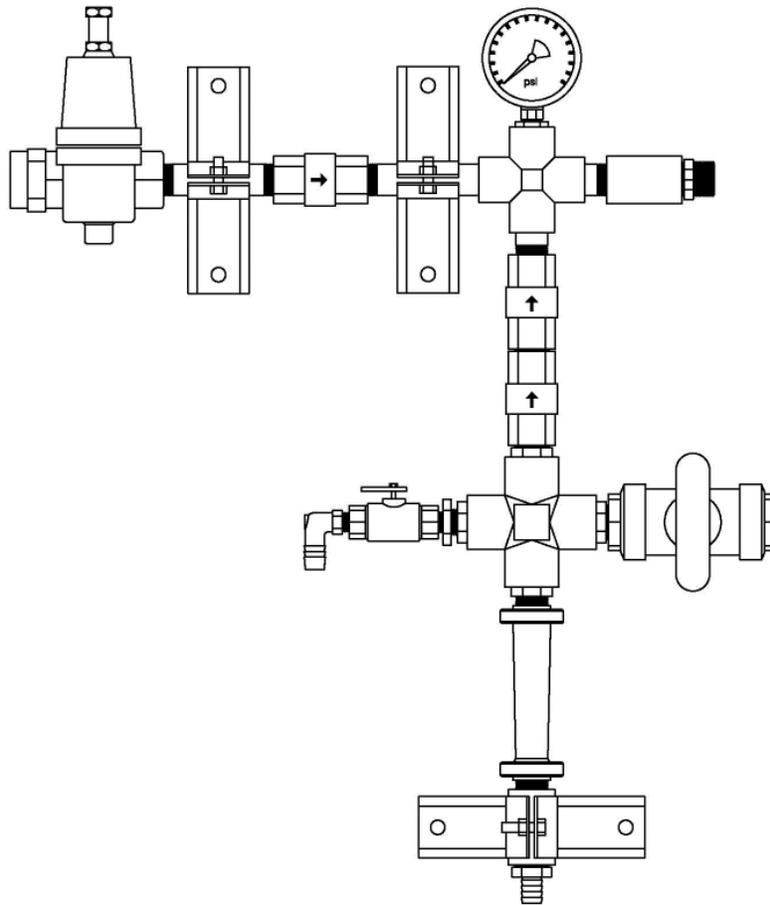


PRODUCT RECOVERY KIT

Operation Manual



**Manufactured With Pride
In The USA**

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1.0 Theory of Operation

The Product Recovery kit is used in direct feed applications to return unused product water from the loop to the feed side of the reverse osmosis system. The Product Recovery kit includes a feed water connection with a regulator valve, loop return inlet connection, and an outlet to the incoming tap water connection on the reverse osmosis system. The feed water regulator is set to allow the unused product water to mix with the incoming tap water. If the feed water regulator is adjusted too high, the Product Water will not be able to overcome the water pressure going to the RO. Dual check valves at the loop return prevent retrograde flow of non-purified water into the distribution loop.

2.0 Installation

(6) 3/8 diameter holes are provided for mounting the Product Recovery Kits to a wall. See drawings on pages 4 & 5 for the relationship of the Product Recovery Kits to the floor and connection locations and sizes for the City Water Inlet, RO Water Inlet & Return Loop.

3.0 Start-up

To allow Product Water to be recovered, the inlet water pressure regulator must be adjusted to no more than 25 PSI, because the Product Water will never be greater than 30 PSI being returned. If the inlet water regulator is adjusted higher than 25 PSI, the Product Water will not overcome the water pressure going to the MRO.

The ball valve on the loop return is intended to provide efficient rinsing of disinfectant from the loop. The valve should be opened following disinfection until a negative residual is achieved. The ball valve should remain closed during normal operation to allow recovery of the Product Water back into the inlet of the MRO to reduce water consumption.

