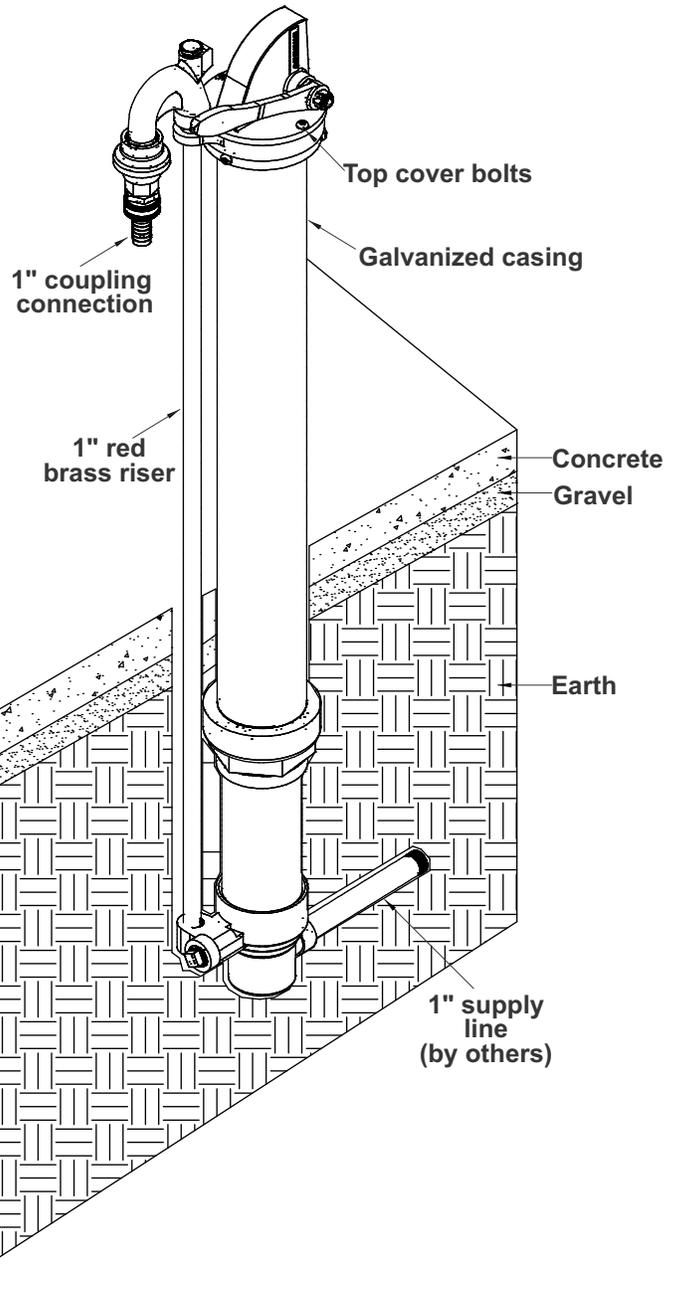


INSTALLATION INSTRUCTION & MAINTENANCE - M-EXPELO HYDRANT

Prepare trench for water-supply line. Below hydrant location, prepare hole to trench depth and large enough for a person to work. Lay water-supply line into trench, allowing extra line length to be trimmed during hook-up. Install hydrant fully assembled as shipped. Position hydrant at desired location and height. Brace hydrant by laying two boards across hole, one on either side of hydrant. To ensure plumb installation, place a bubble level against hydrant and adjust bracing until unit is plumb.

Purge water-supply line. Connect water-supply line, trimming line length as necessary. Supply water pressure shall not exceed 85 psi. If necessary, install pressure-reducing valve in supply line.

