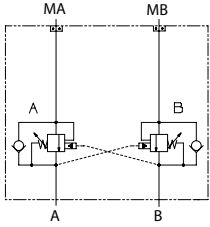
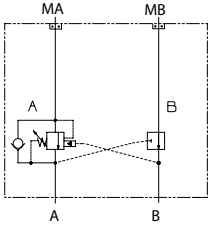
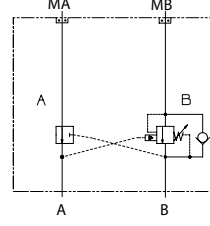
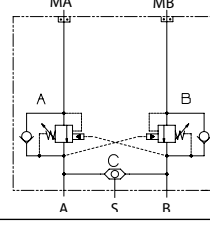
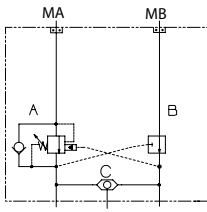


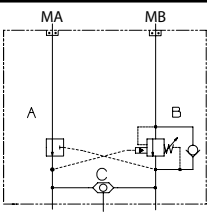
Symbol	Description	Motor	Model No.	Page
	Dual counterbalance valve	DH	MM-DH-00-DCB10-HV	16.21
		DS	MM-DS-00-DCB10-HV	16.22
		OMP/OMR	MM-OMP/OMR-00-DCB10-HV	16.23
		OMH	MM-OMH-00-DCP441-1	16.24
		OMS	MM-OMS-00-DCP441-1	16.25
		OMT	MM-OMT-00-DCP441-1	16.26

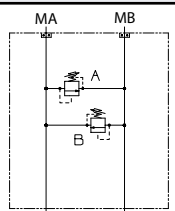
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (A port)	DH	MM-DH-00-ACB10-HV	16.27
		DS	MM-DS-00-ACB10-HV	16.28
		OMP/OMR	MM-OMP/OMR-00-ACB10-HV	16.29
		OMH	MM-OMH-00-ACP441-1	16.30
		OMS	MM-OMS-00-ACP441-1	16.31
		OMT	MM-OMT-00-ACP441-1	16.32

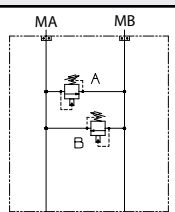
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (B port)	DH	MM-DH-00-BCB10-HV	16.33
		DS	MM-DS-00-BCB10-HV	16.34
		OMP/OMR	MM-OMP/OMR-00-BCB10-HV	16.35
		OMH	MM-OMH-00-BCP441-1	16.36
		OMS	MM-OMS-00-BCP441-1	16.37
		OMT	MM-OMT-00-BCP441-1	16.38

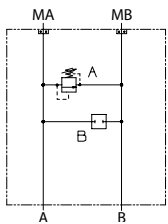
Symbol	Description	Motor	Model No.	Page
	Dual counterbalance valve with shuttle	DH	MM-DH-LS-DCB10-HV	16.39
		DS	MM-DS-LS-DCB10-HV	16.40
		OMP/OMR	MM-OMP/OMR-LS-DCB10-HV	16.41
		OMH	MM-OMH-LS-DCP441-1	16.42
		OMS	MM-OMS-LS-DCP441-1	16.43
		OMT	MM-OMT-LS-DCP441-1	16.44

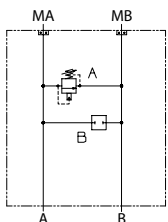
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (A port) with shuttle	DH	MM-DH-LS-ACB10-HV	16.45
		DS	MM-DS-LS-ACB10-HV	16.46
		OMP/OMR	MM-OMP/OMR-LS-ACB10-HV	16.47
		OMH	MM-OMH-LS-ACP441-1	16.48
		OMS	MM-OMS-LS-ACP441-1	16.49
		OMT	MM-OMT-LS-ACP441-1	16.50

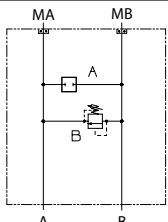
Symbol	Description	Motor	Model No.	Page
	Single counterbalance valve (B port) with shuttle	DH	MM-DH-LS-BCB10-HV	16.51
		DS	MM-DS-LS-BCB10-HV	16.52
		OMP/OMR	MM-OMP/OMR-LS-BCB10-HV	16.53
		OMH	MM-OMH-LS-BCP441-1	16.54
		OMS	MM-OMS-LS-BCP441-1	16.55
		OMT	MM-OMT-LS-BCP441-1	16.56

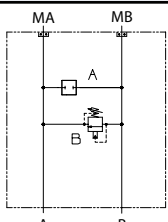
Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve	DH	MM-DH-00-DVME06	16.57
		DS	MM-DS-00-DVME06	16.58
		OMP/OMR	MM-OMP/OMR-00-DVME06	16.59

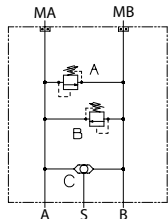
Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve	OMH	MM-OMH-00-DCP211-2	16.60
		OMS	MM-OMS-00-DCP211-2	16.61
		OMT	MM-OMT-00-DCP211-2	16.62

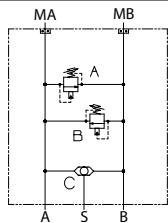
Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port)	DH	MM-DH-00-AVME06	16.63
		DS	MM-DS-00-AVME06	16.64
		OMP/OMR	MM-OMP/OMR-00-AVME06	16.65

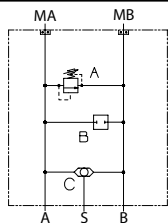
Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port)	OMH	MM-OMH-00-ACP211-2	16.66
		OMS	MM-OMS-00-ACP211-2	16.67
		OMT	MM-OMT-00-ACP211-2	16.68

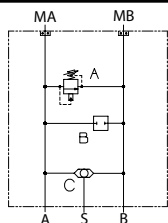
Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port)	DH	MM-DH-00-BVME06	16.69
		DS	MM-DS-00-BVME06	16.70
		OMP/OMR	MM-OMP/OMR-00-BVME06	16.71

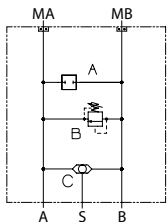
Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port)	OMH	MM-OMH-00-BCP211-2	16.72
		OMS	MM-OMS-00-BCP211-2	16.73
		OMT	MM-OMT-00-BCP211-2	16.74

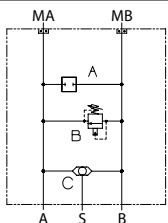
Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve with shuttle	DH	MM-DH-LS-DVME06	16.75
		DS	MM-DS-LS-DVME06	16.76
		OMP/OMR	MM-OMP/OMR-LS-DVME06	16.77

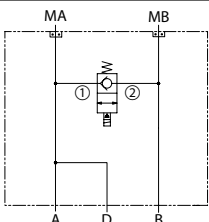
Symbol	Description	Motor	Model No.	Page
	Dual cross-port relief valve with shuttle	OMH	MM-OMH-LS-DCP211-2	16.78
		OMS	MM-OMS-LS-DCP211-2	16.79
		OMT	MM-OMT-LS-DCP211-2	16.80

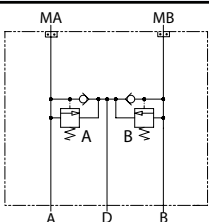
Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port) with shuttle	DH	MM-DH-LS-AVME06	16.81
		DS	MM-DS-LS-AVME06	16.82
		OMP/OMR	MM-OMP/OMR-LS-AVME06	16.83

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (A port) with shuttle	OMH	MM-OMH-LS-ACP211-2	16.84
		OMS	MM-OMS-LS-ACP211-2	16.85
		OMT	MM-OMT-LS-ACP211-2	16.86

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port) with shuttle	DH	MM-DH-LS-BVME06	16.87
		DS	MM-DS-LS-BVME06	16.88
		OMP/OMR	MM-OMP/OMR-LS-BVME06	16.89

Symbol	Description	Motor	Model No.	Page
	Single cross-port relief valve (B port) with shuttle	OMH	MM-OMH-LS-BCP211-2	16.90
		OMS	MM-OMS-LS-BCP211-2	16.91
		OMT	MM-OMT-LS-BCP211-2	16.92

Symbol	Description	Motor	Model No.	Page
	Bypass solenoid with drain	DH	MM-DH-00-SVP10-NCR	16.93
		DS	MM-DS-00-SVP10-NCR	16.94
		OMP/OMR	MM-OMP/OMR-00-SVP10-NCR	16.95
		OMH	MM-OMH-00-SVP10-NCR	16.96
		OMS	MM-OMS-00-SVP10-NCR	16.97
		OMS	MM-OMT-00-CP502-3	16.98

Symbol	Description	Motor	Model No.	Page
	Dual shock valve with anticavitation	DH	MM-DH-00-DPVLP	16.99
		DS	MM-DS-00-DPVLP	16.100
		DS	MM-OMP/OMR-00-DPVLP	16.101
		OMH	MM-OMH-00-DPVLP	16.102
		OMS	MM-OMS-00-DPVLP	16.103
		OMT	MM-OMT-00-DPVLP	16.104



Cartridge Valves Technical Information

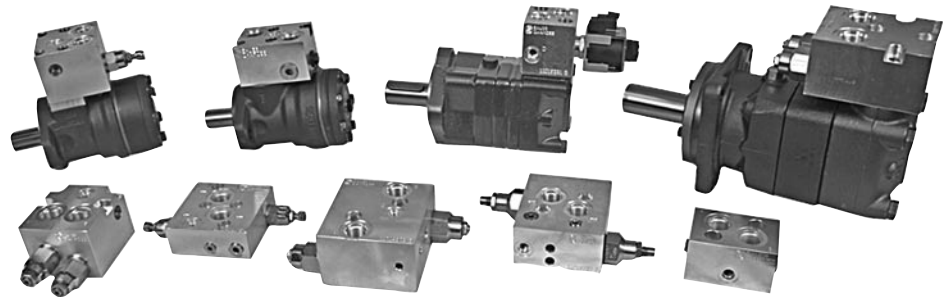
Motor mount HICs

Application notes

OVERVIEW

This family of motor mount HICs (Hydraulic Integrated Circuits) complements Sauer-Danfoss 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



F102 240

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 Sauer-Danfoss motor mount HICs:

- Pre-packaged designs, specifically for SD 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



Cartridge Valves Technical Information

Motor mount HICs

Application notes

ORBITAL MOTORS

There are seven specific Sauer-Danfoss 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.

Sauer-Danfoss orbital motors compatible with HICs

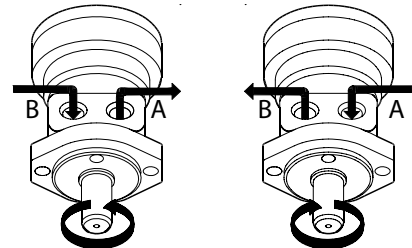
Motor type	Units	Displacement range	Max pressure drop* [continuous]	Max pressure drop* [intermittent]	Max flow* [continuous]	Max flow* [intermittent]	Port style for HIC mount	Technical Information
DH	US	2.20 - 23.82 in ³	1800 psi	2400 psi	15.9 US gal/min	19.8 US gal/min	Manifold	520L0439 [DH and DS Orbital Motors]
	Metric	25.0 - 389.2 cm ³	124 bar	166 bar	60 l/min	75 l/min		
DS	US	3.16 - 23.91 in ³	2000 psi	2500 psi	15.9 US gal/min	19.8 US gal/min		
	Metric	51.6 - 390.7 cm ³	138 bar	172 bar	60	75 l/min		
OMP	US	1.53 - 23.82 in ³	2030	2540	15.9 US gal/min	19.8 US gal/min	G 1/2 (BSP)	520L0262 [OMP, OMR, OMH and OMEW Orbital Motors]
	Metric	36.0 - 389.2 cm ³	140 bar	175 bar	60 l/min.	75 l/min		
OMR	US	3.16 - 22.8 in ³	2540 psi	2900 psi	15.9 US gal/min	19.8 US gal/min		
	Metric	51.6 - 372.6 cm ³	175 bar	200 bar	60 l/min.	75 l/min		
OMH	US	12.32 - 28.80 in ³	2540 psi	2900 psi	19.8 US gal/min	23.8 US gal/min		
	Metric	201.3 - 470.6 cm ³	175 bar	200 bar	75 l/min.	90 l/min.		
OMS	US	4.91 - 29.78 in ³	3050 psi	3990 psi	19.8 US gal/min	23.8 US gal/min	G 1/2 (BSP)	520L0407 [OMS, OMT and OMV Orbital Motors]
	Metric	80.5 - 488.0 cm ³	210 bar	275 bar	75 l/min.	90 l/min.		
OMT	US	9.83 - 31.95 in ³	2900 psi	3480 psi	33.0 US gal/min	39.6 US gal/min	G 3/4 (BSP)	
	Metric	161.1 - 523.6 cm ³	200 bar	240 bar	125 l/min.	150 l/min.		

* Pressures and flows are displacement and shaft size dependent. Refer to motor catalog for more specific motor technical details.

Motor rotation

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

Motor rotation



151-1874.10

Order code

The order code is easy to understand. Each code starts with MM for Motor Mount. The second field represents motor type (DH, DS, OMP/OMR, 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 PVLV). 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

MM-DH-00-DCB10-HV-1-C-1-E-100-B-10S		
Motor mount	Motor code	Housing and ports
Secondary valve	Pressure range	10S = Al, #10SAE
Dual counterbalance valve	For pilot ratio A (3:1)	4B = Al, 1/2 BSP
Type	1 = 35-110 bar [507-1595 psi]	Seals
HV=Hydraulic Vent	2 = 60-150 bar [870-2176 psi]	B = Buna-N
	3 = 80-230 bar [1160-3336 psi]	V = Viton
	For pilot ratio B (4.5:1)	Cracking pressure (bar)
	1 = 55-180 bar [797-2611 psi]	Example: 100 = 100 bar [1450 psi]
	2 = 75-240 bar [1088-3481 psi]	See CB10-HV for std. settings
	3 = 90-350 bar [1305-5076 psi]	Adjust type
	For pilot ratio C (10:1)	E = External adjustment
	1 = 110-350 bar [1595-5076 psi]	F = Tamper resistant
		Check crack pressure
		1 = 1 bar (14.5 psi)
		Part #
		11019287
		11019288
		Cartridge seal kit
		354001419
		354001519
		P104 595



Cartridge Valves Technical Information

Motor mount HICs

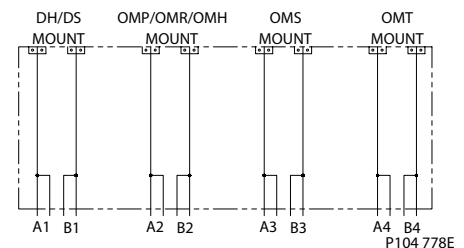
Application notes

ORBITAL MOTORS (continued)

Important notes

- Motors are sold separately from HICs.
 - Contact your Sauer-Danfoss 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 Sauer-Danfoss representative.
- OMP/OMR and OMH use the same mount, but OMH has higher flow capability.
 - The OMH uses different cartridges to accommodate the higher flow.
- DH and DS use the same mount, but DS 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 DS 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





Cartridge Valves Technical Information

Motor mount HICs

Application notes

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.

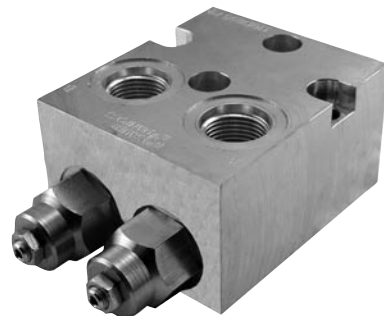
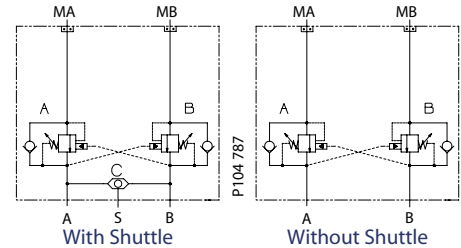
Counterbalance valves have a pilot ratio of 3.0:1, 4.5:1, or 10.0:1. Typical pilot ratio for motor applications is 10.0:1

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*, section 9 of this catalog.

Dual counterbalance valve

Dual counterbalance valve



F102 243



F102 246

**COUNTERBALANCE
VALVES (continued)**
Sample system circuits
Motor with dual counterbalance valve

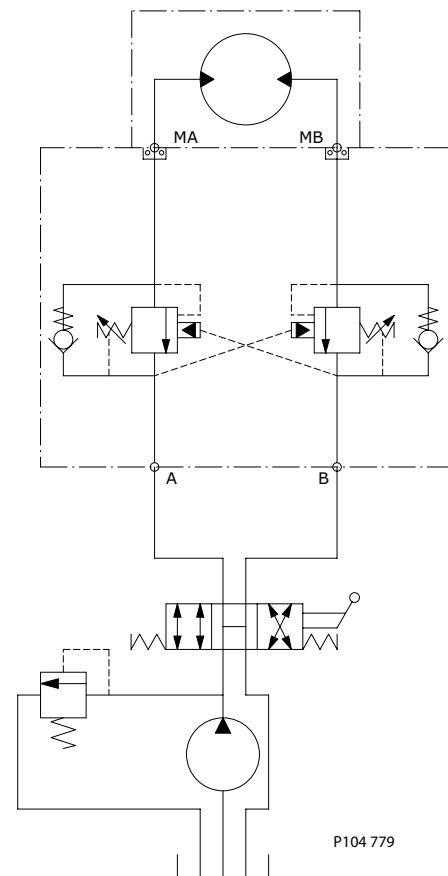
A typical rotary circuit application for a counterbalance valve contains a pump, directional control valve, system relief valve, and motor. Without a counterbalance valve there is no back pressure to hold the load on the motor, or to prevent free rotation when the control valve shifts to the neutral 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.

Dual counterbalance valve


**Typical application of dual counterbalance valve
in a motor circuit.**

Cartridge Valves Technical Information

Motor mount HICs

Application notes

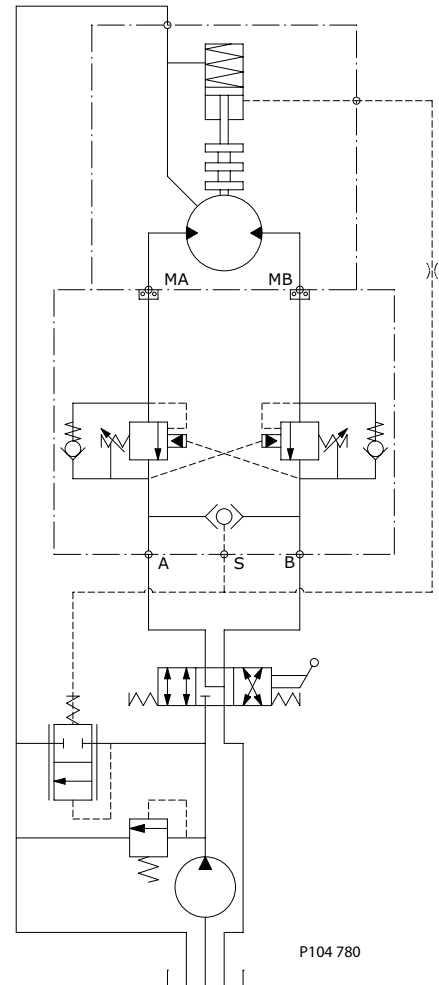
**COUNTERBALANCE
VALVES (continued)**

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.**



Cartridge Valves Technical Information

Motor mount HICs

Application notes

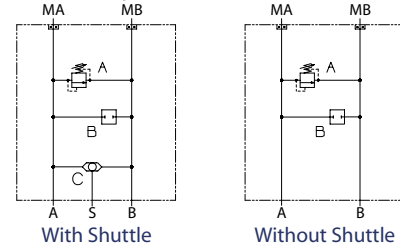
CROSS-PORT RELIEF VALVES

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*, section 4 of this catalog.

Dual cross-port relief with shuttle



P104-788

Cross-port relief valve



F102 238



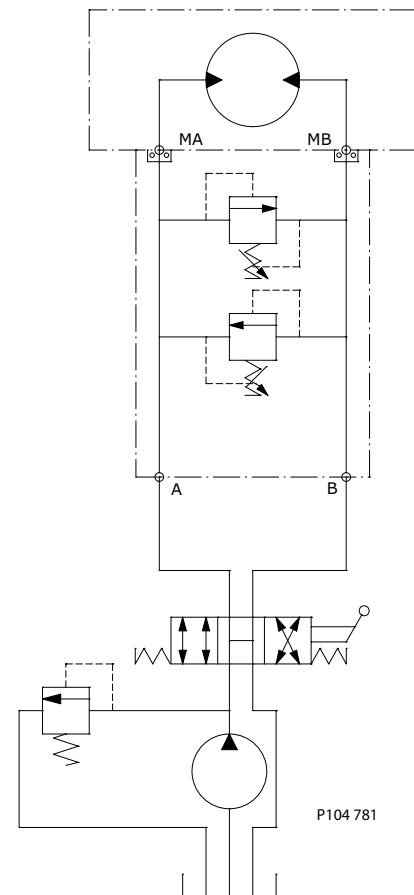
F102 239

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.

Dual cross-port relief


Simple rotary circuit with dual cross-port relief valve.

Cartridge Valves Technical Information

Motor mount HICs

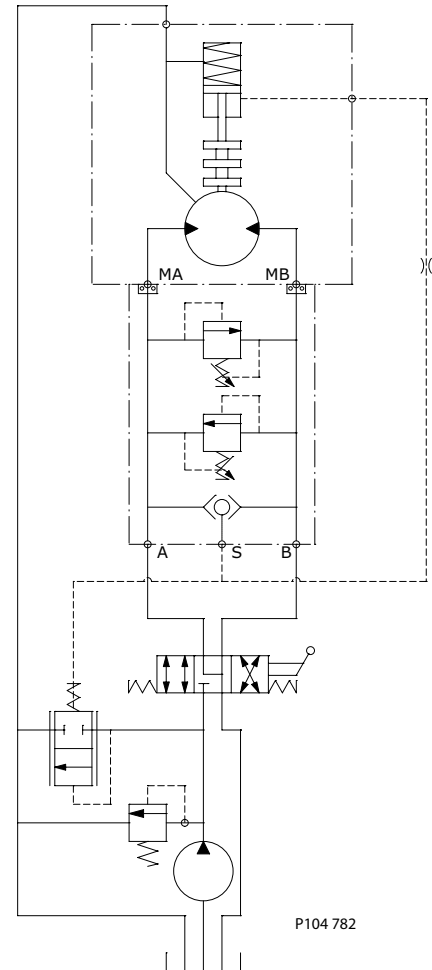
Application notes

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.



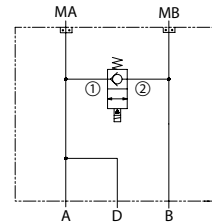
Cartridge Valves Technical Information

Motor mount HICs Application notes

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 Sauer-Danfoss representative if you require reverse logic.

Bypass solenoid

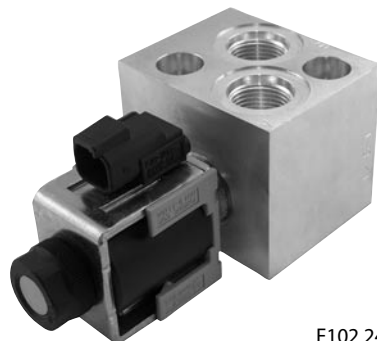


P104 750

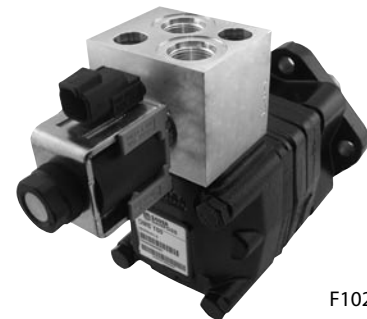
The manifold includes a drain port connected to port A to simplify circuit plumbing. Depending on motor drain pressure capabilities, you may connect the motor drain directly to port D on the HIC instead of routing it back to the reservoir.

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*, section 10 of this catalog.

Bypass solenoid valve with robust coil



F102 241



F102 242

BYPASS SOLENOID VALVES (continued)
Sample system circuits
Motor with drain, no directional valve

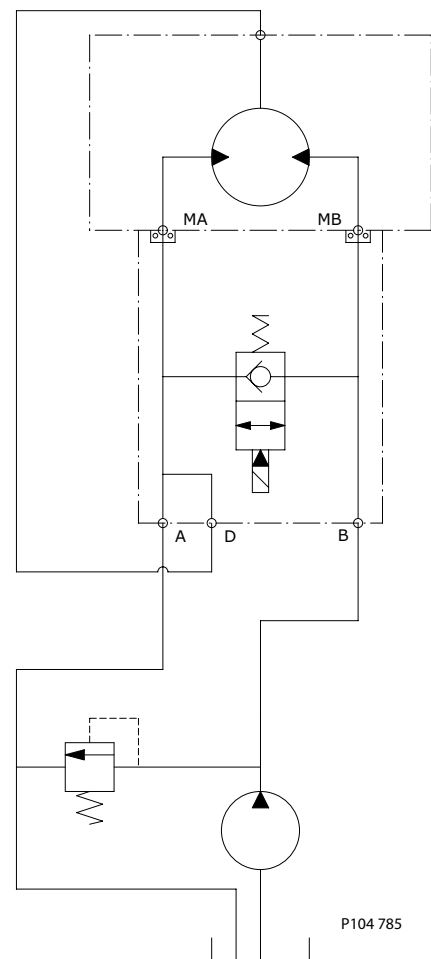
A typical rotary circuit application for a bypass solenoid valve contains a pump, system relief valve, motor, and in most cases, a directional control valve. The bypass solenoid valve allows an electrically-actuated method of bypassing flow at the motor.

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).

Cartridge Valves Technical Information

Motor mount HICs

Application notes

BYPASS SOLENOID VALVES (continued)

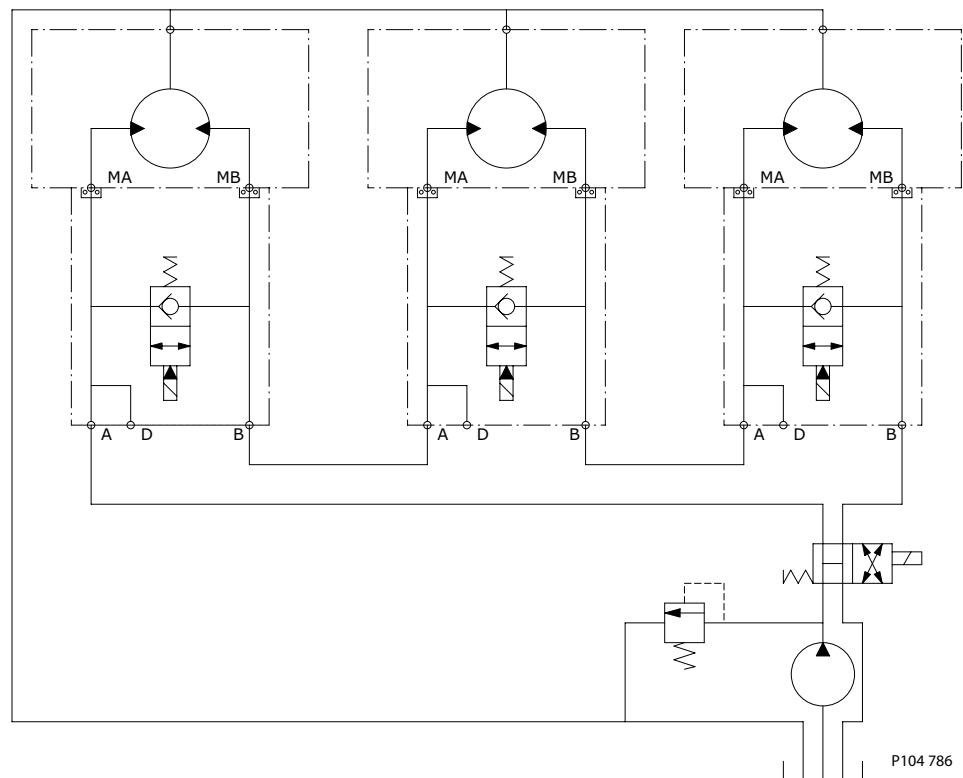
Motors in series

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.

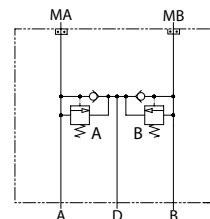
Cartridge Valves Technical Information

Motor mount HICs 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



P104 763

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



F102 244



F102 245

DUAL SHOCK VALVE WITH ANTICAVITATION CHECKS (continued)

Sample system circuit

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

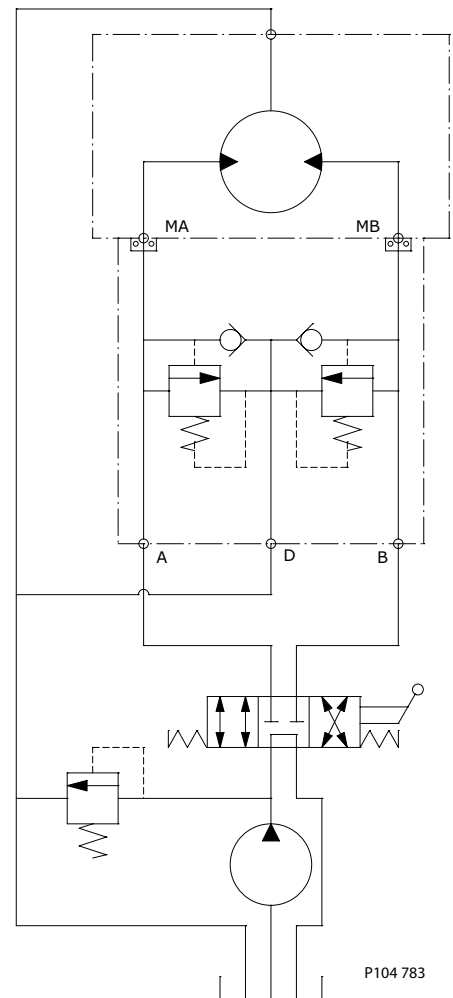
A typical rotary circuit application for a shock valve with anticavitation contains a pump, directional control valve, system relief valve, and motor. Without this valve there is no over-pressure protection at the motor work ports and no protection against cavitation during overrun.

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.



Cartridge Valves Technical Information

Motor mount HICs

Application notes

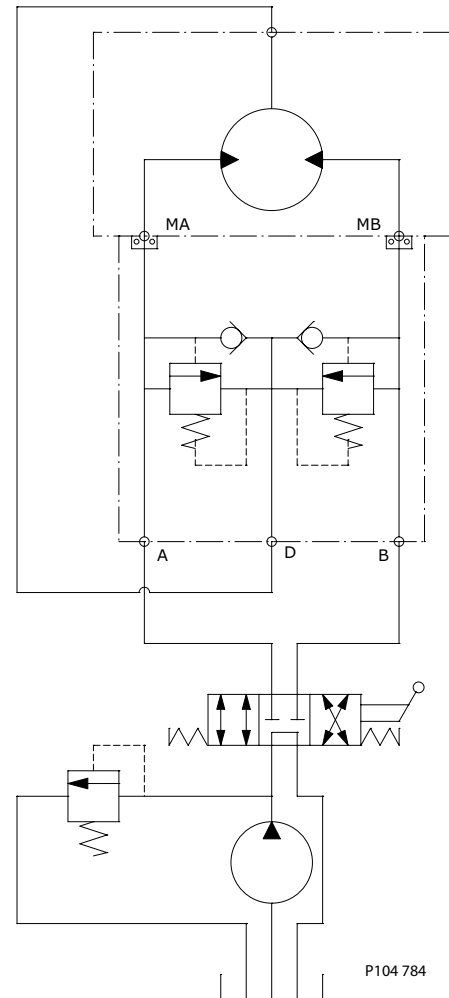
DUAL SHOCK VALVE WITH ANTICAVITATION CHECKS (continued)

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



P104 784

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 HICs
Application notes



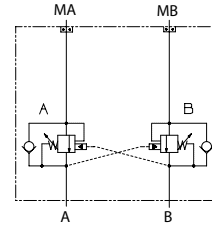
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-DCB10-HV

OPERATION

This is a dual counterbalance HIC that mounts to DH motors with manifold mount porting.

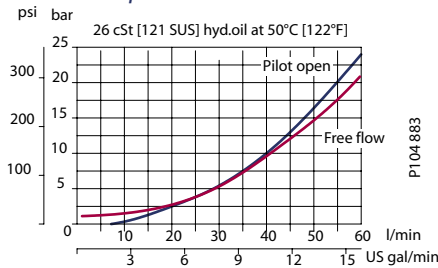
Schematic



P104 593

SPECIFICATIONS

Theoretical performance



Specifications

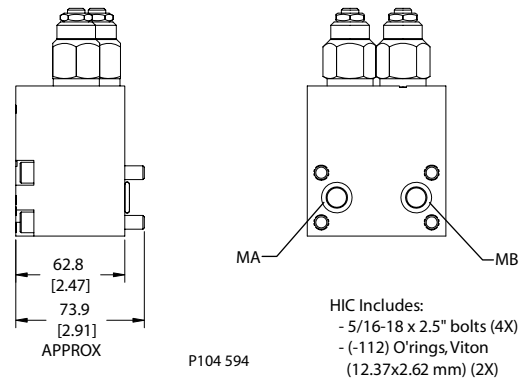
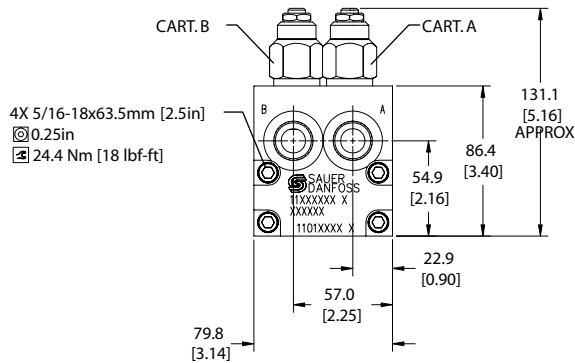
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-00-DCB10-HV

DIMENSIONS

Cross-sectional view

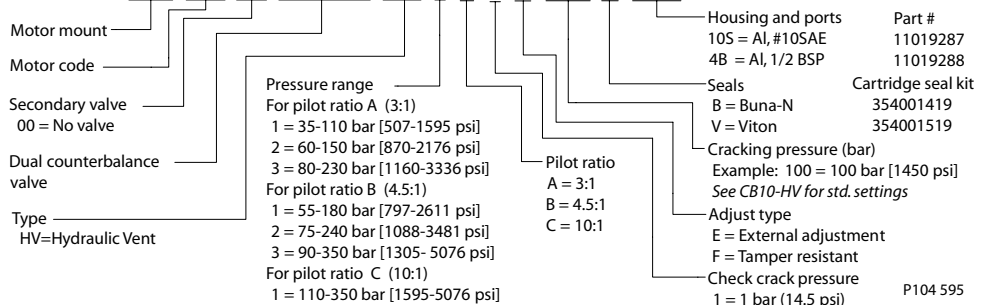
mm [in]



P104 594

ORDERING INFORMATION

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



P104 595



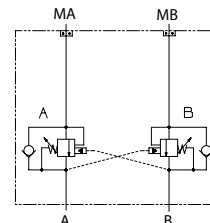
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-DCB10-HV

OPERATION

This is a dual counterbalance HIC that mounts to DS motors with manifold mount porting.

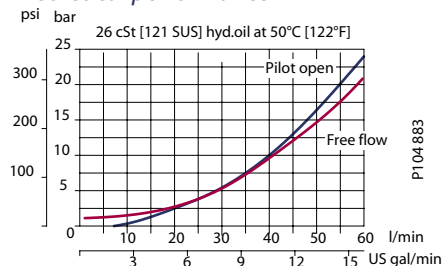
Schematic



P104 593

SPECIFICATIONS

Theoretical performance



Specifications

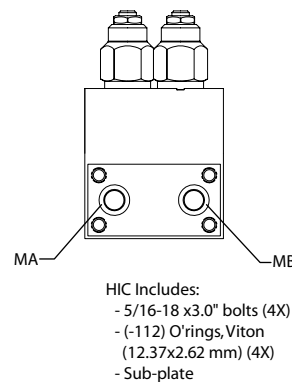
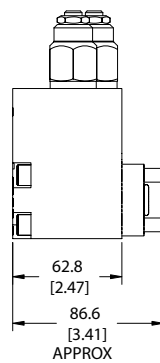
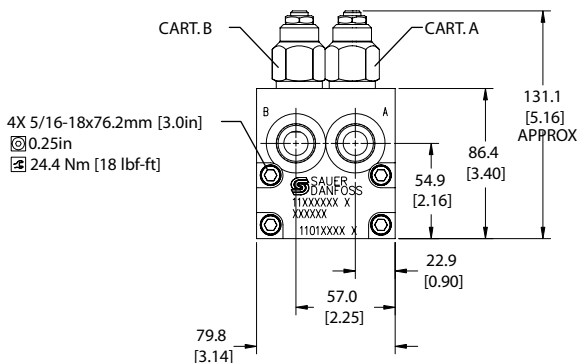
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-00-DCB10-HV

DIMENSIONS

Cross-sectional view

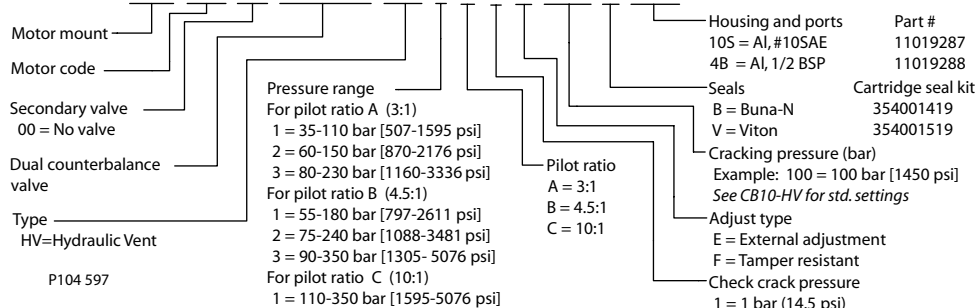
mm [in]



P104 596

ORDERING INFORMATION

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





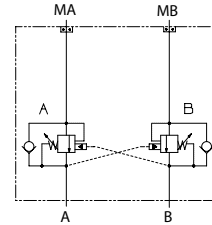
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-DCB10-HV

OPERATION

This is a dual-counterbalance HIC that mounts to OMP/OMR motors with BSP porting.