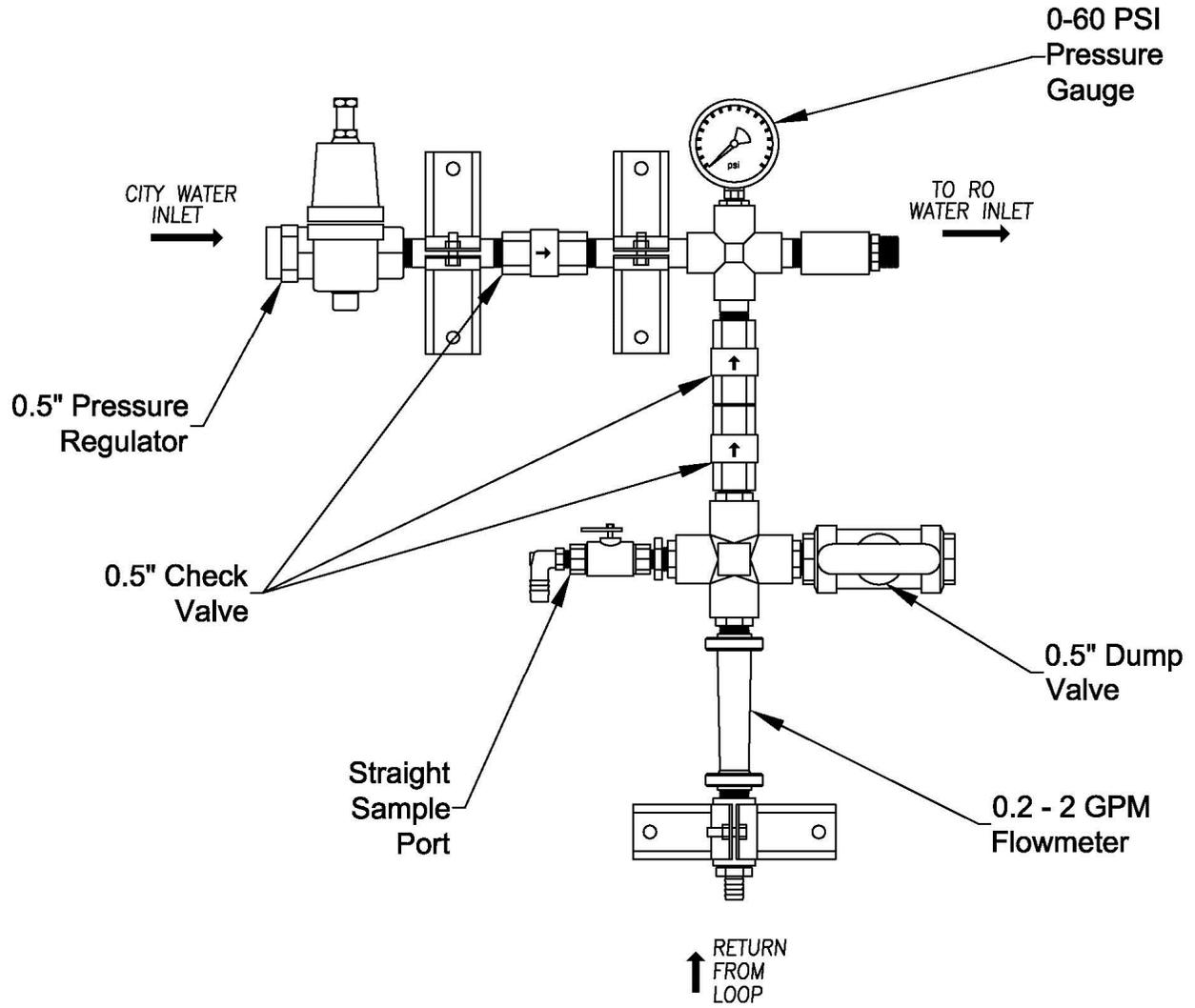
WARNING: DO NOT TREAT PATIENTS UNTIL A NEGATIVE RESIDUAL DISINFECTANT IS OBTAINED AT THE LOOP RETURN OR SERIOUS INJURY OR DEATH COULD OCCUR!

