

PowerFlow™ D08 Modular Stack Valves



PRODUCT OVERVIEW

Modular Stack Valves**Features and Benefits**

- Reduces assembly time
- Eliminates plumbing for reduced system space and connections
- 3,000 PSI rated at full rated flow
- Matches D03, D05, and D08 mounting patterns

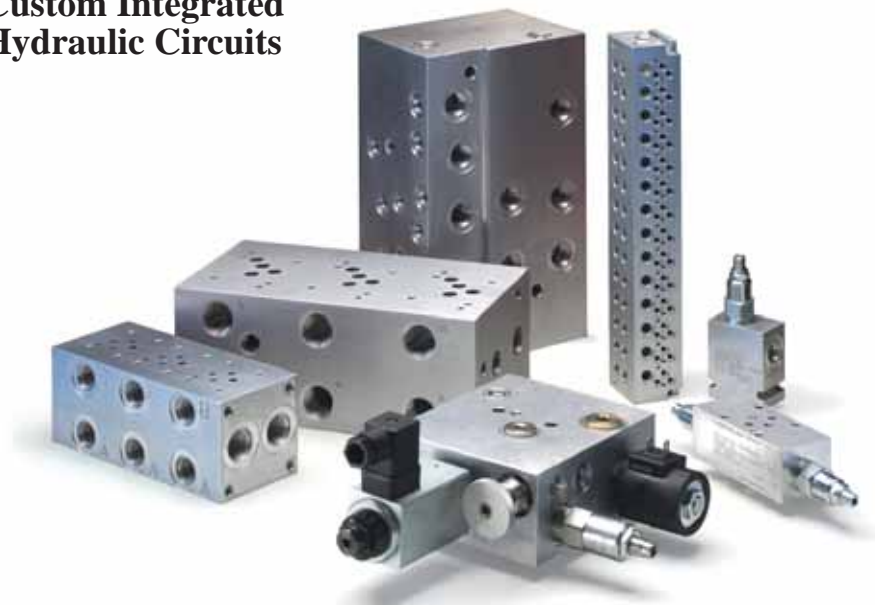
Product Description

Modular stack valves are designed to install between the valve and its mounting surface. This will eliminate plumbing connections and reduce space requirements. Continental Hydraulics has a full range including check, flow control, relief, reducing, sequencing, shuttle valves and counterbalance valves. Manufactured to NFPA and ANSI/ISO's standards.

Bodies are manufactured of aluminum (3000 PSI). Our bodies use industry common cavities. All cartridges are 100% tested functionally.

Specifications

- Flow: Up to 120 GPM
- Pressure: Up to 3,000 PSI
- Temperature: Up to 200° F.
- Buna Seals

Subplates/Manifolds and Custom Integrated Hydraulic Circuits**Features & Benefits**

- Precision machining to meet both NFPA and ANSI/ISO valve patterns
- High flow option
- Pressures up to 3000 PSI
- Available off the shelf for shipping
- Manifolds reduce piping thus reducing possible leakage points
- Parallel, series or custom circuits

Product Description

Continental Hydraulics supply Subplates, manifolds and Custom Block designs to meet your requirements. Our Subplates, Manifolds and custom products are available to match a variety of cartridge valve manufacturer's cavities

We also have a full line of adapter, transition, tapping and cover plates. Adapter plates mount to your existing equipment and allow newer; valve patterns to be mounted, saving plumbing time and expense.

Tapping plates allow installation of gauges without external plumbing. Our manifolds are manufactured for D02 through D10 NFPA patterns. Manifolds are available with one to sixteen stations.

Specifications

Manufactured from aluminum materials. Pressure rated to 3000 PSI. Ports available are NPTF, SAE, BSPP, ISO and BSPT

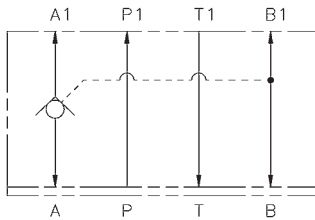
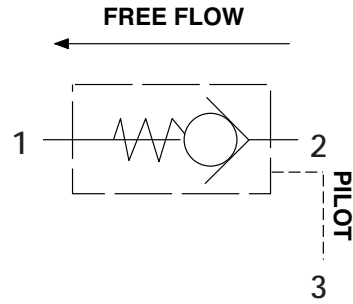
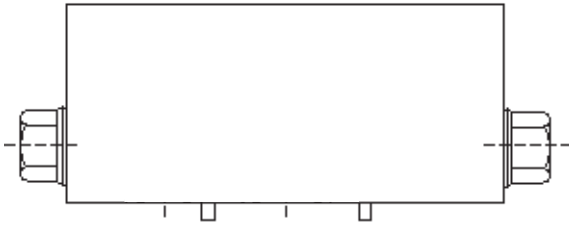
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MODULAR STACK VALVES: NFPA D08, CETOP 8 & NG25

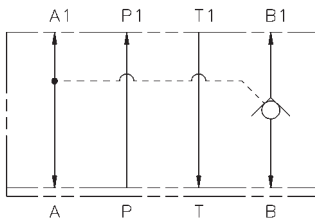
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C08MSV-PA / C08MSV-PB / C08MSV-PC

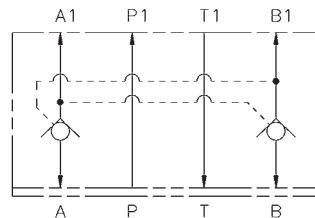
CHECK VALVE, PILOT OPERATED



VALVE TYPE
PILOT OPERATED
CHECK VALVE
A-PORT



VALVE TYPE
PILOT OPERATED
CHECK VALVE
B-PORT



VALVE TYPE
PILOT OPERATED
CHECK VALVE
A - B PORT

DESCRIPTION

Utilizes a cartridge-type, guided poppet, hydraulic pilot operated check valve as a blocking or load-holding device for high pressure applications.

OPERATIONS

This valve allows free flow from the work port to the outlet port and blocks flow in the opposite direction. Free flow will be allowed from the outlet port to the work port when at least one-third of the load induced pressure is sensed in the opposite work port.

FEATURES & BENEFITS

- Low friction seal on the pilot piston
- Separate heavy spring assures fast pilot piston return
- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-19A cavity
- Anodized aluminum

SPECIFICATIONS

Valve Bodies: 3000 PSI (207 Bar) = Aluminum (2024-T4)

Flow: 120 GPM (424 L/M) nominal

Pilot Ratio: 3 to 1

Internal Leakage: 1 drop per minute maximum at 5000 PSI

Operating Temperature: Fluid temperature up to 200°F. will not appreciably affect valve performance, however, from a safety standpoint, temperatures above 130°F. are not recommended.

Operating Media: All general purpose hydraulic fluids such as MIL-H-5606, SAE #10, SAE #20, etc.

