

INSTALLATION INSTRUCTIONS FOR HYDRANTS M-100

Prepare supply and waste line (depending on design and code requirements) trench to installation site and provide hole large enough for a person to work. Lay water supply and waste line into trench, allowing extra length for trimming during installation of hydrant and drain (if required).

Install hydrant fully assembled as shipped. Position hydrant at desired location. Brace hydrant by laying two boards across hole and under hydrant base, one on either side of outer casing. To ensure plumb installation, place a bubble level against hydrant and adjust bracing boards until unit is plumb.

Purge water-supply line. Connect water-supply line, trimming line length as necessary. Wrap bottom drain opening with filter fabric and place a minimum of three cubic feet (0.085 cubic meter) of large round rock under drain opening. Check local codes. Local soil conditions may require more rock for drainage.

Back-fill trench and hole. Compact back-filled earth. Remove bracing boards. If necessary, loosen set screw in base and adjust vertical position of base on outer casing so that bottom of flared part of base is at grade level.

If concrete slab is desired, prepare hole surrounding hydrant to accommodate concrete slab. Spread and compact gravel as necessary. Pour concrete up to bottom of flared part of hydrant base. Finish concrete as necessary.

Flow Rates:

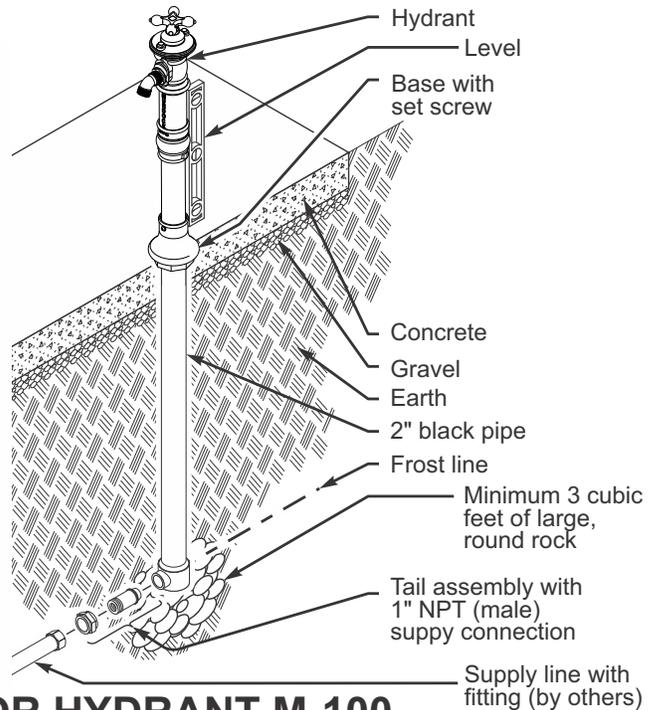
15 PSI	30 PSI	45 PSI	60 PSI
55 GPM	65 GPM	72 GPM	82 GPM

Water Pressure Min / Max:

20 PSI / 80 PSI

Water Temperature Min / Max:

40°F / 80°F



MAINTENANCE INSTRUCTIONS FOR HYDRANT M-100

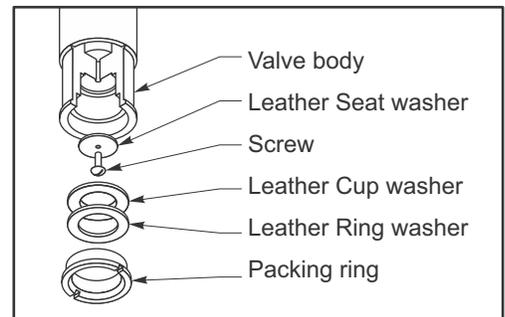
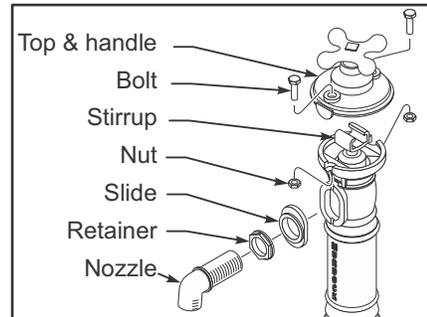
All normal maintenance is done from above grade. Washers should normally be replaced annually. Remove bolts and nuts securing top to stock. Lift top from stock, sliding screw flange under top from stirrup. Unscrew and remove nozzle from stock, taking care to catch slide. Take hold of stirrup and raise supply-line assembly out of stock-and-outercasing assembly.

At bottom of supply-line assembly, unscrew packing ring from valve body and remove ring washer and cup washer. Remove seat-washer screw and seat washer. Replace seat washer. Replace cup washer and ring washer, and screw packing ring into valve body.

Gently lower supply-line assembly into stock. As stirrup approaches top of stock, lower assembly very carefully to ensure that valve body at bottom of assembly seats properly over valve stem underground.

Rotate stirrup to ensure that nozzle opening in tee is oriented toward opening in stock. Make certain that tee end of nozzle is inserted through slide with tongue of slide oriented toward tee end of nozzle. Apply pipe-joint compound to tee end of nozzle, insert tee end of nozzle through opening in stock, and screw nozzle into tee.

Make certain that long side of slide is oriented upward and that slide tongue fits into groove in stock. Tighten nozzle, making certain that nozzle outlet is oriented downward.



REPLACING LEATHER WASHER

1. Turn off the water Supply to the Hydrant
2. Remove the Nozzle and Top Bolts. The Nozzle is removed by turning the locknut counterclockwise.
3. Pull complete inner works assembly out of hydrant casing.
4. The Washers are located in the brass valve body at the lower end of the inner works.
5. Remove valve packing ring, cup and ring washers with a flat screwdriver and the screw that holds the seat washer in place.
6. Replace seat, cup and ring washers; tighten valve packing ring hand tight so that the cup and ring washers stay in place.
7. Re-assemble the hydrant in the reverse order of disassembly.

