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# CONTINENTAL HYDRAULICS POSSURE REDUCING / RELIEVING VALVE

4895 12TH AVENUE EAST • SHAKOPEE, MN 55379 / PH: 952.895.6400 / WWW.CONTINENTALHYDRAULICS.COM





# **PO3MSV-PDR\*** PRESSURE REDUCING / RELIEVING VALVE



## DESCRIPTION

The PO3MSV-PDR valve is a modular three-way spool type direct operated pressure reducing / relieving valve. It is available with fixed or variable adjustment.

This valve is available with reduced pressure control on port A, B or P.

The valve construction provides good adjustment sensitivity with reduced drainage flow. The drainage is connected to line T inside the valve.

The three-way design provides protection of the secondary circuit from pressure surges since it allows a reverse flow from the actuator to the T discharge line.

The variable adjustment version is supplied with a hexagonal head adjustment screw.

The fixed adjustment version is available preset to 285 psi (20 bar) 360 psi (25 bar) or 430 psi (30 bar) pressure.

### **OPERATIONS**

The valve is normally open passing hydraulic fluid freely from P to P1 until the control port pressure reaches the pressure setting. The valve will shift to deliver just enough flow to maintain the controlled pressure. The valve will divert flow to the T port to relieve the control port pressure when it exceeds the pressure setting.



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#### **TYPICAL PERFORMANCE SPECIFICATIONS**

MAXIMUM OPERATING PRESSURE		5000 psi	350 bar
MAXIMUM PRESSURE	T Port	145 psi	10 bar
MAXIMUM FLOW Rate	Controlled Lines	13 gpm	50 l/min
	Free Lines	20 gpm	75 I/min
	Drainage	$\leq$ 4.9 in <sup>3</sup> /min	$\leq$ 0.08 l/min
MOUNTING SURFACE NFPA D03 ISO 4401-03-02-0-1			
WEIGHT		3.1 lbs	1.4 Kg

RANGE TEMPERATURES FLUID VISCOSITY	Ambient	-4 to +130 °F	-20 to +54 °C
	Fluid	- 4 to +180 °F	-20 to +82 °C
	Range	60-1900 SUS	10-400 cSt
	Recommended	120 SUS	25 cSt
FLUID CONTAMINATION		ISO 4406:1999 Class 20/18/15	

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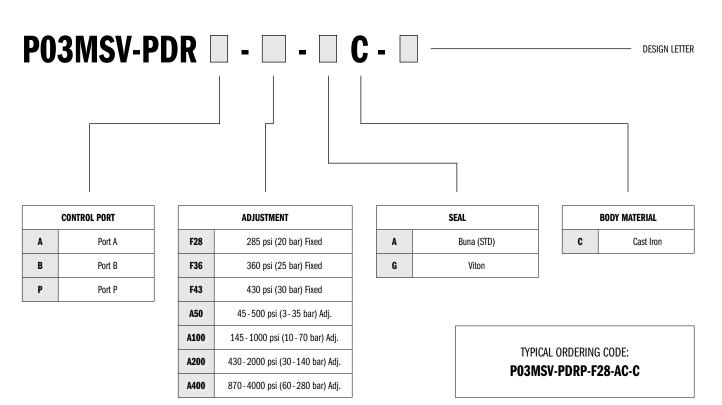


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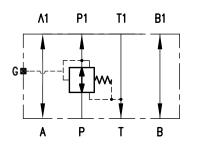


**IDENTIFICATION CODE** 

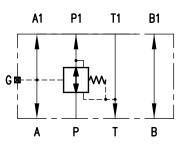


# **AVAILABLE VERSIONS - FIXED ADJUSTMENT**

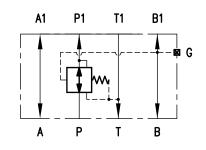
#### P03MSV-PDRP-F\*



#### P03MSV-PDRA-F\*

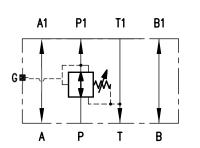


#### P03MSV-PDRB-F\*

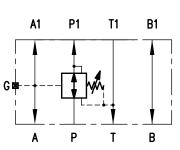


# **AVAILABLE VERSIONS - VARIABLE ADJUSTMENT**

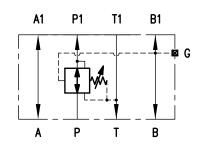
P03MSV-PDRP-A\*



#### P03MSV-PDRA-A\*



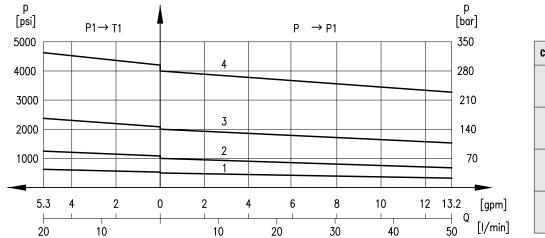
P03MSV-PDRB-A\*





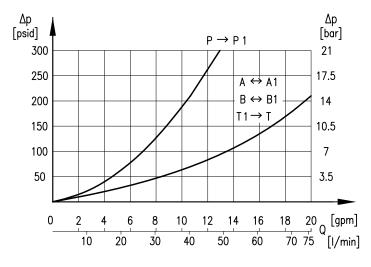
# **CHARACTERISTICS - VARIABLE ADJUSTMENT**

#### PRESSURE REGULATION



CURVE	PRESSURE CODE
1	A50
2	A100
3	A200
4	A400

#### PRESSURE DROPS ∆p - Q



#### NOTE:

Curves obtained with mineral oil with viscosity of 170 SUS (36 cSt) at 122°F (50°C).



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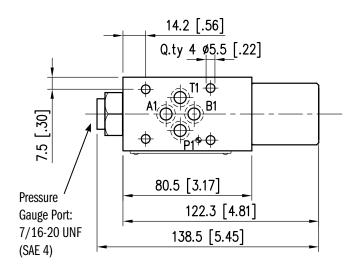
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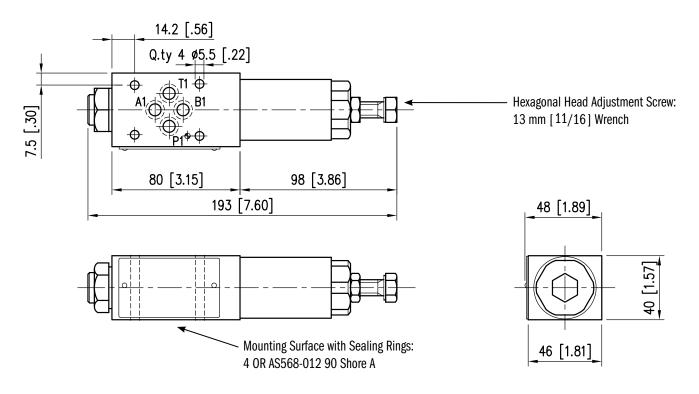


Dimensions in mm [IN]

#### **FIXED ADJUSTMENT**



#### **VARIABLE ADJUSTMENT**



**SEAL KIT** 

BUNA SEAL KIT	1013661			
VITON SEAL KIT	1013662			

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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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