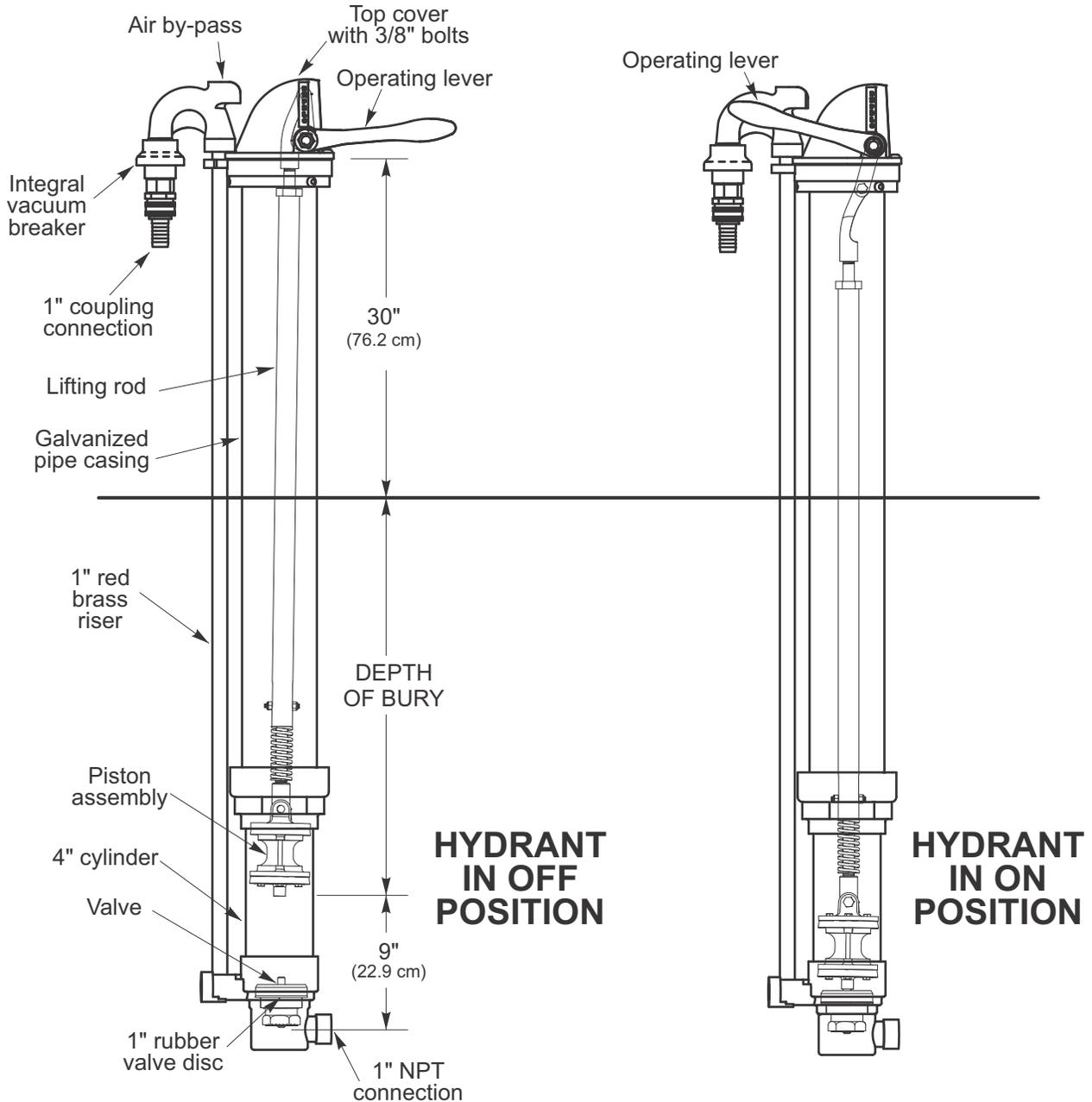
Back-fill trench and hole. Compact back-filled earth. Remove bracing boards. If concrete slab is desired, prepare hole surrounding hydrant to accommodate concrete slab. Spread gravel as necessary. Finish concrete as required. Other than residual surface water, no drainage is required below grade because of the sealed system.



MAINTENANCE INSTRUCTIONS

All normal maintenance is done from above grade (Refer to detail page 2). Special wrenches are furnished by Murdock-Super Secur. To remove the 1" rubber valve disc, remove the four 3/8" top cover bolts securing the top cover of the fixture. Lift the top cover with lever, pulling out the lifting rod, piston and connecting links. Then insert the EO-44 wrench down into the cylinder and into the crossbar of the valve and just turn until the valve is free. Do not unscrew the valve with this wrench. Then unscrew the valve with the EO-17 wrench and lift the valve out for repair. Replace parts in a similar manner, being sure to coat the rubber washers with petroleum jelly. No other lubricants are to be used.

