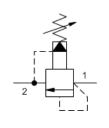
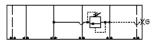


MODEL **RPGCLAN-CDA** 





#### **CARTRIDGE CONFIGURATION**

L	Control	Standard Screw Adjustment
Α	Adjustment Range	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting
Ν	Seal Material	Buna-N
(none)	Material/Coating	

# MANIFOLD CONFIGURATION

(none)	Modifier	6061-T651 Aluminum,
		Buna-N

## PORT HEADINGS AND SIZES

Modifiers	Ports
CDA, /10, /11, /15, /16, /S,	Gage Port (Plugged):
/S3, /V, /Y, /Y3	1/4" NPTF;
CDA/1A, /1B, /1F, /1G, /M, /T,	Gage Port (Plugged):
/T3, /W, /W3, /Z	1/4" BSPP;

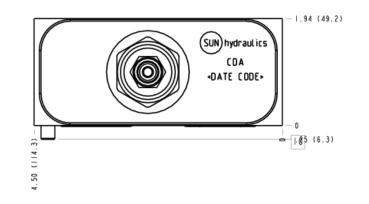
## NOTES

For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

Seal retainer plate is not required for this model.

Important: Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.

## Pilot-operated, balanced piston relief valve CAPACITY: 50 gpm | CAVITY: T-3A



Pilot-operated, balanced-piston relief cartridges are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure. These valves are accurate, have low pressure rise vs. flow, they are smooth and quiet, and are moderately fast.

# CARTRIDGE TECHNICAL DATA

Cavity	T-3A	
Series	2	
Capacity	50 gpm	
Maximum Operating Pressure	5000 psi	
Factory Pressure Settings Established at	4 gpm	
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in³/min.@1000 psi	
Response Time - Typical	10 ms	
Adjustment - No. of CW Turns from Min. to Max. setting	5	
Valve Hex Size	1 1/8 in.	
Valve Installation Torque	45 - 50 lbf ft	
Adjustment Screw Internal Hex Size	5/32 in.	
Locknut Hex Size	9/16 in.	
Locknut Torque	80 - 90 lbf in.	
Seal kit - Cartridge	Buna: 990-203-007	
Seal kit - Cartridge	EPDM: 990-203-014	
Seal kit - Cartridge	Polyurethane: 990-003-002	
Seal kit - Cartridge	Viton: 990-203-006	
Model Weight	0.57 lb.	

## MANIFOLD TECHNICAL DATA

Body Type	Sandwich
Interface	ISO 08
Body Features	A to T with gage port
Stack Height	1.94 in.
Seal Plate Included (see notes)	No

Seal Plate Included (see notes)

· · ·	
Open Cavities	1
Cavity	Т-ЗА
Port Size	1/4" NPTF
Model Weight	4.08 lb.

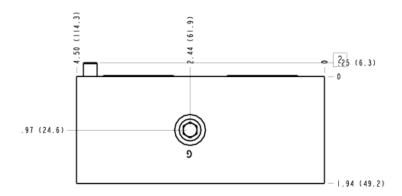
#### CARTRIDGE TECHNICAL FEATURES

- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Main stage orifice is protected by a 150-micron stainless steel screen.
- Not suitable for use in load holding applications due to spool leakage.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- W and Y controls (where applicable) can be specified with or without a special setting. When no special setting is specified, the valve is adjustable throughout its full range using the W or Y control. When a special setting is specified, this setting represents the maximum setting of the valve.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

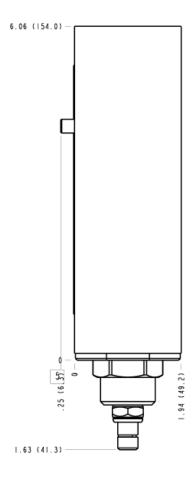
#### ASSEMBLY FACES

FACE GRID			
1	2	3	4
5	6	7	8
9	10	11	12

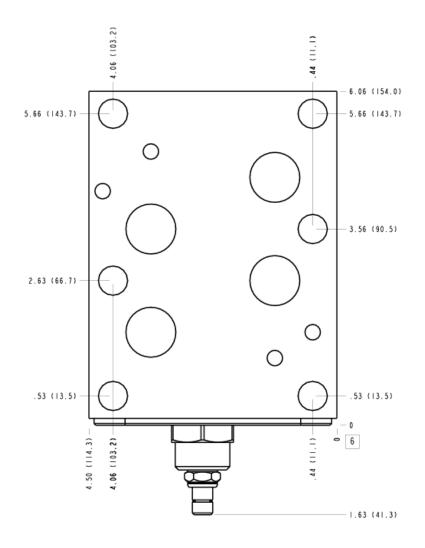




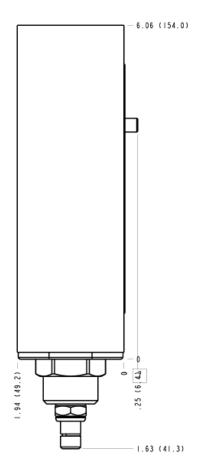
Face 5



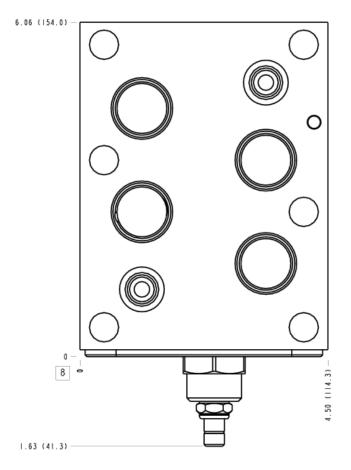
Face 6



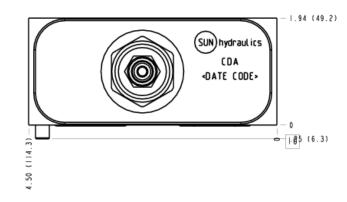
Face 7







Face 10



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