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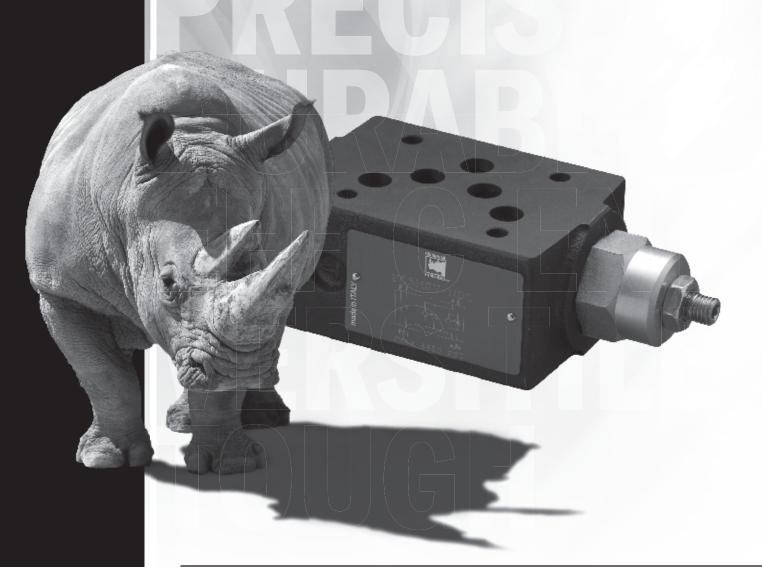
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"For All Your Hydraulic Needs"

CONTINENTAL HYDRAULICS

F05MSV-N*

FLOW CONTROL VALVE, NON-COMPENSATED WITH CHECK





FLOW CONTROL VALVE, NON-COMPENSATED WITH CHECK



DESCRIPTION

This is a non-compensated flow control valve with a check valve for reverse free flow.

OPERATIONS

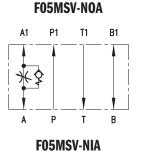
This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

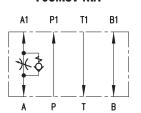
Available with check valve on line A, B or both lines, for meter-in and meter-out.

TYPICAL PERFORMANCE SPECIFICATIONS

MAXIMUM OPERATING I	PRESSURE	5000 psi	350 bar		
CRACKING PRESSURE		7 psi	0.5 bar		
MAXIMUM FLOW RATE		32 gpm 120 l/min			
MOUNTING SURFACE		NFPA D05 ISO 4401-05-04-0-05			
WEIGHT	With One Cartridge	5.1 lbs	2.3 kg		
WEIGHT	With Two Cartridges	5.5 lbs	2.5 kg		

AVAILABLE VERSIONS



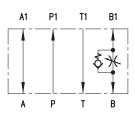


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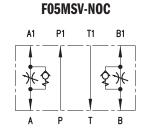
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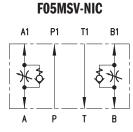
A1 P1 T1 B1 A P T B F05MSV-NIB A1 P1 T1 B1

F05MSV-N0B



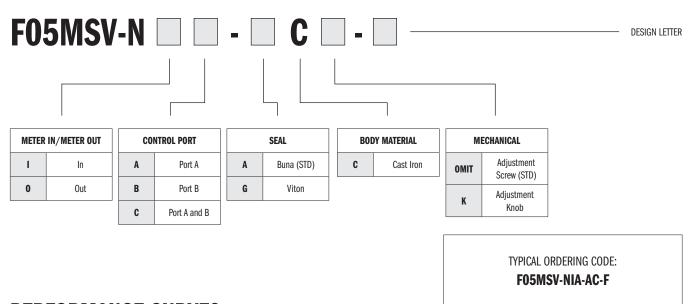
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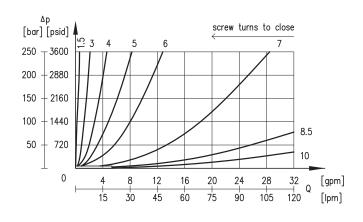
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IDENTIFICATION CODE



PERFORMANCE CURVES

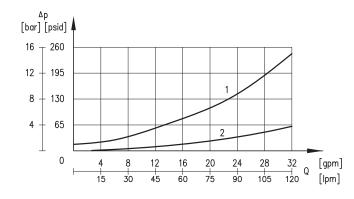
FLOW ADJUSTMENT



NOTES:

- 1. Controlled flow as a function of pressure drop with different restrictor opening values.
- 2. Values obtained with oil viscosity of 170 SUS (36 cSt) at 122°F (50°C).

PRESSURE DROPS Δp - Q



NOTES:

- 1. Pressure drops through the check valve with restrictor all closed.
- 2. Pressure drops through the free ports.



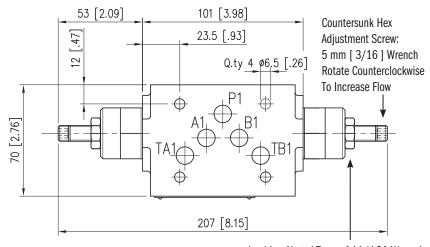
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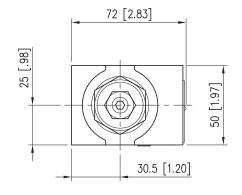
DIMENSIONS

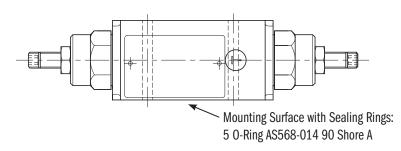
Dimensions in mm [IN]

F05MSV-N*C

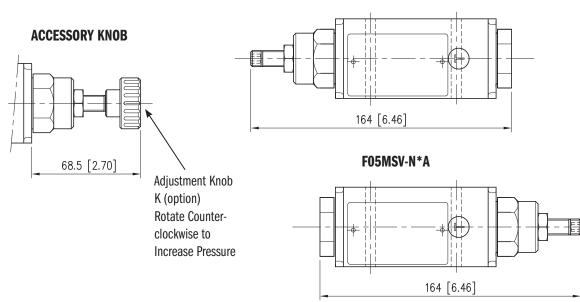


Locking Nut: 17 mm [11/16] Wrench





F05MSV-N*B





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APPLICATION DATA

FLUIDS

All pressure drops shown on these data pages are based on 170 SUS fluid viscosity and 0.87 specific gravity. For any other specific gravity (G1) the pressure drop (ΔP) will be approx. $\Delta P1 = \Delta P$ (G1/G). See the chart for other viscosities.

FLUID	Cst	10	14.5	32	36	43	54	65	76	86	108	216	324	400
VISCOSITIES	SUS	60	75	150	170	200	250	300	350	400	500	1000	1500	1900
MULTIPIER		0.77	0.81	0.97	1.00	1.04	1.10	1.15	1.20	1.24	1.31	1.56	1.72	1.83

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code G). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department.

Using fluids at temperatures higher than 180 °F causes the accelerated degradation of seals as well as degradation of the fluids physical and chemical properties.

From a safety standpoint, temperatures above 130 degrees F are not recommended.

SEAL KIT

BUNA SEAL KIT	1013665
VITON SEAL KIT	1013666



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ABOUT CONTINENTAL HYDRAULICS

Rugged, durable, high-performance, efficient—the reason Continental Hydraulics' products are used in some of the most challenging applications across the globe. With a commitment to quality customer support and innovative engineering, Continental's pumps, valves, power units, mobile and custom products deliver what the markets demand. Continental has been serving the food production, brick and block, wood products, automotive and machine tool industries since 1962. Learn how our products survive some of the most harsh environments.

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