M-EXPELO HYDRANT COMPONENT OVERVIEW

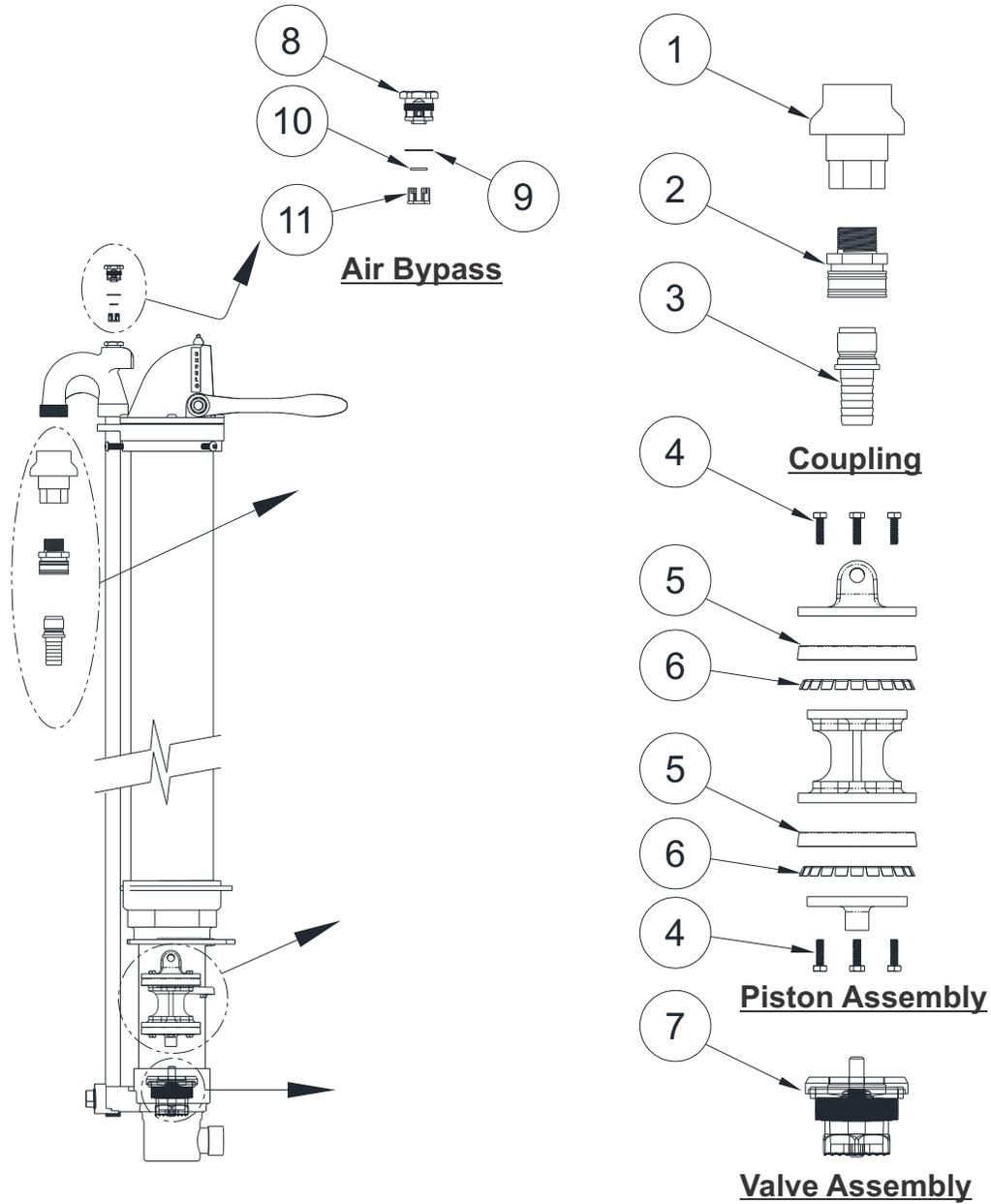


OPERATIONAL DETAILS

There are no potential cross-connections between the potable water supply and any drain outlet. After being used, all potable water is held in a self-contained reservoir below the frost line. When used again, the user operates the handle and the internal piston moves downward to immediately evacuate the reservoir. Positive evacuation of the reservoir is assured every time. With proper installation, year-round operation without the use of heat tape is assured.

Designed to meet ASSE 1057 sanitary yard hydrant guidelines.

REPLACEMENT PARTS LIST



Item	Part number	Description	Item	Part number	Description
1	4102-144-001	VACUUM BREAKER	7	4102-091-001	VALVE & DISK ASSEMBLY
2	4102-147-000	COUPLER SOCKET	8	4102-140-199	AIR BYPASS CAP
3	4102-146-000	COUPLER PLUG - HOSE END	9	4102-141-000	AIR BYPASS CAP SEAT WSH
4	0206-009-000	1/4-20x7/8 HEX HD CAP SCR	10	4102-143-199	AIR BYPASS DISK
5	4102-119-000	4" (RUBBER) HYCAR CUP	11	4102-142-199	GAGE AIR BYPASS
6	4102-118-199	CUP EXPANDER			