4.0 Daily Monitoring

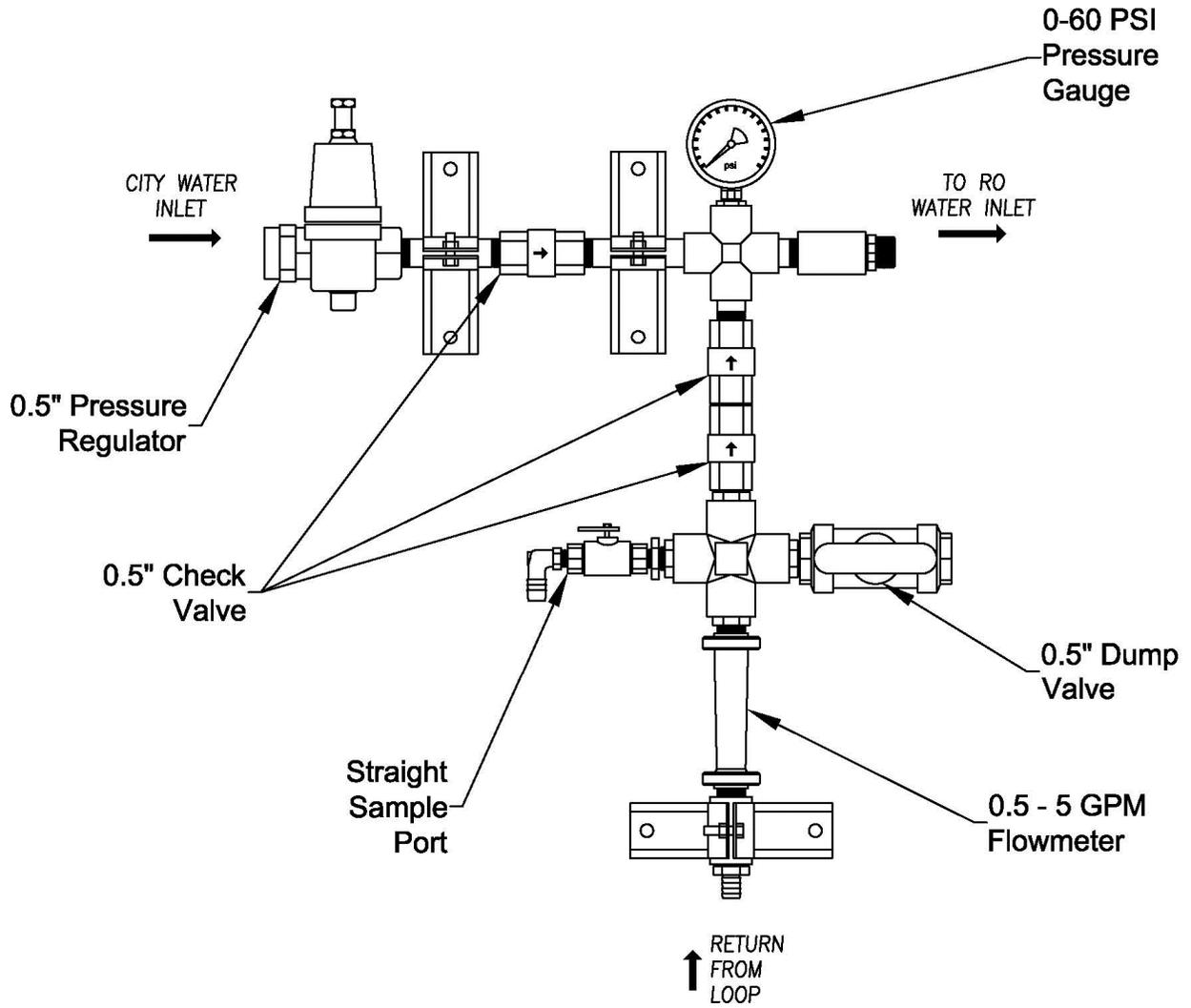
- Verify water flow through the Product Recovery Kit is at the required loop velocity prior to treatment.
- Monitor the water pressure at the Product Recovery kit pressure gauge to verify that the water pressure remains greater than 20 PSI.