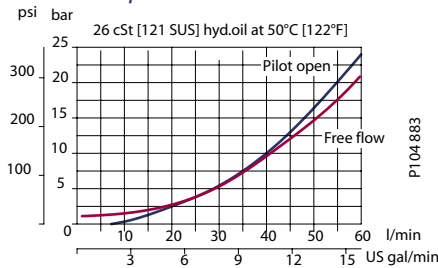
Schematic



P104 593

SPECIFICATIONS

Theoretical performance



Specifications

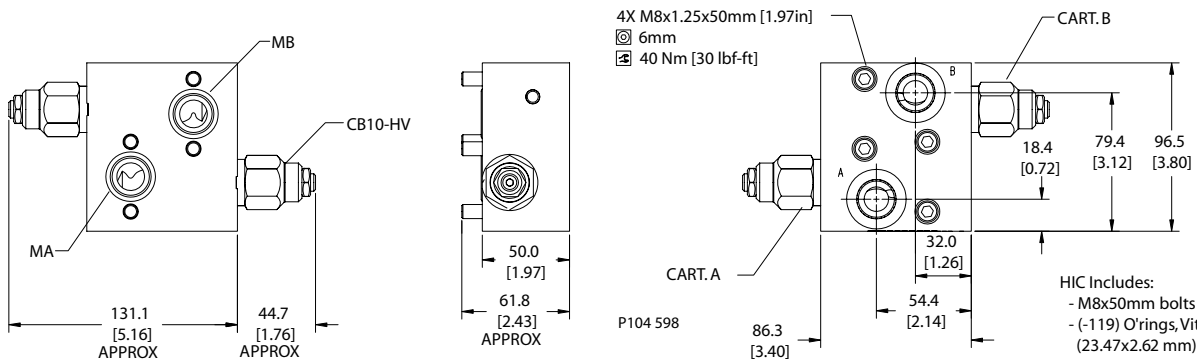
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Service mount kit	11023162
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-DCB10-HV

DIMENSIONS

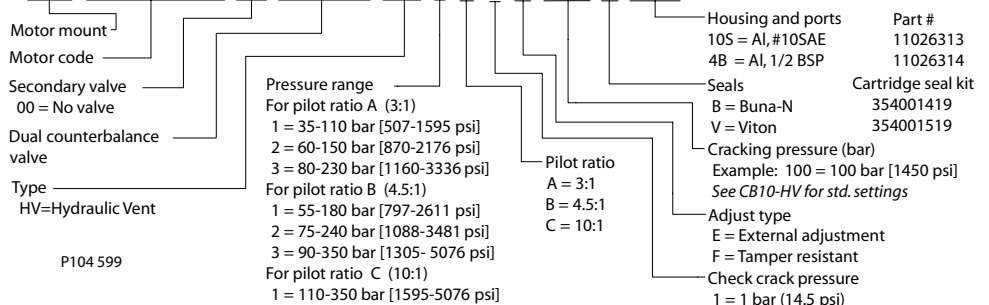
Cross-sectional view

mm [in]



ORDERING INFORMATION

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



P104 599



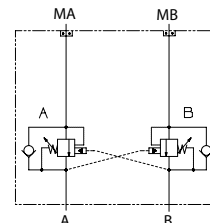
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-00-DCP441-1

OPERATION

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

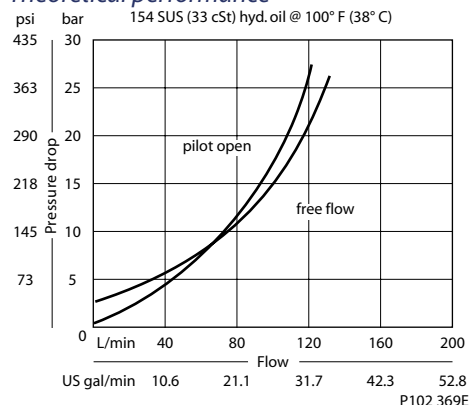
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P104 593

SPECIFICATIONS

Theoretical performance



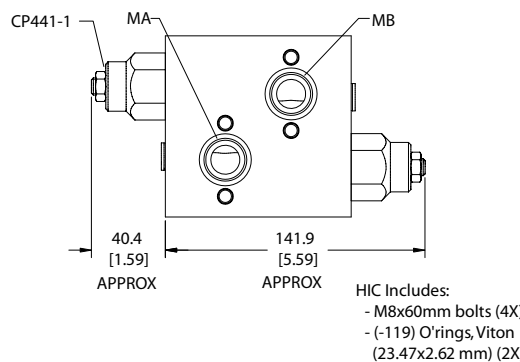
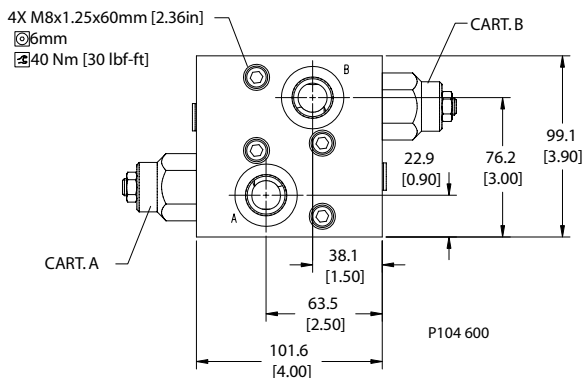
Specifications

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

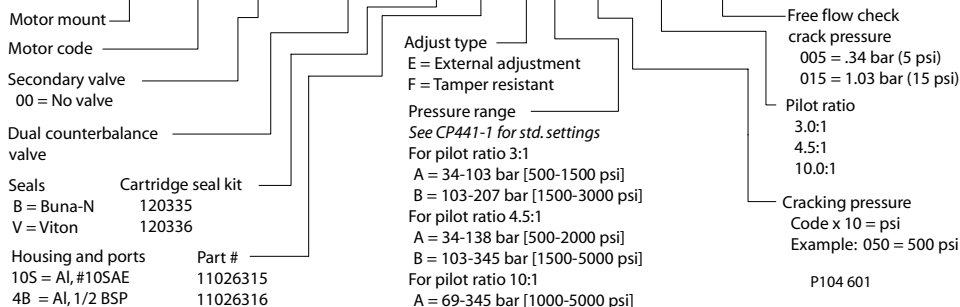
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





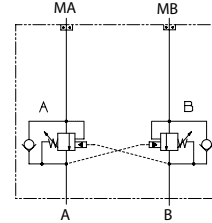
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-00-DCP441-1

OPERATION

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

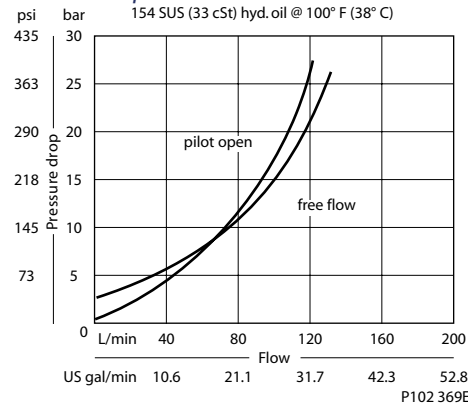
Schematic



P104 593

SPECIFICATIONS

Theoretical performance



Specifications

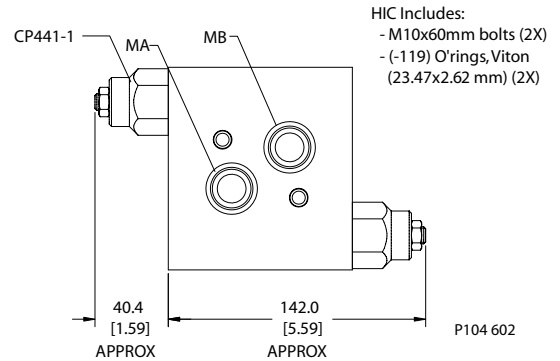
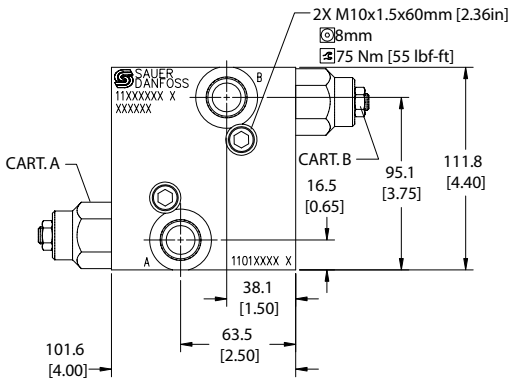
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Service mount kit	11023867
Motor	OMS

Motor mount HICs
MM-OMS-00-DCP441-1

DIMENSIONS

Cross-sectional view

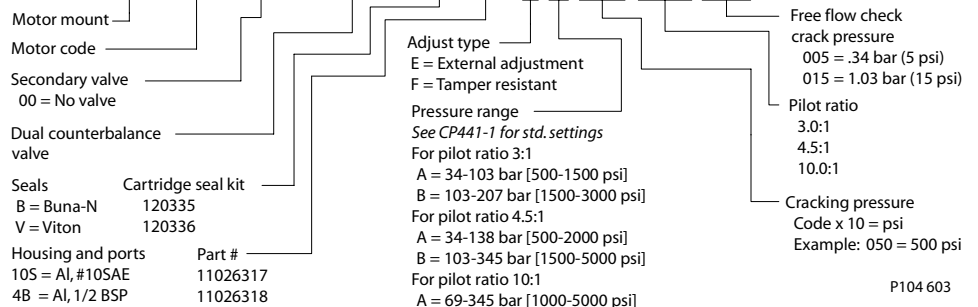
mm [in]



P104 602

ORDERING INFORMATION

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



P104 603



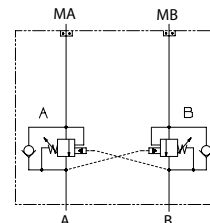
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-00-DCP441-1

OPERATION

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

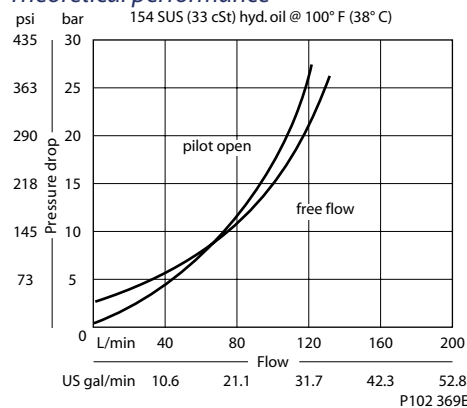
Schematic



P104 593

SPECIFICATIONS

Theoretical performance



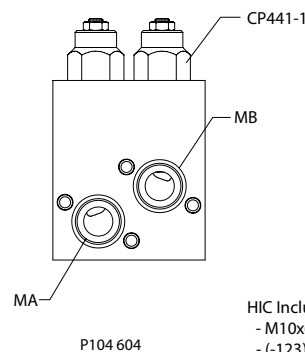
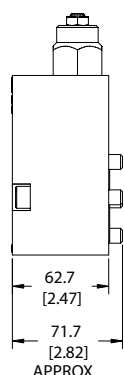
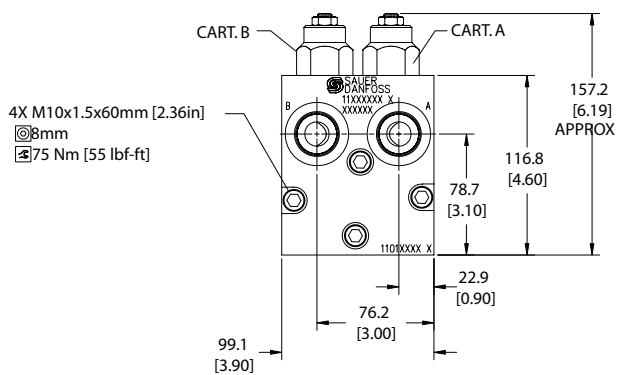
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 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

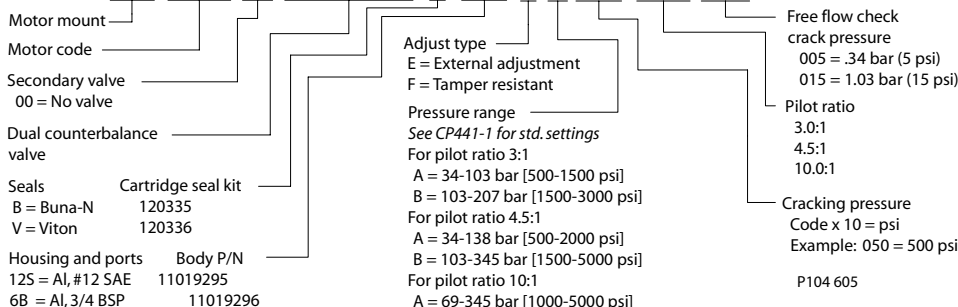
mm [in]



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





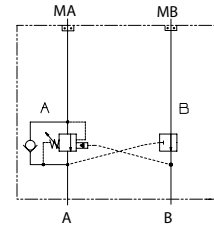
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-ACB10-HV

OPERATION

This is a single-counterbalance HIC (A port) that mounts to DH motors with manifold mount porting.

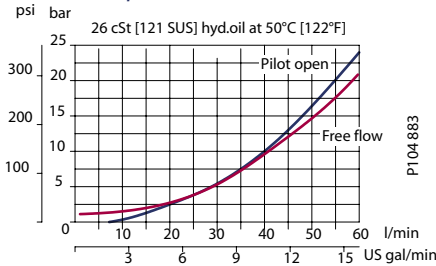
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

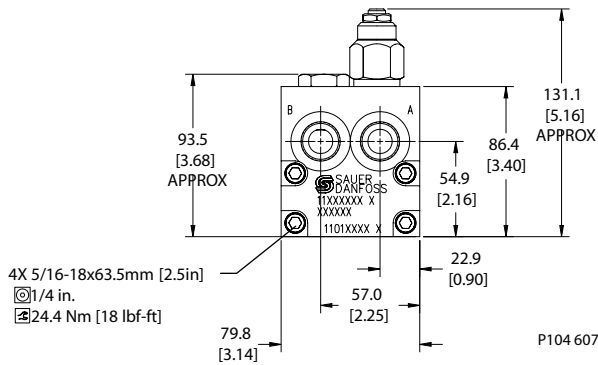
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Plug	SDC10-V-3S-B1
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-00-ACB10-HV

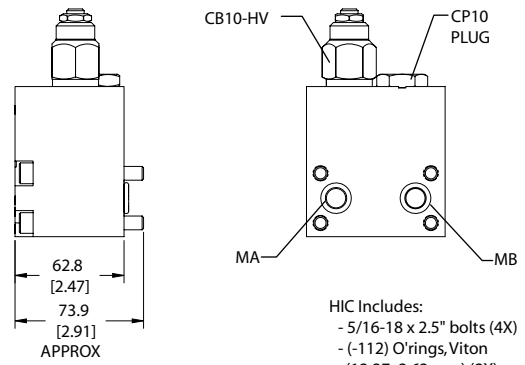
DIMENSIONS

Cross-sectional view

mm [in]

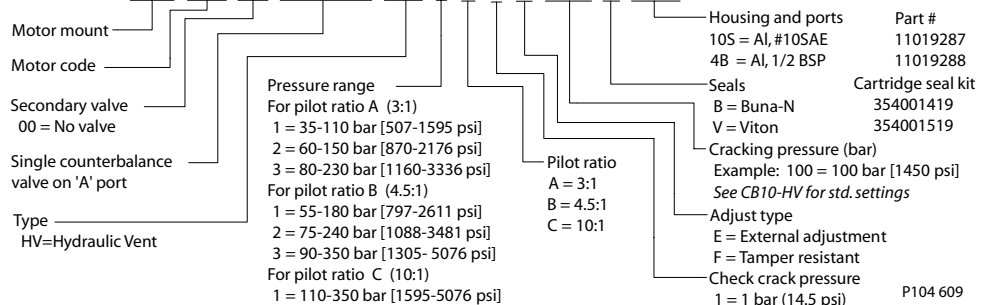


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ORDERING INFORMATION

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



P104 609



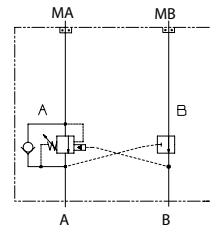
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-ACB10-HV

OPERATION

This is a single-counterbalance HIC (A port) that mounts to DS motors with manifold mount porting.

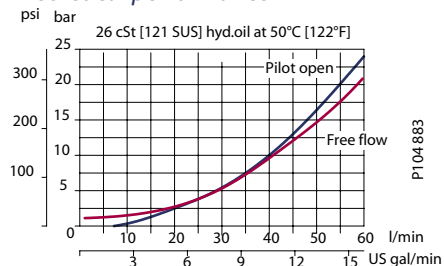
Schematic



P104 606

SPECIFICATIONS

Theoretical performance



P104883

Specifications

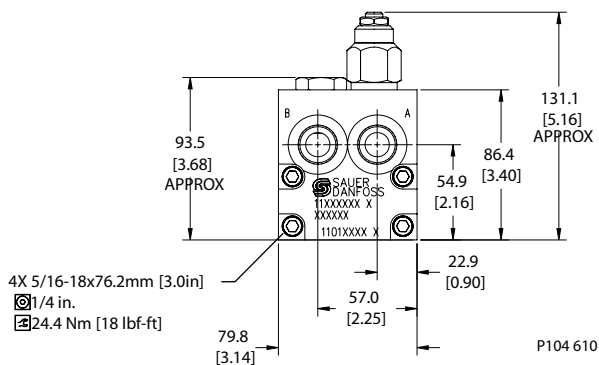
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Plug	SDC10-V-3S-B1
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-00-ACB10-HV

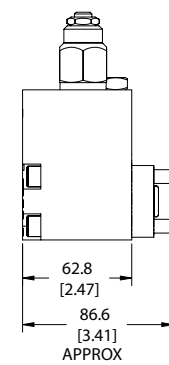
DIMENSIONS

Cross-sectional view

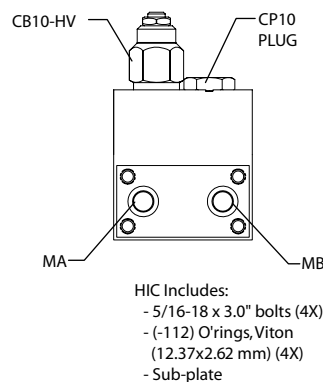
mm [in]



P104 610



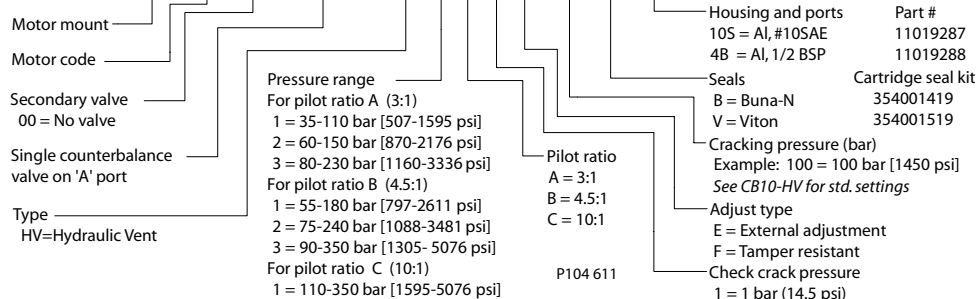
P104 611



- 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





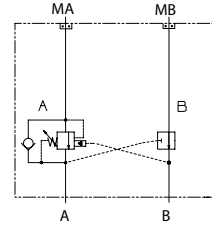
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-ACB10-HV

OPERATION

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

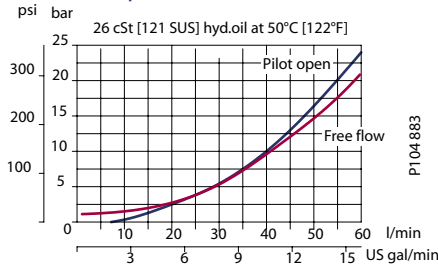
Schematic



P104 606

SPECIFICATIONS

Theoretical performance



Specifications

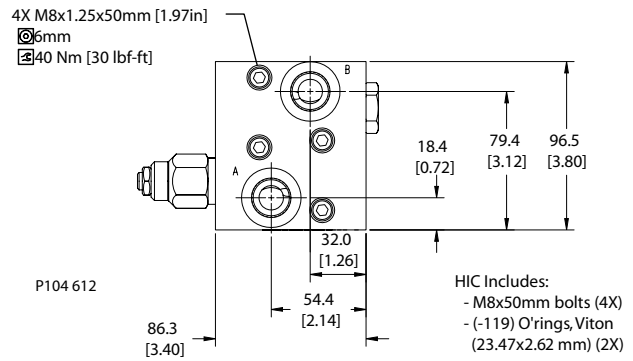
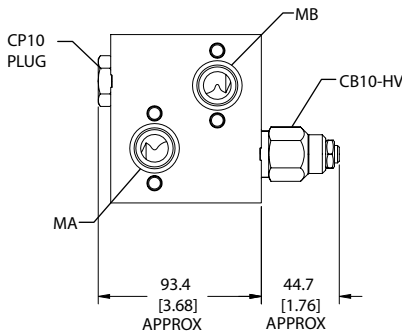
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Plug	SDC10-V-3S-B1
Service mount kit	11023162
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-ACB10-HV

DIMENSIONS

Cross-sectional view

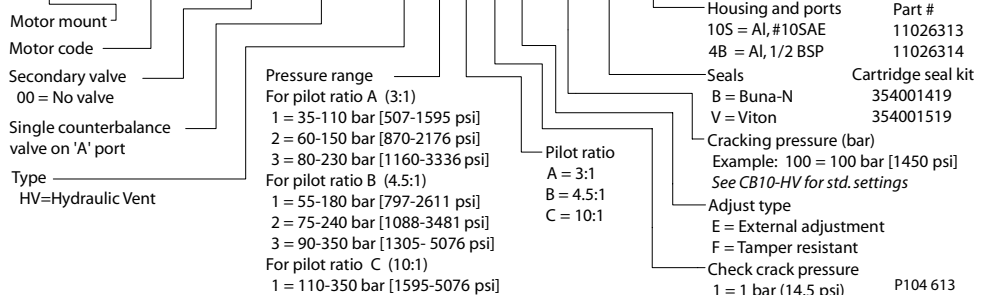
mm [in]



P104 612

ORDERING INFORMATION

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





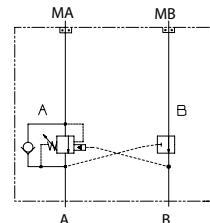
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-00-ACP441-1

OPERATION

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

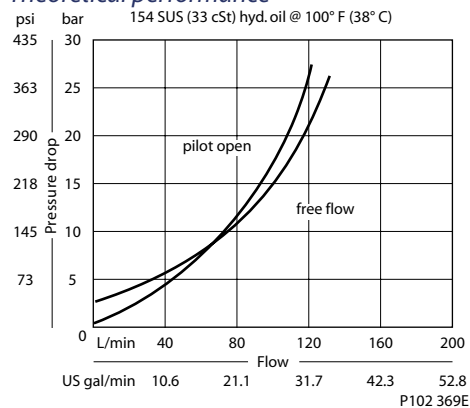
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

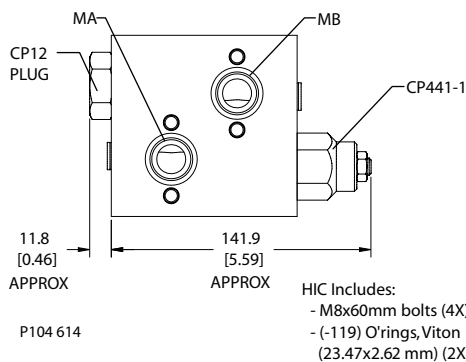
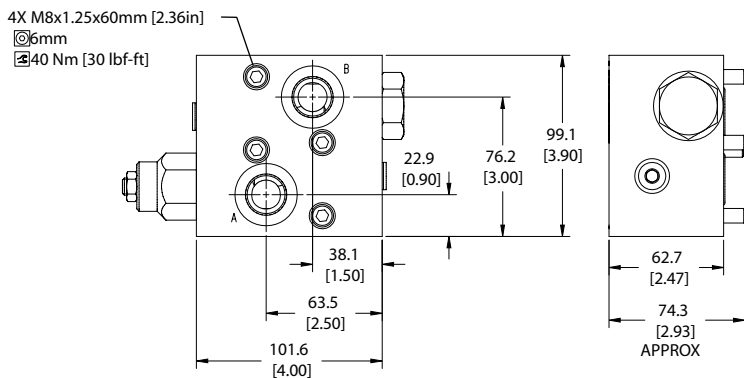
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023869
Motor	OMH

Motor mount HICs
MM-OMH-00-ACP441-1

DIMENSIONS

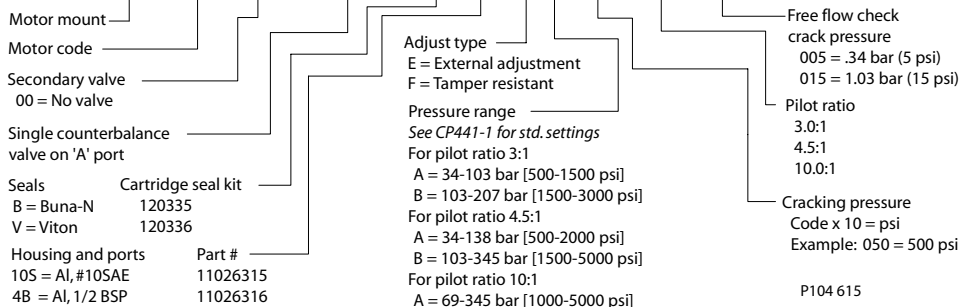
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





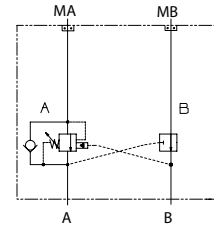
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-00-ACP441-1

OPERATION

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

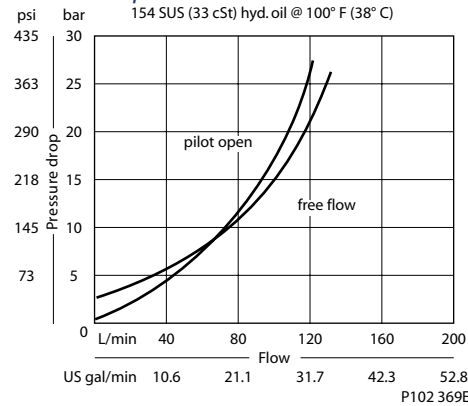
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

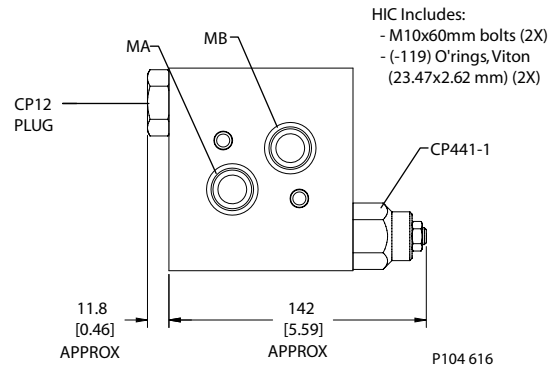
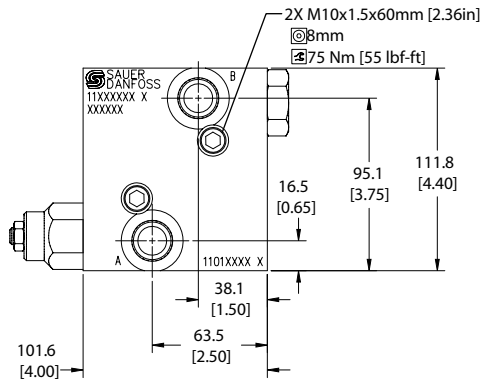
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023867
Motor	OMS

Motor mount HICs
MM-OMS-00-ACP441-1

DIMENSIONS

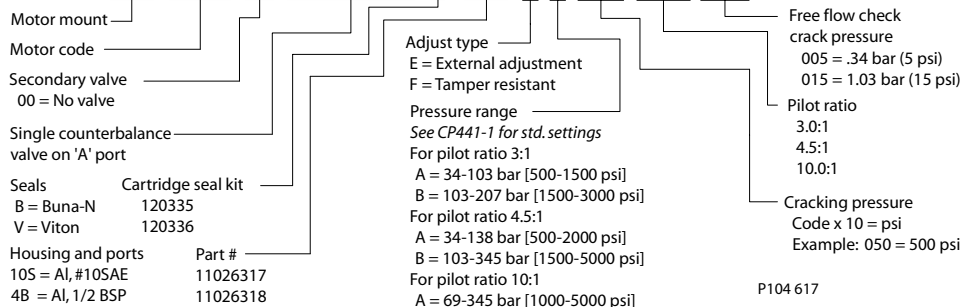
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





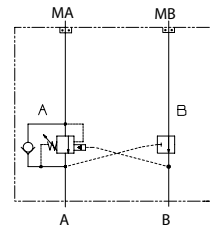
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-00-ACP441-1

OPERATION

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

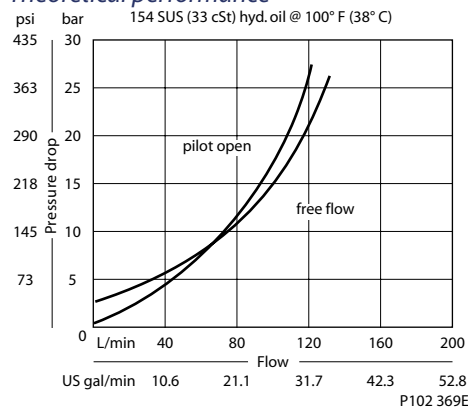
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

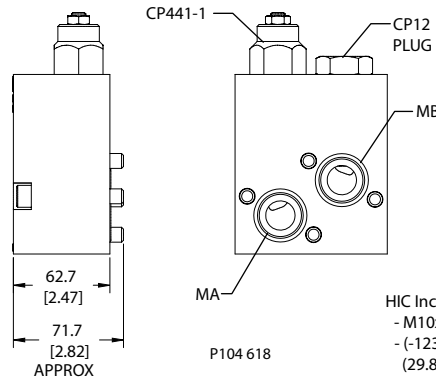
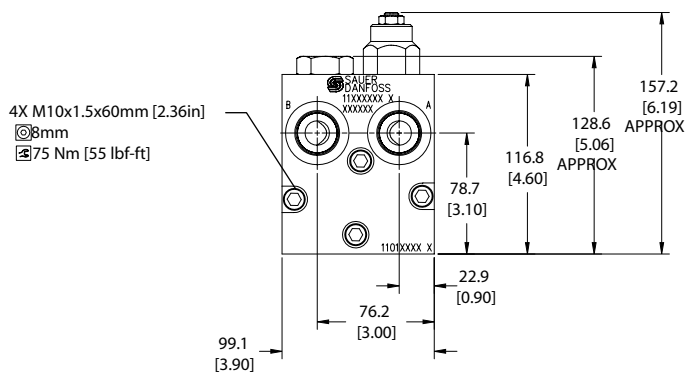
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.20 kg [4.85 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023871
Motor	OMT

Motor mount HICs
MM-OMT-00-ACP441-1

DIMENSIONS

Cross-sectional view

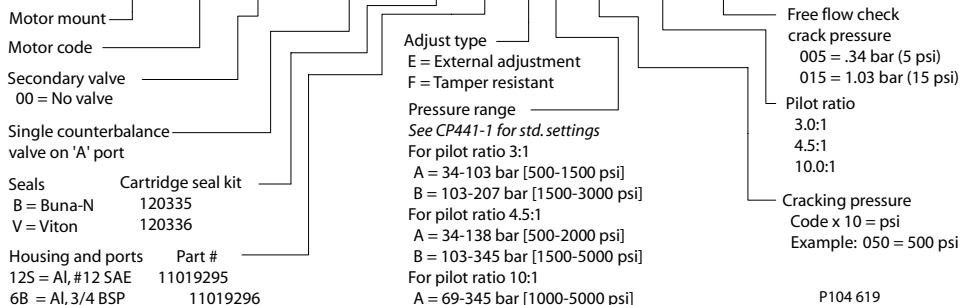
mm [in]



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





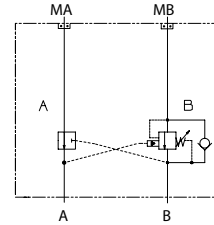
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-BCB10-HV

OPERATION

This is a single counterbalance HIC (on B port) that mounts to DH motors with manifold mount porting.

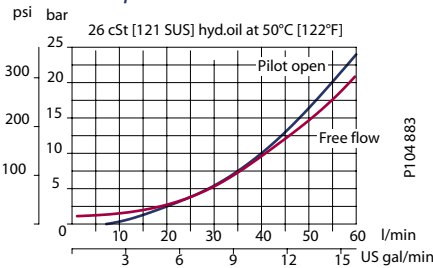
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

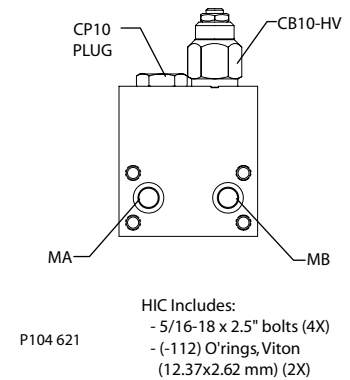
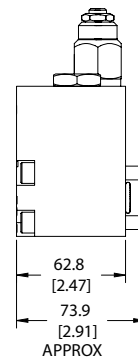
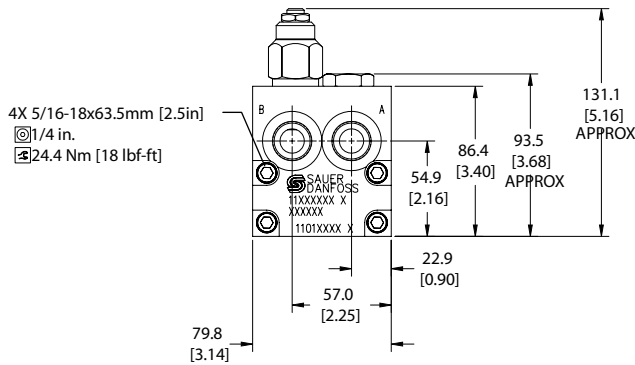
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Plug	SDC10-V-3S-B1
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-00-BCB10-HV

DIMENSIONS

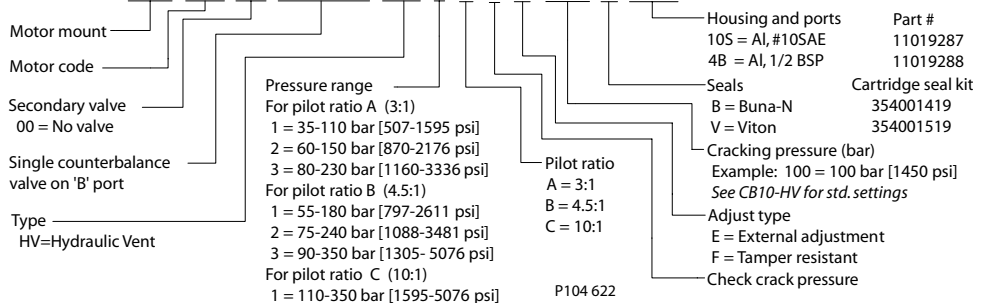
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





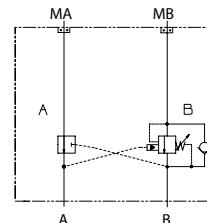
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-BCB10-HV

OPERATION

This is a single counterbalance HIC (on B port) that mounts to DS motors with manifold mount porting.