Filtration: 25 microns acceptable; 10 microns preferred

Estimated Shipping

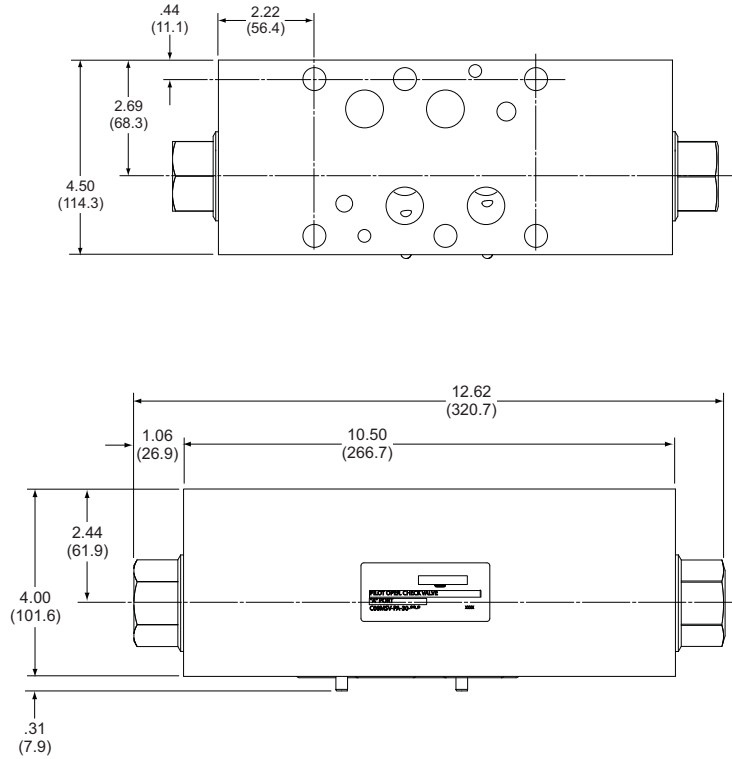
Weight: 18 # Aluminum

C08MSV-PA / C08MSV-PB / C08MSV-PC

CHECK VALVE, PILOT OPERATED

DIMENSIONS

C08MSV-PA / C08MSV-PB / C08MSV-PC



ORDERING INFORMATION

C08MSV — **P** — **30** — **A** —

SELECT ONE

SELECT ONE

DESIGN

FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		CRACKING PRESSURE		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE	PRESSURE	CODE		CODE	
CHECK VALVE	D08 NG25 (CETOP 8)	MODULAR STACK VALVE	PILOT OPERATED	C	A & B PORT	30	30 PSI	A	BUNA N	A	ALUMINUM
				A	A PORT						
				B	B PORT						

Body Only Assembly:

Code A, B, C Control Port:
Aluminum (Part No.) — 552875K
Includes O-rings & Locating Pin.



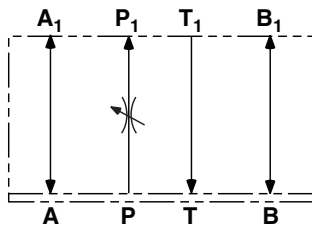
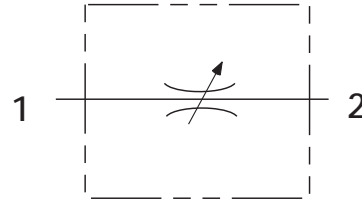
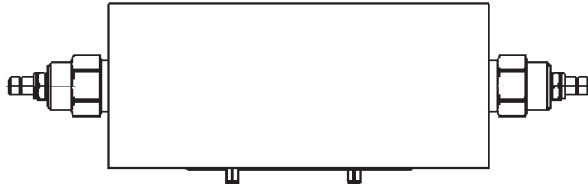
General Information:

- Cartridge cavity is Sun T-19A with flow pattern set up for checked flow port 1 to port 2, with port 3 as the pilot signal.
- Cartridge # CKIB-XCN Buna N

TYPICAL ORDERING CODE: **C08MSV-PC-30-AA**

F08MSV-NIP

FLOW CONTROL VALVE, NON-COMPENSATED



VALVE TYPE
FLOW CONTROL VALVE
P PORT

DESCRIPTION

Utilizes a screw-in cartridge type, adjustable poppet type, hydraulic flow control valve.

OPERATIONS

This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

FEATURES & BENEFITS

- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-18A cavity
- Industry common cavity
- Anodized aluminum

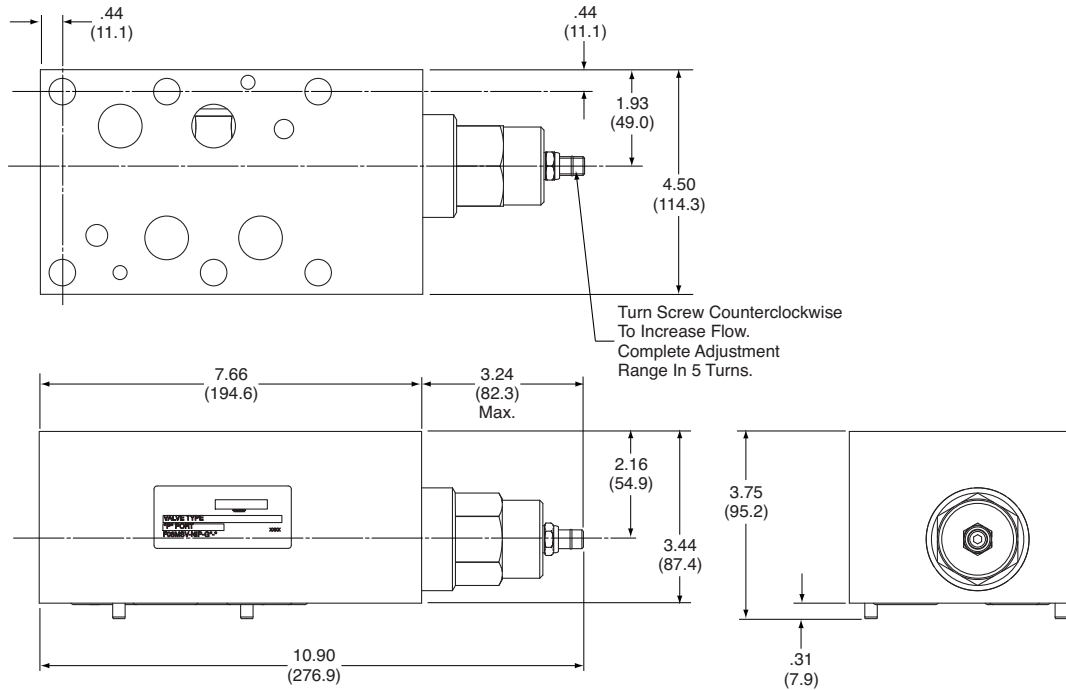
SPECIFICATIONS

Flow:	60 GPM (225 L/M) nominal
Internal Leakage:	5 drops per minute maximum at 5000 PSI (350 Bar)
Valve Bodies:	3000 PSI (207 Bar) = Aluminum (2024-T6)
Estimated Shipping Weight:	18 # Aluminum

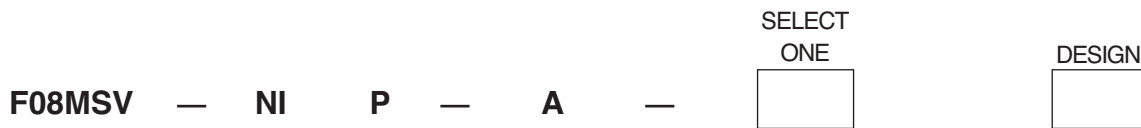
F08MSV-NIP

FLOW CONTROL VALVE, NON-COMENSATED

DIMENSIONS



ORDERING INFORMATION

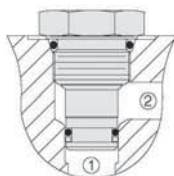


FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE		CODE	
FLOW CONTROL VALVE	NFPA D08 NG25 (CETOP 8)	MODULAR STACK VALVE	NON- COMPENSATED	P	P PORT	A	BUNA N	A	ALUMINUM

Body Only Assembly:

Aluminum (Part No.) — 552802K

Includes O-rings & Locating Pin.