Please refer to the Link or QR code provided.

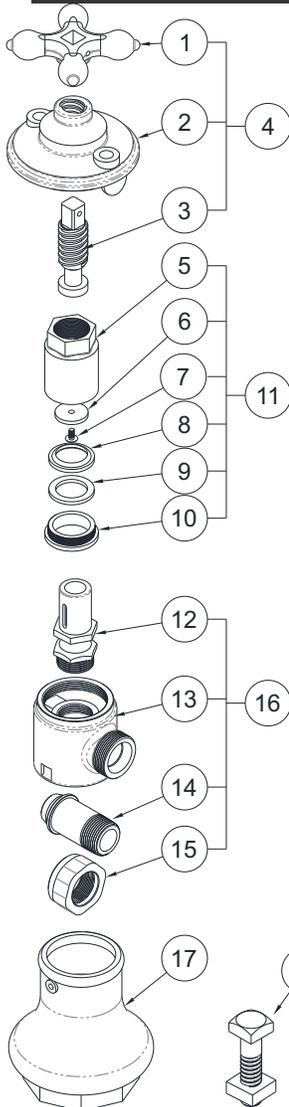
For maintenance and troubleshooting

<https://www.youtube.com/watch?v=go2WSoZnGZ4>



For more assistance please follow the link located to the right

REPLACEMENT PARTS

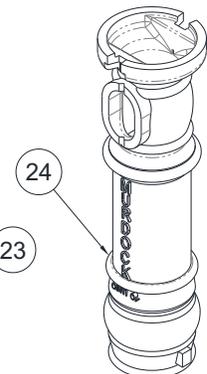


ITEM	Part number	Description	ITEM	Part number	Description
1	4100-011-000	CROSS HANDLE	13	4100-058-199	BOTTOM CONNECTOR SUPPLY
2	4100-013-199	HYDRANT TOP	14	4100-068-199	NPT TAIL PIECE
3	4100-059-199	HYDRANT SCREW	15	4100-067-199	TAIL NUT
4	4100-013-001	HYDRANT TOP ASSEMBLY	16	4100-058-001	VALVE STEM ASSEMBLY
5	4100-178-199	VALVE BODY ONLY	17	4100-014-199	HYDRANT BASE
6	4100-087-000	LEATHER SEAT WASHER	18	4100-165-001	NUT AND BOLT ASSEMBLY
7	4100-162-000	SEAT WASHER SCREW	19	4100-168-199	HYDRANT STIRRUP
8	4100-085-000	LEATHER CUP WASHER	20	4100-164-199	HYDRANT TEE
9	4100-086-000	LEATHER RING WASHER	21	4100-018-000	HYDRANT SLIDE
10	4100-179-199	VALVE PACKING RING	22	4100-123-199	NOZZLE SUPPLY
11	4100-178-001	VALVE BODY ASSEMBLY	23	4100-177-199	LOCKNUT
12	4100-183-199	VALVE STEM	24	4100-184-199	HYDRANT STOCK



IMPORTANT

NOTE: When replacing Gaskets lather with Vaseline

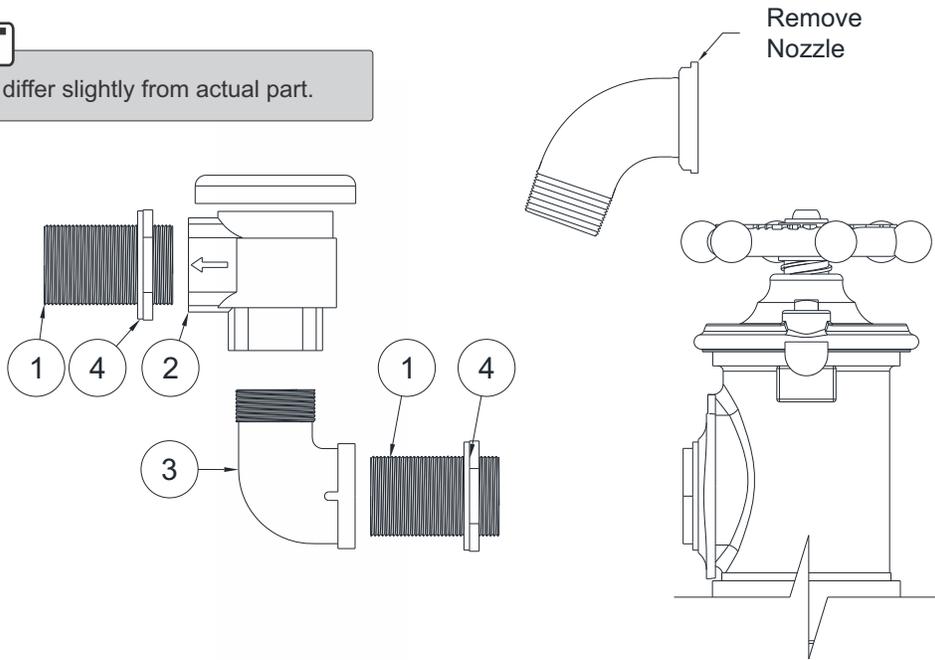


OPTIONAL (-VB) VACUUM BREAKER REPLACEMENT PARTS



IMPORTANT

Items shown may differ slightly from actual part.



ITEM	Part number	Description
1	4100-726-199	1" NPS NIPPLE
2	4100-715-000	VACUUM BREAKER
3	4100-728-000	1" STREET ELBOW
4	4100-177-199	LOCKNUT