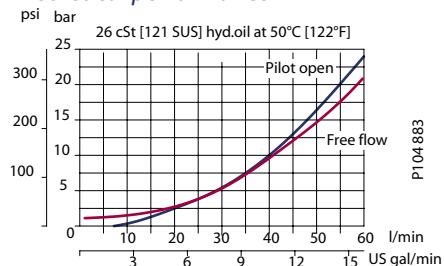
Schematic



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SPECIFICATIONS

Theoretical performance



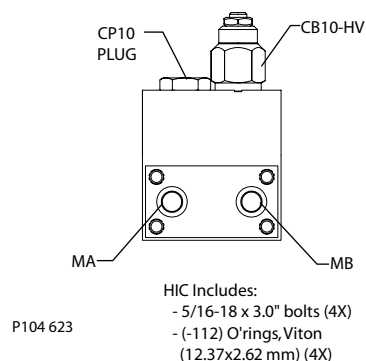
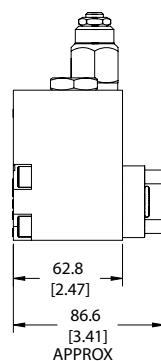
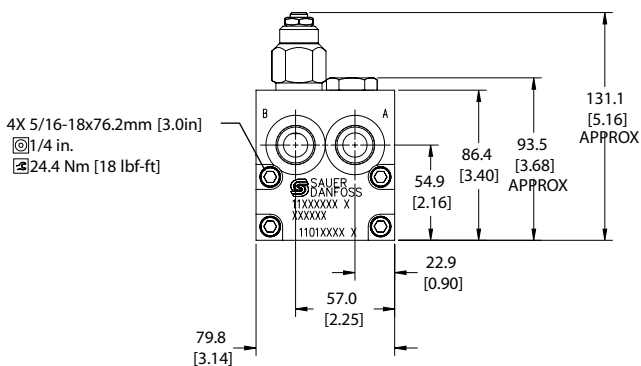
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 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	DS

DIMENSIONS

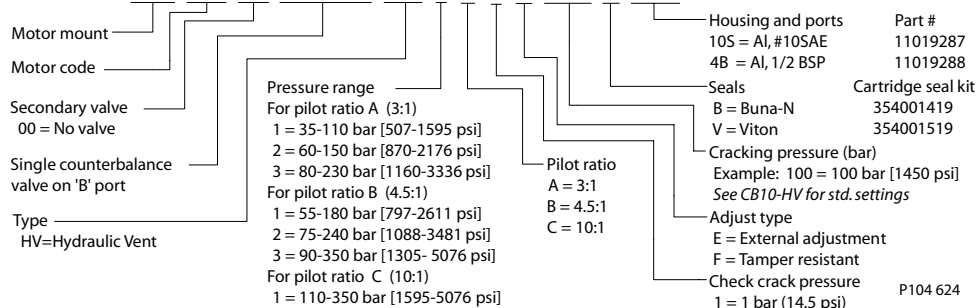
Cross-sectional view

mm [in]



ORDERING INFORMATION

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



Motor mount HICs
MM-DS-00-BCB10-HV



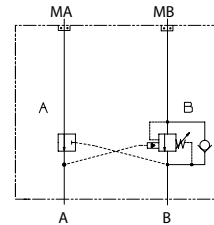
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-BCB10-HV

OPERATION

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

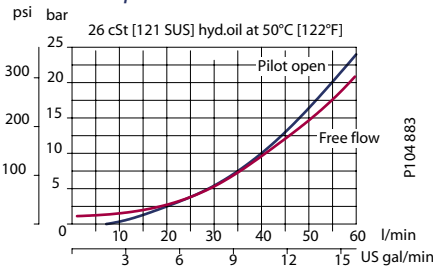
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

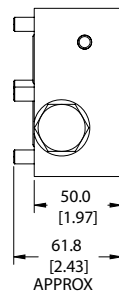
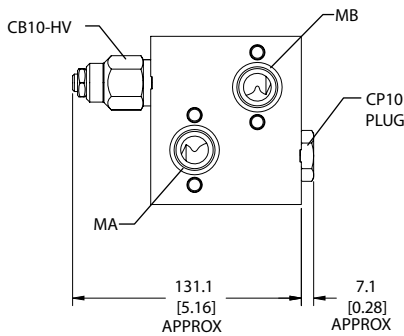
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.43 kg [3.15 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Plug	SDC10-V-3S-B1
Service mount kit	11023762
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-BCB10-HV

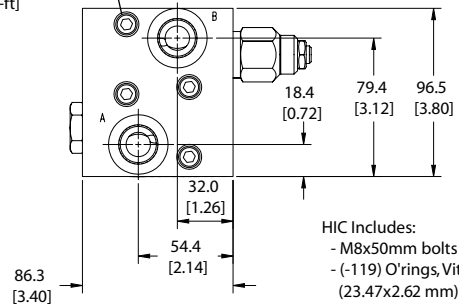
DIMENSIONS

Cross-sectional view

mm [in]



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

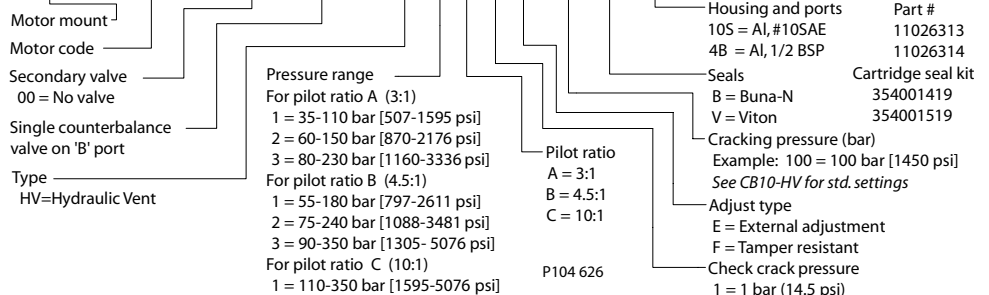


HIC Includes:
- M8x50mm bolts (4X)
- (-119) O-rings, Viton (23.47x2.62 mm) (2X)

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ORDERING INFORMATION

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



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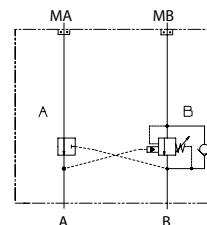
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-00-BCP441-1

OPERATION

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

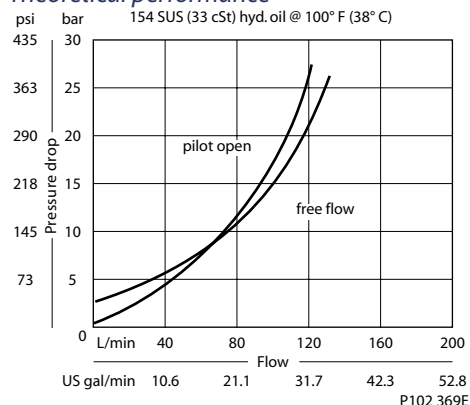
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

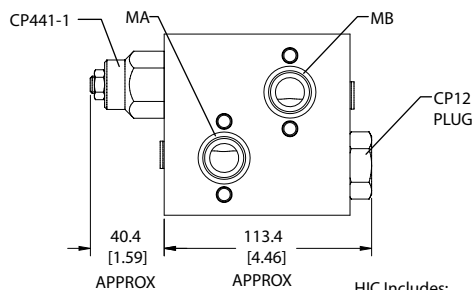
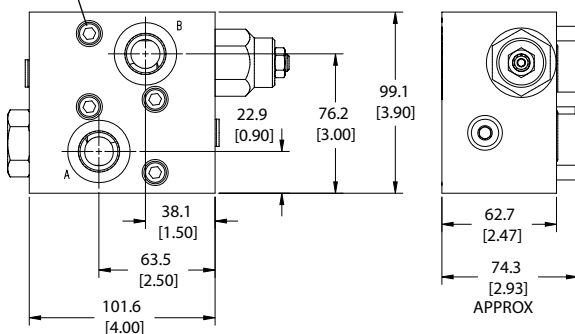
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	1.93 kg [4.25 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023869
Motor	OMH

DIMENSIONS

Cross-sectional view

mm [in]

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



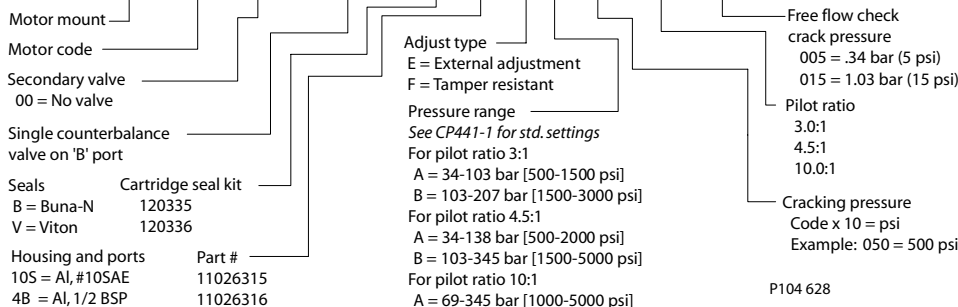
HIC Includes:

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

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ORDERING INFORMATION

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





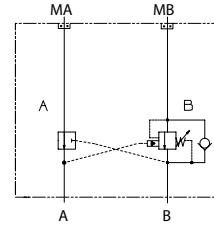
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-00-BCP441-1

OPERATION

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

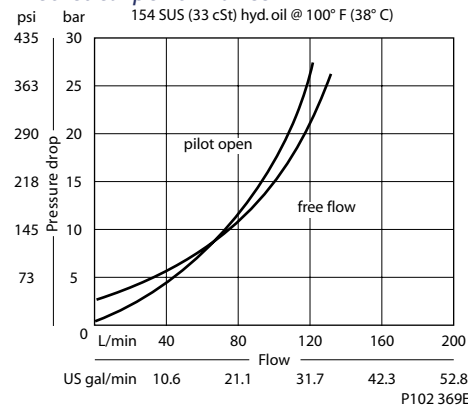
Schematic



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SPECIFICATIONS

Theoretical performance



Specifications

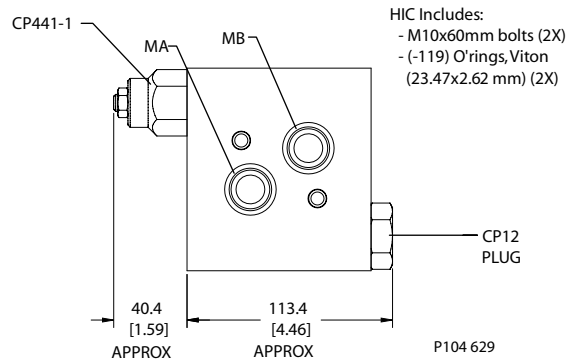
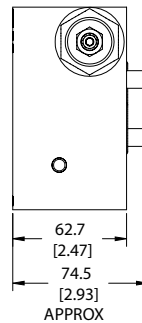
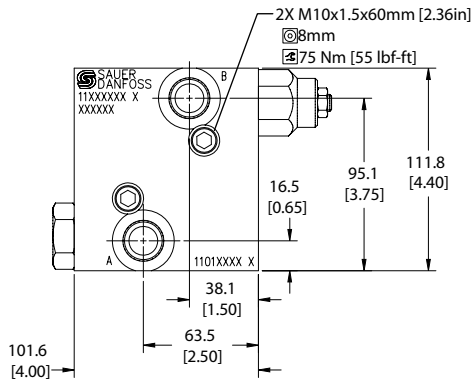
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023867
Motor	OMS

Motor mount HICs
MM-OMS-00-BCP441-1

DIMENSIONS

Cross-sectional view

mm [in]

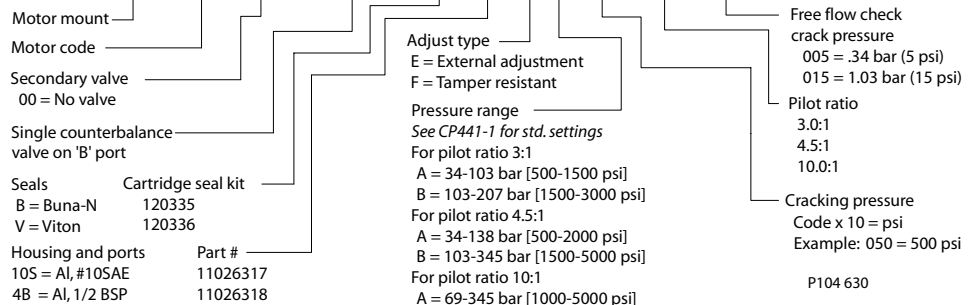


HIC Includes:
- M10x60mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)

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ORDERING INFORMATION

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



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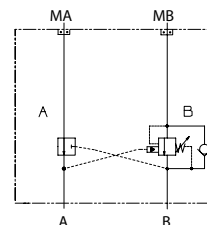
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-00-BCP441-1

OPERATION

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

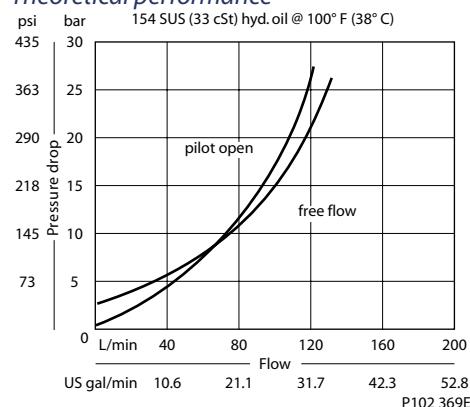
Schematic



P104 620

SPECIFICATIONS

Theoretical performance



Specifications

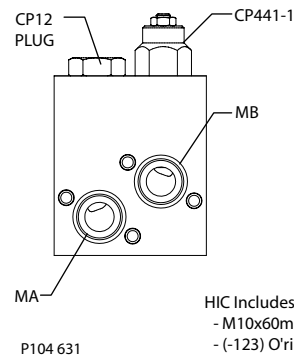
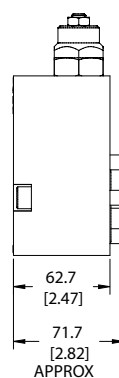
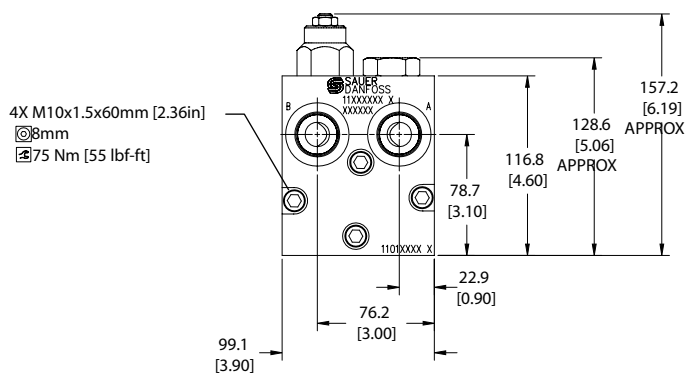
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.20 kg [4.85 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Plug	CP12-V-3S-B1
Service mount kit	11023871
Motor	OMT

Motor mount HICs
MM-OMT-00-BCP441-1

DIMENSIONS

Cross-sectional view

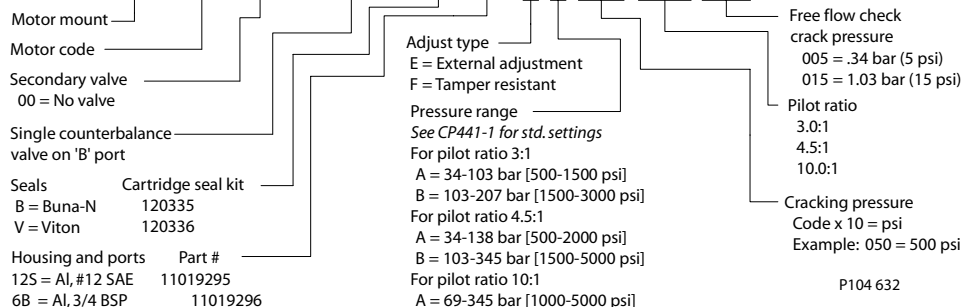
mm [in]



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





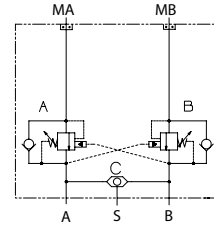
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-DCB10-HV

OPERATION

This is a dual counterbalance HIC with shuttle that mounts to DH motors with manifold mount porting.

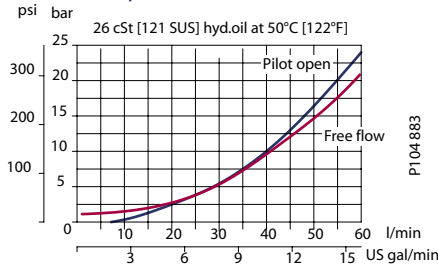
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



Specifications

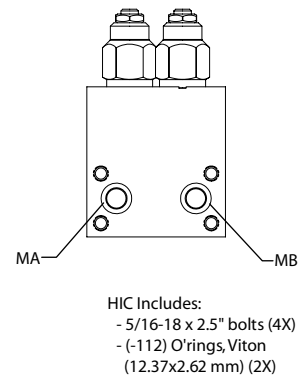
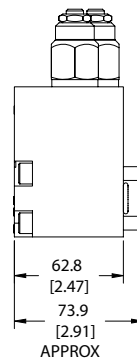
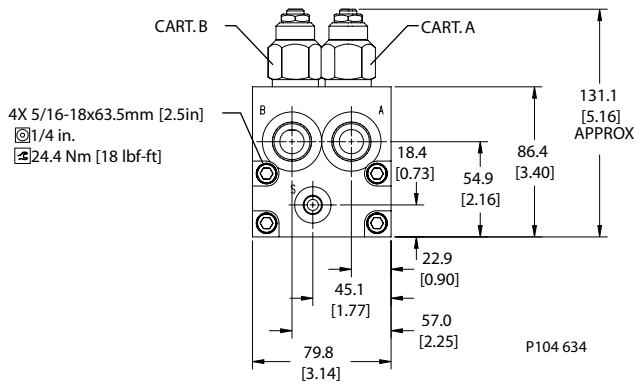
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-LS-DCB10-HV

DIMENSIONS

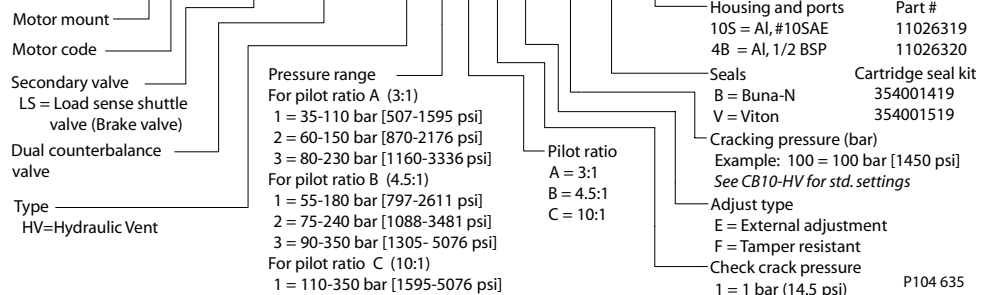
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





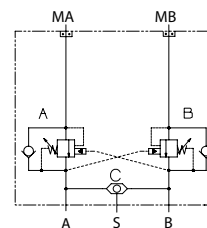
Cartridge Valves Technical Information

Motor mount HICs MM-DS-LS-DCB10-HV

OPERATION

This is a dual counterbalance HIC with shuttle that mounts to DS motors with manifold mount porting.

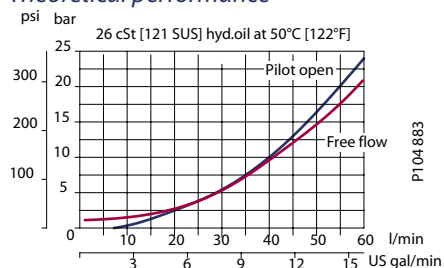
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



P104883

Specifications

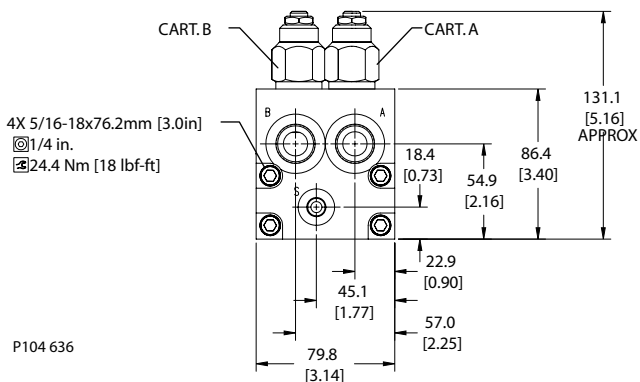
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-LS-DCB10-HV

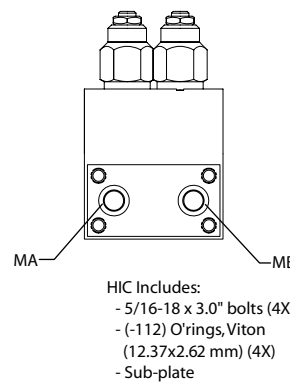
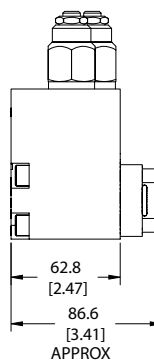
DIMENSIONS

Cross-sectional view

mm [in]

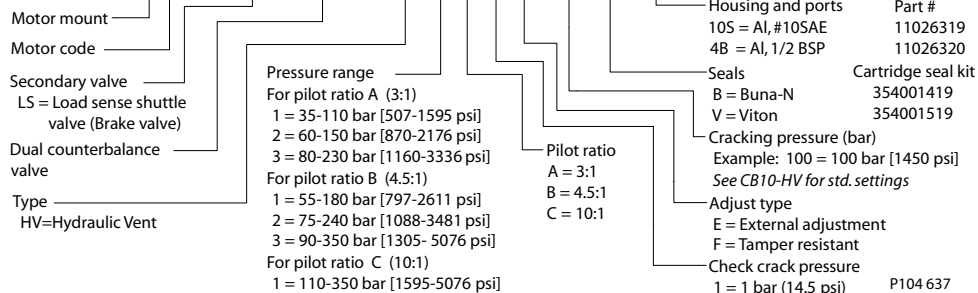


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ORDERING INFORMATION

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





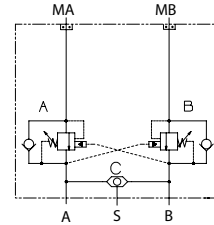
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-DCB10-HV

OPERATION

This is a dual counterbalance HIC with shuttle that mounts to OMP/OMR motors with BSP porting.

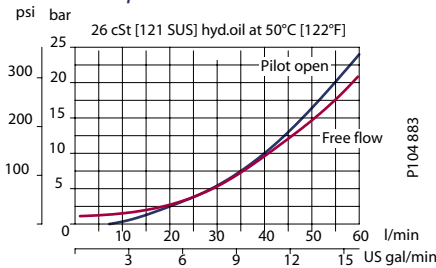
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



Specifications

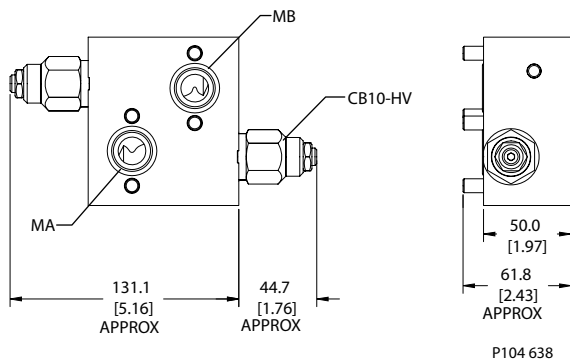
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-LS-DCB10-HV

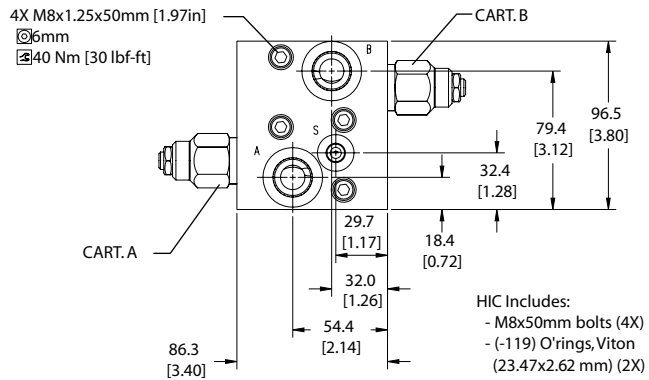
DIMENSIONS

Cross-sectional view

mm [in]



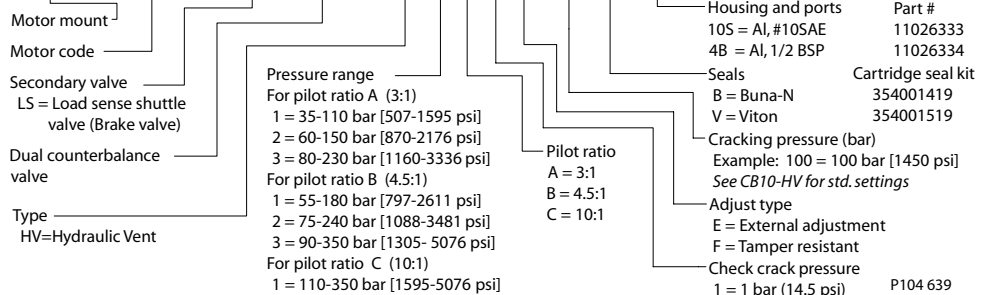
P104 638



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

ORDERING INFORMATION

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





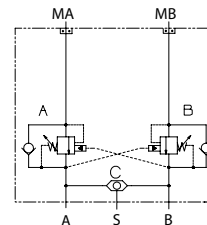
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-LS-DCP441-1

OPERATION

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

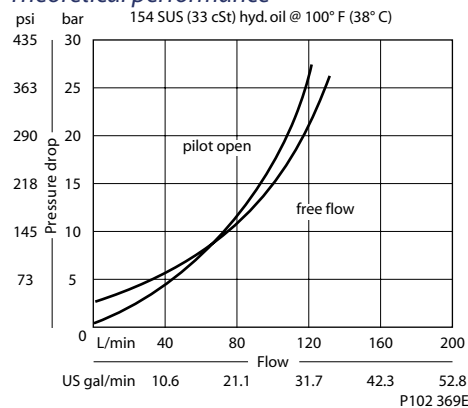
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



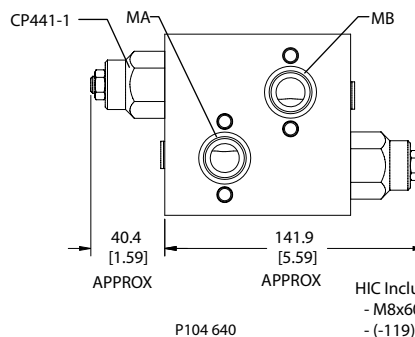
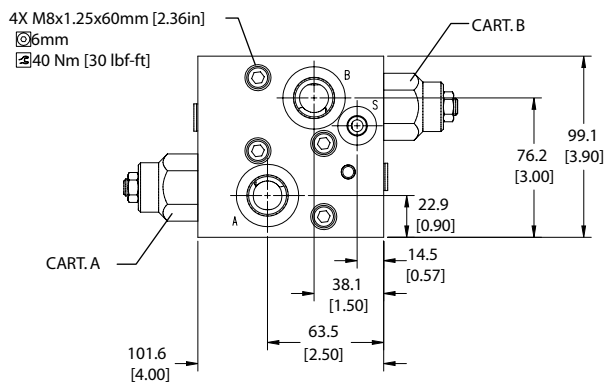
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 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

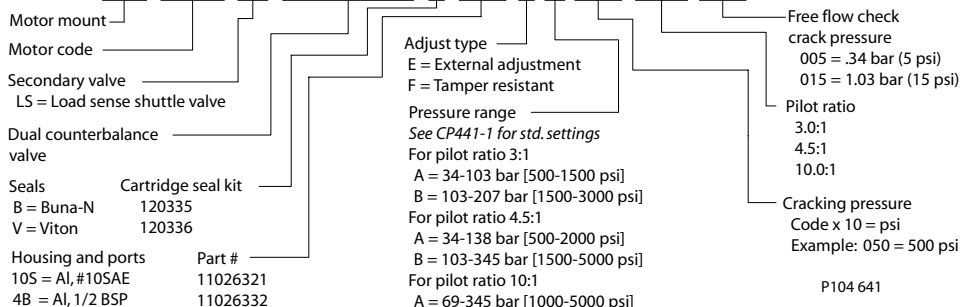
mm [in]



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

ORDERING INFORMATION

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





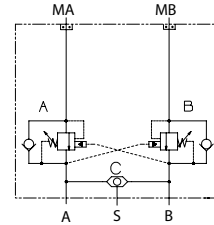
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-LS-DCP441-1

OPERATION

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

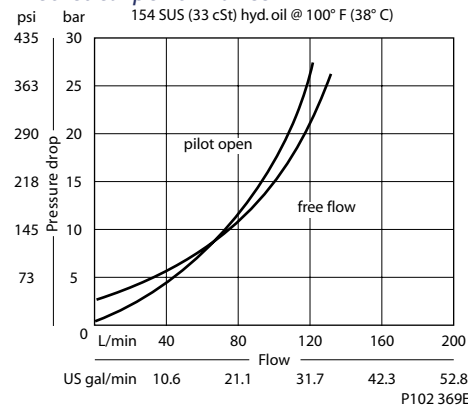
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



Specifications

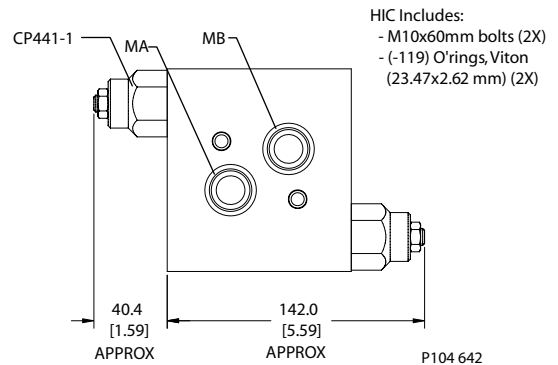
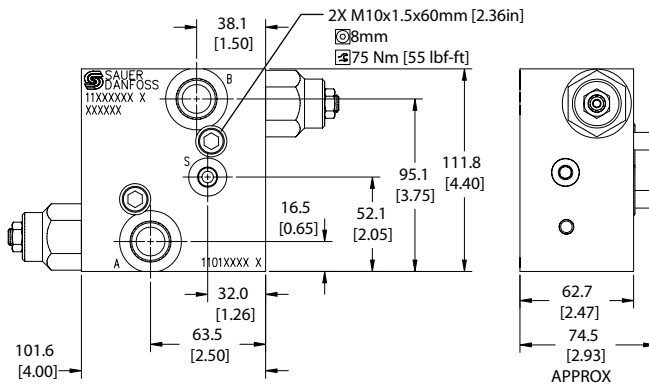
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023867
Motor	OMS

Motor mount HICs
MM-OMS-LS-DCP441-1

DIMENSIONS

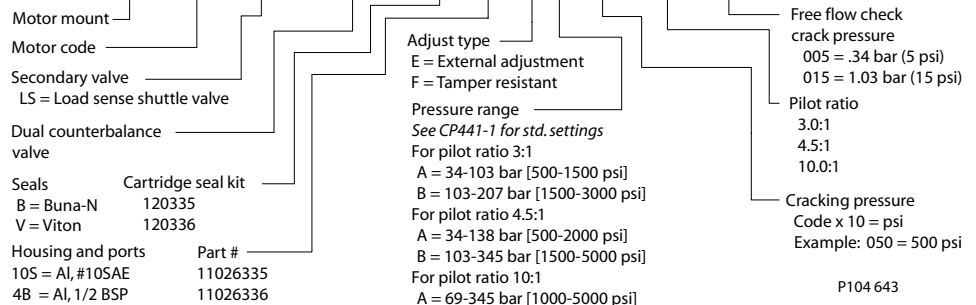
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





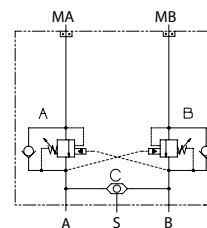
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-LS-DCP441-1

OPERATION

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

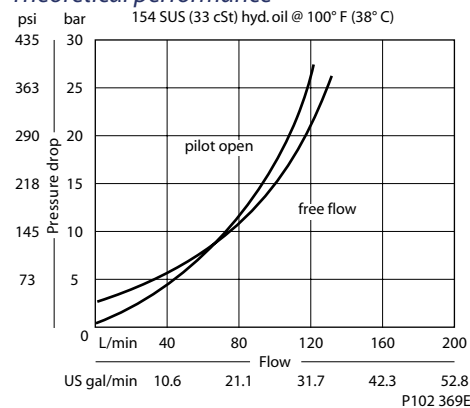
Schematic



P104 633

SPECIFICATIONS

Theoretical performance



Specifications

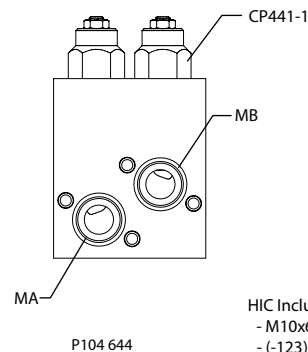
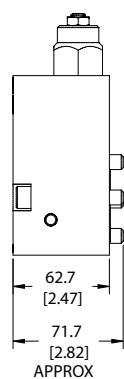
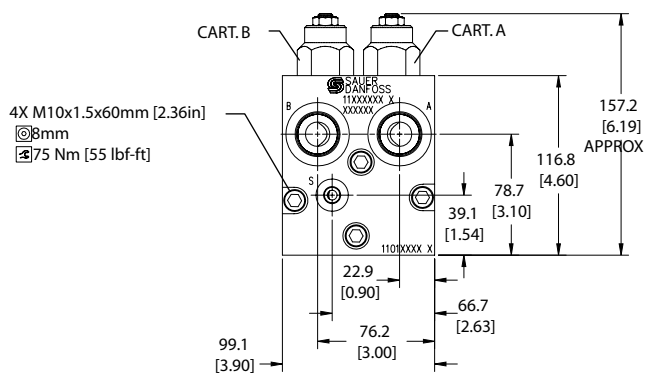
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.19 kg [4.83 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023871
Motor	OMT

Motor mount HICs
MM-OMT-LS-DCP441-1

DIMENSIONS

Cross-sectional view

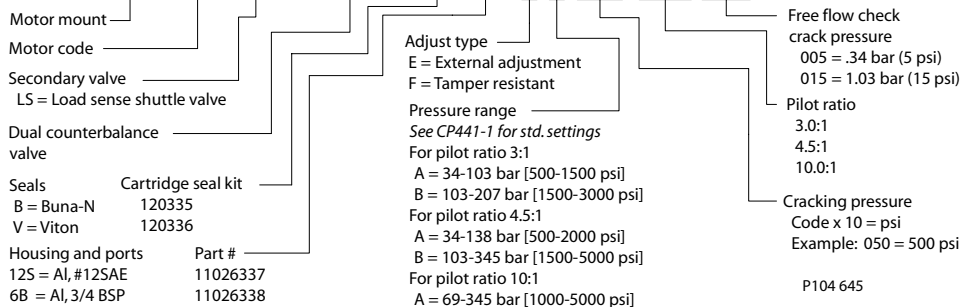
mm [in]



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

ORDERING INFORMATION

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





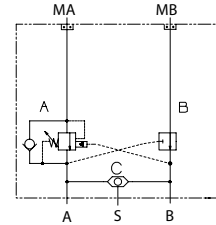
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-ACB10-HV

OPERATION

This is a single counterbalance (A port) HIC with shuttle that mounts to DH motors with manifold mount porting.

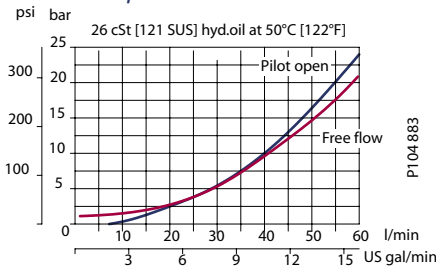
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



P104-883

Specifications

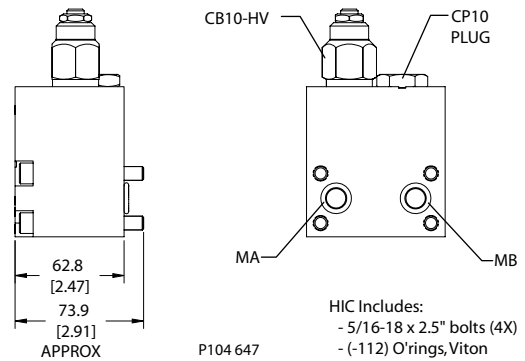
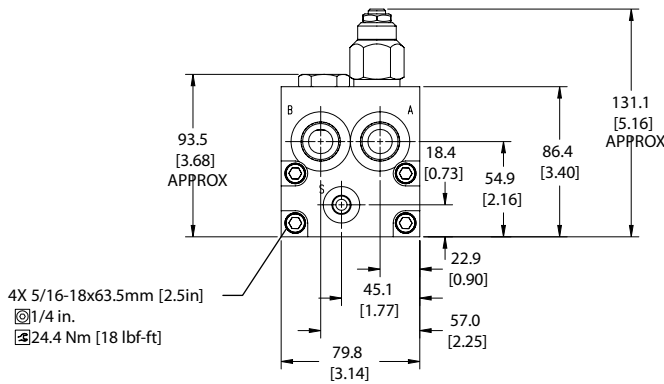
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit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

Motor mount HICs
MM-DH-LS-ACB10-HV

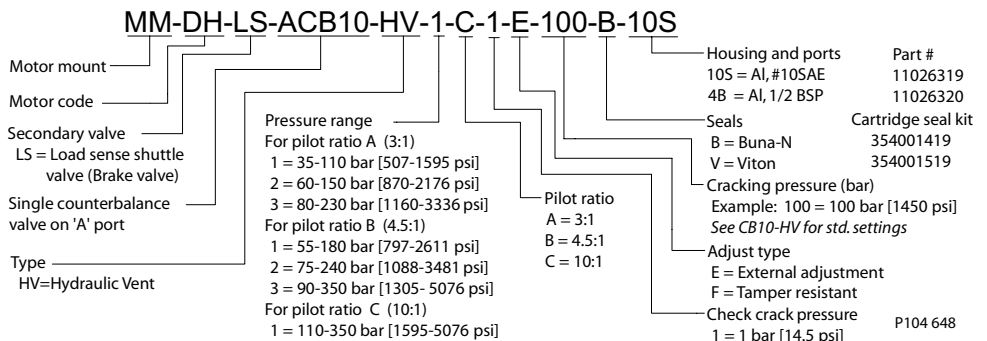
DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION





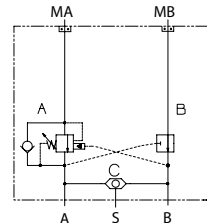
Cartridge Valves Technical Information

Motor mount HICs MM-DS-LS-ACB10-HV

OPERATION

This is a single counterbalance (A port) HIC with shuttle that mounts to DS motors with manifold mount porting.