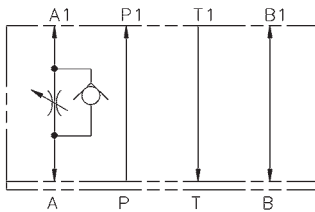
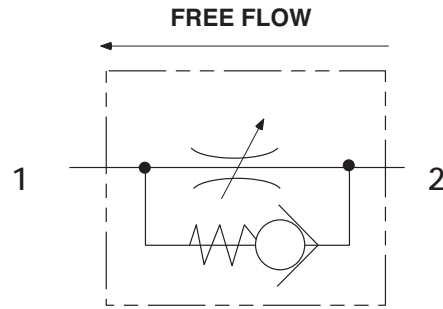
General Information:

- Cartridge cavity is Sun T18A with port flow pattern set up for cartridge flowing port 1 to port 2.
- Cartridge #: NFFC-LGN Buna N

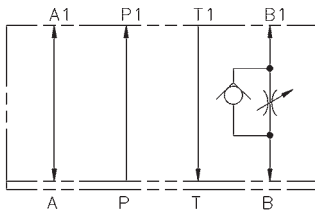
TYPICAL ORDERING CODE: **F08MSV-NIP-AA**

F08MSV-NOA / F08MSV-NOB / F08MSV-NOC

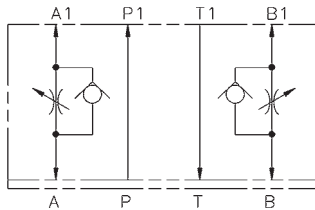
FLOW CONTROL VALVE, NON-COMPENSATED WITH CHECK



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
A PORT



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
B PORT



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
A - B PORT

DESCRIPTION

Utilizes a screw-in cartridge type, adjustable poppet type, hydraulic flow control valve with free reverse flow check.

OPERATIONS

This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

FEATURES & BENEFITS

- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-18A cavity
- Anodized aluminum

SPECIFICATIONS

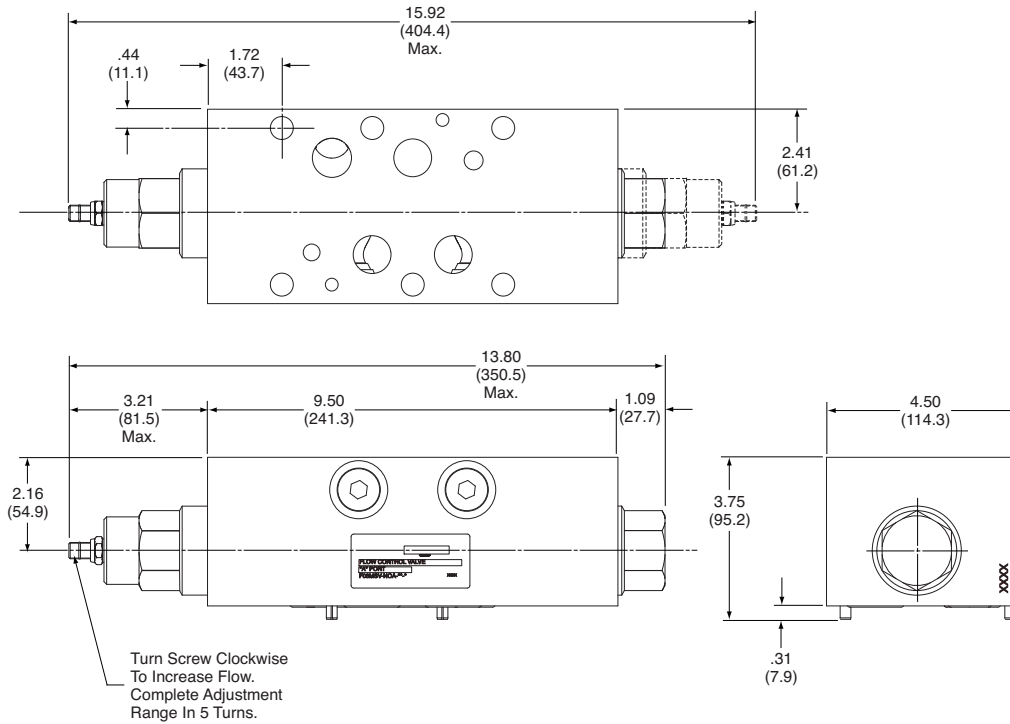
Flow:	60 GPM (225 L/M) nominal
Internal Leakage:	5 drops per minute maximum at 5000 PSI (350 Bar)
Valve Bodies:	3000 PSI (207 Bar) = Aluminum (2024-T4)
Estimated Shipping Weight:	18 # Aluminum

F08MSV-NOA / F08MSV-NOB / F08MSV-NOC

FLOW CONTROL VALVE, NON-COMENSATED WITH CHECK

DIMENSIONS

F08MSV-NOA / F08MSV-NOB / F08MSV-NOC



ORDERING INFORMATION

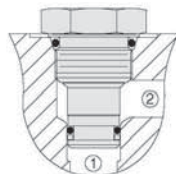


FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE		CODE	
FLOW CONTROL VALVE	NFPA D08 NG25 (CETOP 8)	MODULAR STACK VALVE	NON-COMPENSATED WITH CHECK (Meter-Out)	C	A & B PORT	A	BUNA N	A	ALUMINUM
				A	A PORT				
				B	B PORT				

Body Only Assembly

Aluminum (Part No.) — 552927K

Includes O-rings & Locating Pin



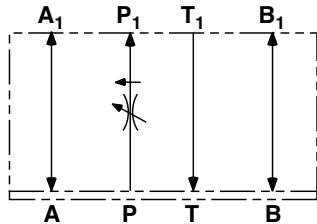
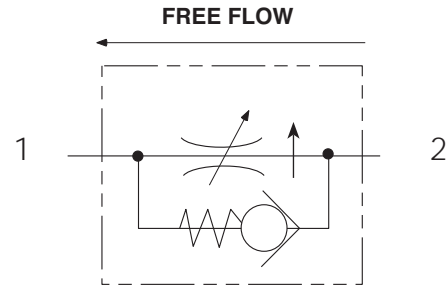
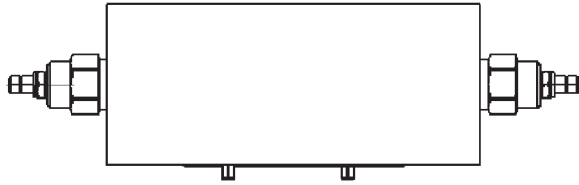
General Information

- Cartridge cavity is SUN T-18A with flow pattern metered from port 1 to part 2, free flow from port 2 to port 1
- Cartridge NCGB-LCN Buna N

TYPICAL ORDERING CODE: **F08MSV-N0C-AA**

F08MSV-CIP

FLOW CONTROL VALVE, PRESSURE COMPENSATED



VALVE TYPE

PRESSURE COMPENSATED FLOW
CONTROL VALVE
METER IN P PORT

DESCRIPTION

Utilizes a screw-in cartridge type, adjustable poppet type, hydraulic flow control valve.

OPERATIONS

This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

FEATURES & BENEFITS

- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-18A cavity
- Anodized aluminum

