



PRV920 Series

RELIEF VALVE

Press Fit / Cartridge Design



 **MAROTTA®**

We're in Control

Press Fit, Cartridge Design

The compact PRV920 relief valve is designed for aircraft hydraulic systems. It is in service in the aileron secondary flight control system on the F/A-18E/F.

The PRV920 is a cartridge-type press-fit relief valve. It is used for hydraulic oil and has an adjustable set pressure range of 5000-6000psig. Flow rate is approximately 1.2 gpm at 7000 psid. The CRES 440C spring-loaded poppet holds a ceramic ball against as hard metal CRES 440C seat, providing long life and a tight seal.



Features:

- Miniature size
- Ceramic ball-on-metal seat for maximum service life
- No elastomers
- Adjustable reseal pressure
- Many variations available

Model	PRV920
Part Number	2842100-XXXX
Pressure Range	0-5,000 psig
Proof Pressure	7,500 psig
Burst Pressure	12,500 psig
Operating Temperature	-65°F to 240°F
Reseat	5,700 psid
Flow	1.2 gpm at 7,000 psid
Leakage	max 10cc per min at 5,700 psid
Body Material	CRES 416
Trim	CRES 440C
Seat Material	CRES 440C on a ceramic ball
Weight	13.5 grams

Note: The listed performance data represents specific program requirements and not the design limitations of the device. Materials and pressure ranges can be varied to meet customer requirements.



78 Boonton Avenue
P.O. Box 427
Montville, NJ 07045 USA
1.973.334.7800 marotta.com

WHEN IT COMES TO
SPECIALTY FLUID CONTROLS
WE'RE IN CONTROL