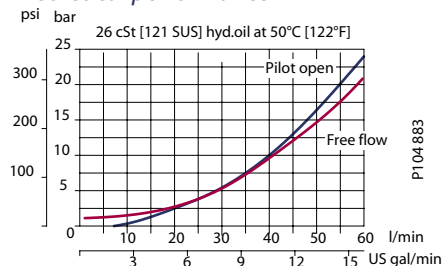
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



P104883

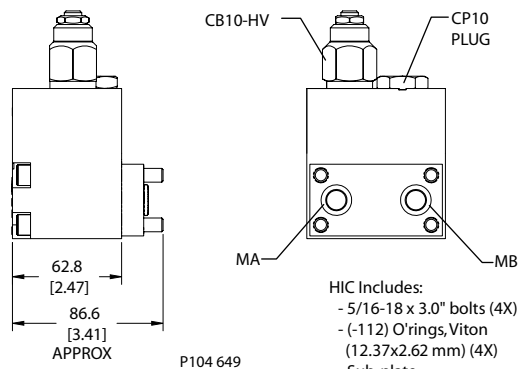
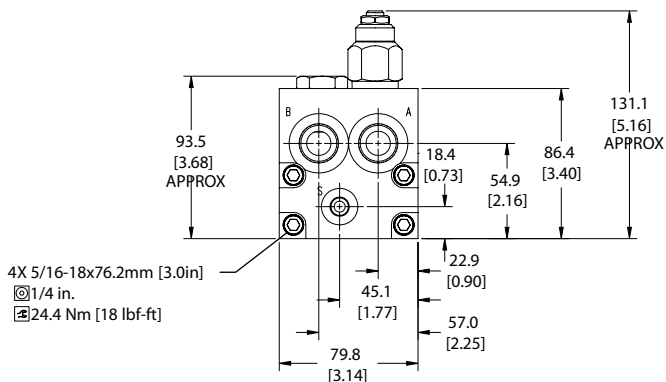
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 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

DIMENSIONS

Cross-sectional view

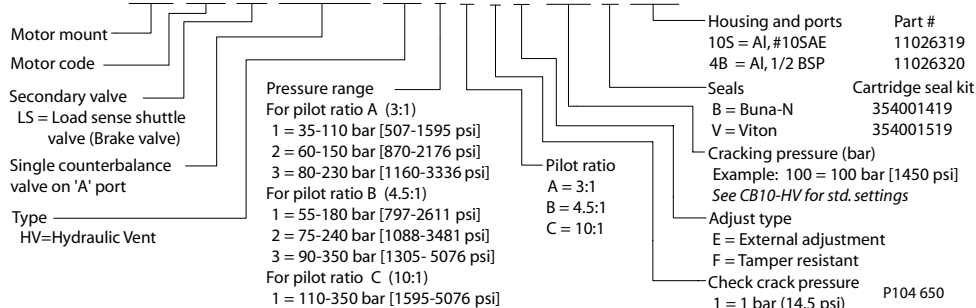
mm [in]



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ORDERING INFORMATION

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





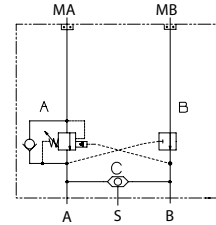
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-ACB10-HV

OPERATION

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

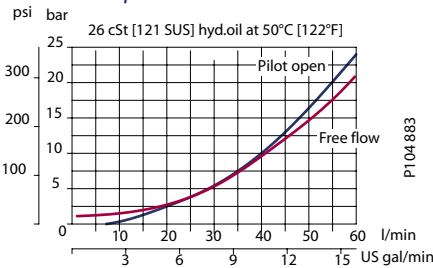
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



P104-883

Specifications

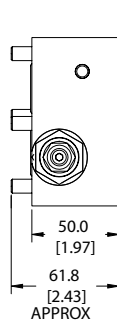
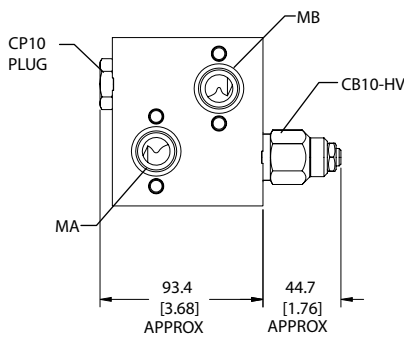
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit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

Motor mount HICs
MM-OMP/OMR-LS-ACB10-HV

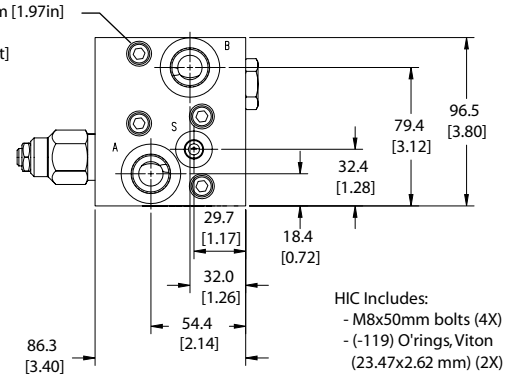
DIMENSIONS

Cross-sectional view

mm [in]



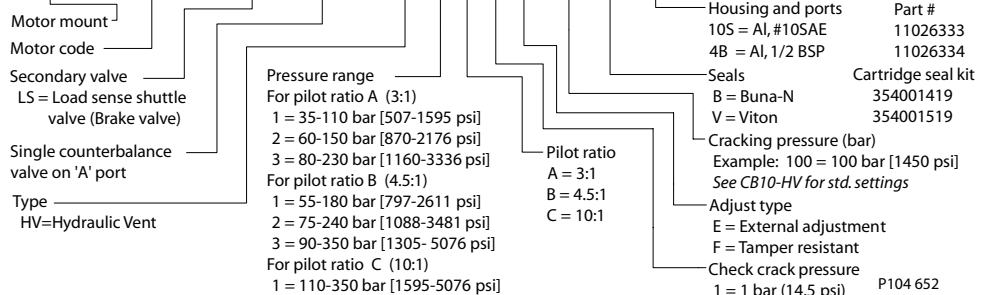
P104 651



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





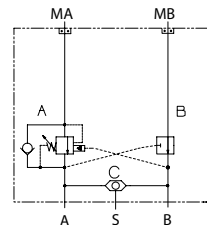
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-LS-ACP441-1

OPERATION

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

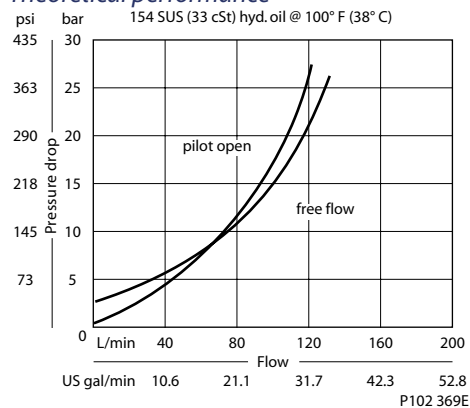
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



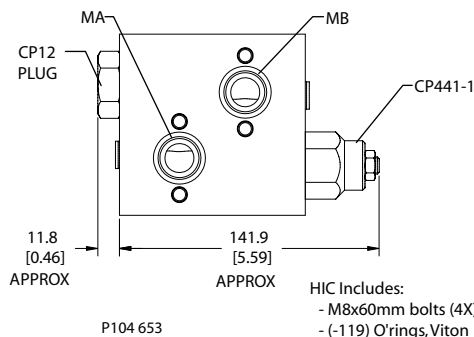
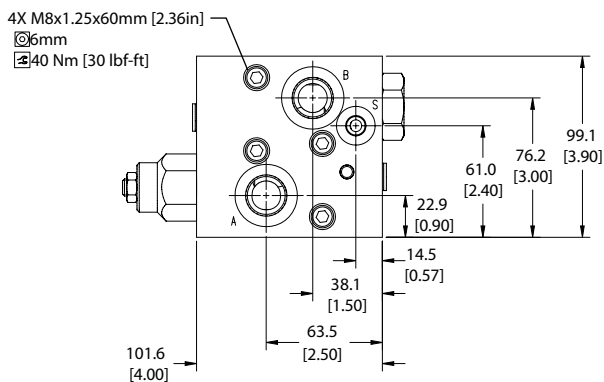
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 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

DIMENSIONS

Cross-sectional view

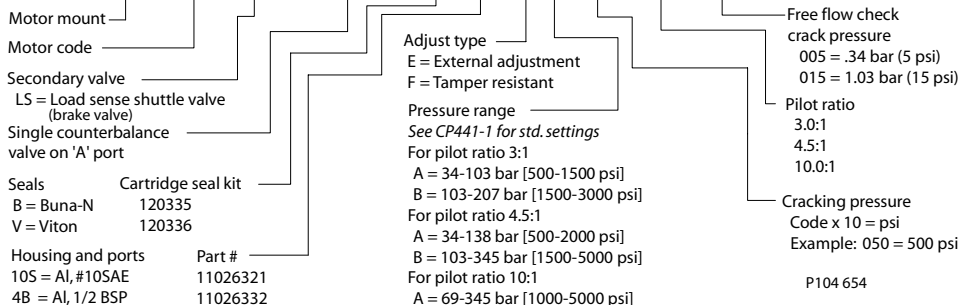
mm [in]



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

ORDERING INFORMATION

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





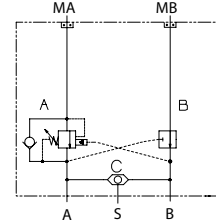
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-LS-ACP441-1

OPERATION

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

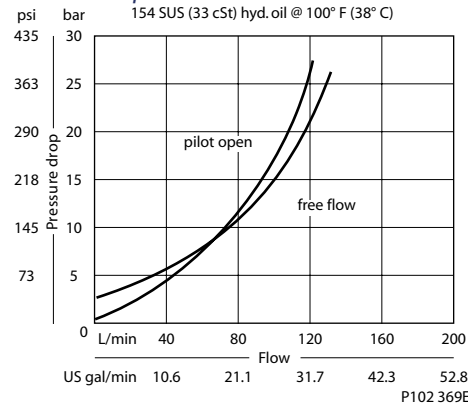
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



Specifications

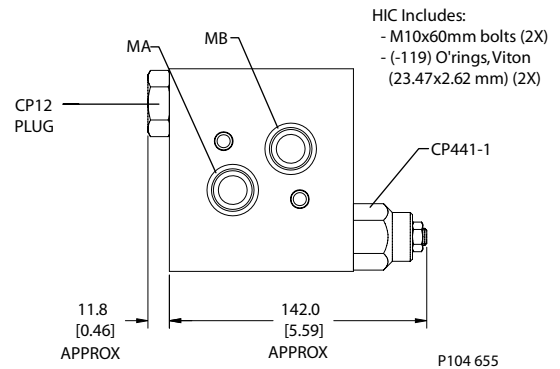
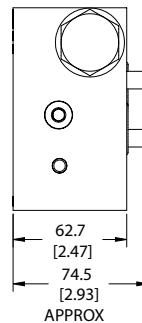
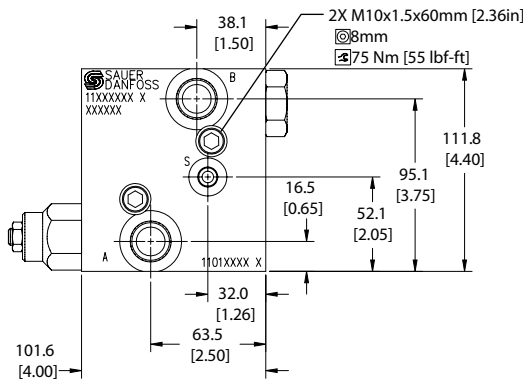
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit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

Motor mount HICs
MM-OMS-LS-ACP441-1

DIMENSIONS

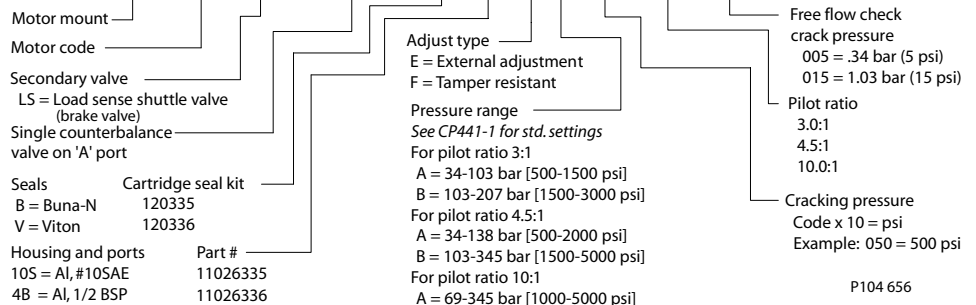
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





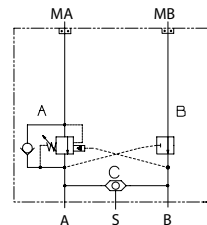
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-LS-ACP441-1

OPERATION

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

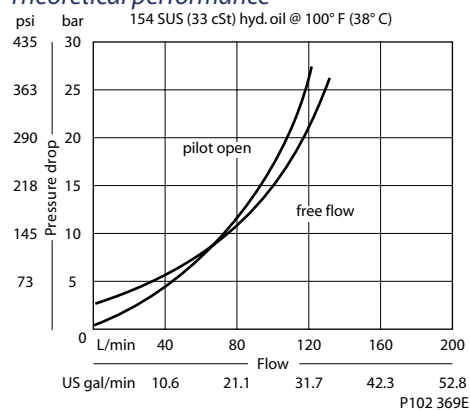
Schematic



P104 646

SPECIFICATIONS

Theoretical performance



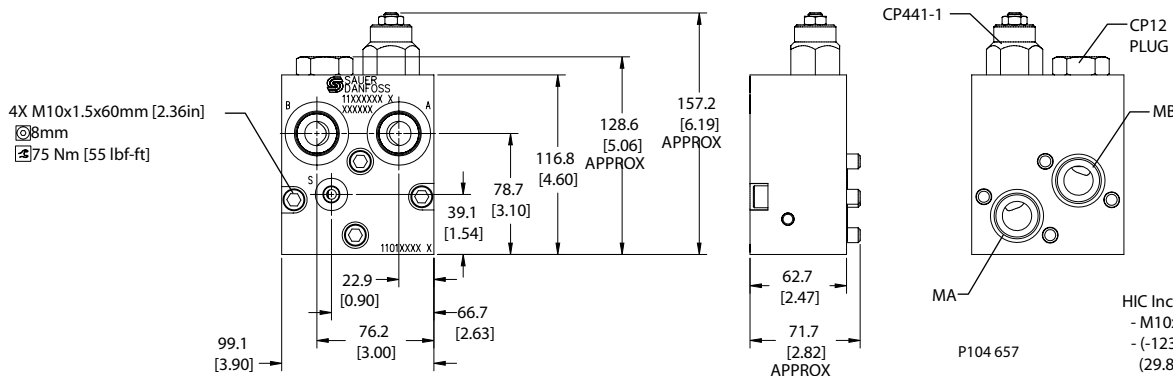
Specifications

Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 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

DIMENSIONS

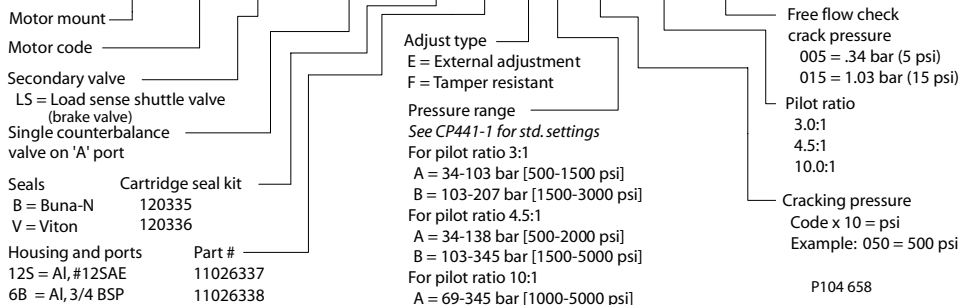
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





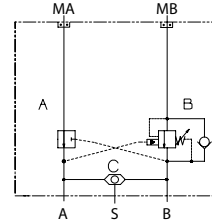
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-BCB10-HV

OPERATION

This is a single counterbalance (B port) HIC with shuttle that mounts to DH motors with manifold mount porting.

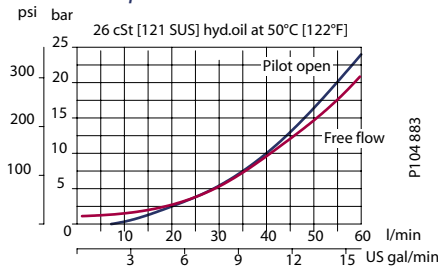
Schematic



P104 659

SPECIFICATIONS

Theoretical performance



Specifications

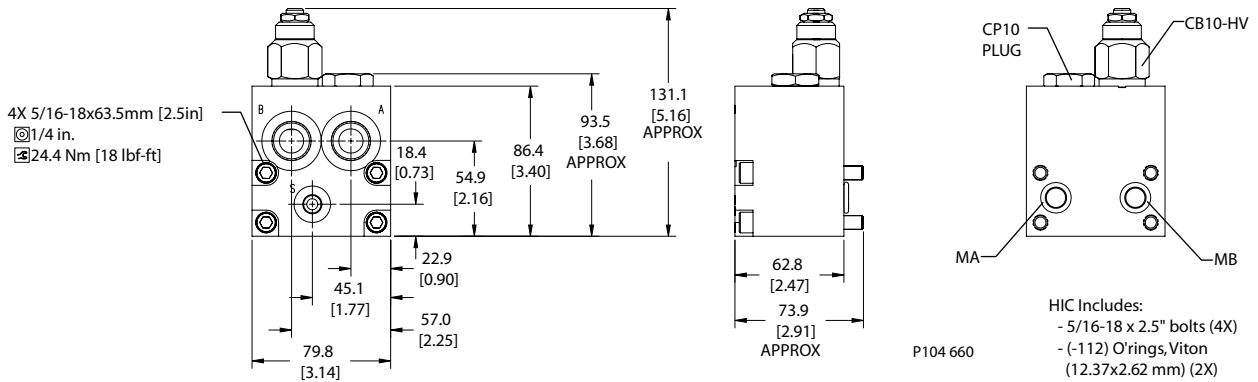
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.49 kg [3.28 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit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

Motor mount HICs
MM-DH-LS-BCB10-HV

DIMENSIONS

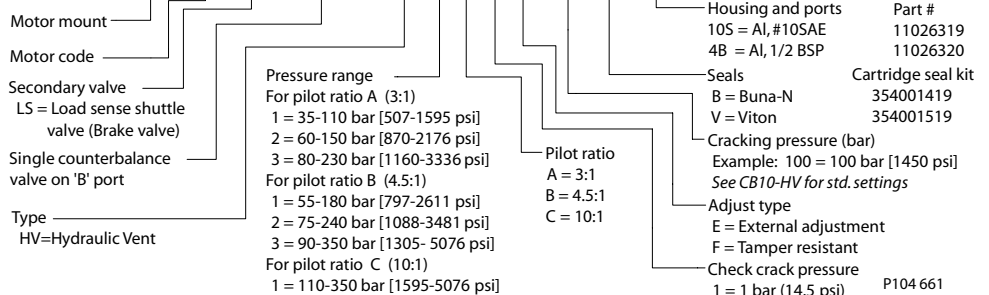
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





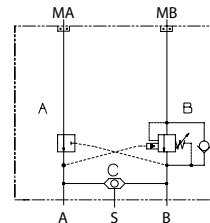
Cartridge Valves Technical Information

Motor mount HICs MM-DS-LS-BCB10-HV

OPERATION

This is a single counterbalance (B port) HIC with shuttle that mounts to DS motors with manifold mount porting.

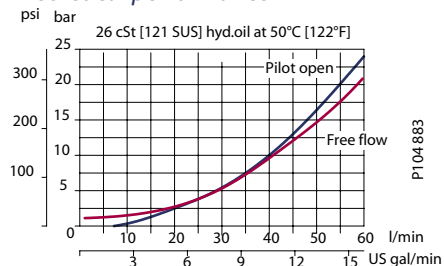
Schematic



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SPECIFICATIONS

Theoretical performance



P104883

Specifications

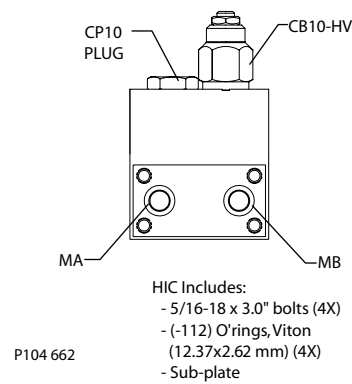
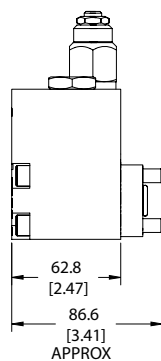
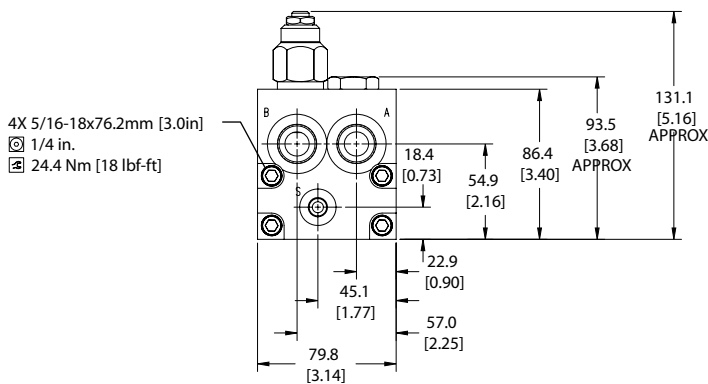
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.60 kg [3.53 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit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

Motor mount HICs
MM-DS-LS-BCB10-HV

DIMENSIONS

Cross-sectional view

mm [in]

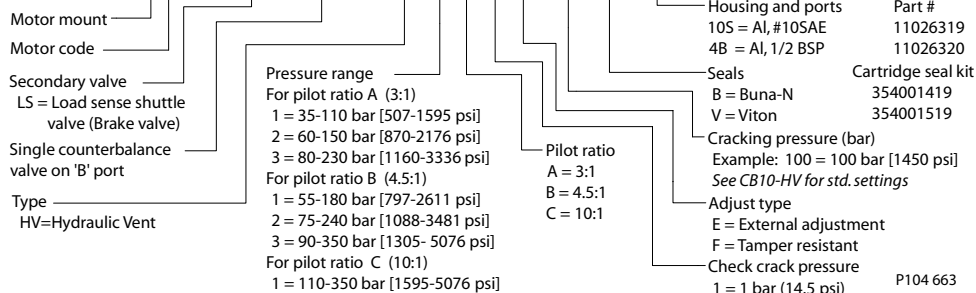


P104 662

- 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-BCB10-HV-1-C-1-E-100-B-10S





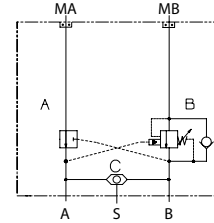
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-BCB10-HV

OPERATION

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

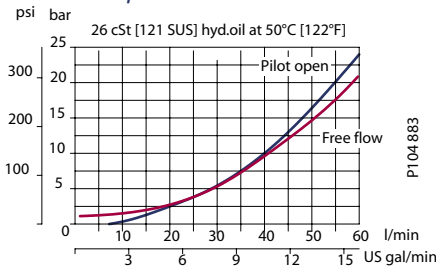
Schematic



P104 659

SPECIFICATIONS

Theoretical performance



Specifications

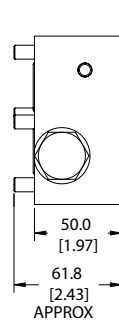
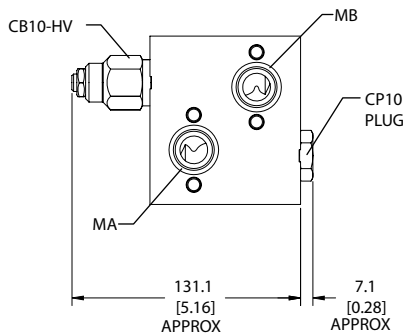
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	6 drops/min @ at 70% of crack pressure
Weight	1.44 kg [3.17 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CB10 HV
Shuttle	CP124-1
Plug	SDC10-V-3S-B1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit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

Motor mount HICs
MM-OMP/OMR-LS-BCB10-HV

DIMENSIONS

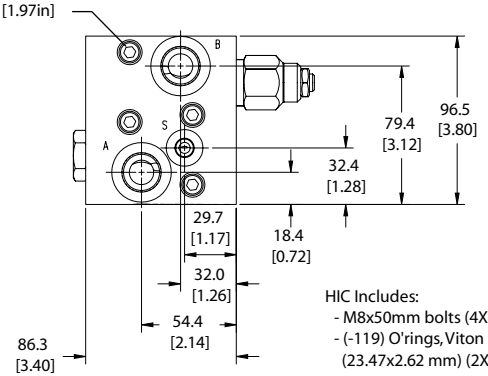
Cross-sectional view

mm [in]



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

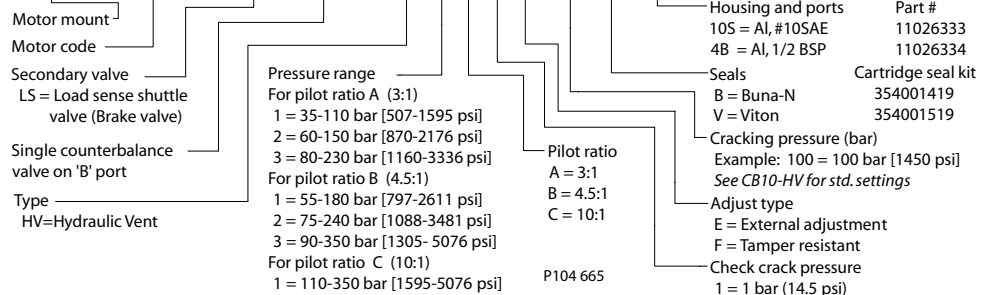
P104 664



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

ORDERING INFORMATION

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





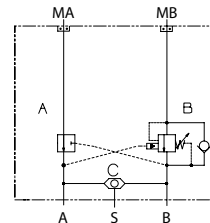
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-LS-BCP441-1

OPERATION

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

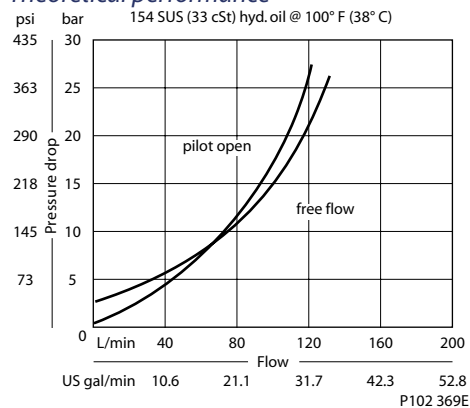
Schematic



P104 659

SPECIFICATIONS

Theoretical performance



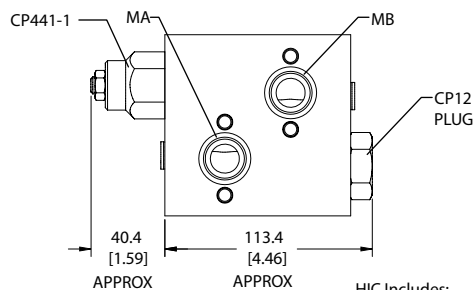
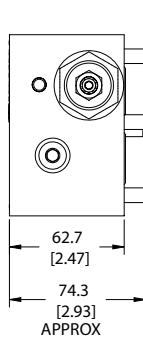
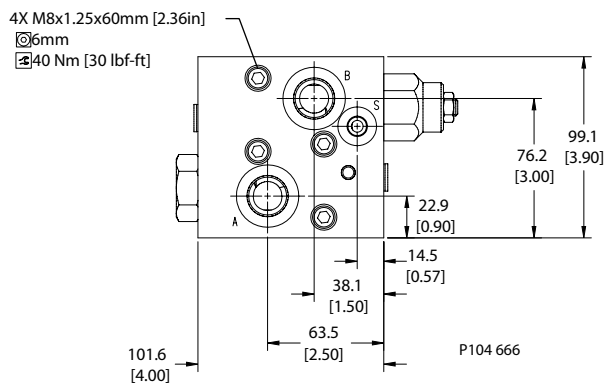
Specifications

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

DIMENSIONS

Cross-sectional view

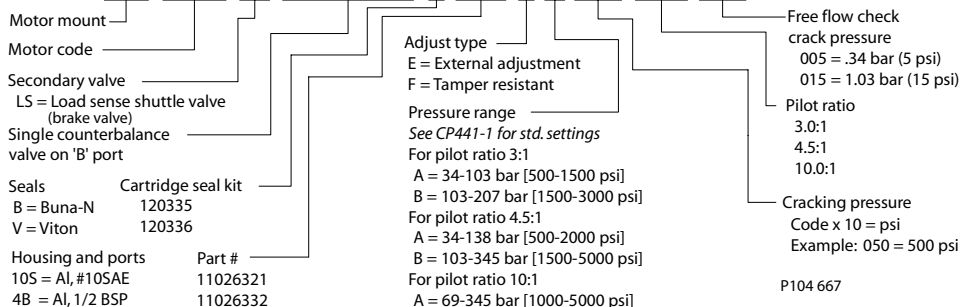
mm [in]



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





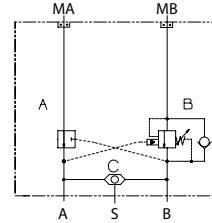
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-LS-BCP441-1

OPERATION

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

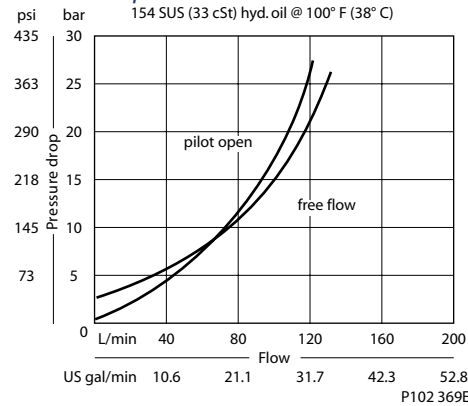
Schematic



P104 659

SPECIFICATIONS

Theoretical performance



Specifications

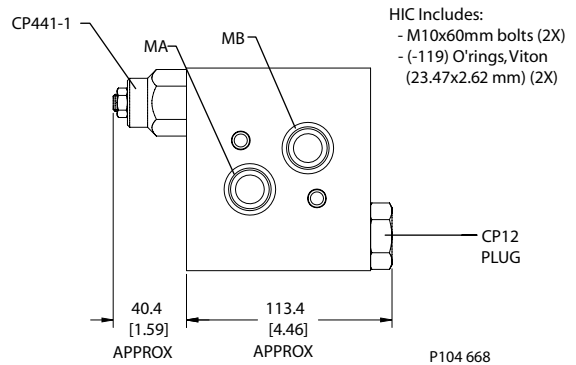
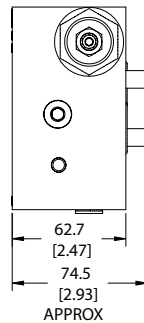
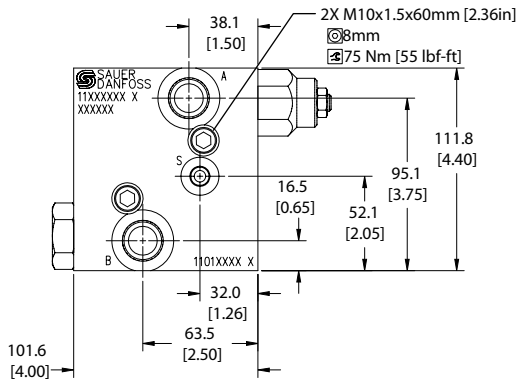
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.13 kg [4.70 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit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

Motor mount HICs
MM-OMS-LS-BCP441-1

DIMENSIONS

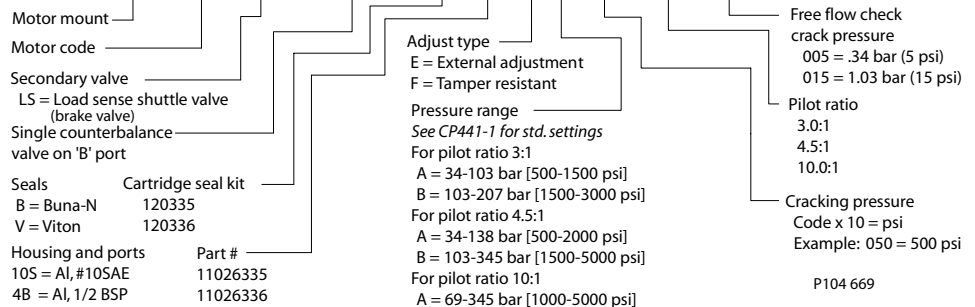
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





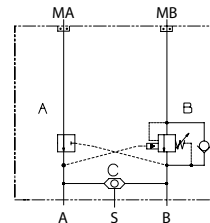
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-LS-BCP441-1

OPERATION

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

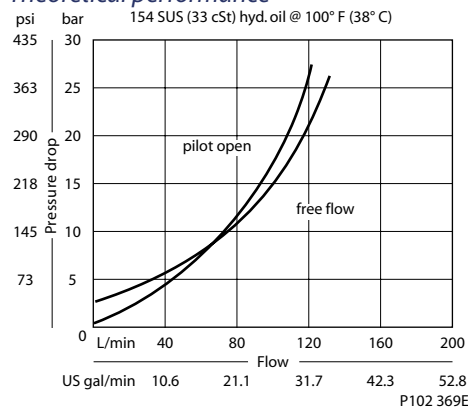
Schematic



P104 659

SPECIFICATIONS

Theoretical performance



Specifications

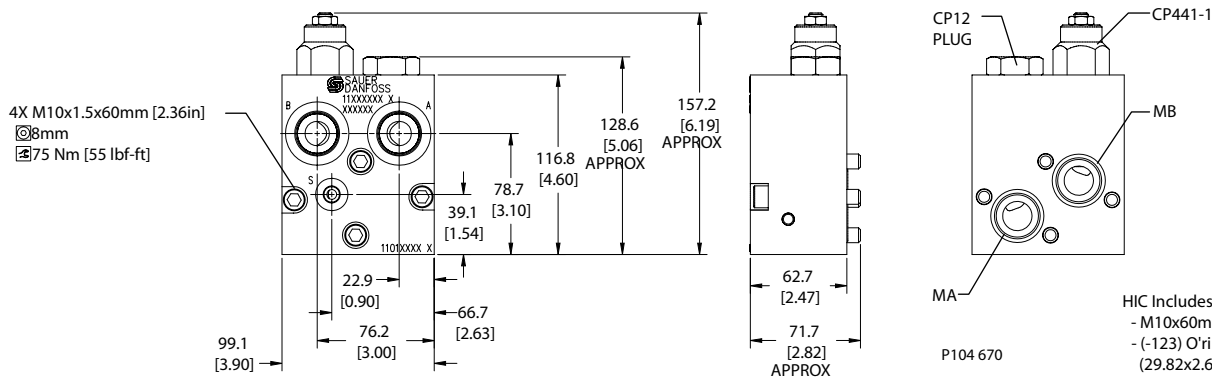
Rated pressure	210 bar [3045 psi]
Rated flow at 22 bar [319 psi]	115 l/min [30 US gal/min]
Leakage	10 drops/min @ at 70% of crack pressure
Weight	2.19 kg [4.83 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cartridge	CP441-1
Shuttle	CP124-1
Plug	CP12-V-3S-B1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit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

Motor mount HICs
MM-OMT-LS-BCP441-1

DIMENSIONS

Cross-sectional view

mm [in]

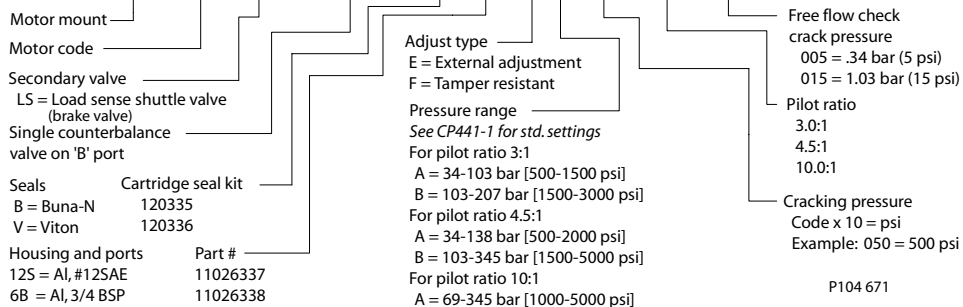


HIC Includes:
- M10x60mm bolts (4X)
- (-123) O'rings, Viton (29.82x2.62 mm) (2X)

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ORDERING INFORMATION

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



P104 671



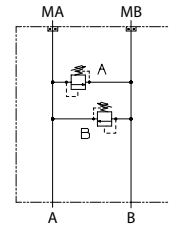
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-DVME06

OPERATION

This is a dual cross-port relief HIC that mounts to DH motors with manifold mount porting.

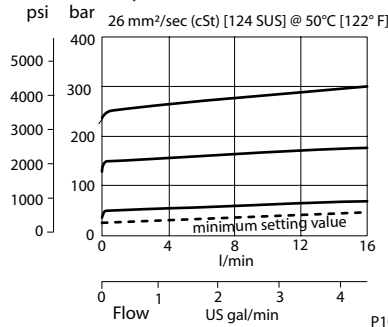
Schematic



P104 905

SPECIFICATIONS

Theoretical performance



Specifications

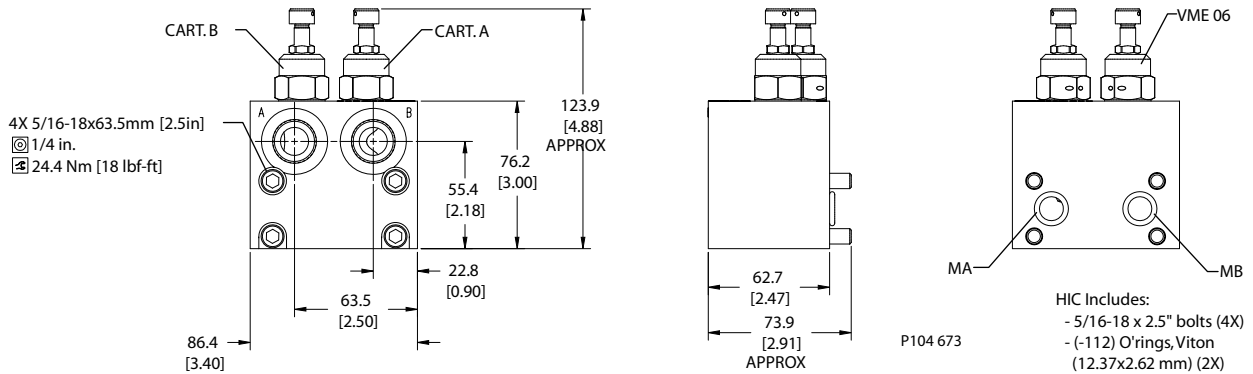
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-00-DVME06

DIMENSIONS

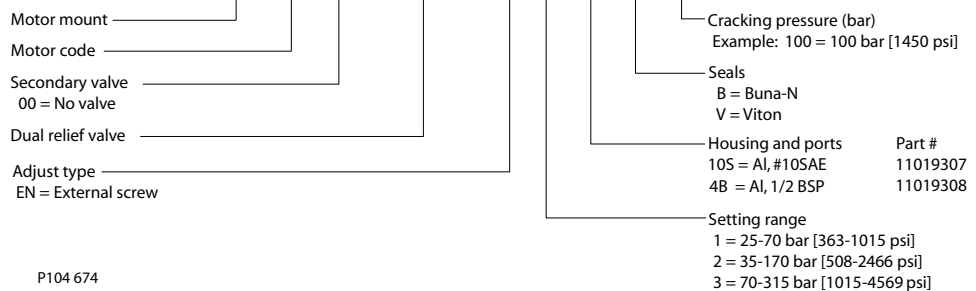
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





Cartridge Valves Technical Information

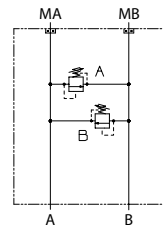
Motor mount HICs

MM-DS-00-DVME06

OPERATION

This is a dual cross-port relief HIC that mounts to DS motors with manifold mount porting.

