WATER VALVE MAINTENANCE (TRUCK/TRAILER) – WATER DISTRIBUTION

DESCRIPTION	The Water Valve Maintenance (Truck/Trailer) - Water Distribution is truck-mounted or trailer-mounted equipment for exercising water distribution valves and for valve box cleaning
RESOURCE CATEGORY	Public Works
RESOURCE KIND	Equipment
OVERALL FUNCTION	The Water Valve Maintenance (Truck/Trailer) - Water Distribution is equipment to support the operation and exercising of water valves and valve box cleaning
COMPOSITION AND ORDERING SPECIFICATIONS	1. This equipment can be ordered in conjunction with a National Incident Management System (NIMS)-typed team (Repair Team - Water Distribution System) 2. This equipment can be ordered with staff using the NIMS Utility Worker Specialist - Water Sector Infrastructure 3. Requestor verifies trailer connection compatibility if equipment is trailer-mounted

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	TYPE 3	NOTES
EQUIPMENT DESCRIPTION	1 - Truck-mounted valve exerciser 1 - Mounted vacuum	1 - Trailer-mounted valve exerciser with vacuum	1 - Trailer-mounted or truck-mounted valve exerciser	Not Specified
EQUIPMENT VALVE EXERCISER TORQUE	Same as Type 2	Same as Type 3	Up to 750 ft/pound (lb)	Not Specified
EQUIPMENT CAPACITY	Same as Type 2	Same as Type 3	4-inch valves and larger	Not Specified
EQUIPMENT VALVE EXERCISER SPEED	Same as Type 2	4 to 68 RPM	5 to 30 revolutions per minute (RPM)	Not Specified
EQUIPMENT VALVE EXERCISER REACH	Same as Type 2	Up to 27 inches	Up to 13 feet	Not Specified
EQUIPMENT VALVE EXERCISER SUPPLY REQUIREMENTS	Same as Type 2	2 to 30 GPM at 2,000 PSI	4 to 12 gallons per minute (GPM) at 2,000 pounds per square inch (PSI)	Not Specified
EQUIPMENT VALVE EXECISER VALVE KEY	1. 2-inch nut to a depth of 6 feet rated for 2,500ft/lb. of torque 2. 3-foot to 8-foot extensions to extend reach depth	2-inch nut to a depth of 6 feet rated for 2,500ft/lb. of torque	2-inch nut to a depth of 6 feet rated for 800ft/lb. of torque	Not Specified
EQUIPMENT VACUUM PUMP	Same as Type 2	Same as Type 3	450 cubic feet per minute (CFM)	Not Specified
EQUIPMENT VACUUM DEBRIS TANK	200 gallons	Same as Type 3	90 gallons	Not Specified
EQUIPMENT VACUUM HOSE DIAMETER	Same as Type 2	Same as Type 3	3 inches	Not Specified

NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

REFERENCES

1. FEMA, NIMS 508: Repair Team – Water Distribution System
2. FEMA, NIMS 509: Utility Worker Specialist – Water Sector Infrastructure
3. FEMA, NIMS, October 2017
4. FEMA, National Response Framework, October 2019