

PEM R1300series

NON ELECTRIC, HYDRAULIC POOL FILLERS

INDEX

| # | PEM | DESCRIPTION | SECTION |
|----------|-------|--------------------------------------|---------|
| | | INDEX | R1300-1 |
| 480-5510 | R1311 | Hydraulic Water Make Up Sensor | R1300-2 |
| 480-6030 | R1321 | 3/4" Hydraulic Fill Valve | R1300-2 |
| 480-6040 | R1322 | 1 " Hydraulic Fill Valve | R1300-2 |
| 480-6050 | R1323 | 1 1/4" Hydraulic Fill Valve | R1300-2 |
| 480-6060 | R1324 | 1 1/2" Hydraulic Fill Valve | R1300-2 |
| 480-6070 | R1325 | 2 " Hydraulic Fill Valve | R1300-2 |
| 480-7030 | R1343 | 3/4" Chromed Goose Neck Fill Spout | R1300-2 |
| 480-7040 | R1344 | 1" Chromed Goose Neck Fill Spout | R1300-2 |
| 480-7050 | R1345 | 1 1/4" Chromed Goose Neck Fill Spout | R1300-2 |
| 480-7060 | R1346 | 1 1/2" Chromed Goose Neck Fill Spout | R1300-2 |
| 480-7070 | R1347 | 2" Chromed Goose Neck Fill Spout | R1300-2 |
| | | Parts for above | R1300-3 |

PEM R1300

The systems on this page are for separated water supplies only

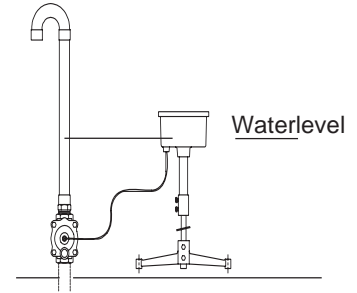
NON ELECTRIC POOL FILL SYSTEM



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".

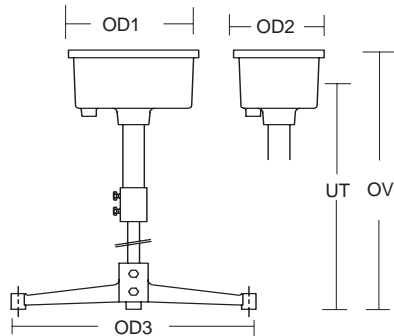
This hydraulic water make up system can be retro fitted to most water supplies, terminating into a pool, pond or lake.

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.

PARTS FOR PEM R1300 series
NON ELECTRIC, HYDRAULIC POOL FILLERS

| # | PEM | DESCRIPTION |
|----------|------------|--|
| 404-0110 | R1290/-03 | Internal Valve Assembly |
| 404-0710 | R1311/-05 | Internal Floatvalve assembly |
| 404-0730 | R1311/-07 | Tubing to Fill Valve (1.5m\5 feet) |
| 404-0740 | R1321/-10 | (R1251/R1252) Fill Valve Diaphragm |
| 404-0750 | R1323/-10 | (R1253) Fill Valve Diaphragm |
| 404-0760 | R1324/-10 | (R1254) Fill Valve Diaphragm |
| 404-0770 | R1325/-10 | (R1255) Fill Valve Diaphragm |
| 404-0790 | R1211/-07 | Repair kit for R1211 Sensor Valve (1200 Series = Previous Series) |