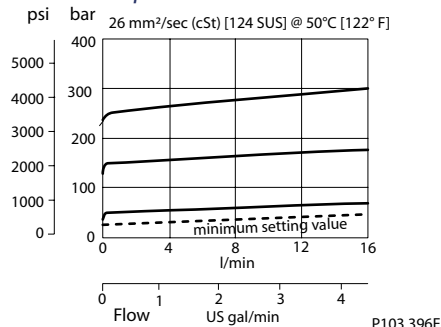
Schematic



P104 905

SPECIFICATIONS

Theoretical performance



Specifications

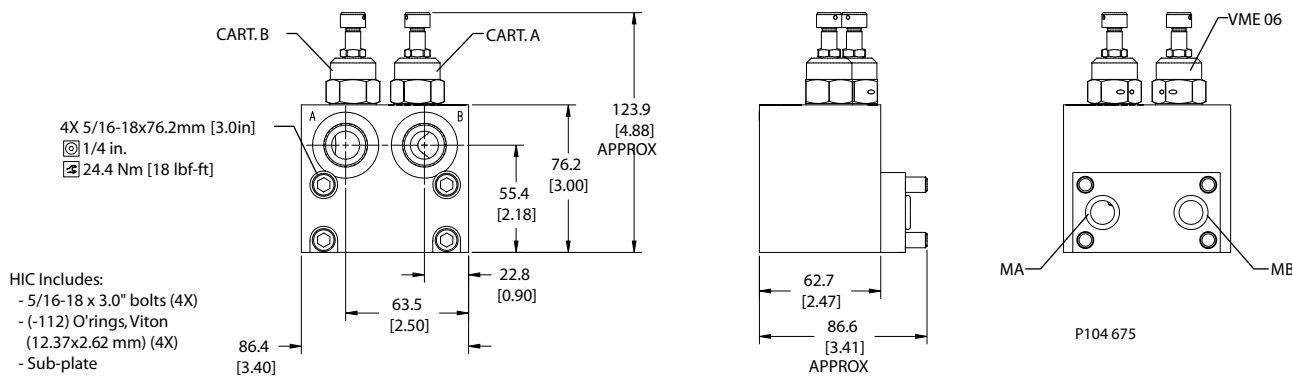
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-00-DVME06

DIMENSIONS

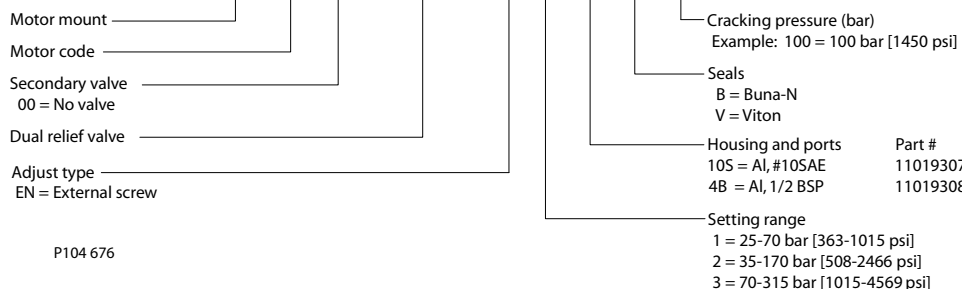
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





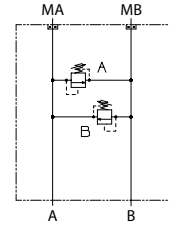
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-DVME06

OPERATION

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

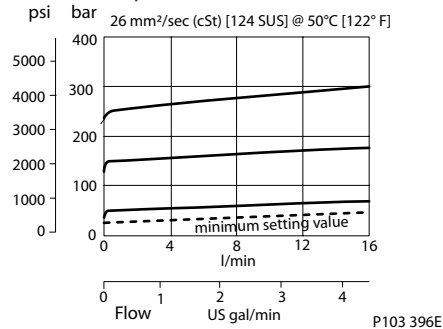
Schematic



P104 905

SPECIFICATIONS

Theoretical performance



Specifications

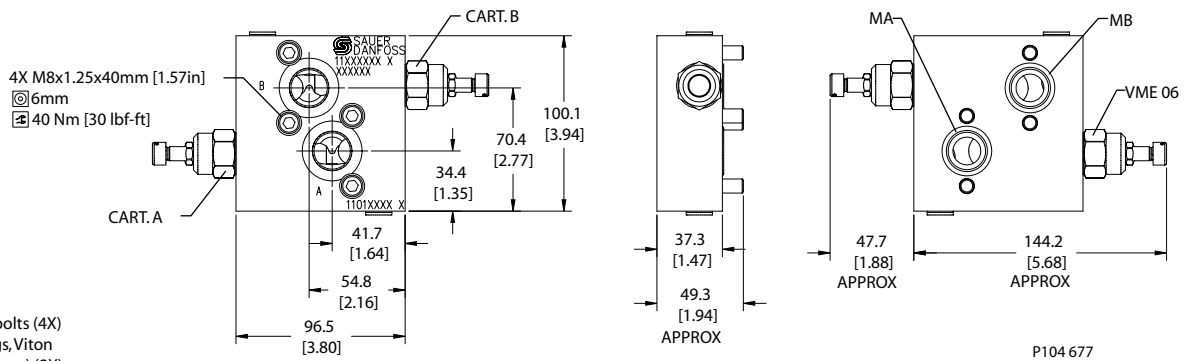
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-DVME06

DIMENSIONS

Cross-sectional view

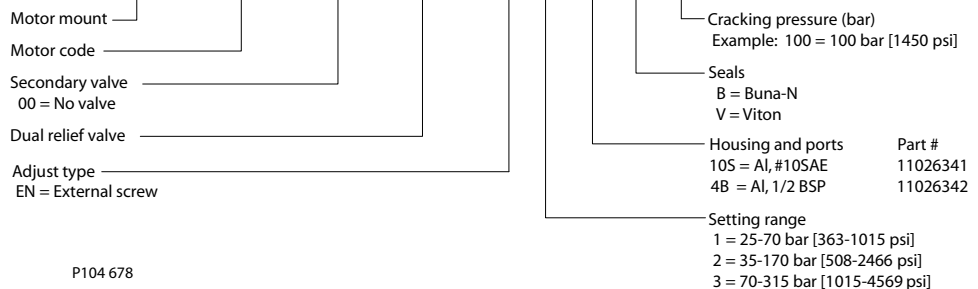
mm [in]



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





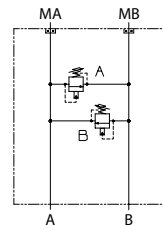
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-00-DCP211-2

OPERATION

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

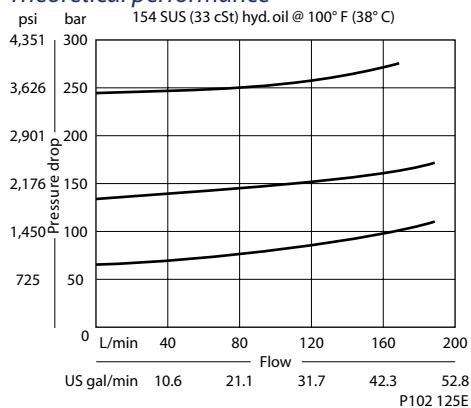
Schematic



P104 672

SPECIFICATIONS

Theoretical performance



Specifications

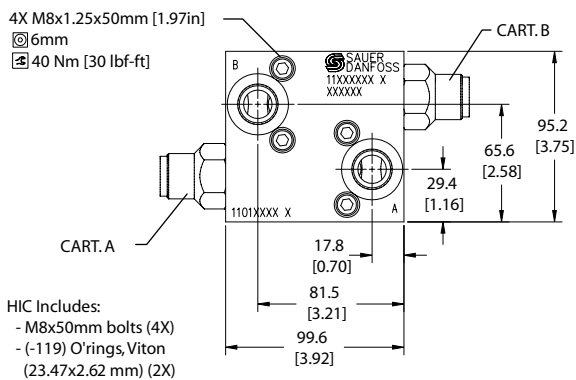
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.42 kg [3.13 lb]
Cartridge	CP211-2
Service mount kit	11023762
Motor	OMH

Motor mount HICs
MM-OMH-00-DCP211-2

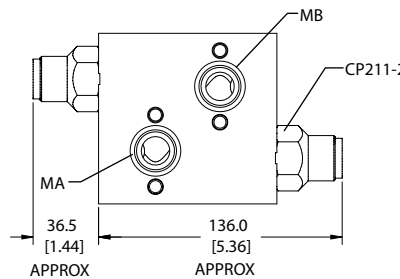
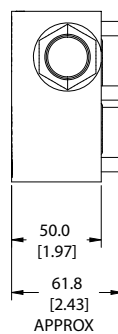
DIMENSIONS

Cross-sectional view

mm [in]



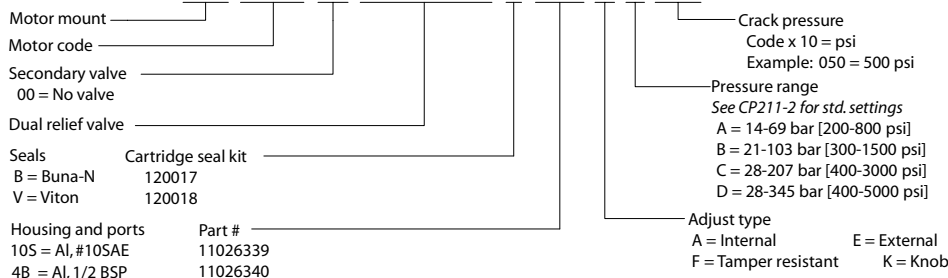
HIC Includes:
- M8x50mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 679

ORDERING INFORMATION

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



P104 680



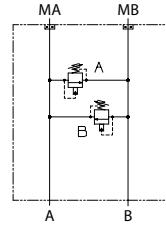
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-00-DCP211-2

OPERATION

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

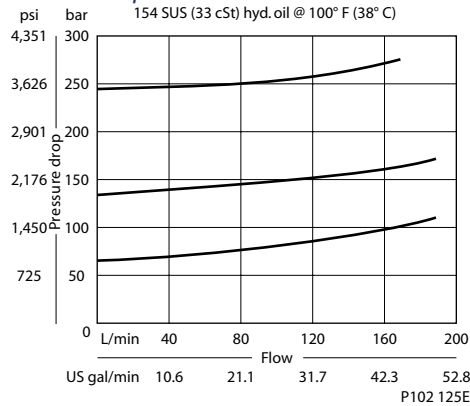
Schematic



P104 672

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] @ at 207 bar [3000 psi]
Weight	1.60 kg [3.53 lb]
Cartridge	CP211-2
Service mount kit	11023866
Motor	OMS

Motor mount HICs
MM-OMS-00-DCP211-2

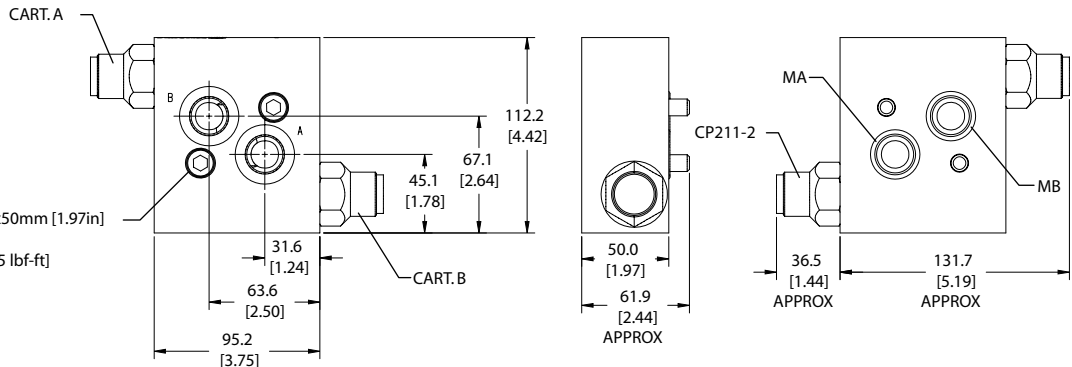
DIMENSIONS

Cross-sectional view

mm [in]

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

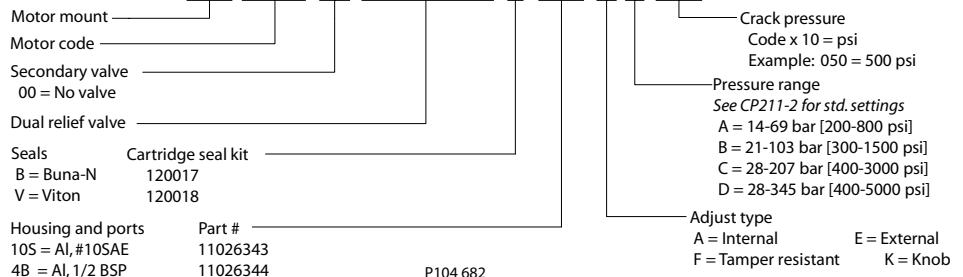
2X M10x1.5x50mm [1.97in]
⌀8mm
75 Nm [55 lbf-ft]



P104 681

ORDERING INFORMATION

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



P104 682



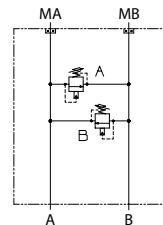
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-00-DCP211-2

OPERATION

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

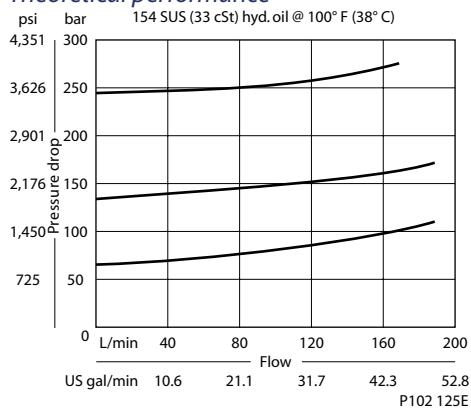
Schematic



P104 672

SPECIFICATIONS

Theoretical performance



Specifications

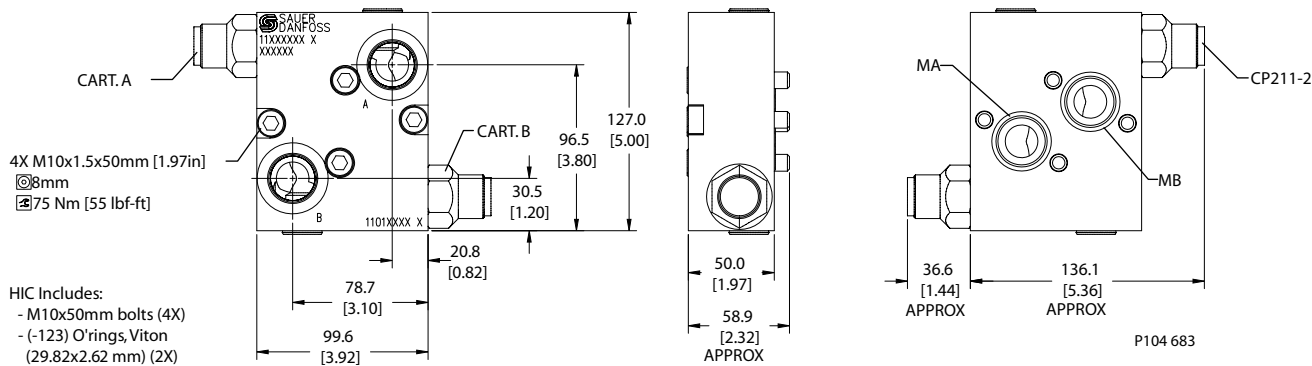
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Service mount kit	11023870
Motor	OMT

Motor mount HICs
MM-OMT-00-DCP211-2

DIMENSIONS

Cross-sectional view

mm [in]

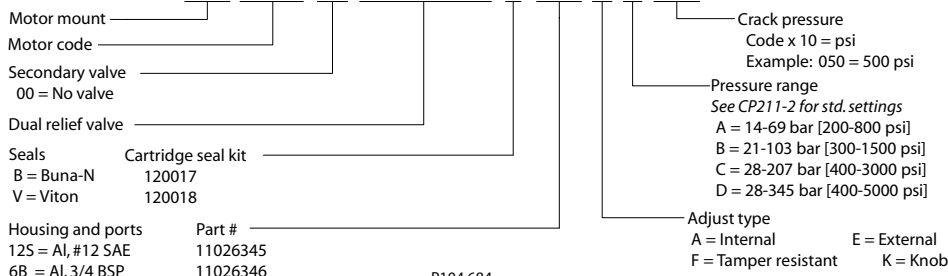


HIC Includes:
- M10x50mm bolts (4X)
- (-123) O'rings, Viton (29.82x2.62 mm) (2X)

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ORDERING INFORMATION

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



P104 684



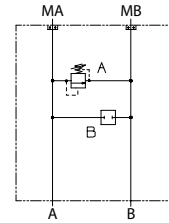
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-AVME06

OPERATION

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

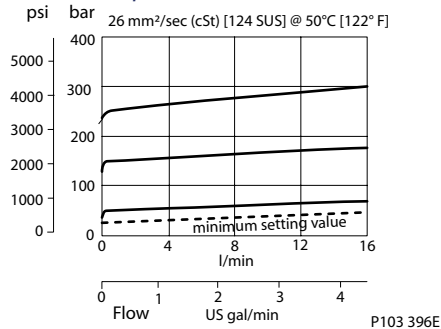
Schematic



P104 906

SPECIFICATIONS

Theoretical performance



Specifications

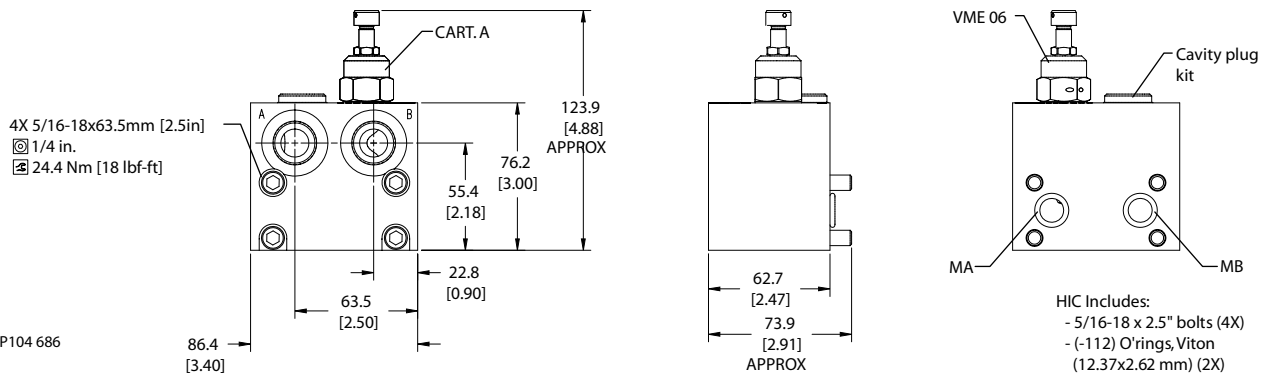
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Plug	11023862
Service mount kit	11026074
Motor	DH

Motor mount HICs
MM-DH-00-AVME06

DIMENSIONS

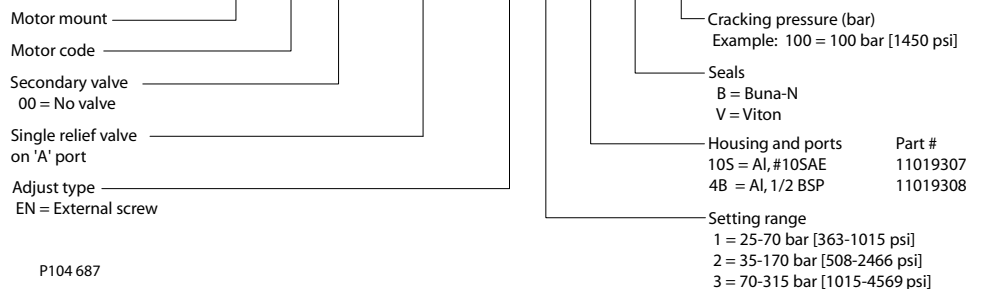
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





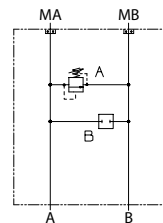
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-AVME06

OPERATION

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

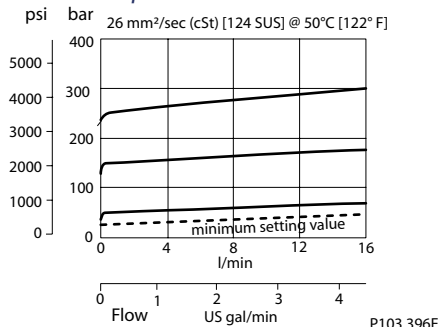
Schematic



P104 906

SPECIFICATIONS

Theoretical performance



Specifications

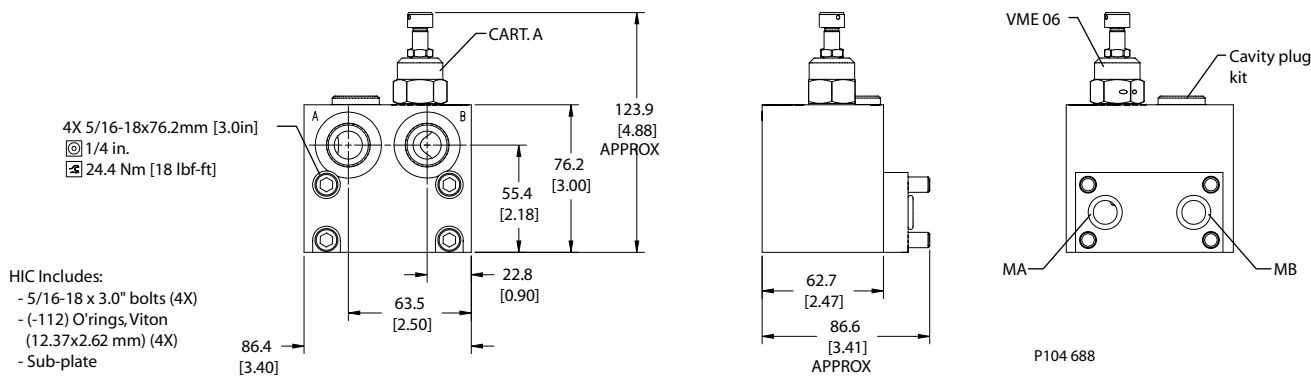
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-00-AVME06

DIMENSIONS

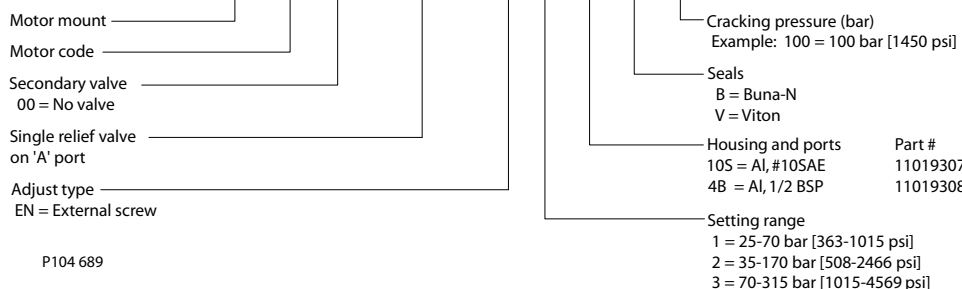
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





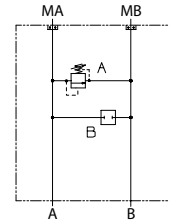
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-AVME06

OPERATION

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

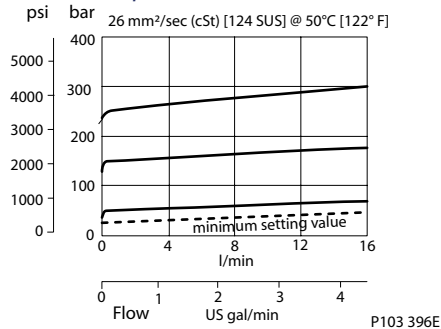
Schematic



P104 906

SPECIFICATIONS

Theoretical performance



P103 396E

Specifications

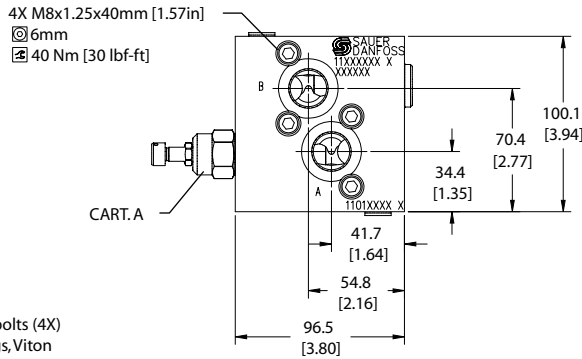
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-AVME06

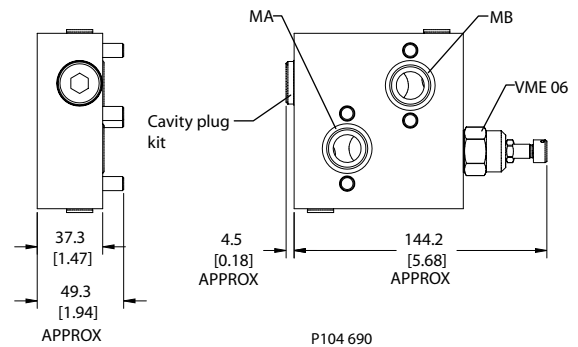
DIMENSIONS

Cross-sectional view

mm [in]



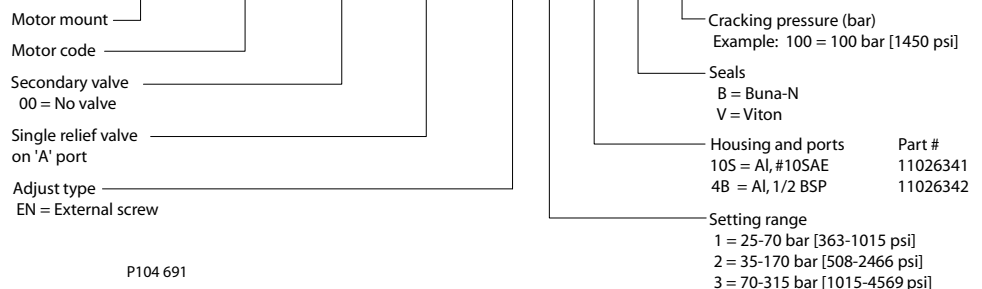
HIC Includes:
- M8x40mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 690

ORDERING INFORMATION

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



P104 691



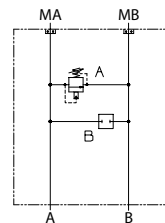
Cartridge Valves Technical Information

Motor mount HICs 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.

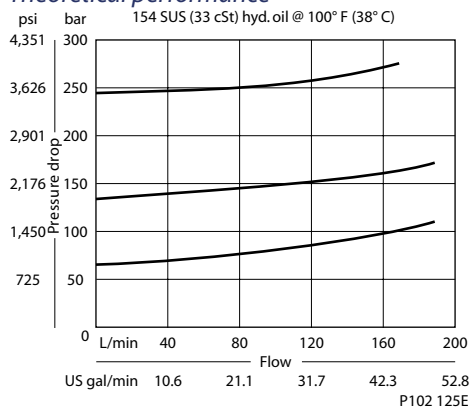
Schematic



P104 685

SPECIFICATIONS

Theoretical performance



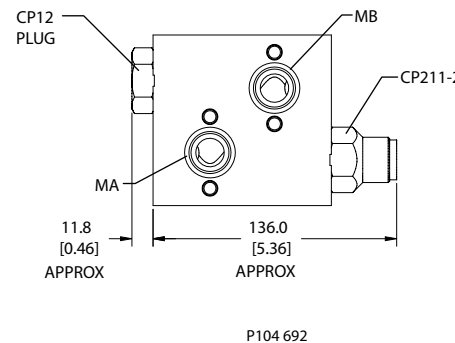
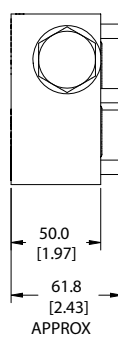
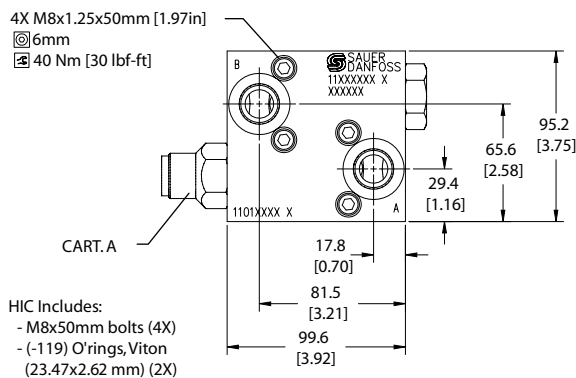
Specifications

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] @ at 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

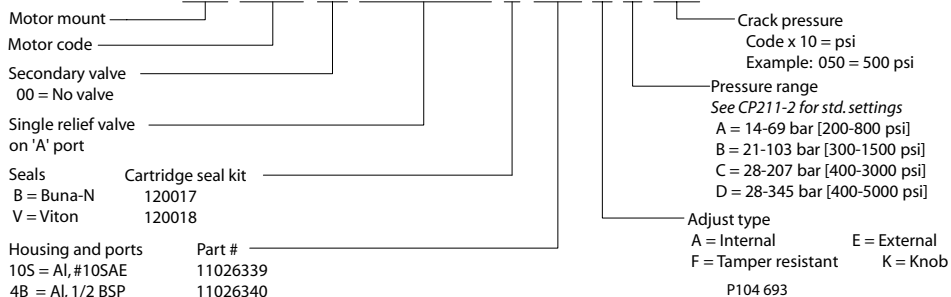
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





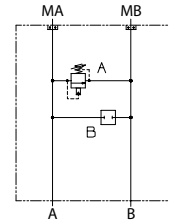
Cartridge Valves Technical Information

Motor mount HICs 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.

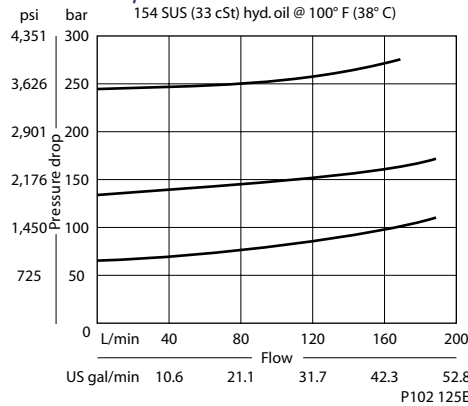
Schematic



P104 685

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] @ at 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

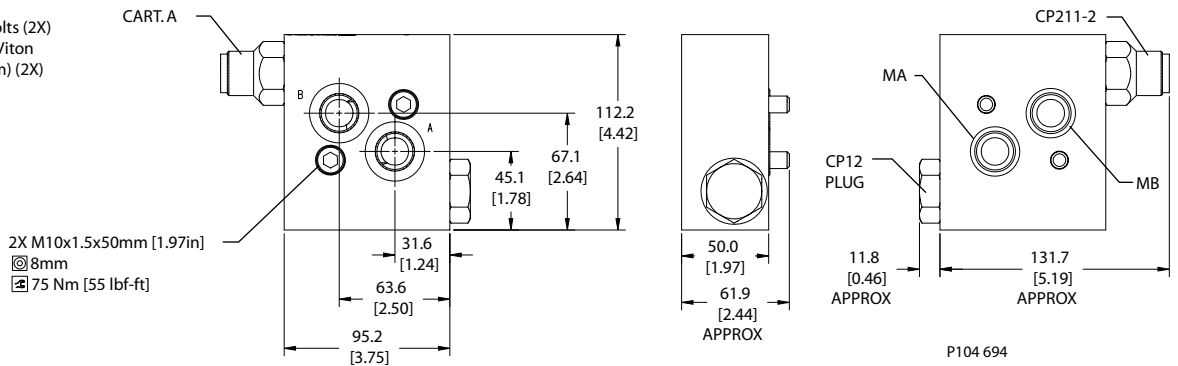
Motor mount HICs
MM-OMS-00-ACP211-2

DIMENSIONS

Cross-sectional view

mm [in]

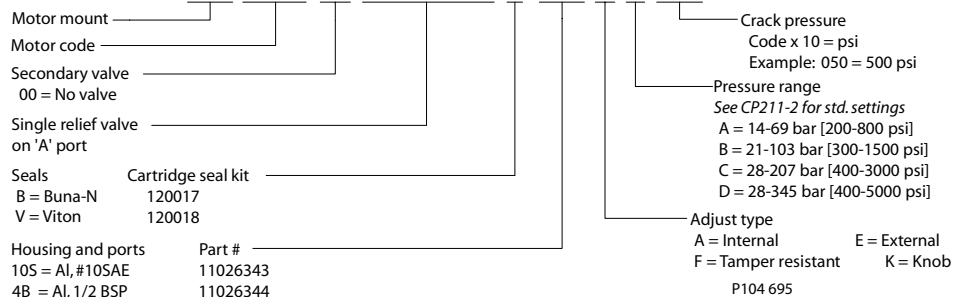
HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 694

ORDERING INFORMATION

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



P104 695



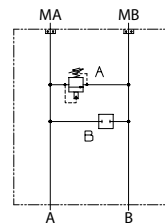
Cartridge Valves Technical Information

Motor mount HICs 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.

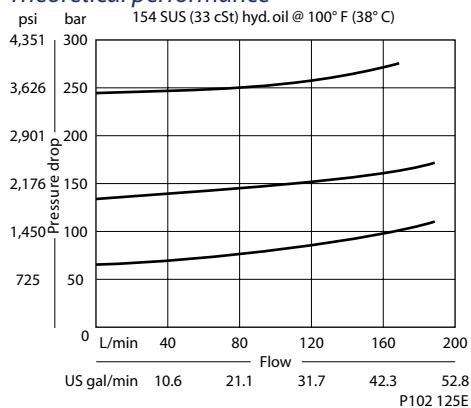
Schematic



P104 685

SPECIFICATIONS

Theoretical performance



Specifications

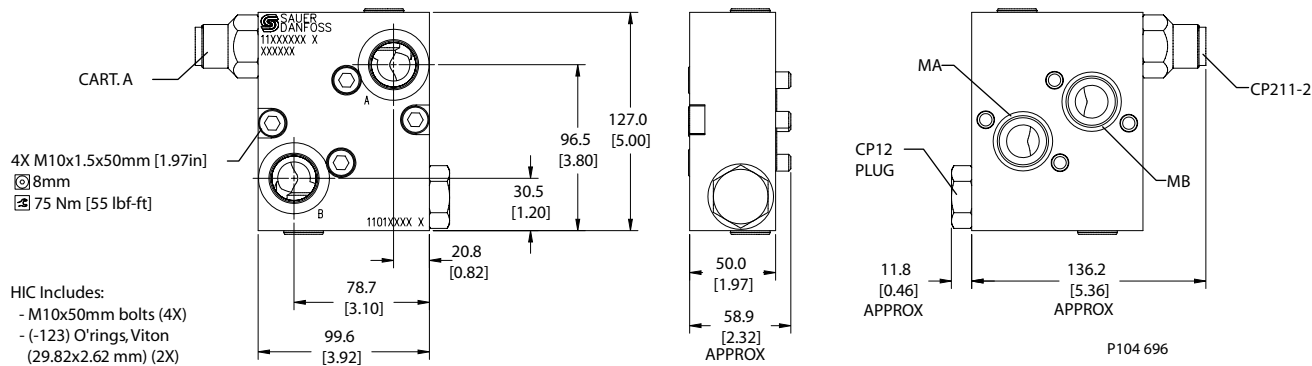
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023870
Motor	OMT

Motor mount HICs
MM-OMT-00-ACP211-2

DIMENSIONS

Cross-sectional view

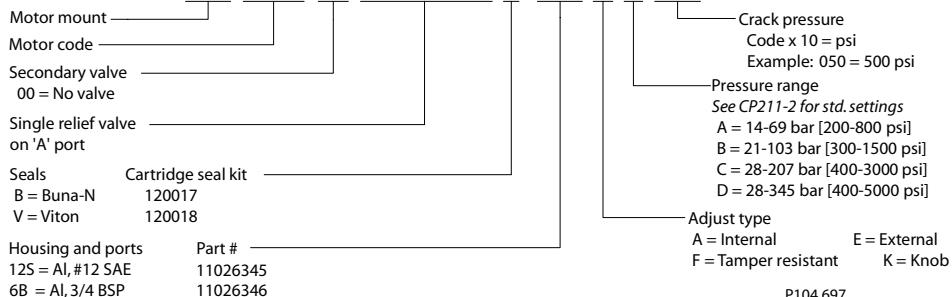
mm [in]



P104 696

ORDERING INFORMATION

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



P104 697



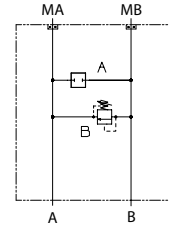
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-BVME06

OPERATION

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

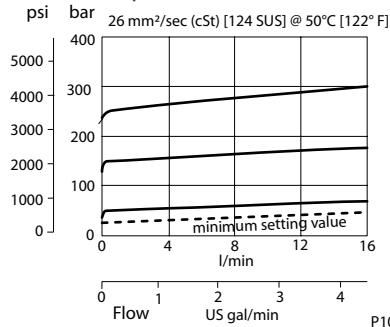
Schematic



P104 907

SPECIFICATIONS

Theoretical performance



Specifications

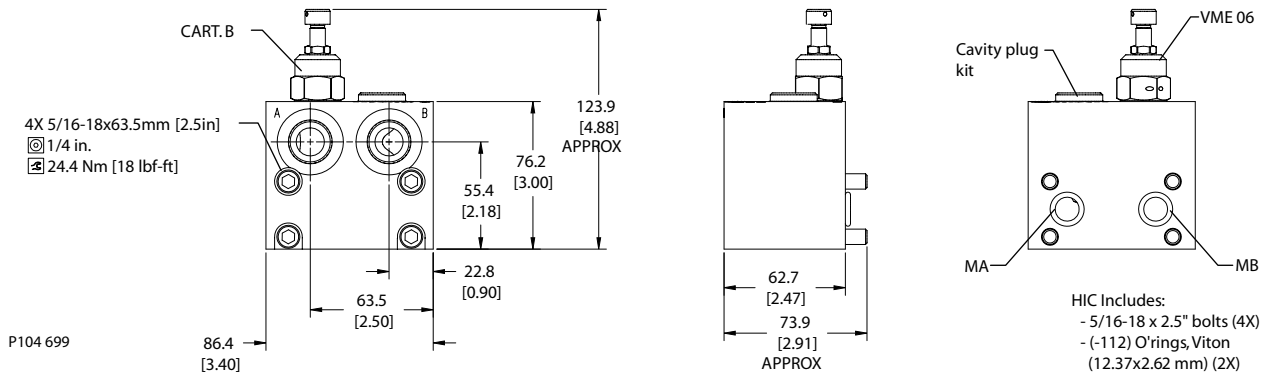
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-00-BVME06

