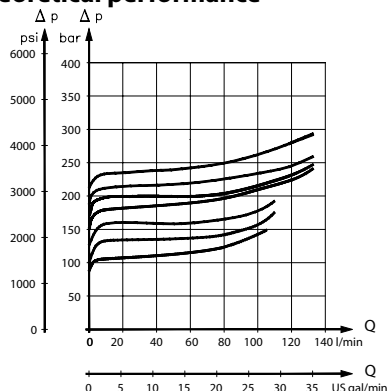
MM-DS-00-DPVLP

OPERATION

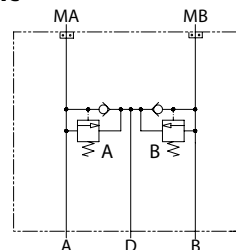
This is a dual shock valve with anticavitation checks that mounts to OMRX motors with manifold mount porting (SA-C1). The OMRX motor replaces the legacy DS motor. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

SPECIFICATIONS

Theoretical performance



Schematic



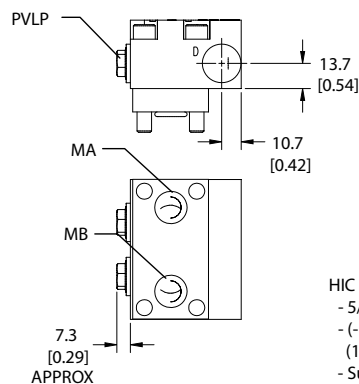
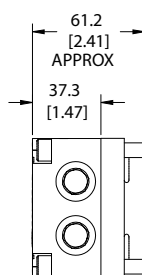
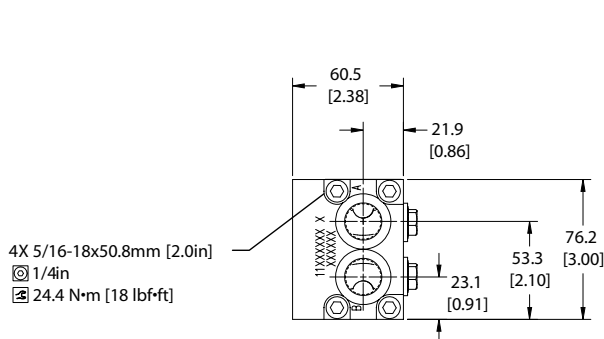
Specifications

Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	1.31 kg [2.89 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023863
Motor	OMRX

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:

- 5/16-18 x 2.0" bolts (4X)
- (-112) O'rings, Viton (12.37x2.62 mm) (4X)
- Sub-plate

ORDERING INFORMATION

MM-DS-00-DPVLP-100-S8S

Motor mount
Motor code -
Secondary val
00 = No valv
Dual shock va

- Housing and ports
 - S8S = 11L17 or Ductile, #8 SAE
 - S3B = 11L17 or Ductile, 3/8 BSP
- Pressure setting (Bar)
 - 100 = 100 bar [1450 psi]
 - 125 = 125 bar [1813 psi]
 - 150 = 150 bar [2175 psi]
 - 175 = 175 bar [2538 psi]
 - 190 = 190 bar [2755 psi]
 - 210 = 210 bar [3045 psi]
 - 230 = 230 bar [3335 psi]

Part #
11019335
11019336



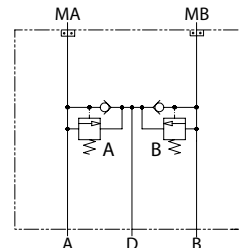
Motor Mount HIC Technical Information

MM-OMP/OMR-00-DPVLP

OPERATION

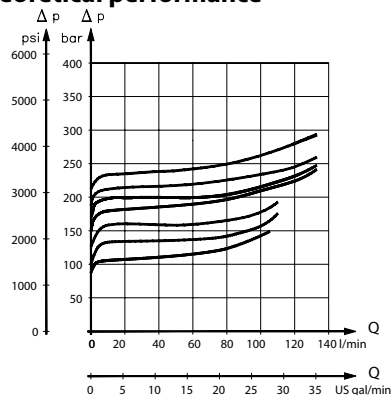
This is a dual shock valve with anticavitation checks that mounts to OMPX/OMRX motors with BSP porting (SO-A3). The OMPX and OMRX replace the legacy OMP and OMR motors. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