5.0 Drawings

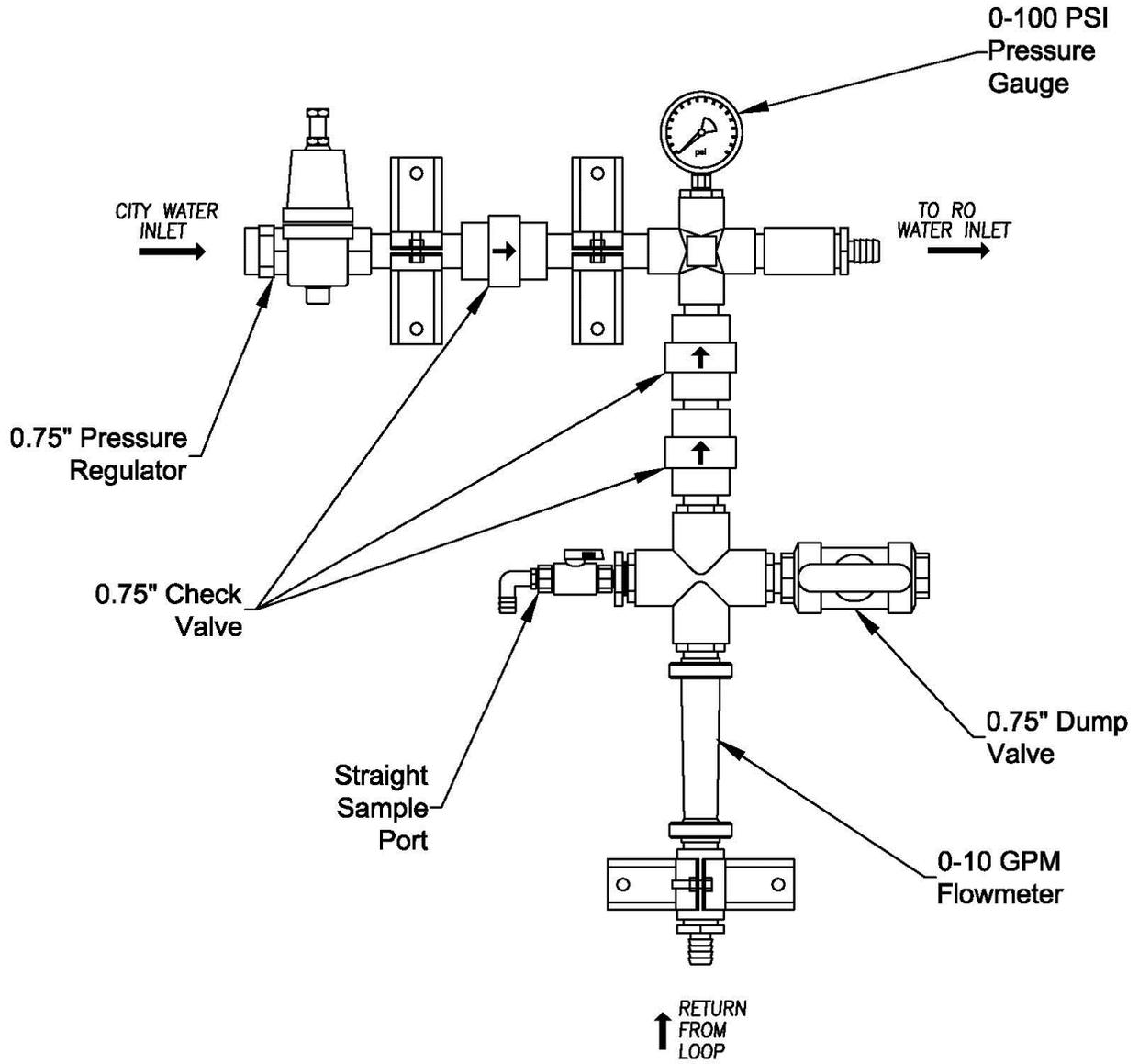
00810210 - Single MRO2



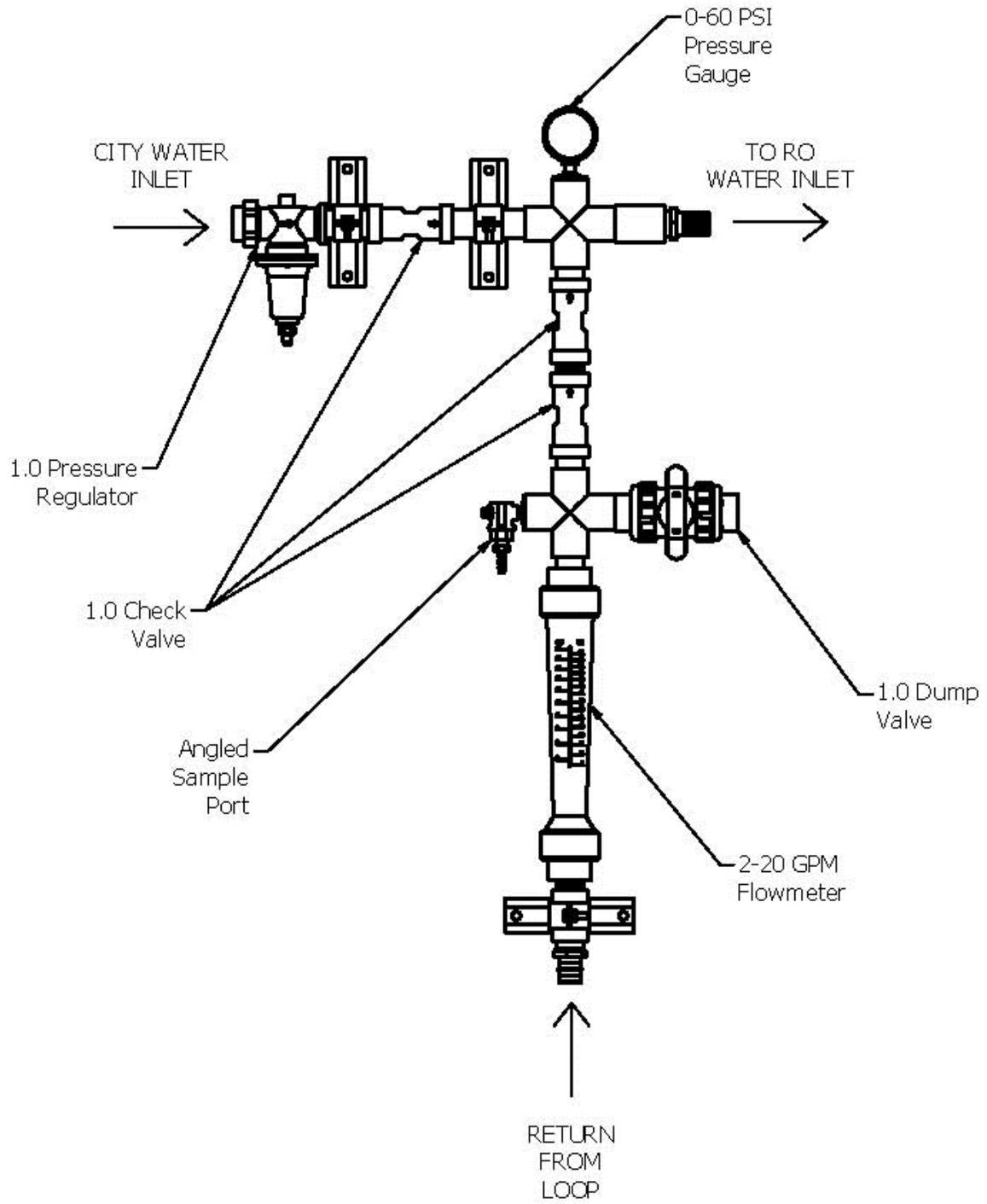
00810211 - Dual MRO2's through MRO3X



00820245 – MRO4x through MRO5x



00810212 - MROZ



6.0 Replacement Parts List

Part #	Description
041002	Straight Sample Port
041004	Angled Sample Port
041531812	0.5" Dump Valve
041530841	0.75" Dump Valve
041-0133	1.0" Dump Valve
44531815	0.5" Pressure Regulator
44531814	0.75" Pressure Regulator
044-0003	1.0" Pressure Regulator
41-0016	0.2 – 2 GPM Flowmeter
41-0002	0.5 - 5 GPM Flowmeter
41530601	0 - 10 GPM Flowmeter
41-0045	2 - 20 GPM Flowmeter
43530703	0 - 60 PSI Pressure Guage
43530711	0 – 100 PSI Pressure Gauge
55-0003	0.5" Check Valve
55-0004	0.75" Check Valve
55-0017	1.0" Check Valve