DIMENSIONS

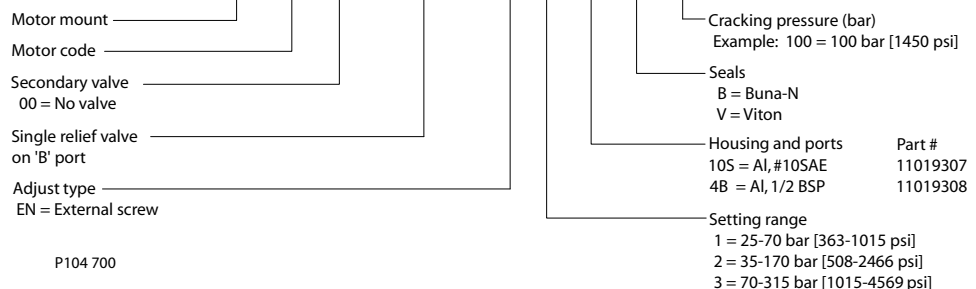
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





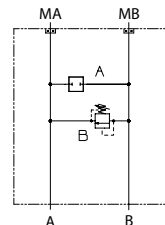
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-BVME06

OPERATION

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

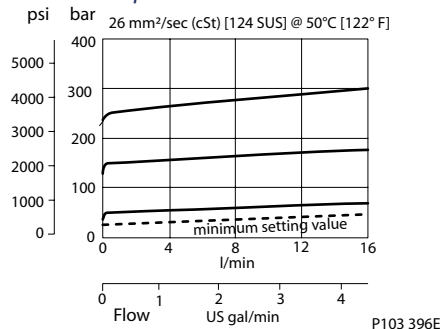
Schematic



P104 907

SPECIFICATIONS

Theoretical performance



Specifications

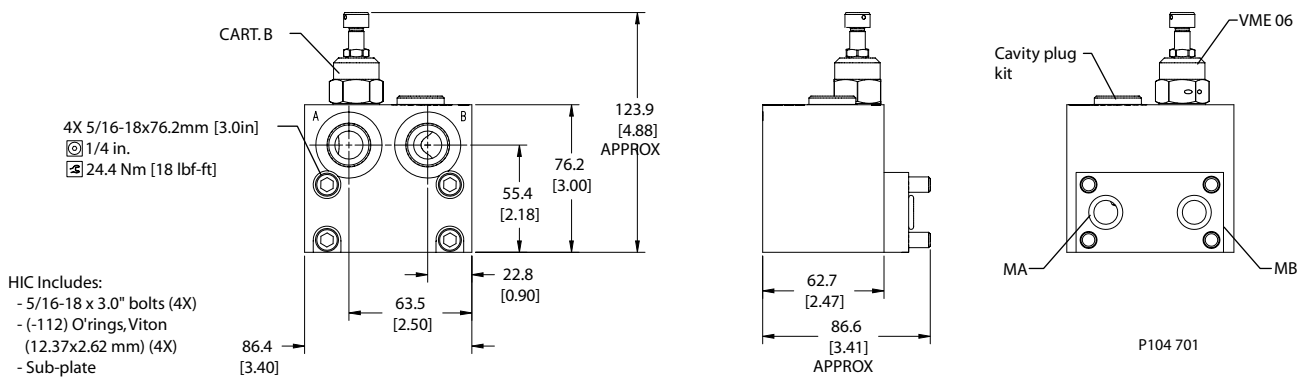
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-00-BVME06

DIMENSIONS

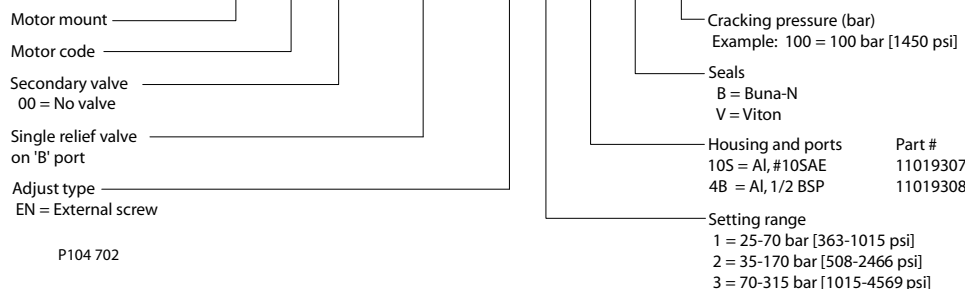
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





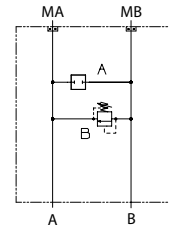
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-BVME06

OPERATION

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

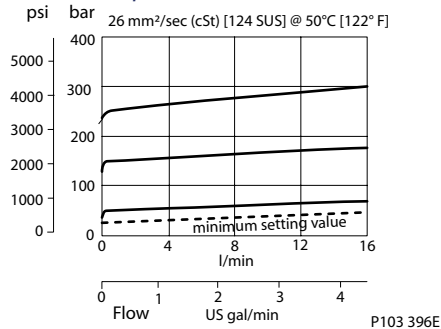
Schematic



P104 907

SPECIFICATIONS

Theoretical performance



Specifications

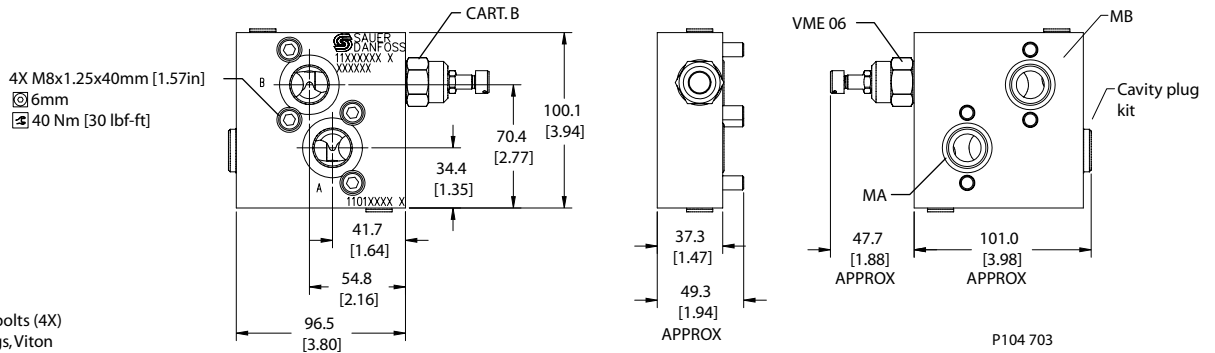
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.14 kg [2.51 lb]
Cartridge	VME 06
Plug	11026074
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-BVME06

DIMENSIONS

Cross-sectional view

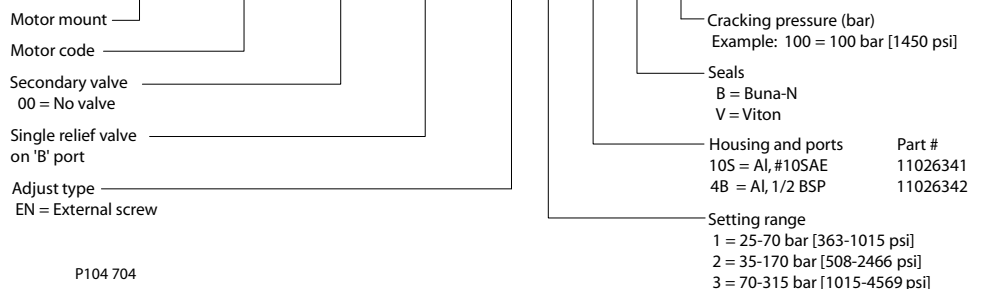
mm [in]



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





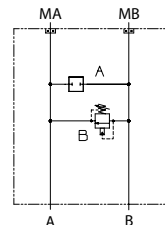
Cartridge Valves Technical Information

Motor mount HICs 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.

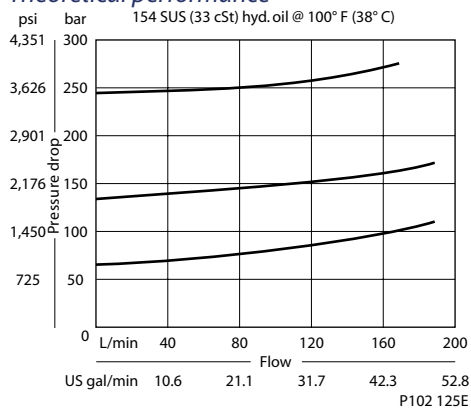
Schematic



P104 698

SPECIFICATIONS

Theoretical performance



Specifications

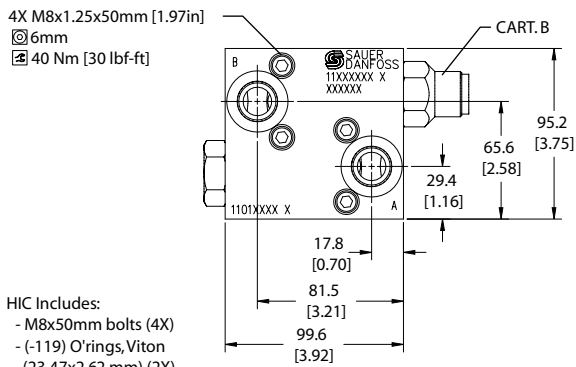
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.42 kg [3.13 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023162
Motor	OMH

Motor mount HICs
MM-OMH-00-BCP211-2

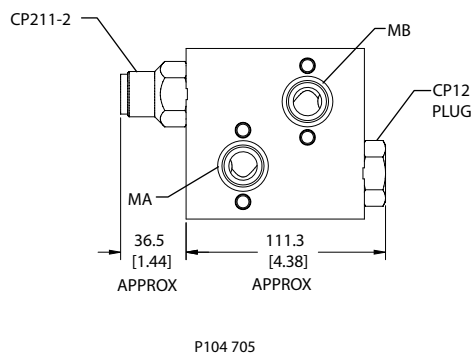
DIMENSIONS

Cross-sectional view

mm [in]



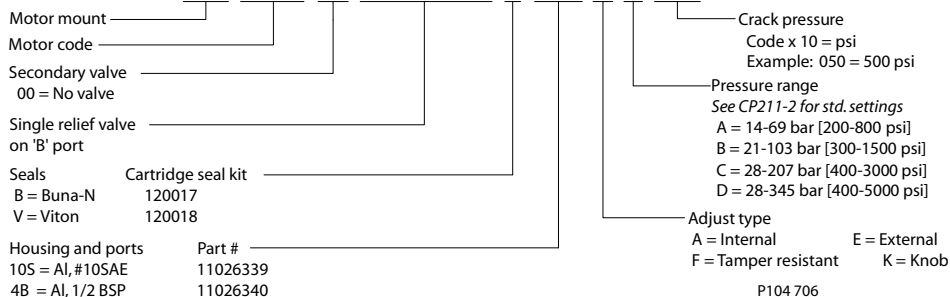
HIC Includes:
- M8x50mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 705

ORDERING INFORMATION

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



P104 706



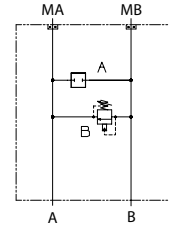
Cartridge Valves Technical Information

Motor mount HICs 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.

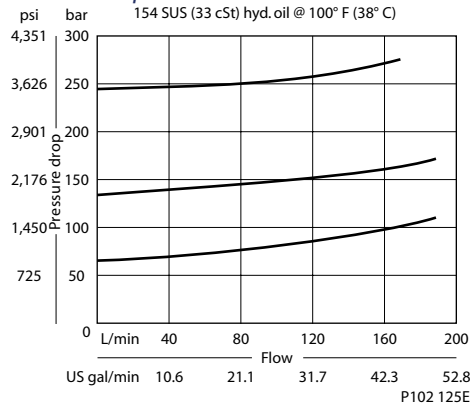
Schematic



P104 698

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] @ at 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

Motor mount HICs
MM-OMS-00-BCP211-2

DIMENSIONS

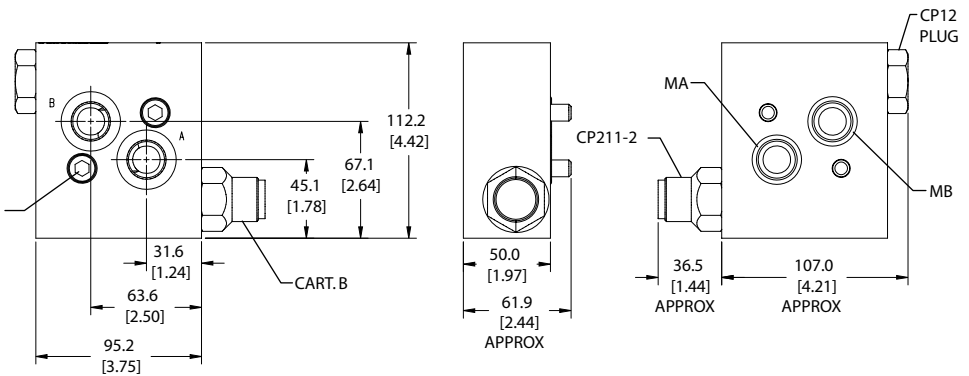
Cross-sectional view

mm [in]

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

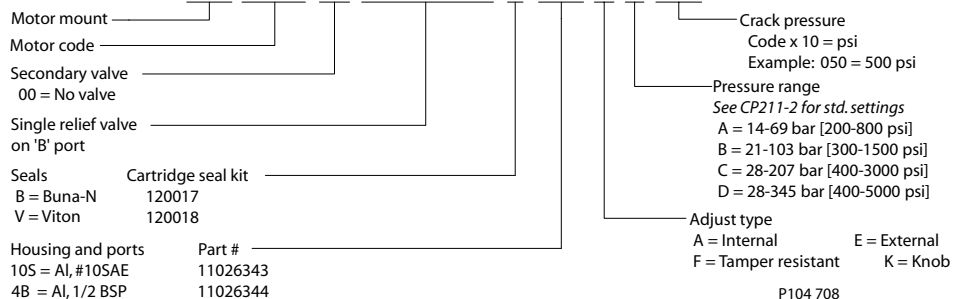
- 2X M10x1.5x50mm [1.97in]
 8mm
 75 Nm [55 lbf-ft]

P104 707



ORDERING INFORMATION

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



P104 708



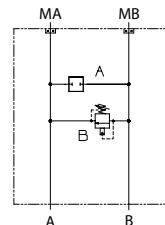
Cartridge Valves Technical Information

Motor mount HICs 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.

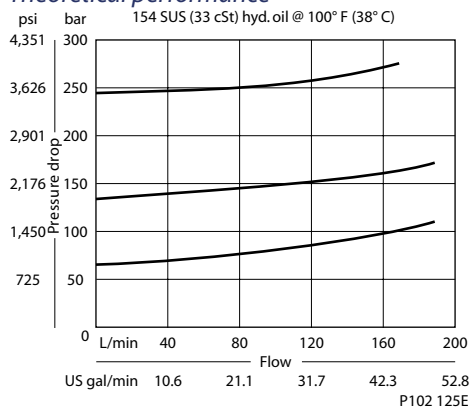
Schematic



P104 698

SPECIFICATIONS

Theoretical performance



Specifications

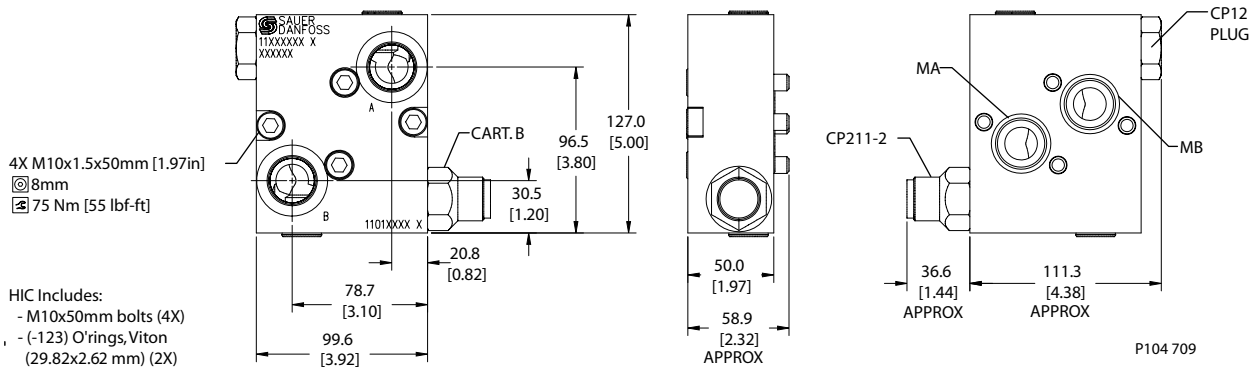
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.85 kg [4.08 lb]
Cartridge	CP211-2
Plug	CP12-V-2-B
Service mount kit	11023870
Motor	OMT

Motor mount HICs
MM-OMT-00-BCP211-2

DIMENSIONS

Cross-sectional view

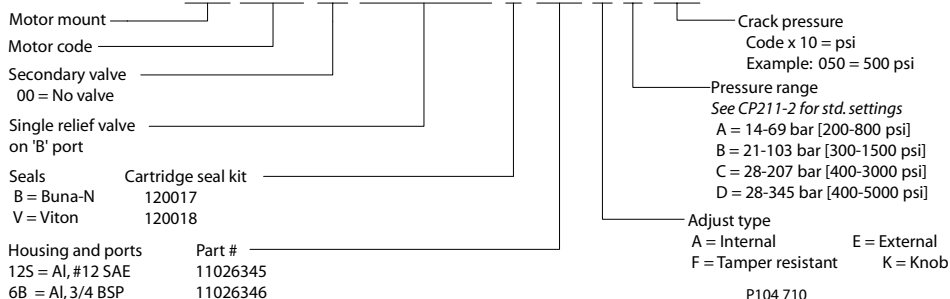
mm [in]



P104 709

ORDERING INFORMATION

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



P104 710



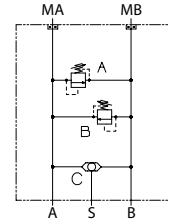
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-DVME06

OPERATION

This is a dual cross-port relief HIC with shuttle that mounts to DH motors with manifold mount porting.

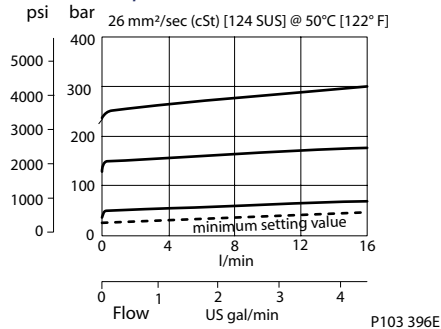
Schematic



P104 908

SPECIFICATIONS

Theoretical performance



Specifications

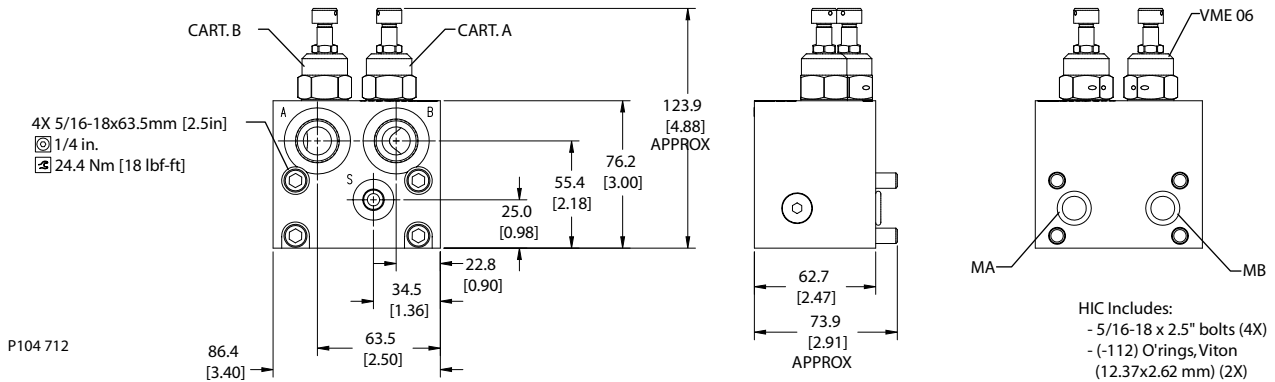
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-LS-DVME06

DIMENSIONS

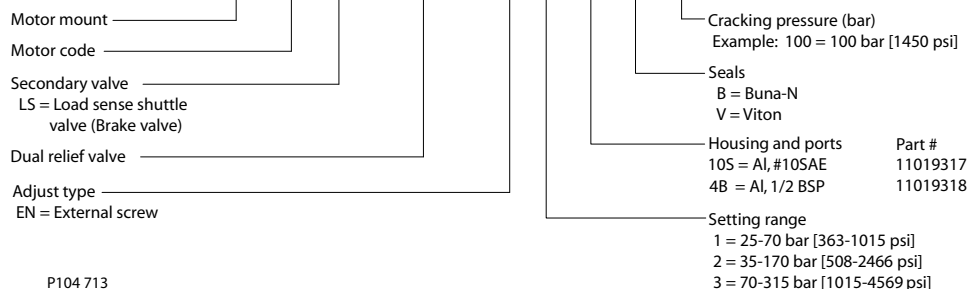
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





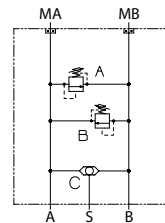
Cartridge Valves Technical Information

Motor mount HICs MM-DS-LS-DVME06

OPERATION

This is a dual cross-port relief HIC with shuttle that mounts to DS motors with manifold mount porting.

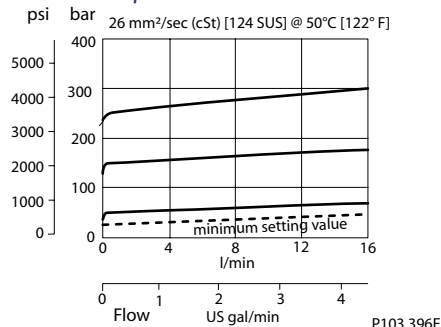
Schematic



P104 908

SPECIFICATIONS

Theoretical performance



Specifications

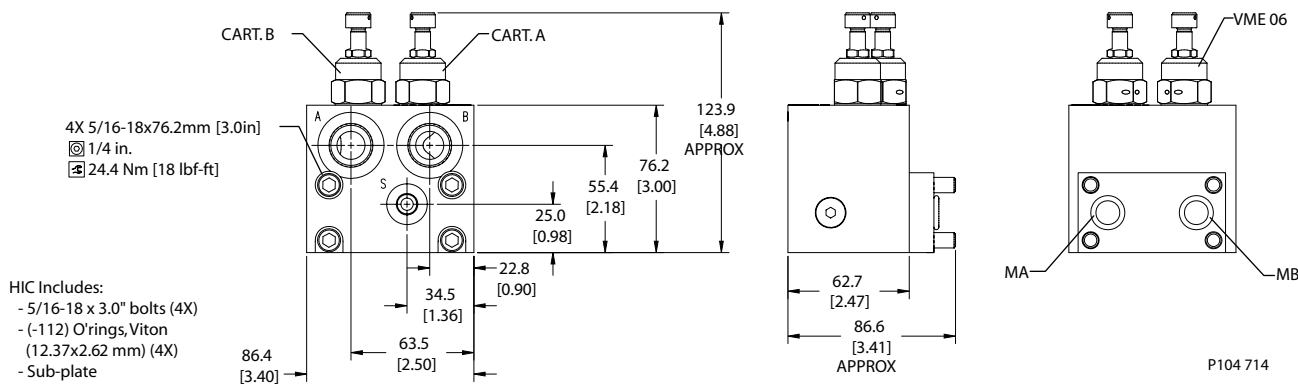
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-LS-DVME06

DIMENSIONS

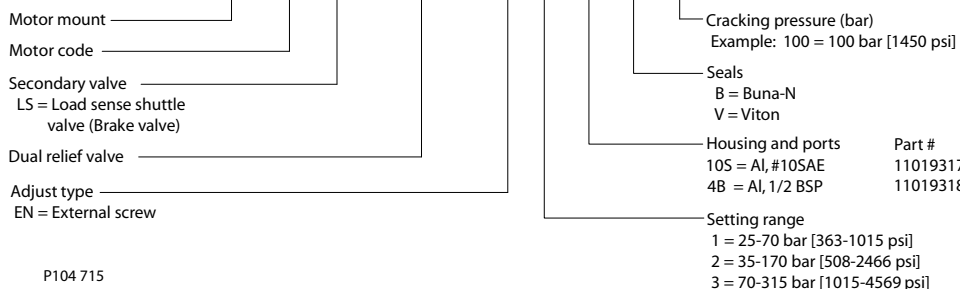
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





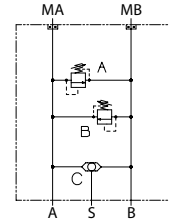
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-DVME06

OPERATION

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

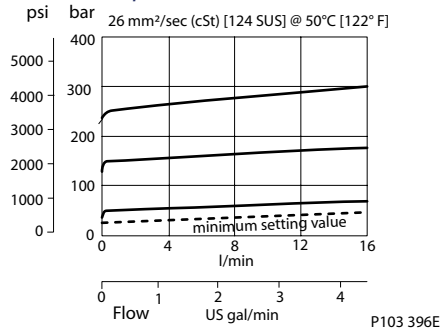
Schematic



P104 908

SPECIFICATIONS

Theoretical performance



Specifications

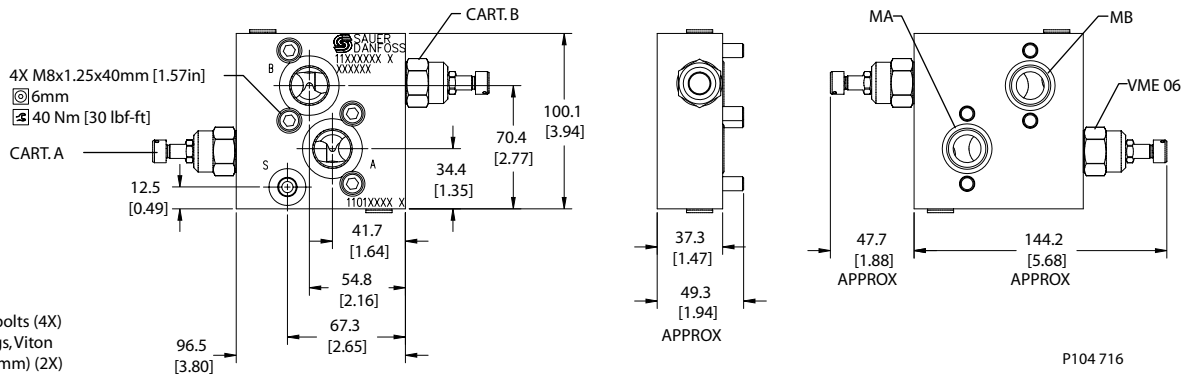
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-LS-DVME06

DIMENSIONS

Cross-sectional view

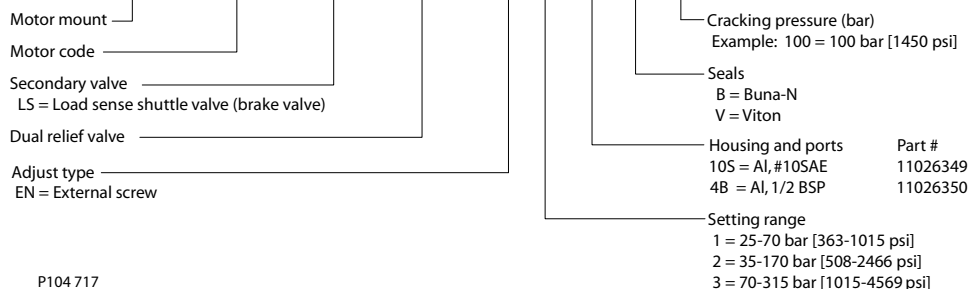
mm [in]



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





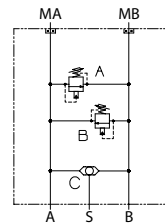
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-LS-DCP211-2

OPERATION

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

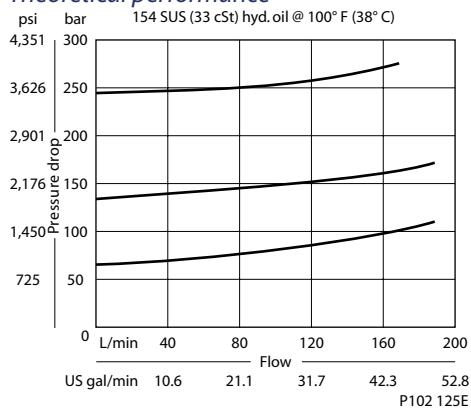
Schematic



P104 711

SPECIFICATIONS

Theoretical performance



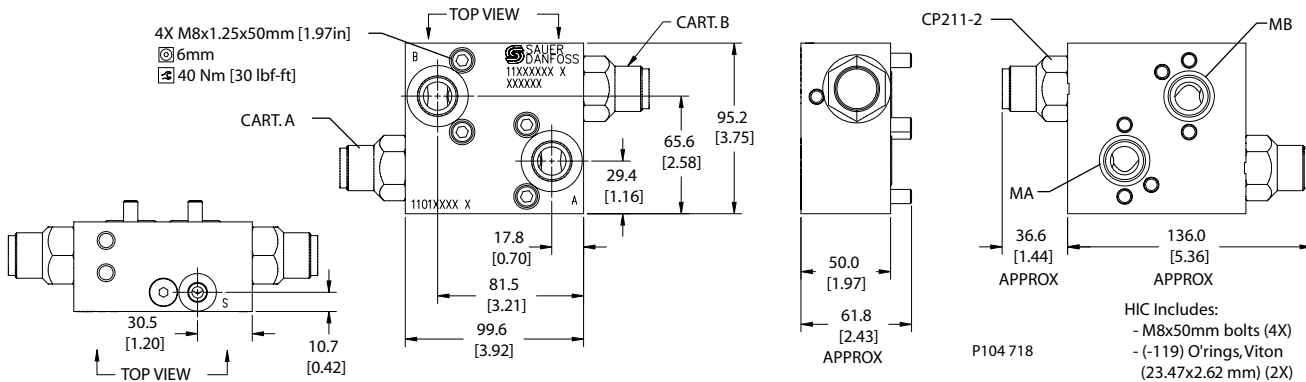
Specifications

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] @ at 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

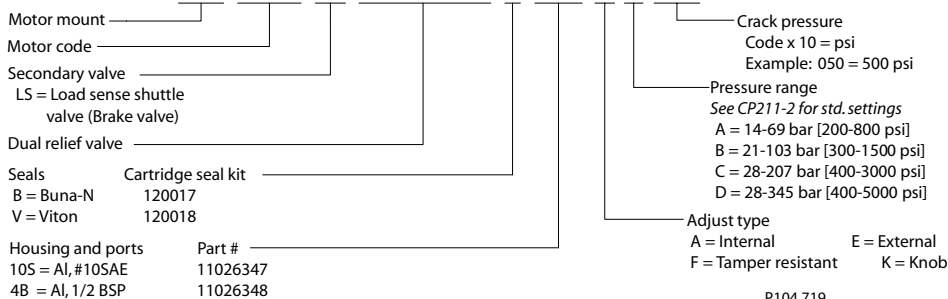
Cross-sectional view

mm [in]



ORDERING INFORMATION

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



P104 719



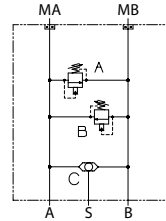
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-LS-DCP211-2

OPERATION

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

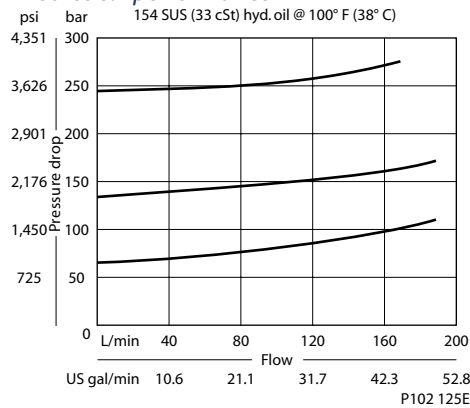
Schematic



P104 711

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] @ at 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

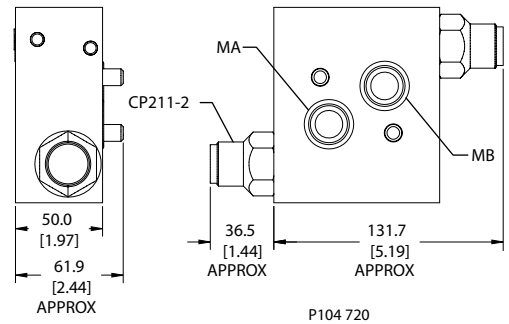
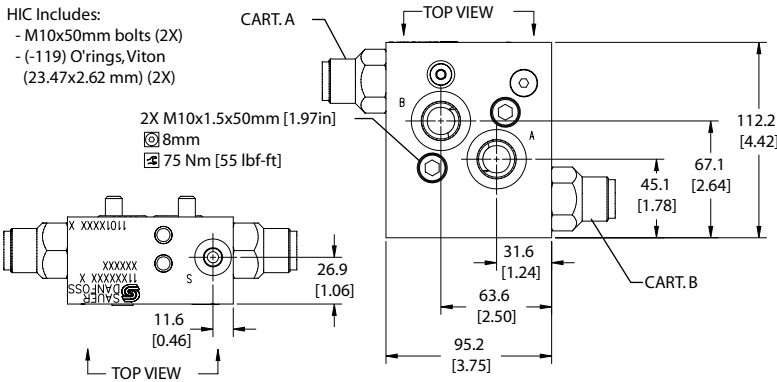
Motor mount HICs
MM-OMS-LS-DCP211-2

DIMENSIONS

Cross-sectional view

mm [in]

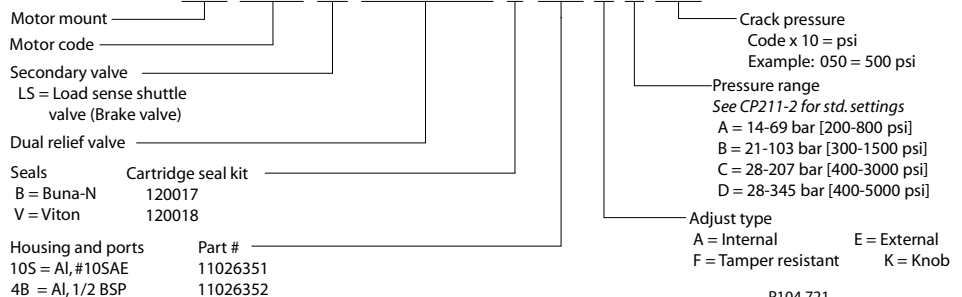
HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 720

ORDERING INFORMATION

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



P104 721



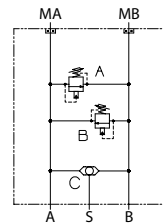
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-LS-DCP211-2

OPERATION

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

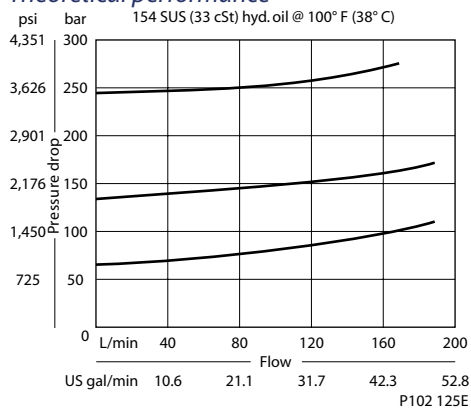
Schematic



P104 711

SPECIFICATIONS

Theoretical performance



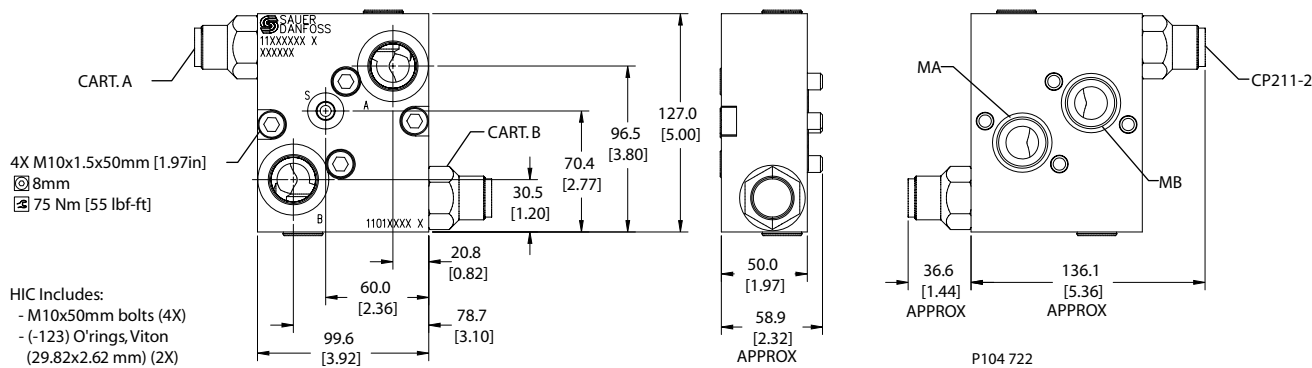
Specifications

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] @ at 207 bar [3000 psi]
Weight	1.84 kg [4.06 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023870
Motor	OMT

DIMENSIONS

Cross-sectional view

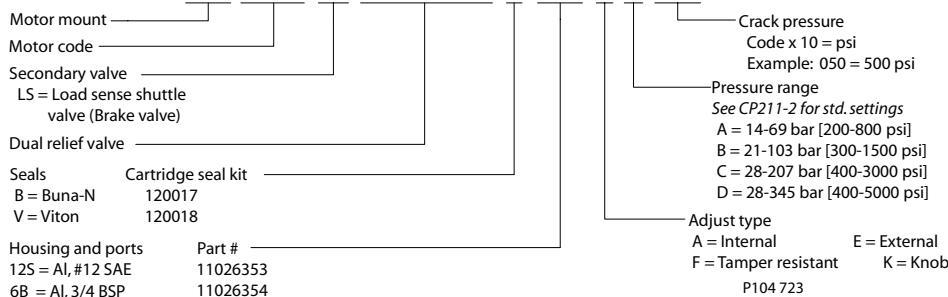
mm [in]



P104 722

ORDERING INFORMATION

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



P104 723



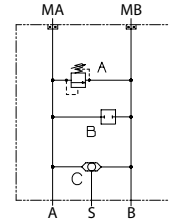
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-AVME06

OPERATION

Single cross-port relief (A to B) HIC with shuttle that mounts to DH motors with manifold mount porting.