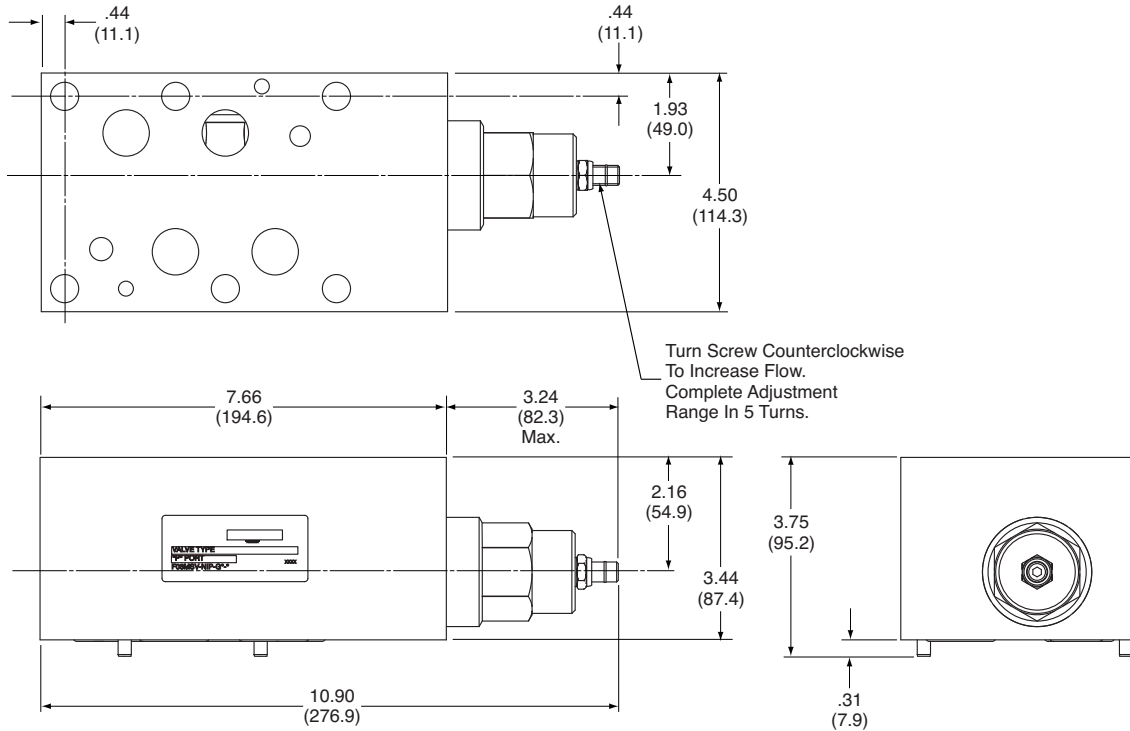
SPECIFICATIONS

Flow: 50 GPM (190 L/M) nominal

Valve Bodies: 3000 PSI (207 Bar) = Aluminum (2024-T6)

Estimated Shipping Weight: 18 # Aluminum

DIMENSIONS



ORDERING INFORMATION

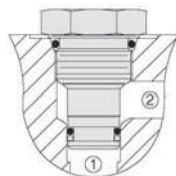
F08MSV — CI P — A — —

SELECT ONE DESIGN

FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE		CODE	
FLOW CONTROL VALVE	NFPA	MODULAR	PRESSURE						
	D08	STACK VALVE	COMPENSATED	P	P PORT	A	BUNA N	A	ALUMINUM
	NG25 (CETOP 8)								

Body Only Assembly:

Aluminum (Part No.) — 552802K
Includes O-rings & Locating Pin



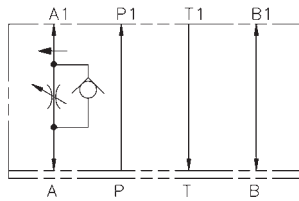
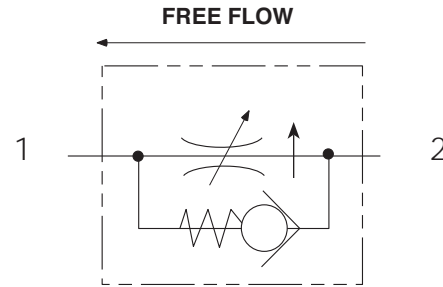
General Information:

- Cartridge cavity is Sun T18A with port flow pattern set up for cartridge flowing port 1 to port 2.
- Cartridge FDFA-LAN Buna N

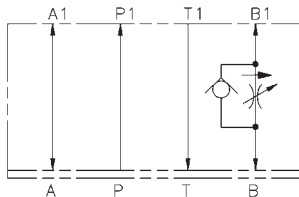
TYPICAL ORDERING CODE: **F08MSV-CIP-AA**

F08MSV-COA / F08MSV-COB / F08MSV-COC

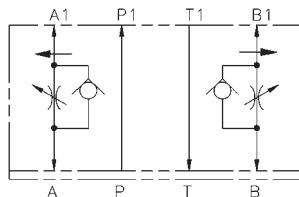
FLOW CONTROL VALVE, PRESSURE COMPENSATED WITH CHECK



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
A PORT



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
B PORT



VALVE TYPE
FLOW CONTROL VALVE
WITH CHECK
METER-OUT
A - B PORT

DESCRIPTION

This is a pressure compensated, fully adjustable flow control valve with reverse flow check.

OPERATION

This valve maintains a constant flow rate regardless of system pressure or load changes. Reverse flow will open the check at 10 PSI.

FEATURES & BENEFITS

- Sharp edge orifice to minimize flow variation
- All external parts are zinc-plated for long life against elements
- Uses Sun T-18A cavity
- 10 PSI reverse free flow check cracking pressure
- Minimum 18 cu. in./min. leakage at shutoff
- All cartridges are 100% tested functionally
- Anodized aluminum

SPECIFICATIONS

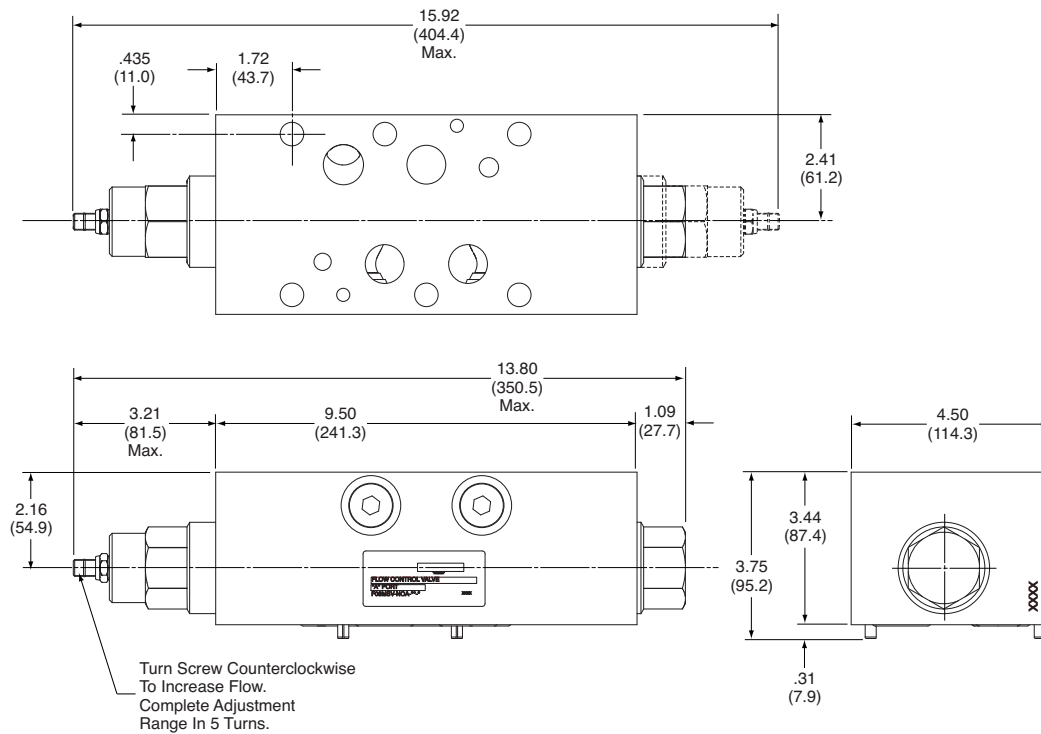
Flow:	50 GPM (190 L/M) nominal
Flow Accuracy:	Less than $\pm 5\%$ with a minimum of 200 PSI pressure differential
Valve Bodies:	3000 PSI (207 Bar) = Aluminum (2024-T4)
Estimated Shipping Weight:	18 # Aluminum

F08MSV-COA / F08MSV-COB / F08MSV-COC

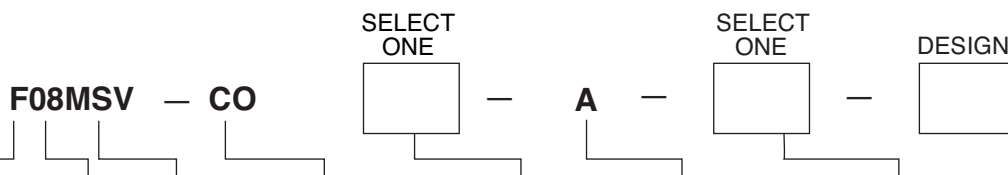
FLOW CONTROL VALVE, PRESSURE-COMENSATED WITH CHECK

