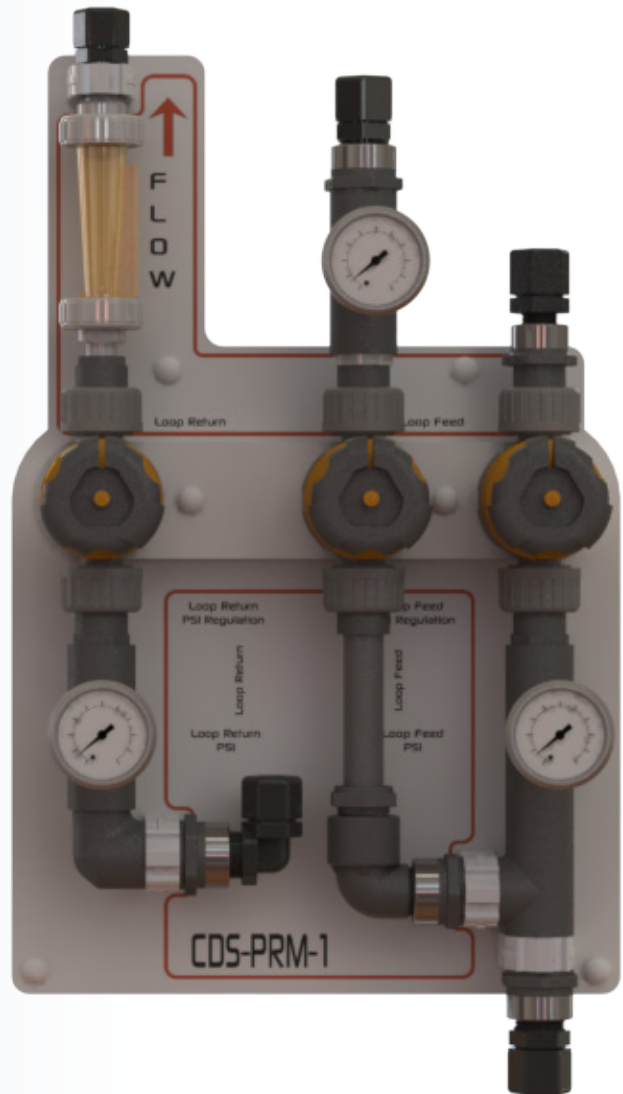


# Operation Manual



## Concentrate Distribution System Pressure Relief Manifold (PRM)

### A-CDS-PRM-1-X

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**Section 1.1****WARNINGS AND CAUTIONS****WARNINGS** 

- Read this manual in its entirety before operating the Concentrate Distribution Pressure Relief Manifold.
- Misuse, improper operation, and/or improper monitoring of this equipment could result in serious injury, death, or other serious reactions to the end users of the equipment.
- Routine maintenance of the system is required to protect the system from tank implosion/bursting which could result in damage to the facility, injury to staff, or the end users of the equipment.

**CAUTIONS** 

- All local, state, and federal regulations regarding the installation and operation of this system must be observed.