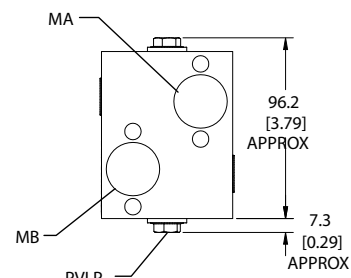
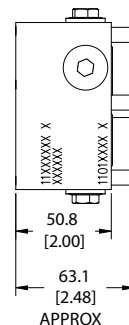
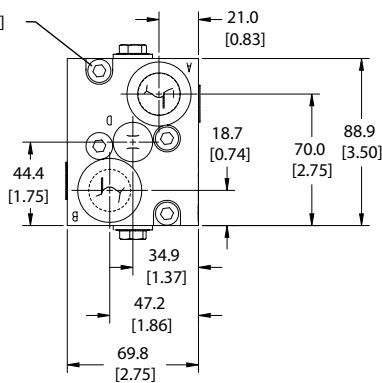
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	2.12 kg [4.67 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023162
Motor	OMPX/OMRX

DIMENSIONS

Cross-sectional view

mm [in]

4X M8x1.25x50mm [1.97in]
⌀6mm
⌀40 N·m [30 lbf·ft]



HIC Includes:
- M8x50mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMP/OMR-00-DPVLP-100-S4B

Motor mount	Housing and ports	Part #
Motor code	S10S = 11L17 or Ductile, #10SAE	11026360
Secondary valve	S4B = 11L17 or Ductile, 1/2 BSP	11026361
00 = No valve	Pressure setting (Bar)	
Dual shock valve	100 = 100 bar [1450 psi]	
	125 = 125 bar [1813 psi]	
	150 = 150 bar [2175 psi]	
	175 = 175 bar [2538 psi]	
	190 = 190 bar [2755 psi]	
	210 = 210 bar [3045 psi]	
	230 = 230 bar [3335 psi]	



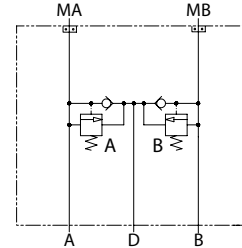
Motor Mount HIC Technical Information

MM-OMH-00-DPVLP

OPERATION

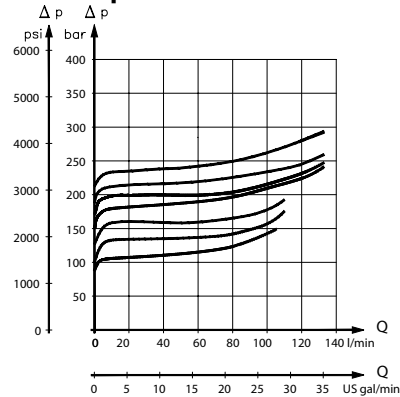
This is a dual shock valve with anticavitation checks that mounts to OMH motors with BSP porting. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

Schematic



SPECIFICATIONS

Theoretical performance



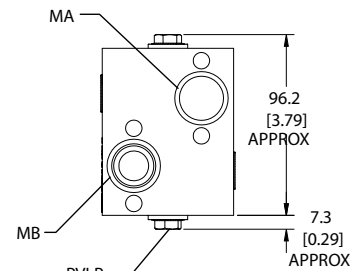
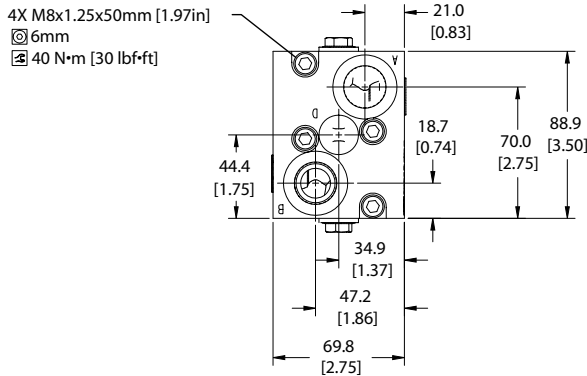
Specifications

Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	2.12 kg [4.67 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023162
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M8x50mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMH-00-DPVLP-175-S4B

Motor mount	Housing and ports
Motor code	S10S = 11L17 or Ductile, #10SAE
Secondary valve	S4B = 11L17 or Ductile, 1/2 BSP
00 = No valve	Pressure setting (Bar)
Dual shock valve	100 = 100 bar [1450 psi]
	125 = 125 bar [1813 psi]
	150 = 150 bar [2175 psi]
	175 = 175 bar [2538 psi]
	190 = 190 bar [2755 psi]
	210 = 210 bar [3045 psi]
	230 = 230 bar [3335 psi]

Part #
11026360
11026361



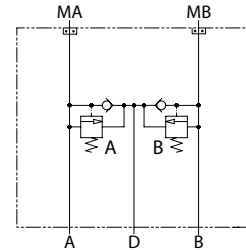
Motor Mount HIC Technical Information

MM-OMS-00-DPVLP

OPERATION

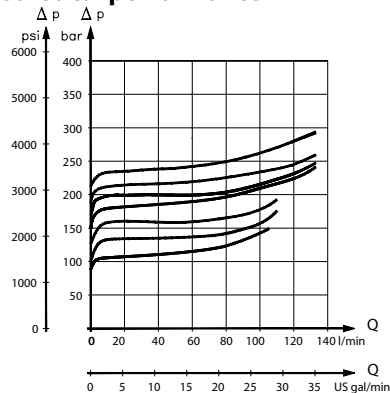
This is a dual shock valve with anticavitation checks that mounts to OMS motors with BSP porting. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

Schematic



SPECIFICATIONS

Theoretical performance



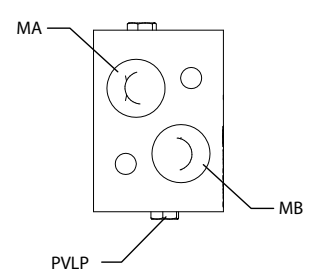
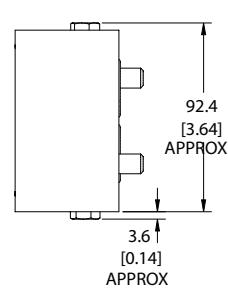
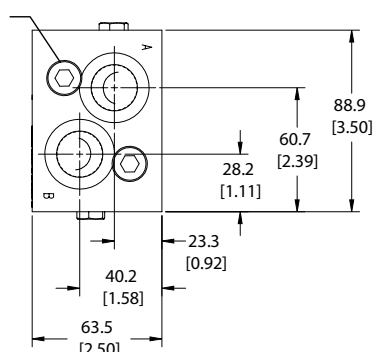
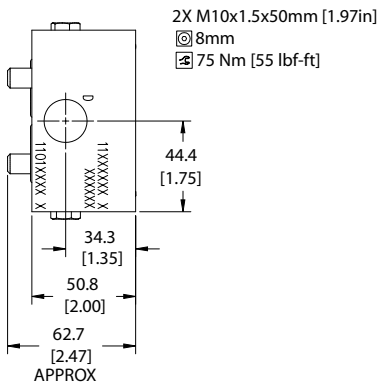
Specifications

Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	2.02 kg [4.45 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023866
Motor	OMS

DIMENSIONS

Cross-sectional view

mm [in]



HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMS-00-DPVLP-175-S10S

Motor mount	Housing and ports	Part #
Motor code	S10S = 11L17 or Ductile, #10SAE	11019339
Secondary valve	S4B = 11L17 or Ductile, 1/2 BSP	11019340
00 = No valve		
Dual shock valve	Pressure setting (Bar)	
	100 = 100 bar [1450 psi]	
	125 = 125 bar [1813 psi]	
	150 = 150 bar [2175 psi]	
	175 = 175 bar [2538 psi]	
	190 = 190 bar [2755 psi]	
	210 = 210 bar [3045 psi]	
	230 = 230 bar [3335 psi]	



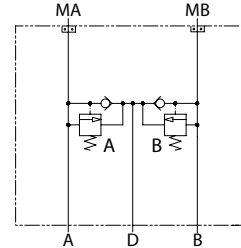
Motor Mount HIC Technical Information

MM-OMT-00-DPVLP

OPERATION

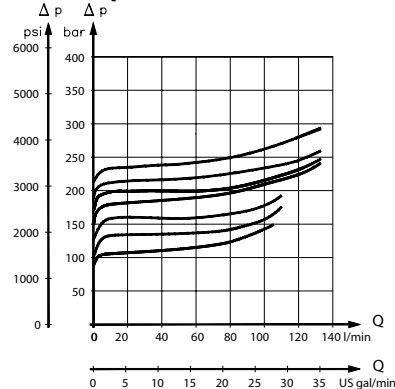
This is a dual shock valve with anticavitation checks that mounts to OMT motors with BSP porting. The PVLP shock valve absorbs short-duration pressure spikes. Do not use it as a full-flow pressure relief valve. For anticavitation protection, connect drain port to reservoir with adequate piping.

Schematic



SPECIFICATIONS

Theoretical performance



Specifications

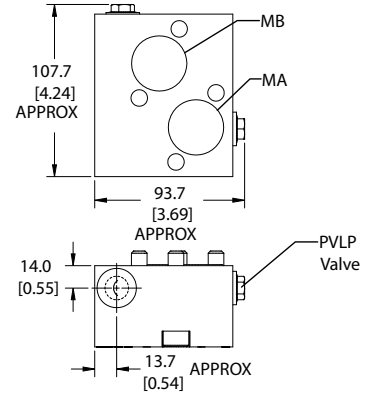
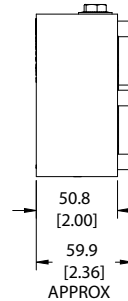
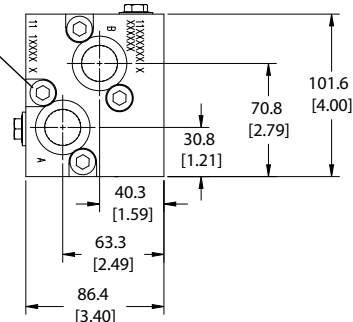
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ 207 bar [3000 psi]
Weight	2.94 kg [6.48 lb]
Shuttle/drain port	#6 SAE (1/4 BSP)
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

mm [in]

4X M10x1.5x50mm [1.97in]
⌀8mm
75 N•m [55 lbf•ft]



HIC Includes:
- M10x50mm bolts (4X)
- (-123) O'rings, Viton
(29.82x2.62 mm) (2X)

ORDERING INFORMATION

MM-OMT-00-DPVLP-175-S10S

Motor mount	Housing and ports	Part #
Motor code	S10S = 11L17 or Ductile, #10SAE	11026364
Secondary valve	S4B = 11L17 or Ductile, 1/2 BSP	11026365
00 = No valve	Pressure setting (Bar)	
Dual shock valve	100 = 100 bar [1450 psi]	
	125 = 125 bar [1813 psi]	
	150 = 150 bar [2175 psi]	
	175 = 175 bar [2538 psi]	
	190 = 190 bar [2755 psi]	
	210 = 210 bar [3045 psi]	
	230 = 230 bar [3335 psi]	