DIMENSIONS

F08MSV-COA / F08MSV-COB / F08MSV-COC



ORDERING INFORMATION

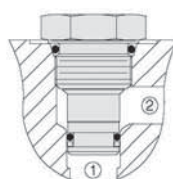


FUNCTION	SIZE	STYLE	TYPE	PORT		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE		CODE	
FLOW CONTROL VALVE	NFPA DO8 NG25 (CETOP 8)	MODULAR STACK VALVE	PRESSURE COMPENSATED WITH CHECK (METER-OUT)	A	A PORT	A	BUNA N	A	ALUMINUM
				B	B PORT				
				C	A & B PORT				

Body Only Assembly

Aluminum (Part No.) — 552927K

Includes O-rings & Locating Pin



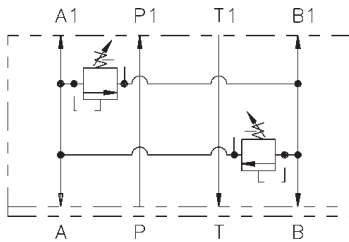
General Information

- Cartridge cavity is SUN T-18A with flow pattern metered from port 1 to port 2, free flow from port 2 to port 1
- Cartridge FDFA-LAN Buna N

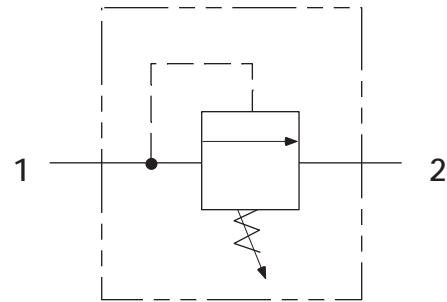
TYPICAL ORDERING CODE: **F08MSV-COC-AA**

P08MSV-XC

CROSS PORT RELIEF VALVE, PILOT OPERATED



VALVE TYPE
CROSS PORT
RELIEF VALVE
A TO B / B TO A



DESCRIPTION

Utilizes a cartridge type, guided poppet, hydraulic operated check valve as a blocking or load-holding device for high pressure applications.

OPERATIONS

The valve allows free flow from the work port to the outlet port and blocks flow in the opposite direction. Free flow will be allowed from the outlet port to the work port when at least one-third of the load induced pressure is sensed in the opposing work port.

FEATURES & BENEFITS

- Low friction seal on the pilot piston
- Separate heavy spring assures fast pilot piston return
- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-3A cavity
- Anodized aluminum

SPECIFICATIONS

Flow: 48 GPM (181 L/M) nominal

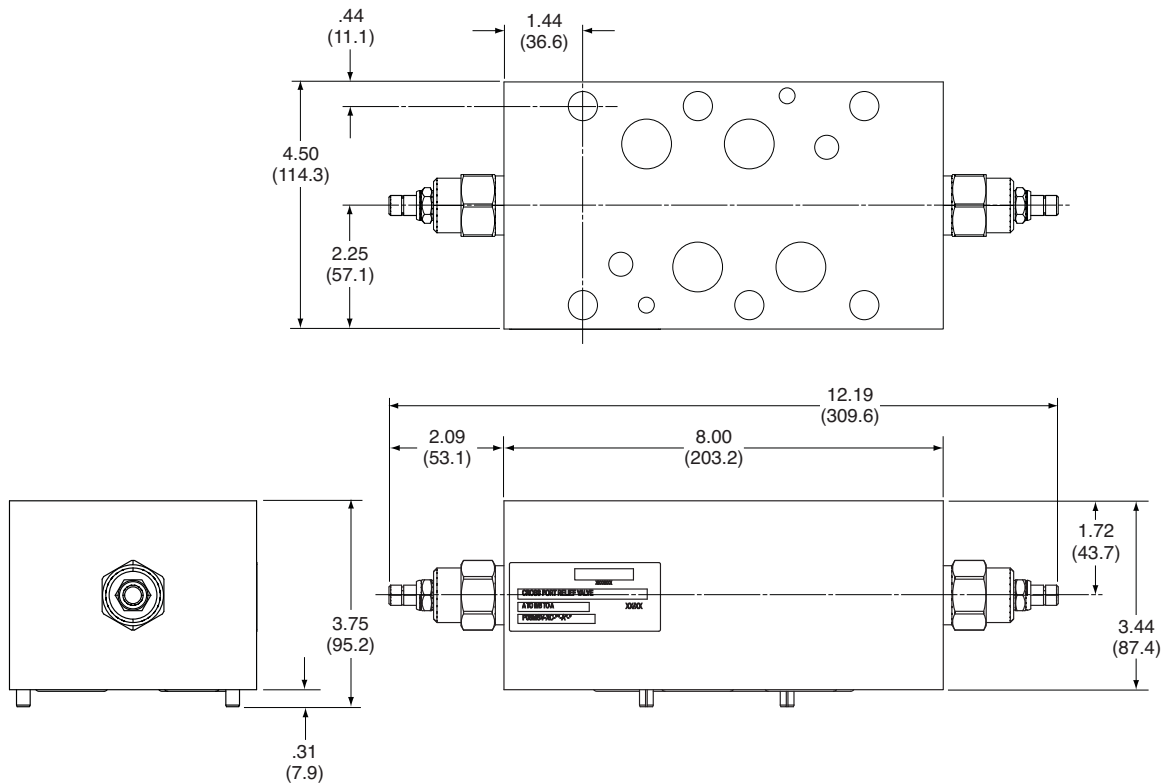
Valve Bodies: 3000 PSI (207 Bar) = Aluminum (2024-T4)

Estimated Shipping Weight: 18 # Aluminum

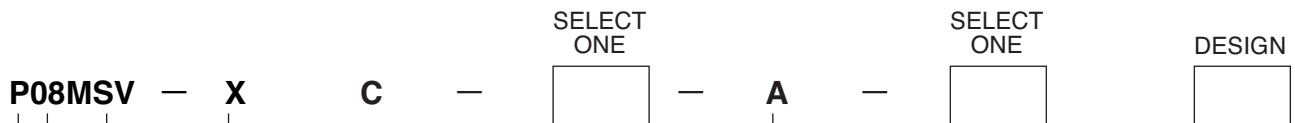
P08MSV-XC

CROSS PORT RELIEF VALVE, PILOT OPERATED

DIMENSIONS



ORDERING INFORMATION

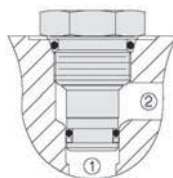


FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		PRESSURE RANGE		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE	PRESSURE	CODE		CODE	
PRESSURE CONTROL VALVE	NFPA	MODULAR	CROSSPORT	C	A & B PORT	150	50-1500 PSI	A	BUNA N	A	ALUMINUM
	NG25 (CETOP 8)	STACK VALVE	RELIEF VALVE			300	100-3000 PSI				

Body Only Assembly:

Aluminum (Part No.) — 1001206K

Includes O-rings & Locating Pin.