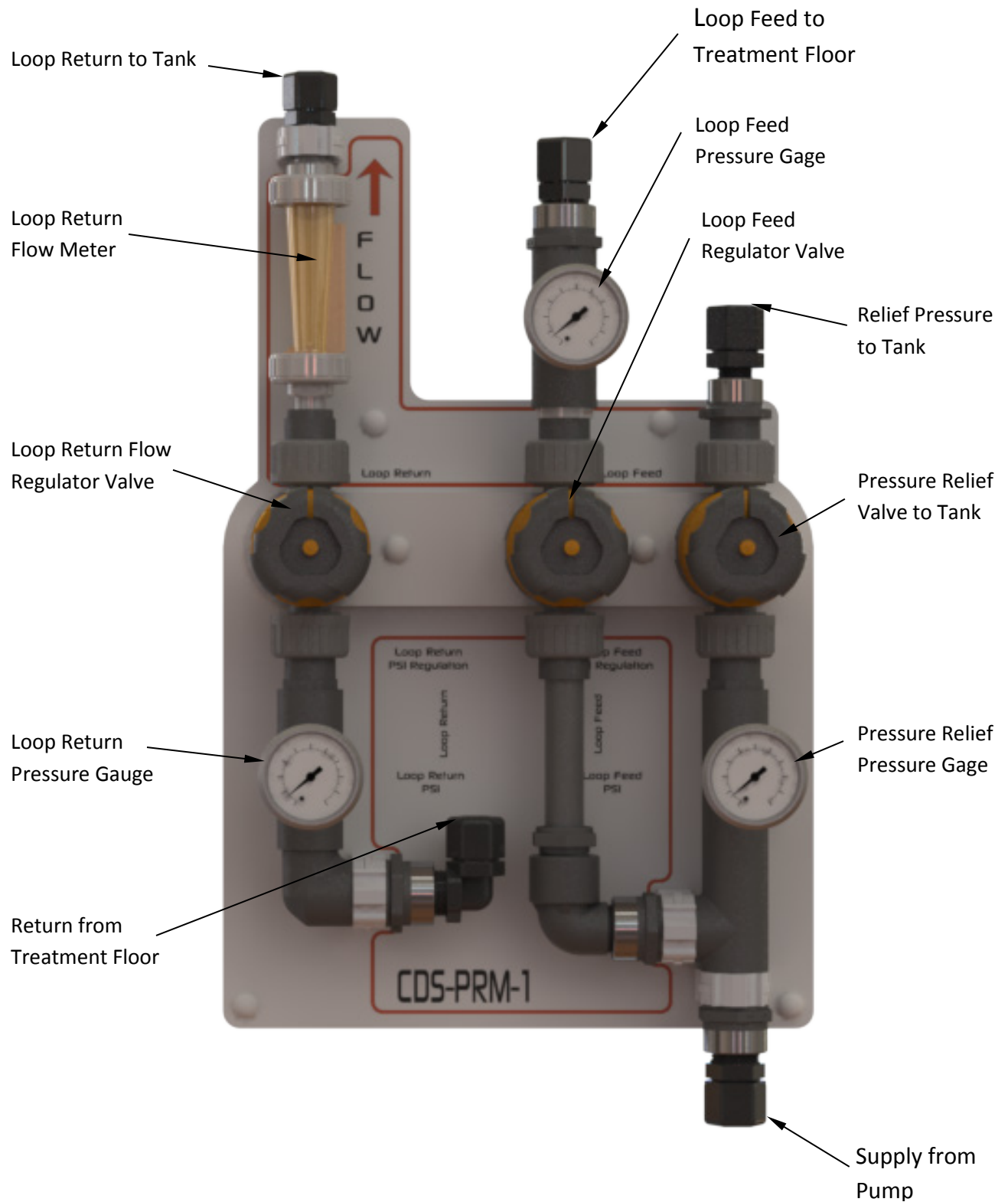
**Section 1.2****THEORY OF OPERATION**

The SWT A-CDS-PRM-1-X is a component of the concentrate delivery system. It is designed to regulate the flow of Dialysis Concentrate. The control manifold is mounted near the concentrate tank.

The system may be ordered with red, yellow or orange tubing and colored labeling depicting “Primary”, “Secondary” or “Tertiary”.

Section 1.3

SYSTEM ILLUSTRATION



**Section 1.4****ADJUST FLOW****Adjust Flow:**

1. Unlock all three valves by pushing lock tabs INWARD to unlock position.
2. Turn all three valves counter clock wise until fully open.
3. Adjust loop feed clockwise until you have desired pressure. If more pressure is needed at loop feed adjust pressure relief valve off (clockwise).
4. Make adjustments until pressure is balanced throughout system and there is flow returning to tanks.
5. Lock all three valves by pushing lock tabs OUTWARD to locked position.

