

PEM R1300

The systems on this page are for separated water supplies only

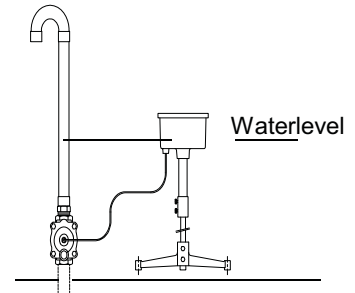
NON ELECTRIC POOL FILL SYSTEM



PEM 1300 Hydraulic Water Make Up System consists of a **PEM R1311 Waterlevel Sensor** to monitor a set waterlevel and should this drop below the adjusted height, the sensor which is connected with a hydraulic tube to a **PEM Select R1320 series** hydraulic fill valve in the water supply, will activate this fill valve until the set waterlevel is restored. Water is discharged through a **PEM R1340 Goose Neck Fill Spout**. This automated water make up is operated by the pressure in the water supply and controlled to a set waterlevel by means of a float valve in the sensor, that is opened by the lowering of the waterlevel and in turn releases the pressure in the upper diaphragm chamber of the hydraulic fill valve causing this to open. When the set waterlevel is restored, the sensor float valve closes and in turn closes the hydraulic valve. The waterlevel differential maintained is appr. 19.1mm / 0.75".

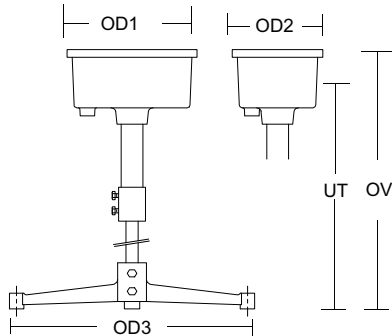
This hydraulic water make up system can be retro fitted to most water supplies, terminating into a pool, pond or lake.

When used for multi level cascade systems, install the sensor into the lowest, the base pool and have the water supply discharge into the upper most pool, that assures, that all the upper pools of the cascade system are filled before the base pool is filled.



PEM R1311 HYDRAULIC WATER MAKE UP SENSOR

#480-5510



DIMENSIONS:

- OD1** 165mm\6.50"
- OD2** 114mm\4.50"
- OD3** 300mm\12.0"
- OV*** 396>470mm\15.6">18.5"
- UT*** 356>430mm\14.0">17.0"

*Height adjustable tripod stand.

PEM 1311 is made of cast bronze, brass, copper and is stainless steel fitted. The **PEM 1311 Waterlevel Sensor** will monitor a waterlevel with a small internal float valve that controls a PEM 1320 Hydraulic Valve to maintain a set waterlevel in a pool or pond. The waterlevel will be maintained within a 20mm/0.75" differential.

Maximum water pressure is 50 PSI, 115 ft-head, 3.5 bar or 35m head.

The sensor is supplied with 1.5m\5 feet of 6mm\0.250" copper tubing.

PEM R1320 HYDRAULIC FILL VALVES

480-6000



#	PEM	NPT BSP	Suggested max. Flow		Overall Length	
			L/min	USGPM	mm	Inches
480-6030	R1321	3/4"	38	10	96mm	3.75"
480-6040	R1322	1"	68	18	100mm	4.00"
480-6050	R1323	1 1/4"	132	35	127mm	5.00"
480-6060	R1324	1 1/2"	227	60	127mm	5.00"
480-6070	R1325	2"	300	80	153mm	6.00"

PEM Select R1320 Hydraulic Fill Valves are cast bronze, normally open diaphragm valves activated by a pressure differential in the upper chamber of the valve.

Maximum water pressure is 50 PSI, 115 ft. head, 3.5 bar or 35 meter head. The valves are supplied with 6.35mm\0.250" copper tube compression fitting.

These valves might be noisy when closing.

PEM R1340 CHROMED GOOSE NECK FILL SPOUTS

480-7000



#	PEM	NPT/BSP
480-7030	R1343	3/4"
480-7040	R1344	1"
480-7050	R1345	1 1/4"
480-7060	R1346	1 1/2"
480-7070	R1347	2"

Overall height of each goose neck is : 457mm \ 18.00"

PEM R1340

Gooseneck Fill Spouts are designed to comply with plumbing codes, that require the discharge of a water supply into a pool to terminate at a specified distance above the highest possible waterlevel in a pool.

PEM R1340 Fill Spouts are made of copper and are chrome plated.

Where the above plumbing code requirement does not apply, the valve can discharge directly into the pool.