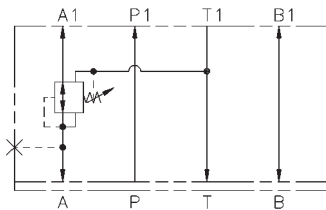
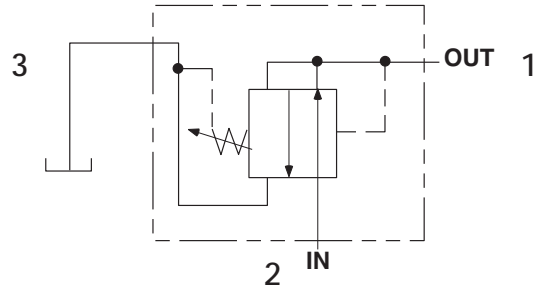
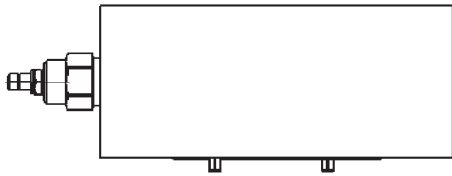
General Information:

- Cartridge cavity is HydraForce C12-2 with flow pattern set up for cartridge flowing from port 1 to port 2.
- Cartridge # RPGE-LBN Buna N 150
 RPGE-LAN Buna N 300

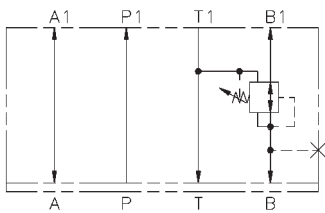
TYPICAL ORDERING CODE: **P08MSV-XC-150-AA**

P08MSV-PDRA / P08MSV-PDRB / P08MSV-PDRP

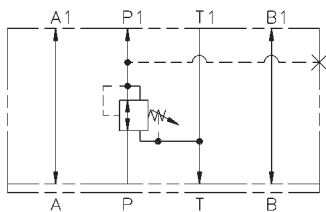
PRESSURE REDUCING / RELIEVING VALVE, PILOT OPERATED



VALVE TYPE
PRESSURE REDUCING/
RELIEVING VALVE
A-PORT



VALVE TYPE
PRESSURE REDUCING/
RELIEVING VALVE
B-PORT



VALVE TYPE
PRESSURE REDUCING/
RELIEVING VALVE
P-PORT

DESCRIPTION

This pilot operated hydraulic pressure reducing/relieving valve acts as a pressure-regulating device for a secondary circuit. It features a sliding spool and screw-in cartridge.

OPERATIONS

This valve will allow flow from the inlet port to the controlled port until pressure in the controlled port exceeds the force of the spring bias. Then the spool will shift and restrict. This causes reduced pressure in the controlled port. The valve will maintain the same pressure as the force of the spring setting regardless of the pressure at the inlet port. In this mode, the valve will also relieve from the controlled port to the drain port, regulating pressure at the controlled port.

FEATURES & BENEFITS

- Low friction seal on the pilot piston
- Separate heavy spring assures fast pilot piston return
- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-19A cavity
- Anodized aluminum

SPECIFICATIONS

Flow: 120 GPM (424 L/M) nominal

Valve Bodies: 2500 PSI (175 Bar) = Aluminum (20224-T4)

Gauge Post: #4 SAE Straight Thread

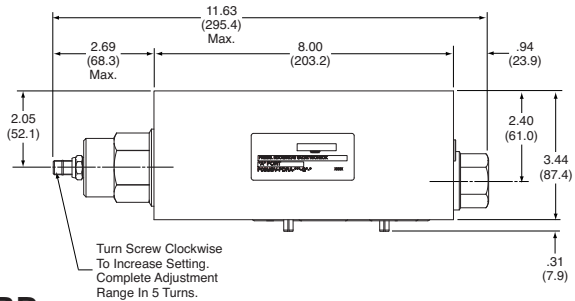
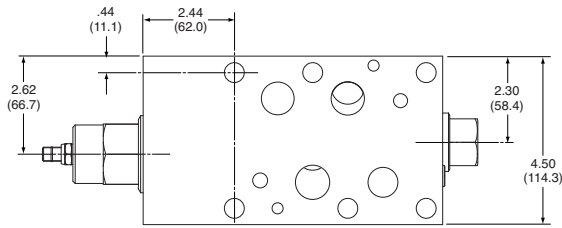
Estimated Shipping Weight: 18 # Aluminum

P08MSV-PDRA / P08MSV-PDRB / P08MSV-PDRP

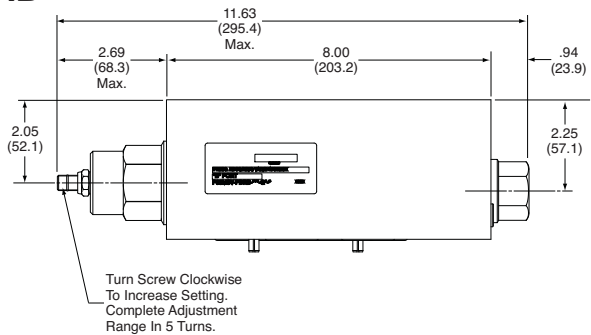
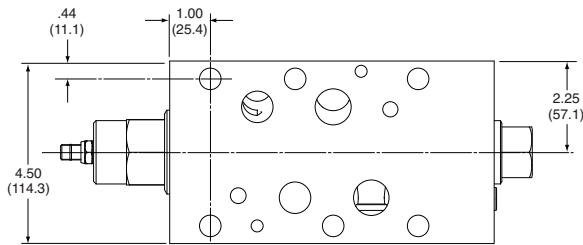
PRESSURE REDUCING / RELIEVING VALVE, PILOT OPERATED

DIMENSIONS

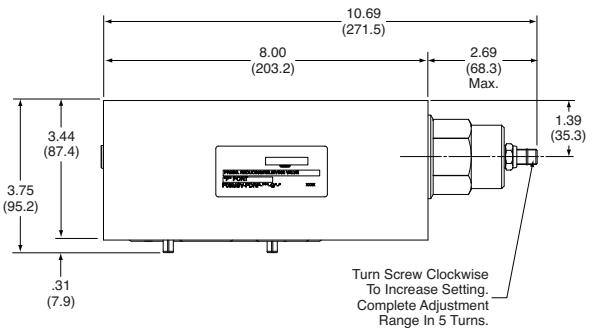
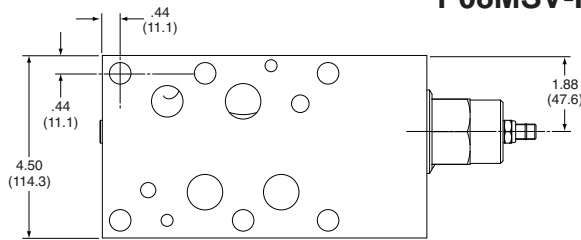
P08MSV-PDRA



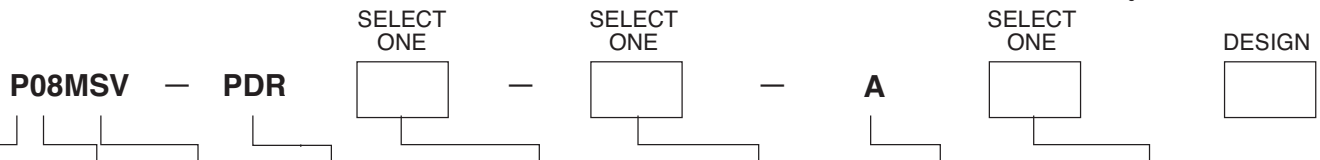
P08MSV-PDRB



P08MSV-PDRP

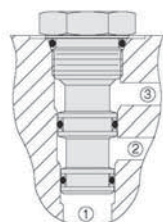


ORDERING INFORMATION



FUNCTION	SIZE	STYLE	VALVE FUNCTION	CONTROL PORT		ADJUSTMENT RANGE		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE	PRESSURE	CODE		CODE	
PRESSURE CONTROL VALVE	NFPA D08 NG25 (CETOP 8)	MODULAR STACK VALVE	REDUCING/RELIEVING PILOT OPERATED	A	A PORT	150	50-1500 PSI	A	BUNA N	A	ALUMINUM
				B	B PORT						
				P	P PORT	300	100-3000 PSI				

Body Only Assembly:
PDRA
 Aluminum (Part No.) — 552928K
PDRB
 Aluminum (Part No.) — 552929K
PDRP
 Aluminum (Part No.) — 552930K



General Information:

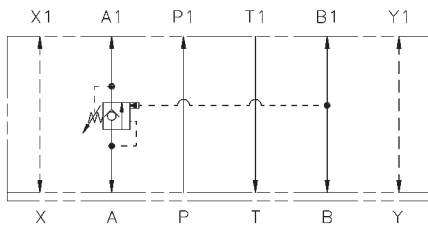
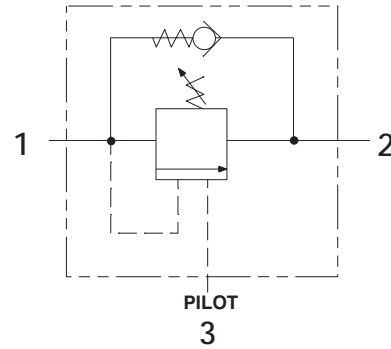
- Cartridge cavity is Sun T-19A with flow pattern set up for cartridge flowing from port 2 to port 1. Port 3 is tank.
- Cartridge # PPJB-LBN Buna N 150
PPJB-LAN Buna N 300

Includes O-rings & Locating Pin

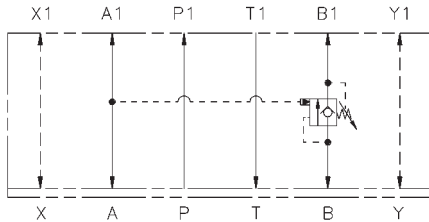
TYPICAL ORDERING CODE: **P08MSV-PDRP-300-AA**

P08MSV-CA / P08MSV-CB / P08MSV-CC

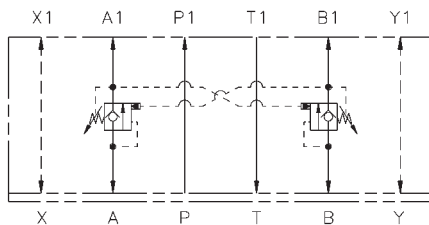
COUNTERBALANCE VALVE, PILOT OPERATED



VALVE TYPE
COUNTERBALANCE VALVE
A PORT



VALVE TYPE
COUNTERBALANCE VALVE
B PORT



VALVE TYPE
COUNTERBALANCE VALVE
A & B PORT

DESCRIPTION

Utilizes a cartridge type, guided poppet, hydraulic operated, pilot assisted, counterbalance valve as a blocking or load-holding device for high pressure applications.

OPERATIONS

The valve controls moving load and prevents it from running ahead of the pump and locking the load in any position. It also provides static overload and thermal expansion protection.

This valve is a modulating device that allows free flow from port 2 to port 1 and then blocks reverse flow until pilot pressure inversely proportional to the load pressure is sensed at port 3, modulating out flow from port 1 to port 2.

FEATURES & BENEFITS

- Leakproof screw adjustment
- Adjustment screw cannot be backed out of valve
- All external parts are zinc-plated for long life against elements
- All cartridges are 100% tested functionally
- Uses Sun T-19A cavity
- Anodized aluminum
- Low hysteresis and reliable operation

SPECIFICATIONS

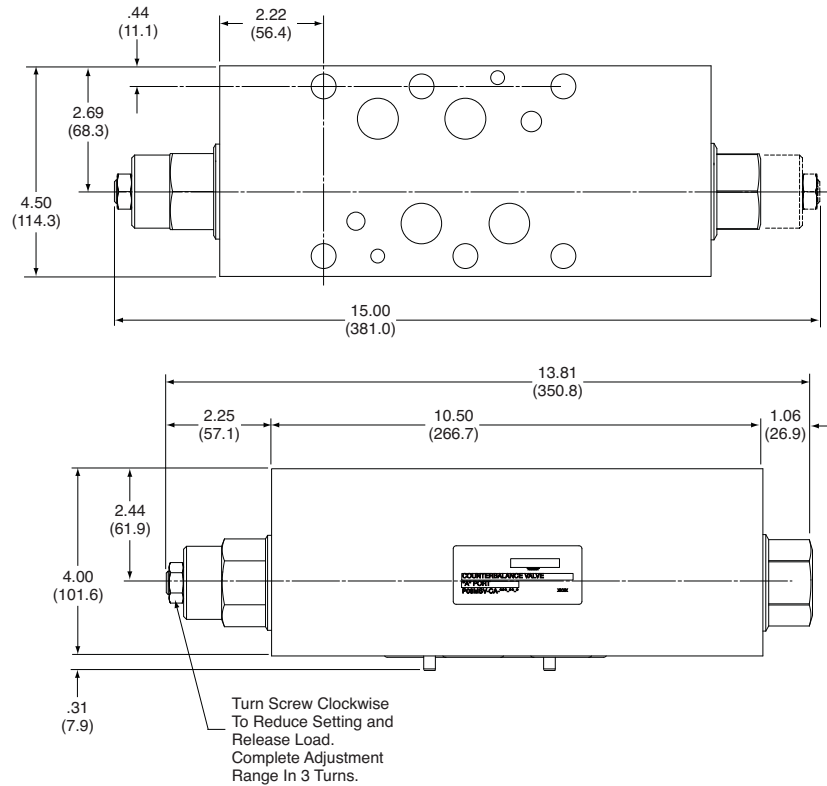
Flow:	120 GPM (424 L/M) nominal Refer to performance chart
Pilot Ratio:	3 to 1
Internal Leakage:	5 drops per minute maximum at 100 PSI below crack pressure
Valve Bodies:	3000 PSI (207 Bar) = Aluminum (2024-T4)
Estimated Shipping Weight:	18 # Aluminum

P08MSV-CA / P08MSV-CB / P08MSV-CC

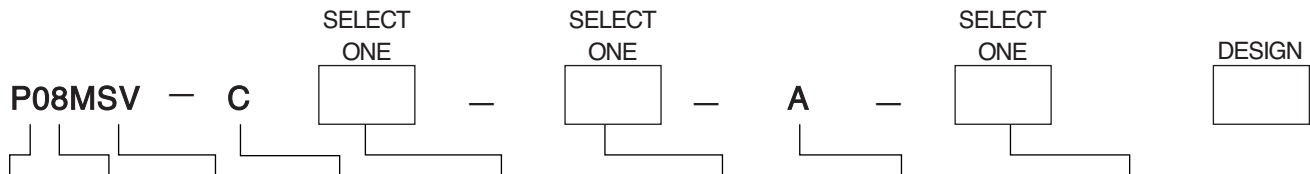
COUNTERBALANCE VALVE, PILOT OPERATED

DIMENSIONS

P08MSV-CA / P08MSV-CB / P08MSV-CC



ORDERING INFORMATION

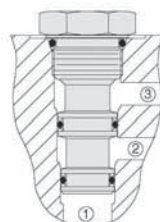


FUNCTION	SIZE	STYLE	TYPE	CONTROL PORT		CRACKING PRESSURE		SEALS		BODY MATERIAL	
				CODE	LOCATION	CODE	PRESSURE	CODE		CODE	
PRESSURE CONTROL VALVE	NFPA	MODULAR	COUNTER-BALANCE VALVE	A	A PORT	150	400-1500 PSI	A	BUNA N	A	ALUMINUM
	D08	STACK VALVE		B	B PORT						
	NG25 (CETOP 8)			C	A & B PORT	300	1000-2500 PSI				

Body Only Assembly:

Aluminum (Part No.) — 552875K

Includes O-rings & Locating Pin.