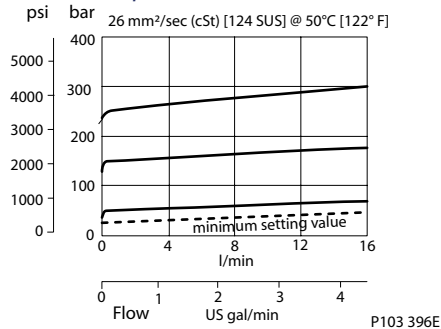
Schematic



P104 909

SPECIFICATIONS

Theoretical performance



Specifications

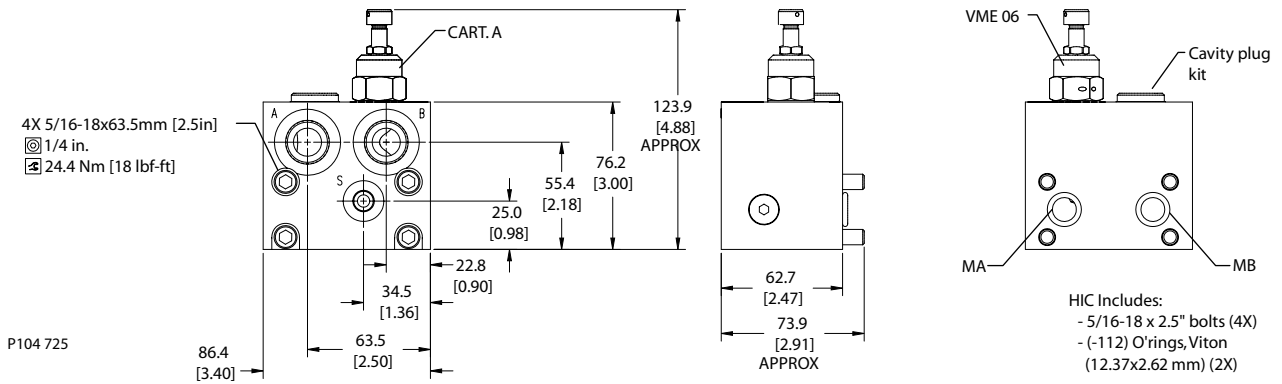
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-LS-AVME06

DIMENSIONS

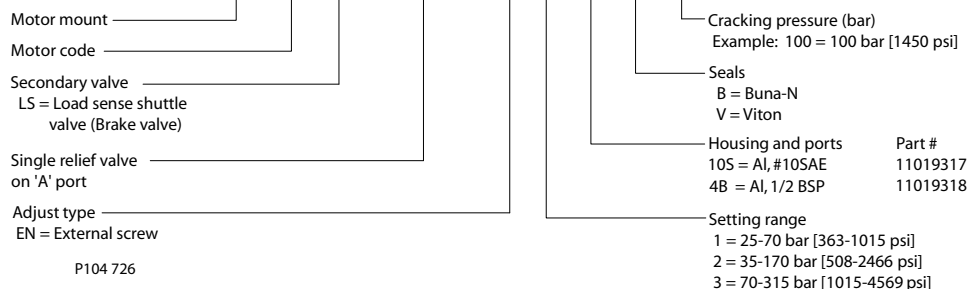
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





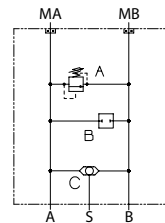
Cartridge Valves Technical Information

Motor mount HICs MM-DS-LS-AVME06

OPERATION

Single cross-port relief (A to B) HIC with shuttle that mounts to DS motors with manifold mount porting.

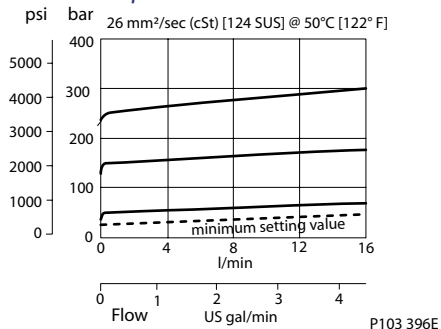
Schematic



P104 909

SPECIFICATIONS

Theoretical performance



Specifications

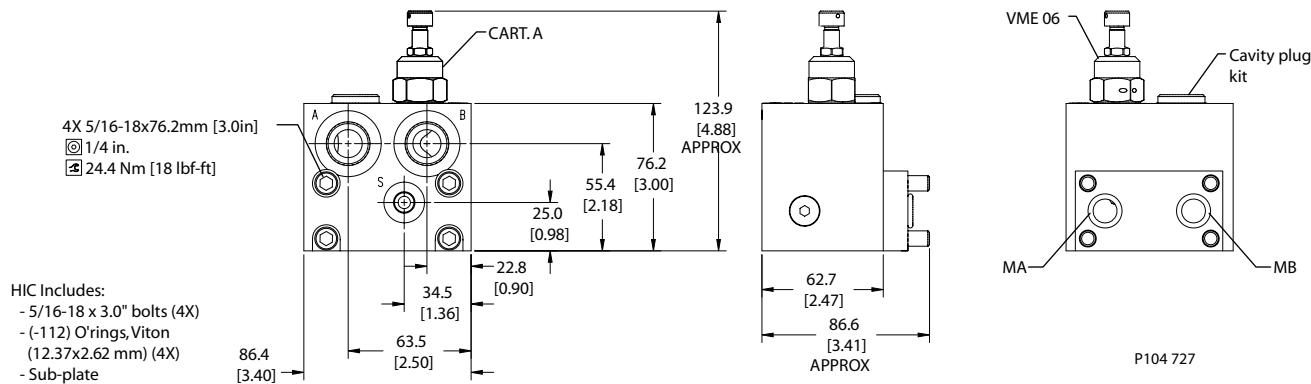
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-LS-AVME06

DIMENSIONS

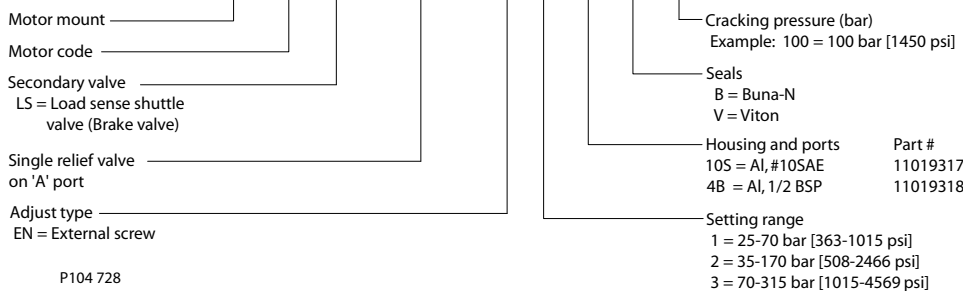
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





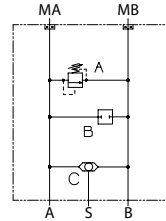
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-AVME06

OPERATION

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

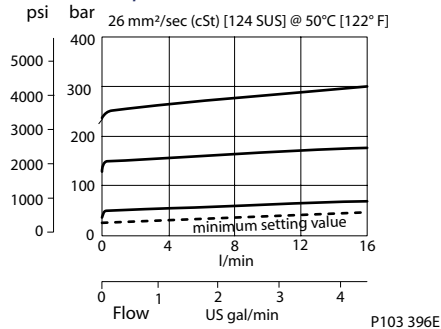
Schematic



P104 909

SPECIFICATIONS

Theoretical performance



Specifications

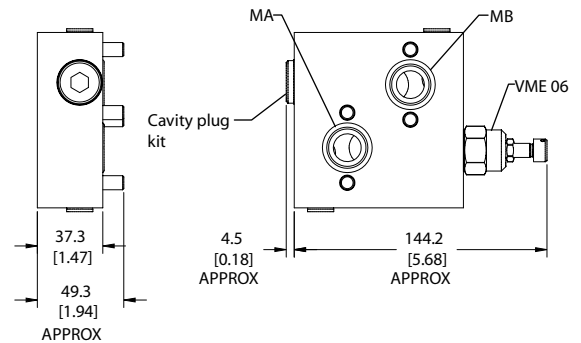
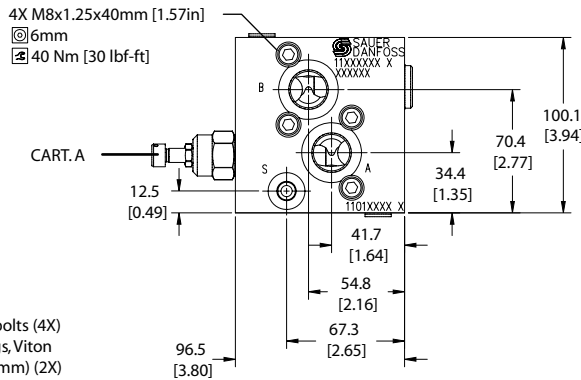
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-LS-AVME06

DIMENSIONS

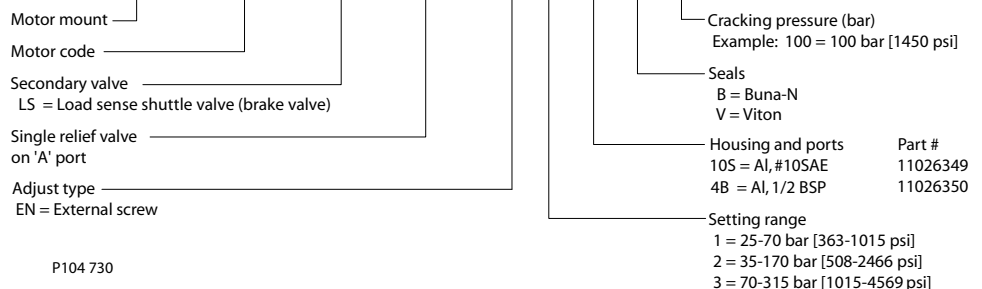
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





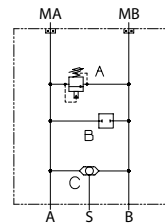
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-LS-ACP211-2

OPERATION

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

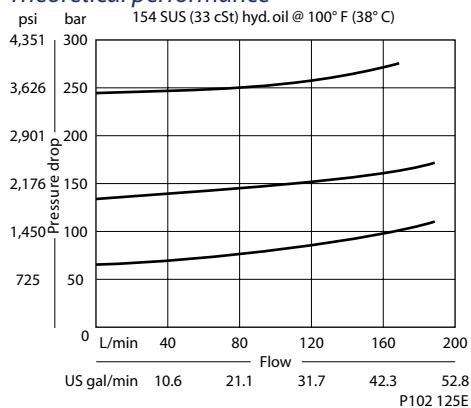
Schematic



P104 724

SPECIFICATIONS

Theoretical performance



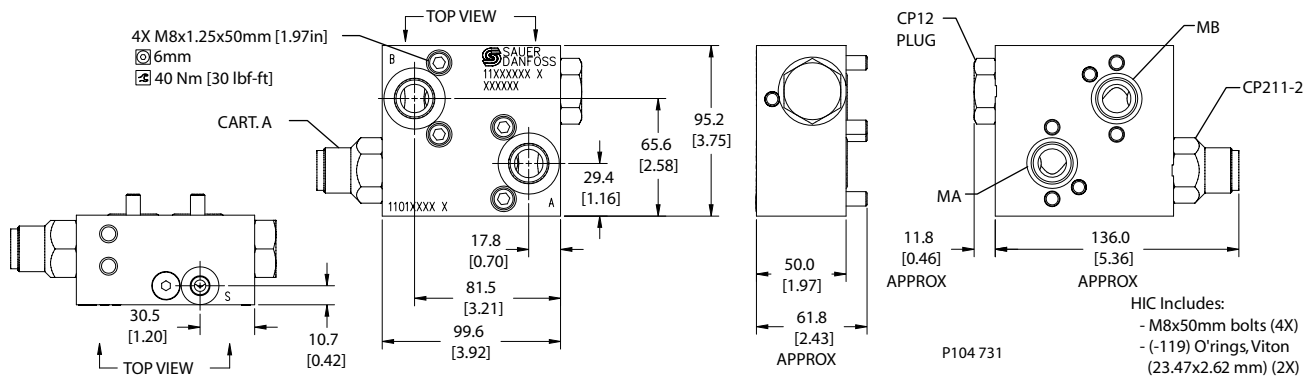
Specifications

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] @ at 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

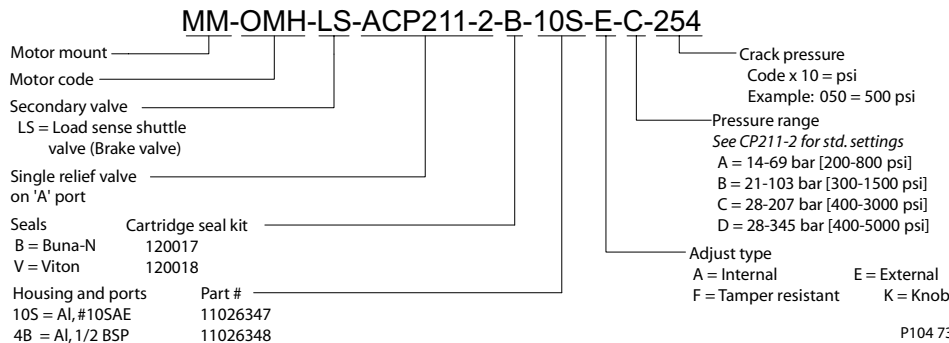
DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION



P104 732

Motor mount HICs
MM-OMH-LS-ACP211-2



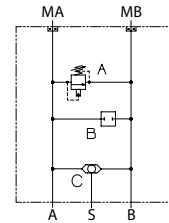
Cartridge Valves Technical Information

Motor mount HICs 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.

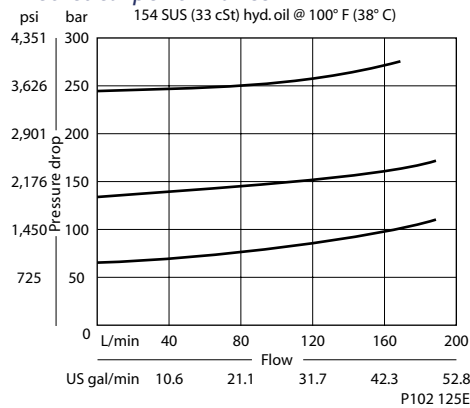
Schematic



P104 724

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] @ at 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

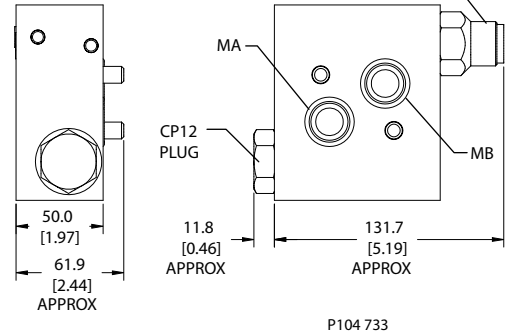
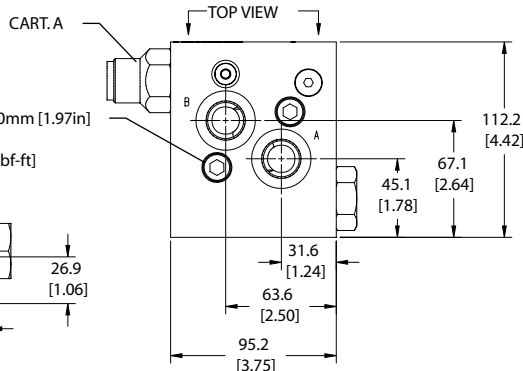
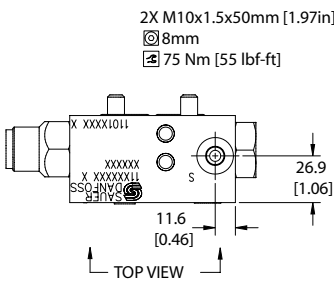
Motor mount HICs
MM-OMS-LS-ACP211-2

DIMENSIONS

Cross-sectional view

mm [in]

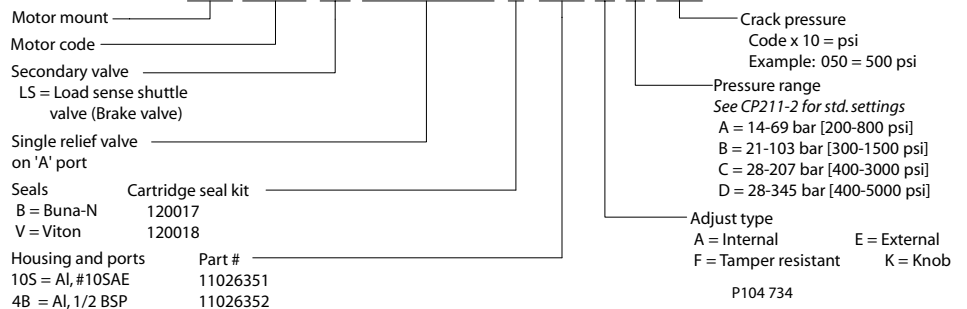
HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 733

ORDERING INFORMATION

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



P104 734



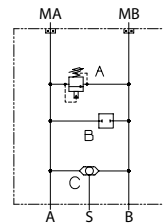
Cartridge Valves Technical Information

Motor mount HICs 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.

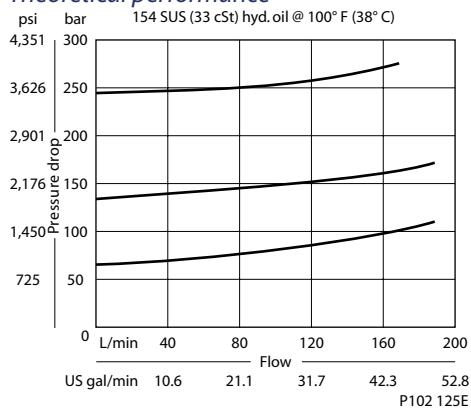
Schematic



P104 724

SPECIFICATIONS

Theoretical performance



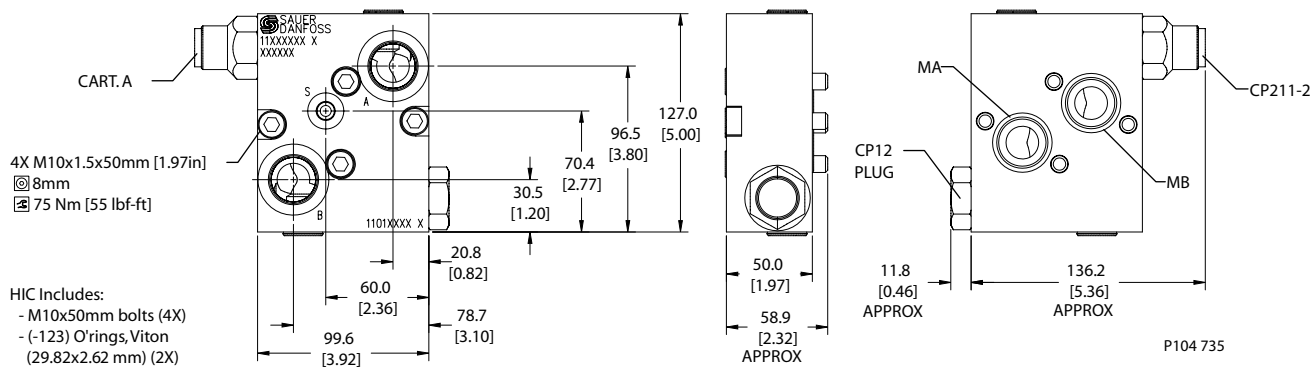
Specifications

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] @ at 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

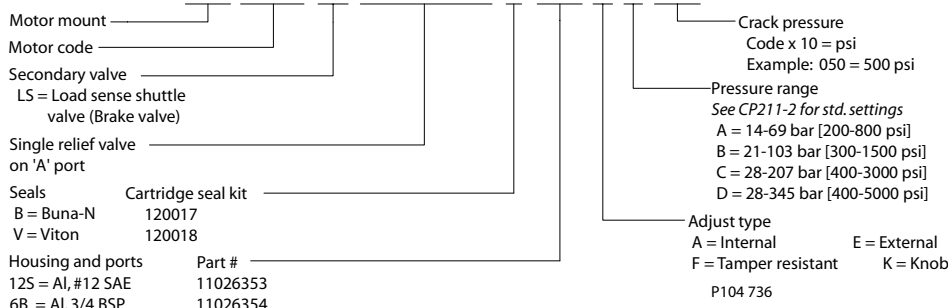
mm [in]



P104 735

ORDERING INFORMATION

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



P104 736



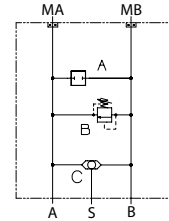
Cartridge Valves Technical Information

Motor mount HICs MM-DH-LS-BVME06

OPERATION

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

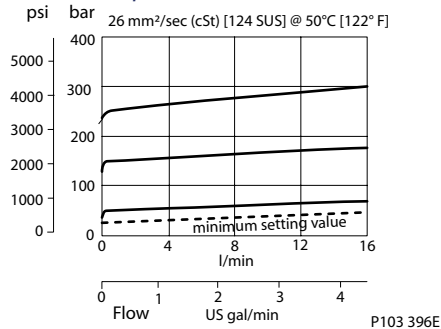
Schematic



P104 910

SPECIFICATIONS

Theoretical performance



P103 396E

Specifications

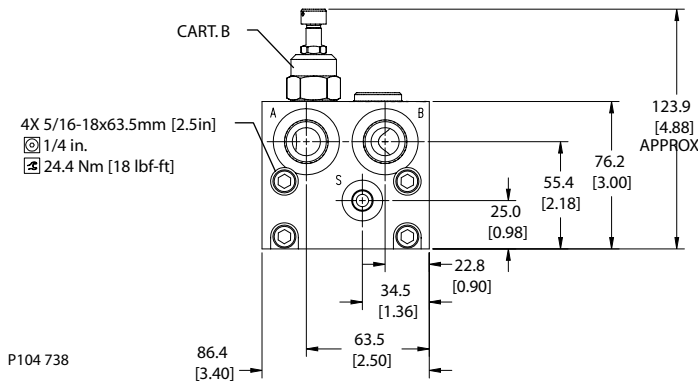
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.28 kg [2.82 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023864
Motor	DH

Motor mount HICs
MM-DH-LS-BVME06

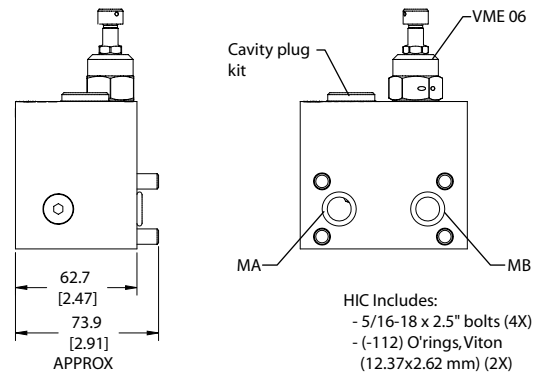
DIMENSIONS

Cross-sectional view

mm [in]



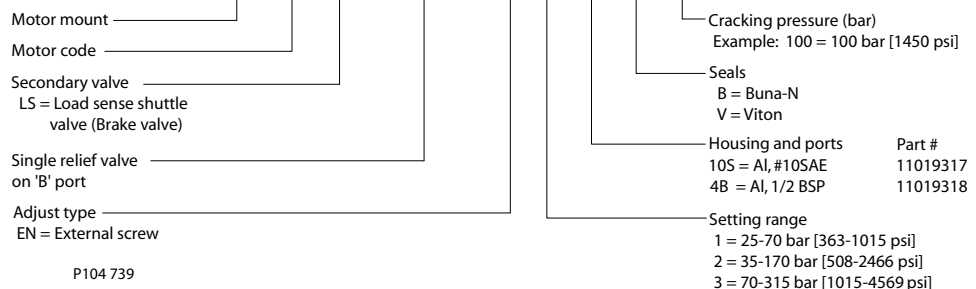
P104 738



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

ORDERING INFORMATION

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



P104 739



Cartridge Valves Technical Information

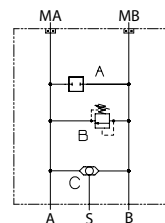
Motor mount HICs

MM-DS-LS-BVME06

OPERATION

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

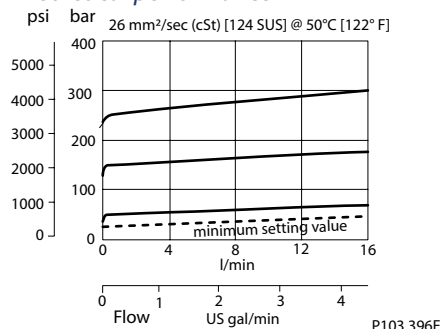
Schematic



P104 910

SPECIFICATIONS

Theoretical performance



Specifications

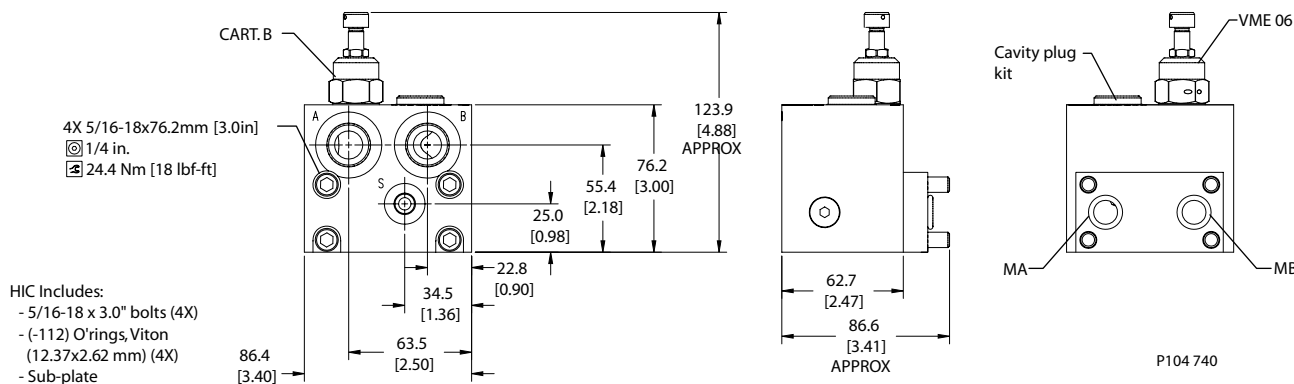
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.39 kg [3.06 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023865
Motor	DS

Motor mount HICs
MM-DS-LS-BVME06

DIMENSIONS

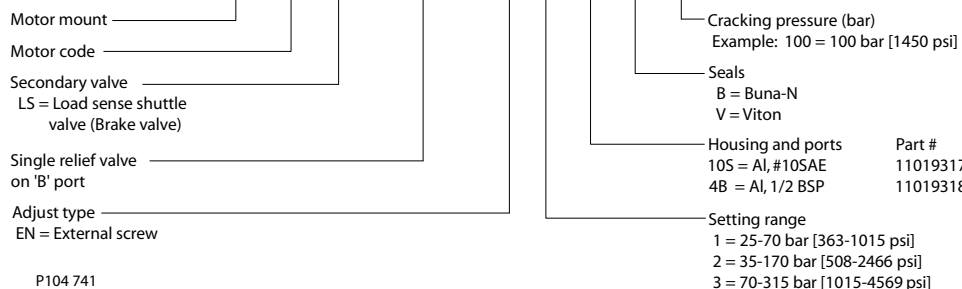
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





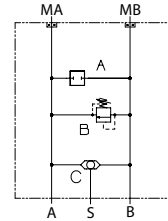
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-LS-BVME06

OPERATION

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

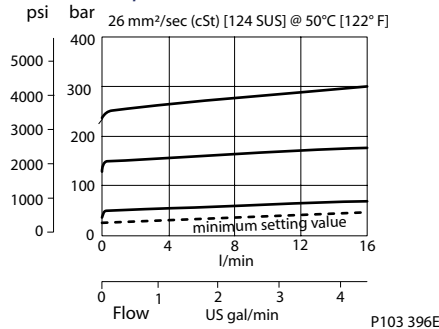
Schematic



P104 910

SPECIFICATIONS

Theoretical performance



Specifications

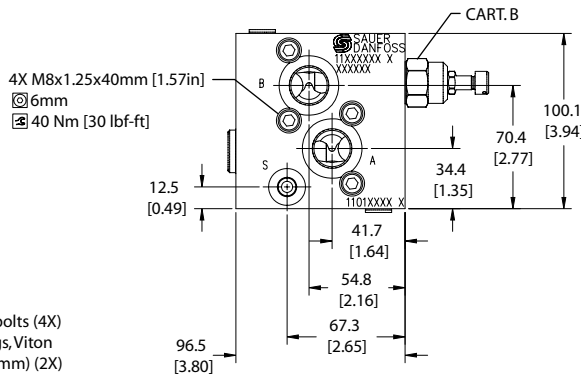
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	40 l/min [11 US gal/min]
Weight	1.13 kg [2.49 lb]
Cartridge	VME 06
Shuttle	CP124-1
Plug	11026074
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023868
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-LS-BVME06

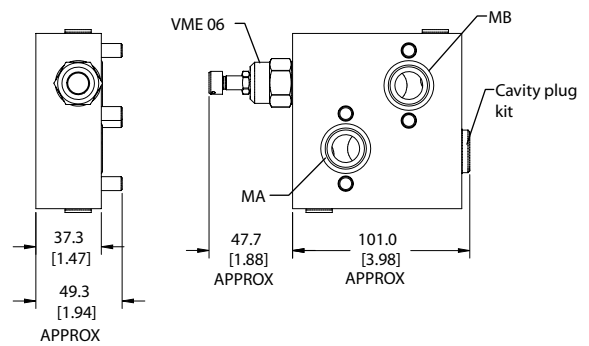
DIMENSIONS

Cross-sectional view

mm [in]



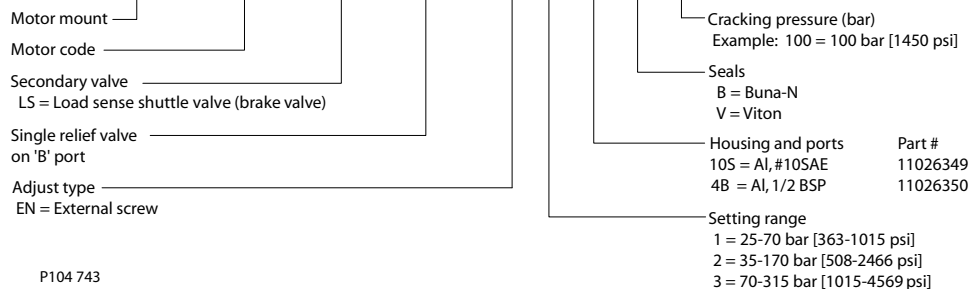
HIC Includes:
- M8x40mm bolts (4X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 742

ORDERING INFORMATION

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



P104 743



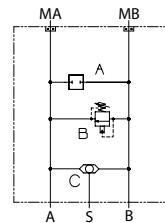
Cartridge Valves Technical Information

Motor mount HICs 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.

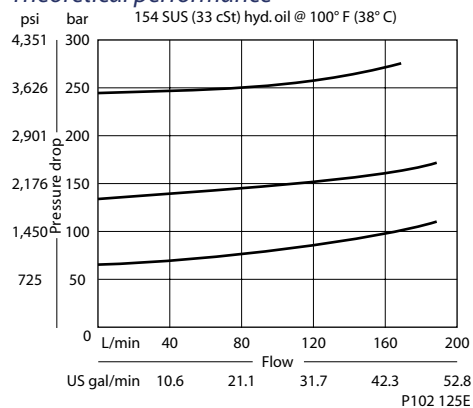
Schematic



P104 737

SPECIFICATIONS

Theoretical performance



Specifications

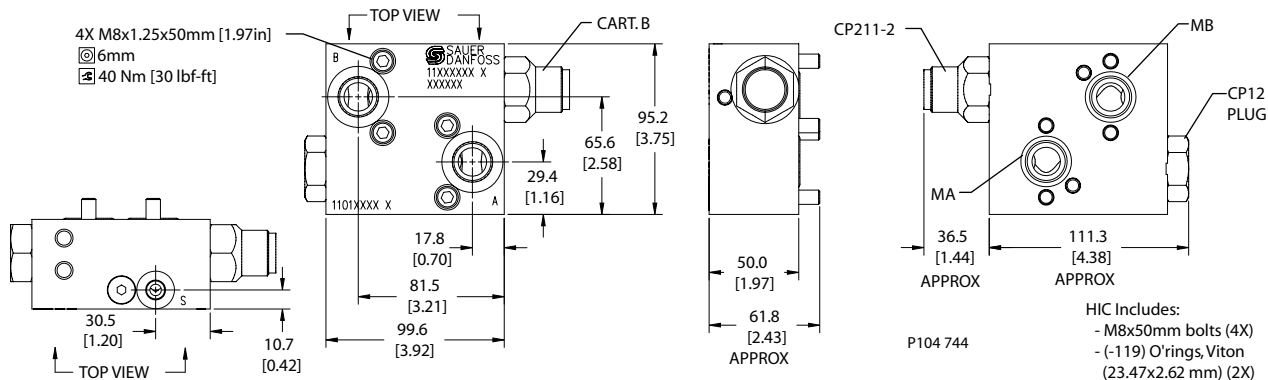
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.41 kg [3.11 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023162
Motor	OMH

Motor mount HICs
MM-OMH-LS-BCP211-2

DIMENSIONS

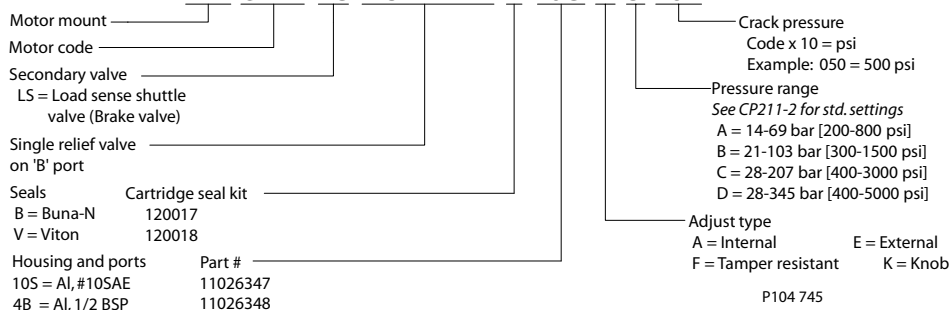
Cross-sectional view

mm [in]



ORDERING INFORMATION

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





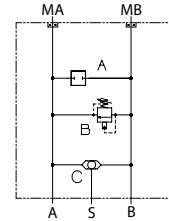
Cartridge Valves Technical Information

Motor mount HICs 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.

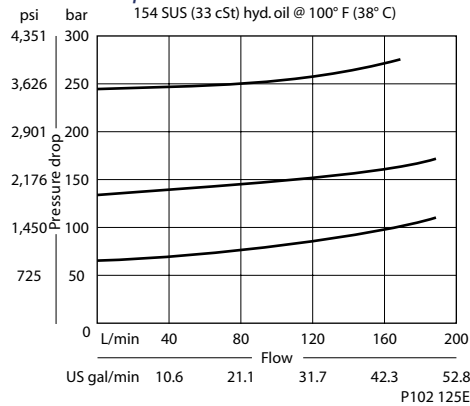
Schematic



P104 737

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] @ at 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

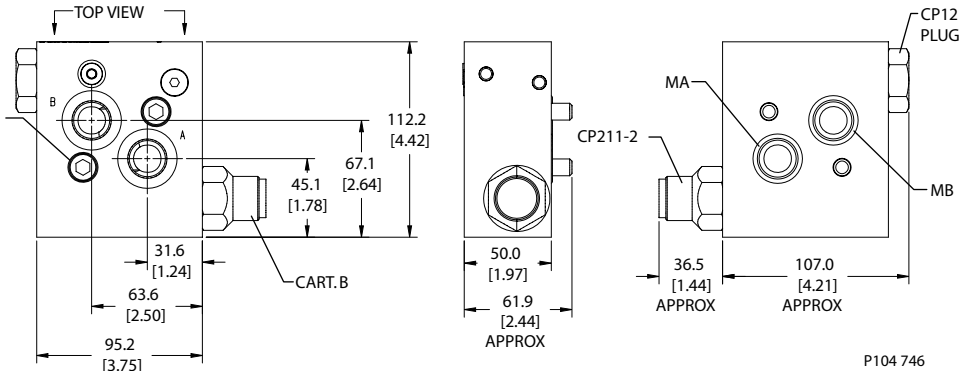
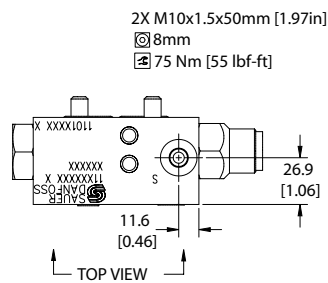
Motor mount HICs
MM-OMS-LS-BCP211-2

DIMENSIONS

Cross-sectional view

mm [in]

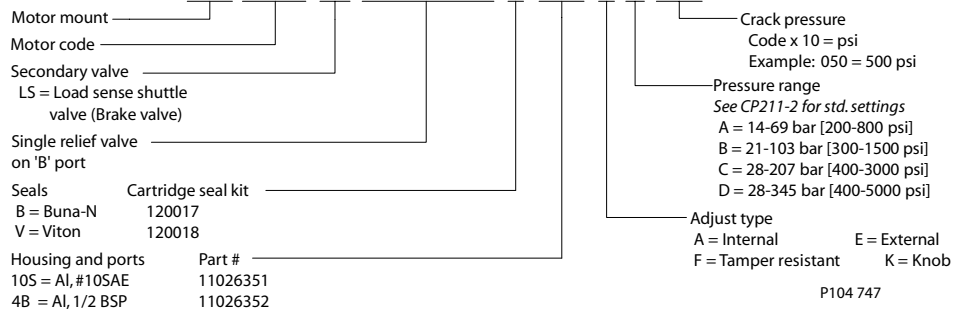
HIC Includes:
- M10x50mm bolts (2X)
- (-119) O'rings, Viton (23.47x2.62 mm) (2X)



P104 746

ORDERING INFORMATION

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



P104 747



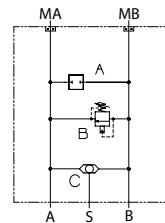
Cartridge Valves Technical Information

Motor mount HICs 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.