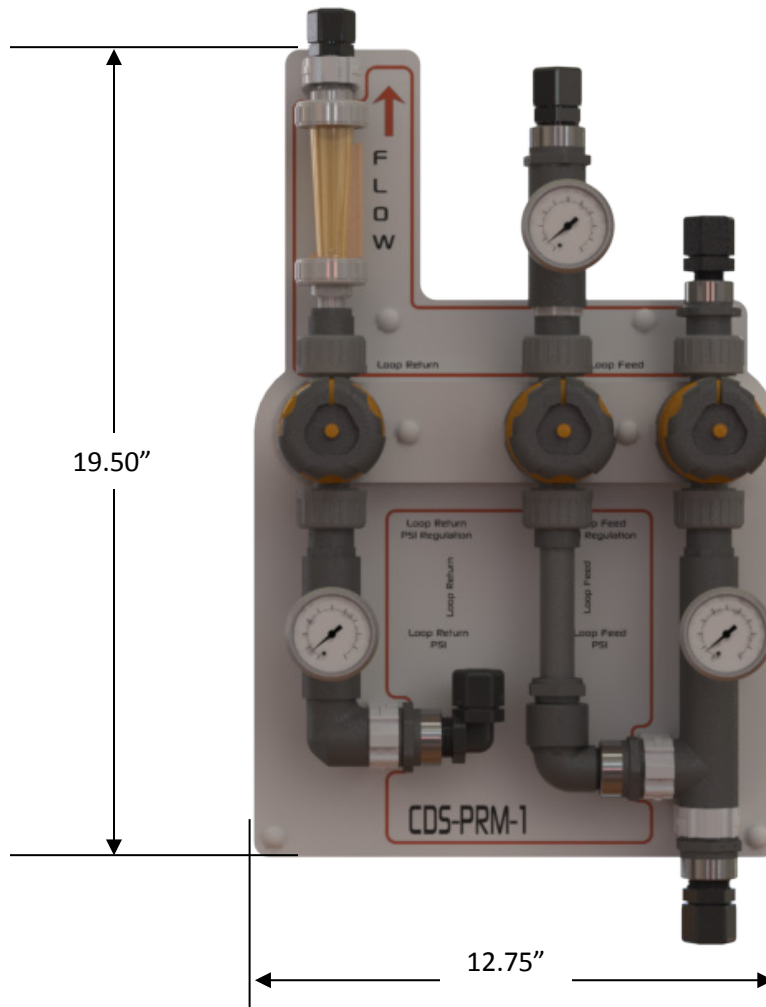
**Locked Position****Un-Locked Position**

**Section 1.5****PURGE AIR FROM SYSTEM****Purging Air from System:**

1. Unlock all three valves by pushing lock tabs INWARD to unlock position.
2. ***Ensure storage tank is full before trying to purge loop.***
3. Turn all three valves counter-clock wise until fully open.
4. Turn pressure relief valve clockwise until closed diverting all pressure through the loop.
5. Let all air purge completely (Could take >30 min)
6. Purge until no sign of air is visible at flow meter
7. Use wands to purge air from patient station wall boxes (plug in each port and ensure flow is present) ***\*Must Have Flow at Return\****
8. Turn pressure relief valve counter clockwise to relieve pressure from the loop.
9. Adjust loop feed and pressure relief valves until pressure is balanced on treatment floor, ensuring you have flow to tank.
10. Lock all three valves by pushing lock tabs OUTWARD to locked position.

**Section 2.1****SPECIFICATIONS****DIMENSIONS:**

12.75" W x 19.5" H

**MODELS:**

- |               |   |
|---------------|---|
| A-CDS-PRM-1-R | Primary - Red Tubing, Red Labeling                  |
| A-CDS-PRM-1-Y | Secondary - Yellow Tubing, Yellow Labeling          |
| A-CDS-PRM-1-O | Tertiary/Secondary - Orange Tubing, Orange Labeling |



**Section 3.1****ROUTINE MAINTENANCE**

Routine inspection of the system is recommended. Follow all facility procedures regarding regular inspection of equipment.

Quarterly system should be inspected as follows:

- Over the course of time, the variation of temperatures, pressure and vibration may cause some fittings to loosen. Tighten only enough to stop the leak. Overtightening may cause damage to the fitting.
- Check hand-tightened fittings (valve couplings) for leaks. Hand tighten only enough to stop leak. Overtightening may cause damage to the valve union.



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