General Information:

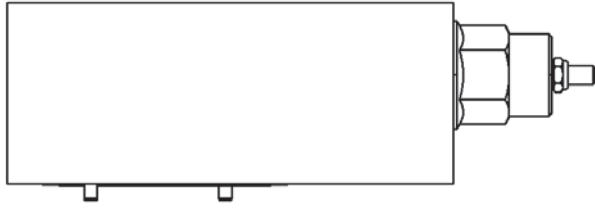
- Cartridge cavity is Sun T19A with flow pattern set up for cartridge flowing port 1 to port 2. Free flow from port 2 to port 1. Port 3 is pilot pressure.
- Cartridge #

CBIA-LIN	Buna N	150
CBIA-LHN	Buna N	300

TYPICAL ORDERING CODE: **P08MSV-CB-150-AA**

P08MSV-RCC / P08MSV-BCC

PRESSURE COMPENSATOR



DESCRIPTION

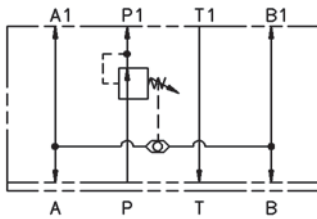
Utilizes a cartridge type pressure reducing or relief valve to create a constant pressure differential between the inlet and the outlet of an orifice or valve.

OPERATIONS

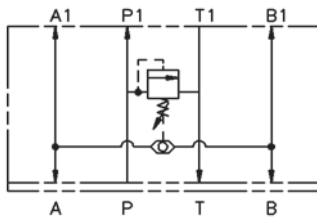
The valve controls the pressure drop by sensing the pressures in port A & B which is added to the spring setting causing the valve to open or close so it maintains a constant pressure drop. This will improve your system performance when widely changing loads are seen.

FEATURES & BENEFITS

- Low friction seal on the pilot piston
- All external parts are zinc-plated for long life
- All cartridges are 100% tested functionally
- Uses Sun T-19A cavity for cartridge
- Uses HydraForce VC04-B3 cavity for shuttle
- Anodized aluminum



VALVE TYPE
PRESSURE COMPENSATOR
(RESTRICTIVE)



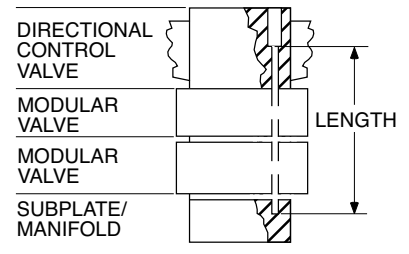
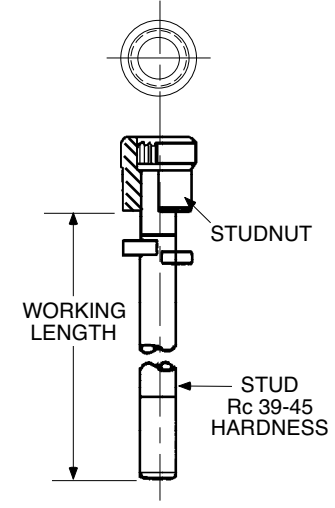
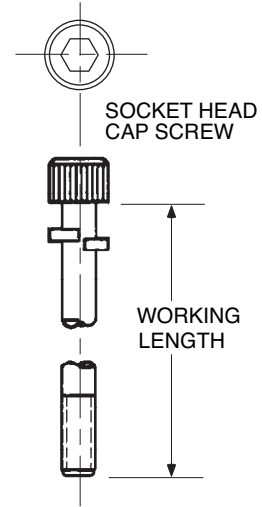
VALVE TYPE
PRESSURE COMPENSATOR
(BY-PASS)

SPECIFICATIONS

Flow:	RCC 120 GPM (424 L/M) nominal BCC 80 GPM (302 L/M) nominal
Internal Leakage:	5 drops per minute maximum at 5000 PSI (350 Bar)
Valve Bodies:	3000 PSI (207 Bar) = Aluminum (2024-T4)
Estimated Shipping Weight:	18 # Aluminum

VALVE BOLT KITS

MODULAR STACK VALVE	VALVE STACK(MM) INCH	ORDER CODE	TYPE	WORKING LENGTH (MM) INCH	WEIGHT lbs. (kg)
V5M / VD03M NFPA D03 CETOP 3 NG6 KIT: (4) 10-24NC FASTENERS (4) #10 LOCKWASHERS	DIRECTIONAL VALVE ONLY	BD03-100	BOLT	(25.5) 1.00	(0.02) 0.05
	VALVE + (1)(40.0) MODULAR 1.57 STACK	BD03-250	BOLT	(63.8) 2.50	(0.04) 0.08
	VALVE + (1)(50.0) MODULAR 1.96 STACK	BD03-300	BOLT	(76.0) 3.00	(0.05) 0.13
	VALVE + (2)(40.0) MODULAR 1.57 STACK	BD03-4125	BOLT	(104.8) 4.125	(0.08) 0.18
	VALVE +(1)(40.0) +(1)(50.0) MODULAR 1.57 1.96	BD03-450	BOLT	(114.0) 4.50	(0.09) 0.20
	VALVE + (3)(40.0) MODULAR 1.57 STACK	BD03-575	BOLT	(146.0) 5.75	(0.10) 0.23
	VALVE+ (2) (40.0) MODULAR 1.57 STACK	BD03-460	STUD	(104.8) 4.125	(0.08) 0.18
	VALVE + (3)(40.0) MODULAR 1.57 STACK	BD03-616	STUD	(146.0) 5.75	(0.10) 0.23
V12M / VD0-5M NFPA D05 CETOP 5 NG10 KIT: (4) 1/4-20NC FASTENERS (4) 1/4" LOCKWASHERS	DIRECTIONAL VALVE ONLY	BD05-175	BOLT	(44.6) 1.75	(0.05) 0.11
	VALVE + (1)(55.0) MODULAR 2.17 STACK	BD05-400	BOLT	(102.0) 4.00	(0.10) 0.24
	VALVE + (2)(55.0) MODULAR 2.17 STACK	BD05-6125	BOLT	(155.6) 6.125	(0.20) 0.44
	VALVE + (3)(55.0) MODULAR 2.17 STACK	BD05-825	BOLT	(209.6) 8.25	(0.25) 0.55
	VALVE + (2)(55.0) MODULAR 2.17 STACK	BD05-667	STUD	(155.6) 6.125	(0.20) 0.44
	VALVE + (3)(55.0) MODULAR 2.17 STACK	BD05-884	STUD	(209.6) 8.25	(0.25) 0.55
V50M / VD08M DVS50M NFPA D08 CETOP 8 NG25 (6) 1/2-13NC FASTENERS (6) 1/2" LOCKWASHERS	DIRECTIONAL VALVE ONLY	BD08-275	BOLT	(70.1) 2.75	(0.57) 1.25
	VALVE + (1)(88.9) MODULAR 3.44 STACK	BD08-625	BOLT	(159.4) 6.25	(1.02) 2.25
	VALVE + (1)(101.6) MODULAR 4.00 STACK	BD08-675	BOLT	(172.1) 6.75	(1.08) 2.40
	VALVE + (2)(88.9) MODULAR 3.44 STACK	BD08-9625	BOLT	(244.5) 9.625	(1.70) 3.75
	VALVE +(1) (88.9)+(1)(101.6) MODULAR 3.44 4.00	BD08-1020	BOLT	(260.0) 10.25	(1.81) 4.00
	VALVE + (2)(101.6) MODULAR 4.00 STACK	BD08-1080	BOLT	(273.0) 10.75	(1.87) 4.13
	VALVE + (2)(88.9) MODULAR 3.44 STACK	BD08-1025	STUD	(244.5) 9.625	(1.70) 3.75
	VALVE +(1) (88.9) +(1)(101.6) MODULAR 3.44 4.00	BD08-1075	STUD	(260.0) 10.25	(1.81) 4.00
	VALVE +(2)(101.6) MODULAR 4.00 STACK	BD08-1125	STUD	(273.0) 10.75	(1.87) 4.13
	V100M / VD10M NFPA D10 CETOP 10 KIT: (6) 3/4-10NC FASTENERS (6) 3/4" LOCKWASHERS	DIRECTIONAL VALVE ONLY	BD10-250	BOLT	(63.8) 2.50



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