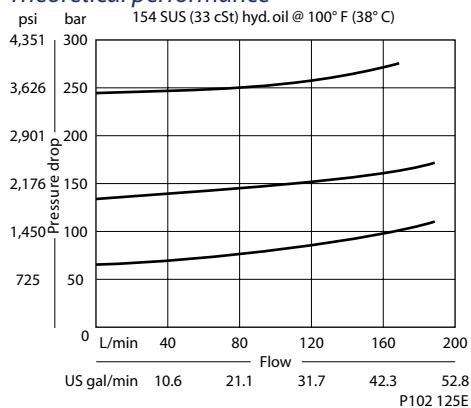
Schematic



P104 737

SPECIFICATIONS

Theoretical performance



Specifications

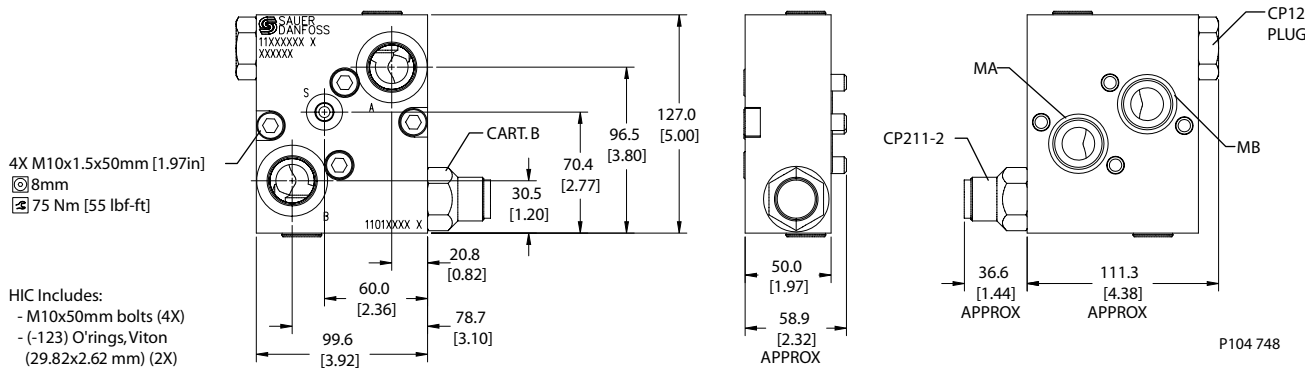
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	190 l/min [50 US gal/min]
Leakage	82 cm ³ /min [5 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.84 kg [4.06 lb]
Cartridge	CP211-2
Shuttle	CP124-1
Plug	CP12-V-2-B
Shuttle/drain port	#4 SAE (1/8 BSP)
Service mount kit	11023870
Motor	OMT

Motor mount HICs
MM-OMT-LS-BCP211-2

DIMENSIONS

Cross-sectional view

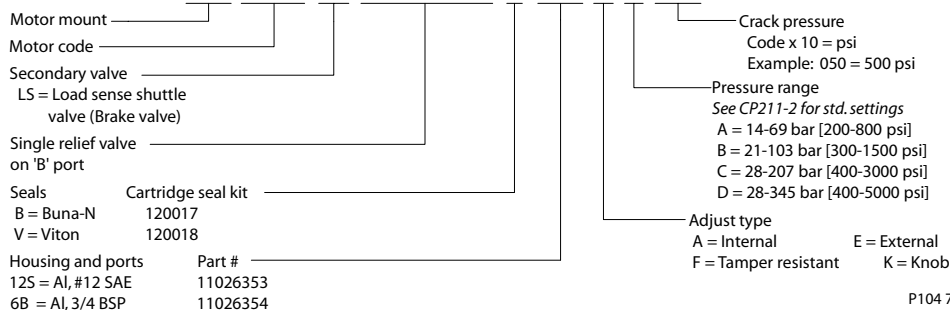
mm [in]



P104 748

ORDERING INFORMATION

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



P104 749



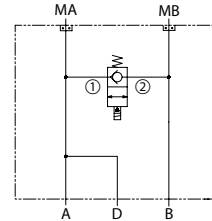
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-SVP10-NCR

OPERATION

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

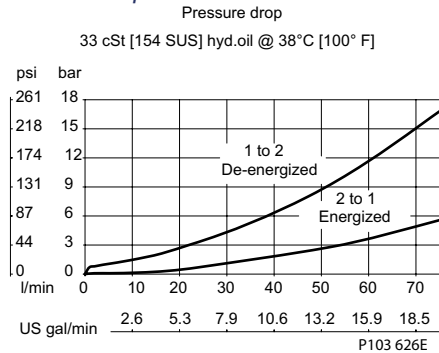
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



P103 626E

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 @ at 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	DH

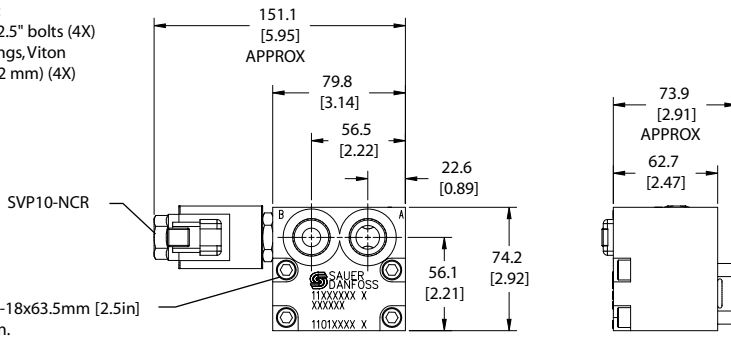
Motor mount HICs
MM-DH-00-SVP10-NCR

DIMENSIONS

Cross-sectional view

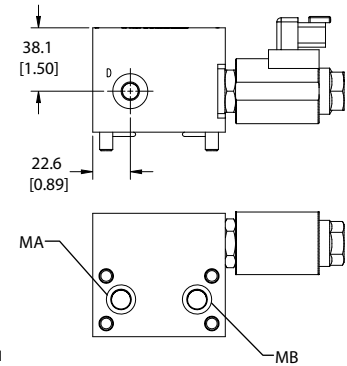
mm [in]

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



- 4X 5/16-18x63.5mm [2.5in]
 ① 1/4 in.
 ② 24.4 N·m [18 lbf·ft]

P104 751



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)	
	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)

P104 752



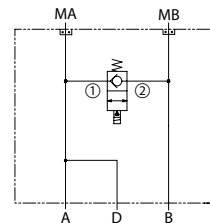
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-SVP10-NCR

OPERATION

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

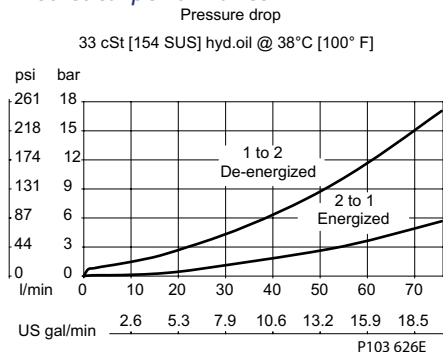
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



Specifications

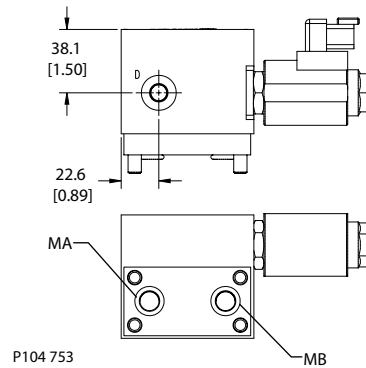
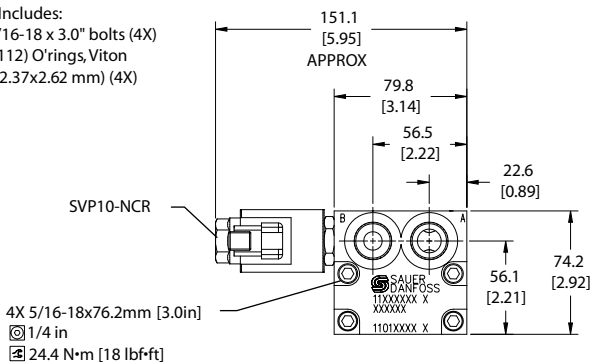
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ at rated pressure
Weight	1.47 kg [3.24 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023865
Motor	DS

DIMENSIONS

Cross-sectional view

mm [in]

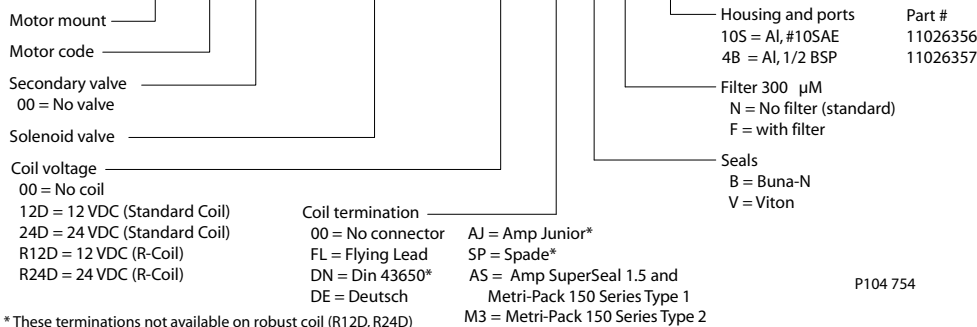
HIC Includes:
- 5/16-18 x 3.0" bolts (4X)
- (-112) O-rings, Viton (12.37x2.62 mm) (4X)



P104 753

ORDERING INFORMATION

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





Cartridge Valves Technical Information

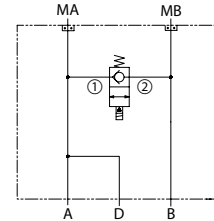
Motor mount HICs

MM-OMP/OMR-00-SVP10-NCR

OPERATION

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

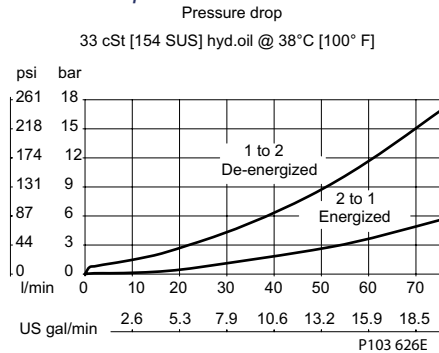
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



Specifications

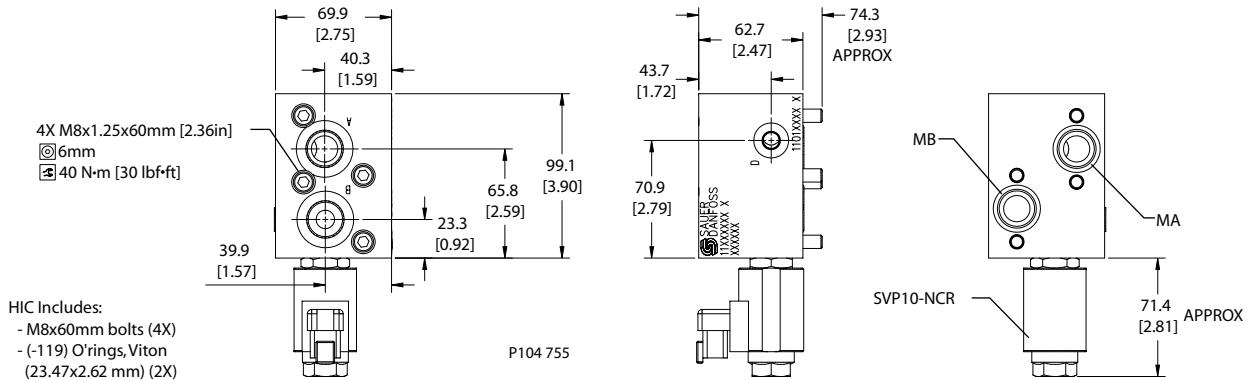
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ at rated pressure
Weight	1.51 kg [3.33 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023869
Motor	OMP/OMR

Motor mount HICs
MM-OMP/OMR-00-SVP10-NCR

DIMENSIONS

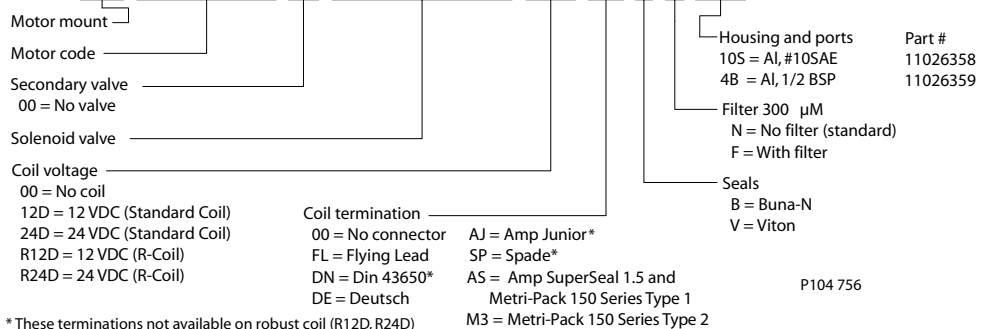
Cross-sectional view

mm [in]



ORDERING INFORMATION

MM-OMP/OMR-00-BSVP10-NCR-12D-DE-B-N-10S





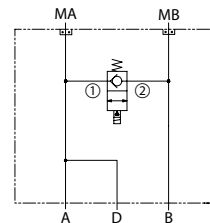
Cartridge Valves Technical Information

Motor mount HICs MM-OMH-00-SVP10-NCR

OPERATION

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

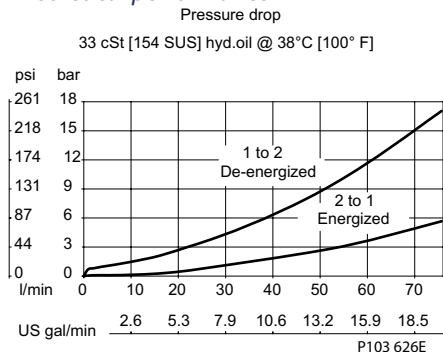
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



Specifications

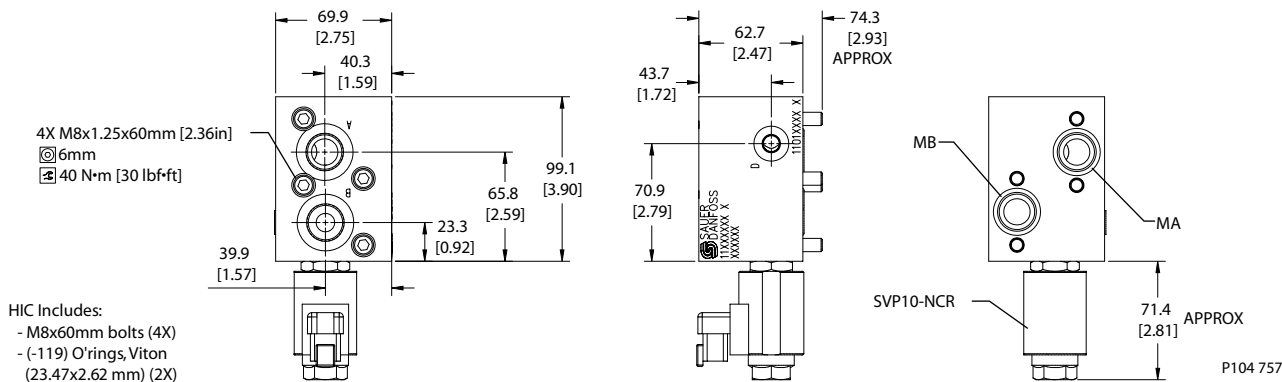
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ at rated pressure
Weight	1.51 kg [3.33 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023869
Motor	OMH

Motor mount HICs
MM-OMH-00-SVP10-NCR

DIMENSIONS

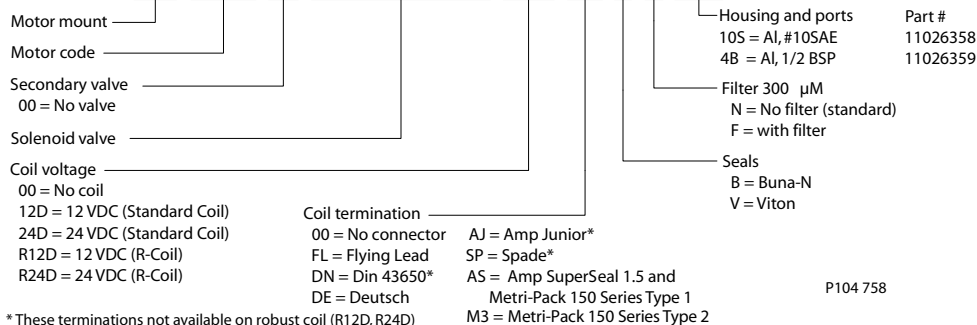
Cross-sectional view

mm [in]



ORDERING INFORMATION

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



P104 758



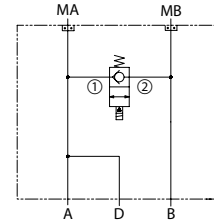
Cartridge Valves Technical Information

Motor mount HICs MM-OMS-00-SVP10-NCR

OPERATION

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

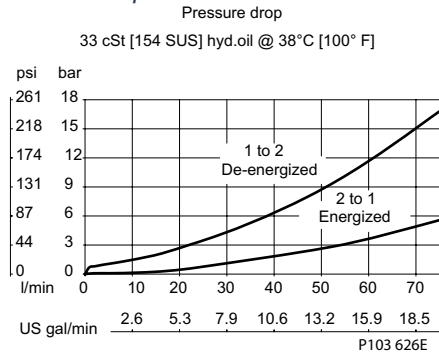
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



Specifications

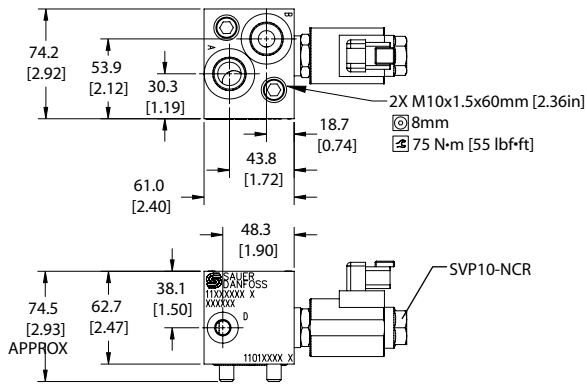
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ at rated pressure
Weight	1.03 kg [2.27 lb]
Cartridge	SVP10-NCR
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023867
Motor	OMS

Motor mount HICs
MM-OMS-00-SVP10-NCR

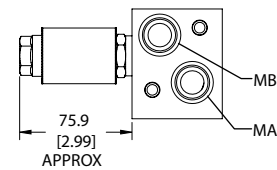
DIMENSIONS

Cross-sectional view

mm [in]



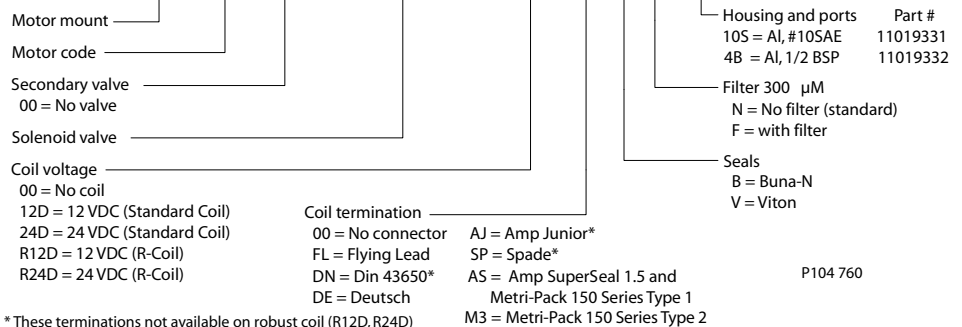
P104 759



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





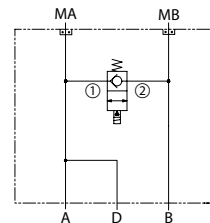
Cartridge Valves Technical Information

Motor mount HICs MM-OMT-00-CP502-3

OPERATION

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

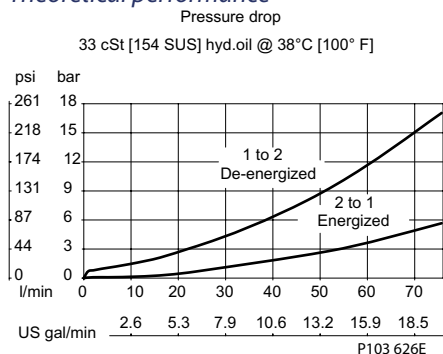
Schematic



P104 750

SPECIFICATIONS

Theoretical performance



Specifications

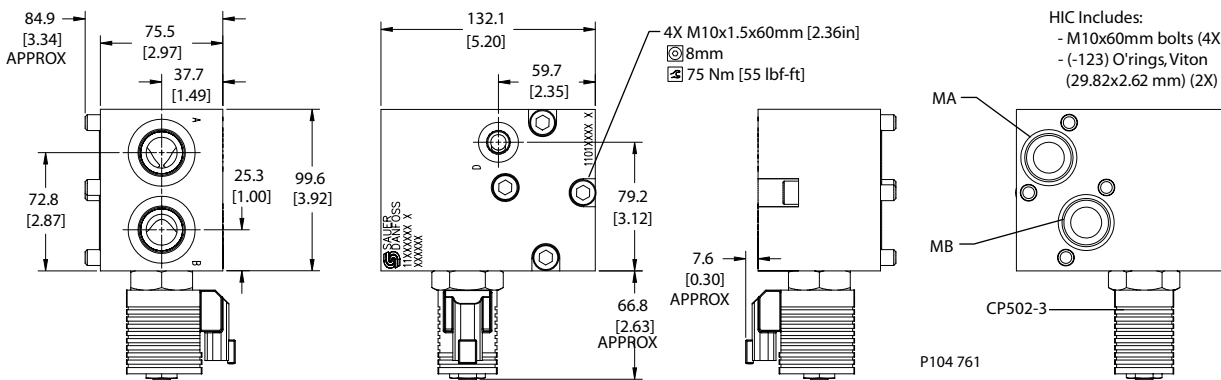
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [102 psi]	80 l/min [21 US gal/min]
Leakage	6 drops/min @ at rated pressure
Weight	2.18 kg [4.81 lb]
Cartridge	CP502-3
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023871
Motor	OMS

Motor mount HICs
MM-OMT-00-CP502-3

DIMENSIONS

Cross-sectional view

mm [in]



ORDERING INFORMATION

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

Motor mount	Motor code	Secondary valve 00 = No valve	Solenoid valve	Seals B = Buna-N V = Viton	Cartridge seal kit 120019 120020	Coil termination 0 = No connector S = Spade L = Lead	Coil voltage 000 = No coil 12D = 12 VDC 24D = 24 VDC	Housing and ports 12S = Al, #12 SAE 6B = Al, 3/4 BSP	H = Din 43650 DE = Deutsch M2 = Metri-Pack 150 Type 1	Part # 11019333 11019334
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P104 762



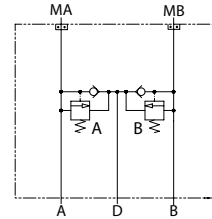
Cartridge Valves Technical Information

Motor mount HICs MM-DH-00-DPVLP

OPERATION

This is a dual shock valve with anticavitation checks that mounts to DH motors with manifold mount 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.

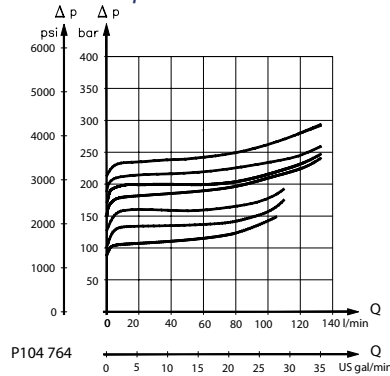
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

Specifications

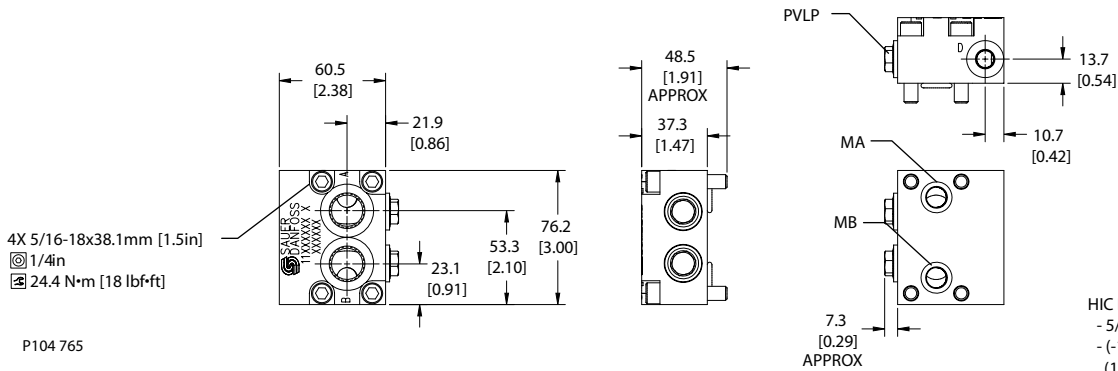
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.20 kg [2.65 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023862
Motor	DH

Motor mount HICs
MM-DH-00-DPVLP

DIMENSIONS

Cross-sectional view

mm [in]

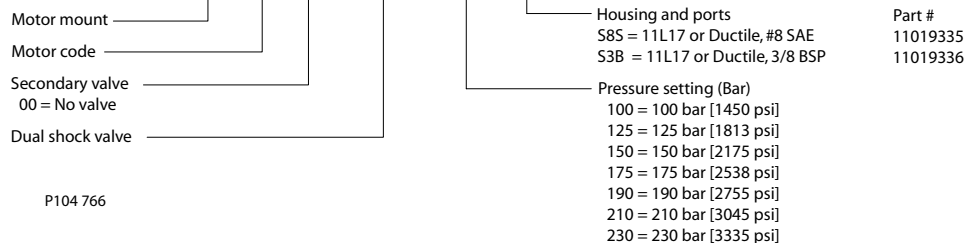


P104 765

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



P104 766



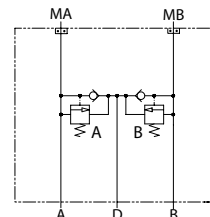
Cartridge Valves Technical Information

Motor mount HICs MM-DS-00-DPVLP

OPERATION

This is a dual shock valve with anticavitation checks that mounts to DS motors with manifold mount 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.

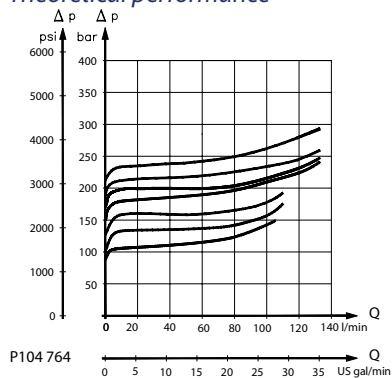
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

Specifications

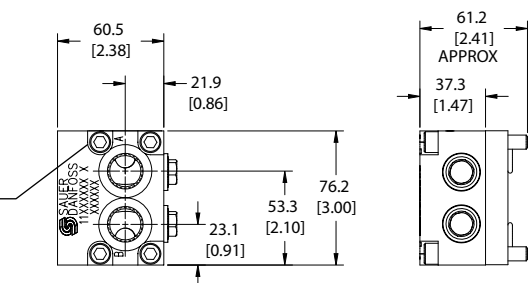
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ at 207 bar [3000 psi]
Weight	1.31 kg [2.89 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023863
Motor	DS

DIMENSIONS

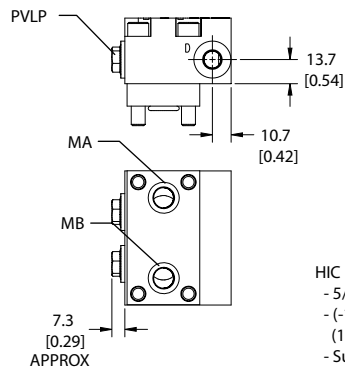
Cross-sectional view

mm [in]

- 4X 5/16-18x50.8mm [2.0in]
- ⊙ 1/4in
- ⊗ 24.4 N•m [18 lbf•ft]



P104 767



- 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 valve	Dual shock valve	Housing and ports	Part #
		00 = No valve		S8S = 11L17 or Ductile, #8 SAE S3B = 11L17 or Ductile, 3/8 BSP	11019335 11019336
				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]	

P104 768



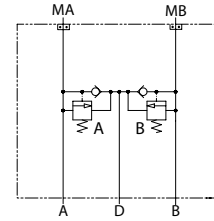
Cartridge Valves Technical Information

Motor mount HICs MM-OMP/OMR-00-DPVLP

OPERATION

This is a dual shock valve with anticavitation checks that mounts to OMP/OMR 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.

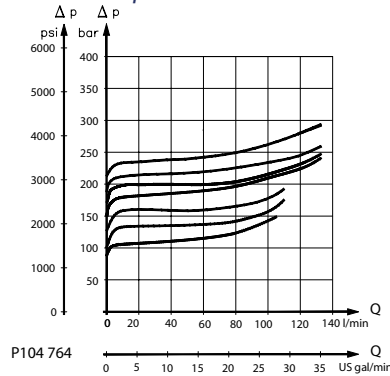
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

Specifications

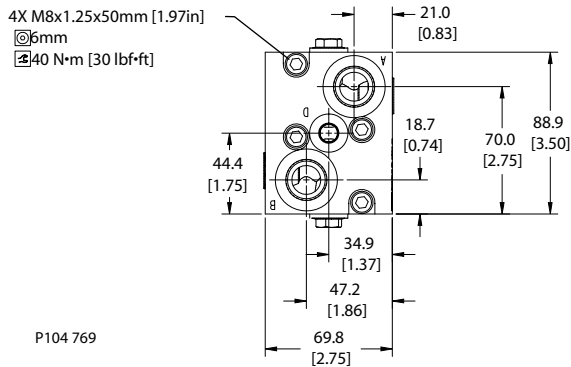
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ at 207 bar [3000 psi]
Weight	2.12 kg [4.67 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023162
Motor	DS

Motor mount HICs
MM-OMP/OMR-00-DPVLP

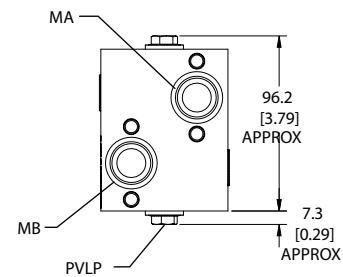
DIMENSIONS

Cross-sectional view

mm [in]



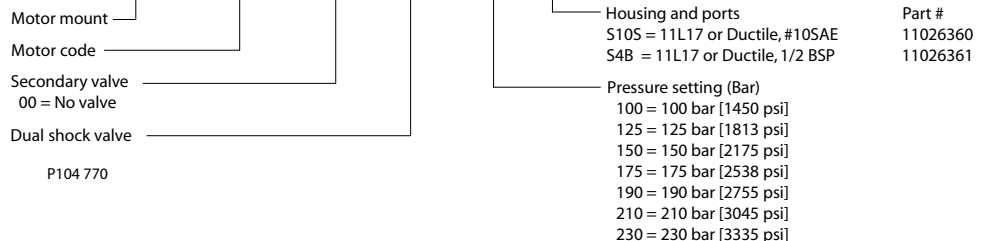
P104 769



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

ORDERING INFORMATION

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



P104 770



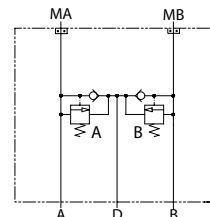
Cartridge Valves Technical Information

Motor mount HICs 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.

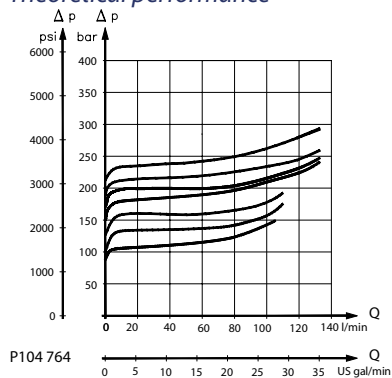
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

Specifications

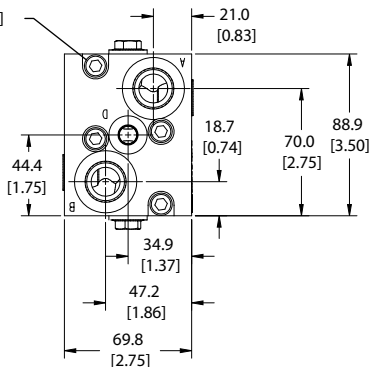
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ at 207 bar [3000 psi]
Weight	2.12 kg [4.67 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023162
Motor	OMH

DIMENSIONS

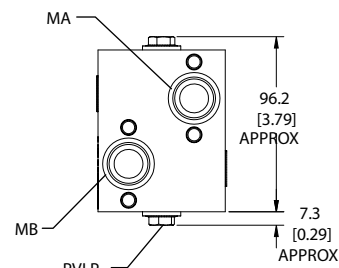
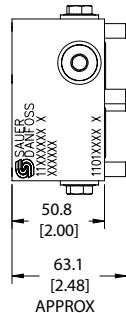
Cross-sectional view

mm [in]

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



P104 771



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

ORDERING INFORMATION

MM-OMH-00-DPVLP-175-S4B

Motor mount
Motor code
Secondary valve
00 = No valve
Dual shock valve

Housing and ports
S10S = 11L17 or Ductile, #10SAE
S4B = 11L17 or Ductile, 1/2 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 #
11026360
11026361

P104 772



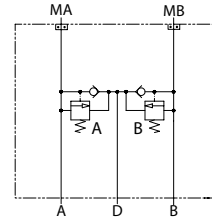
Cartridge Valves Technical Information

Motor mount HICs 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.

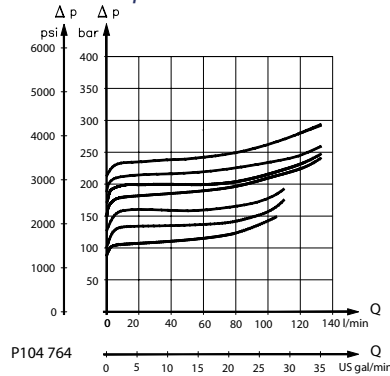
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

Specifications

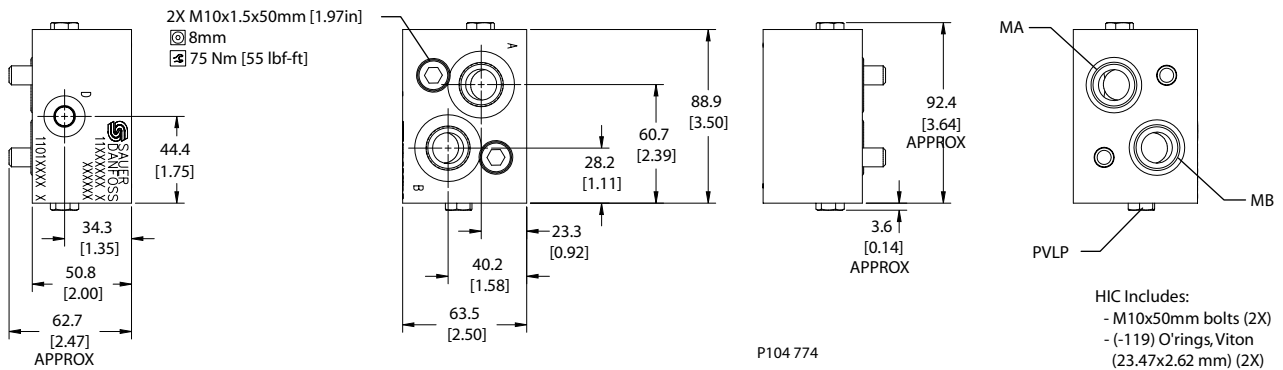
Rated pressure	345 bar [5003 psi]
Rated flow at 7 bar [102 psi]	57 l/min [15 US gal/min]
Crack pressure	0.5 bar [7 psi]
Leakage	5 cm ³ /min [0.3 in ³ /min] @ at 207 bar [3000 psi]
Weight	2.02 kg [4.45 lb]
Shuttle/drain port	#4 SAE (1/4 BSP)
Service mount kit	11023866
Motor	OMS

Motor mount HICs
MM-OMS-00-DPVLP

DIMENSIONS

Cross-sectional view

mm [in]



P104 774

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	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]	

P104 775



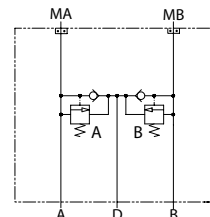
Cartridge Valves Technical Information

Motor mount HICs 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.

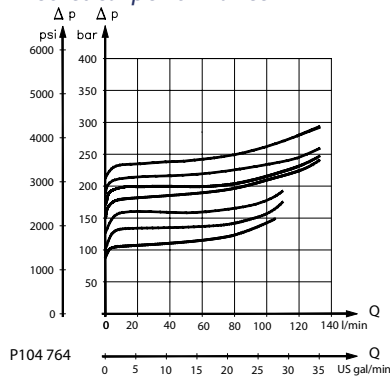
Schematic



P104 763

SPECIFICATIONS

Theoretical performance



P104 764

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] @ at 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

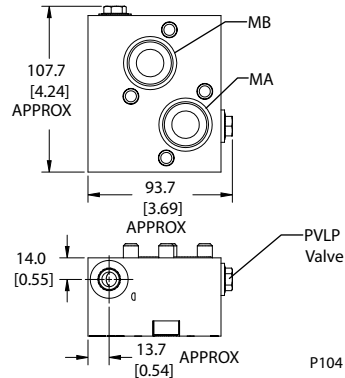
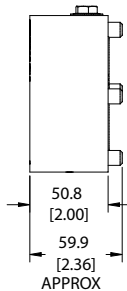
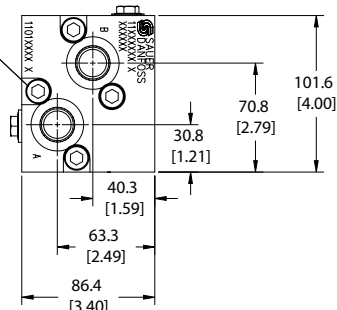
Motor mount HICs
MM-OMT-00-DPVLP

DIMENSIONS

Cross-sectional view

mm [in]

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



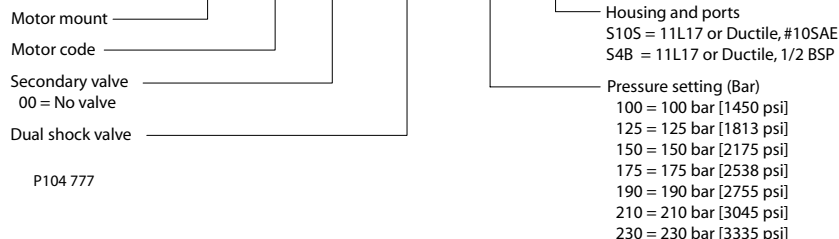
P104 776

HIC Includes:

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

ORDERING INFORMATION

MM-OMT-00-DPVLP-175-S10S



P104 777