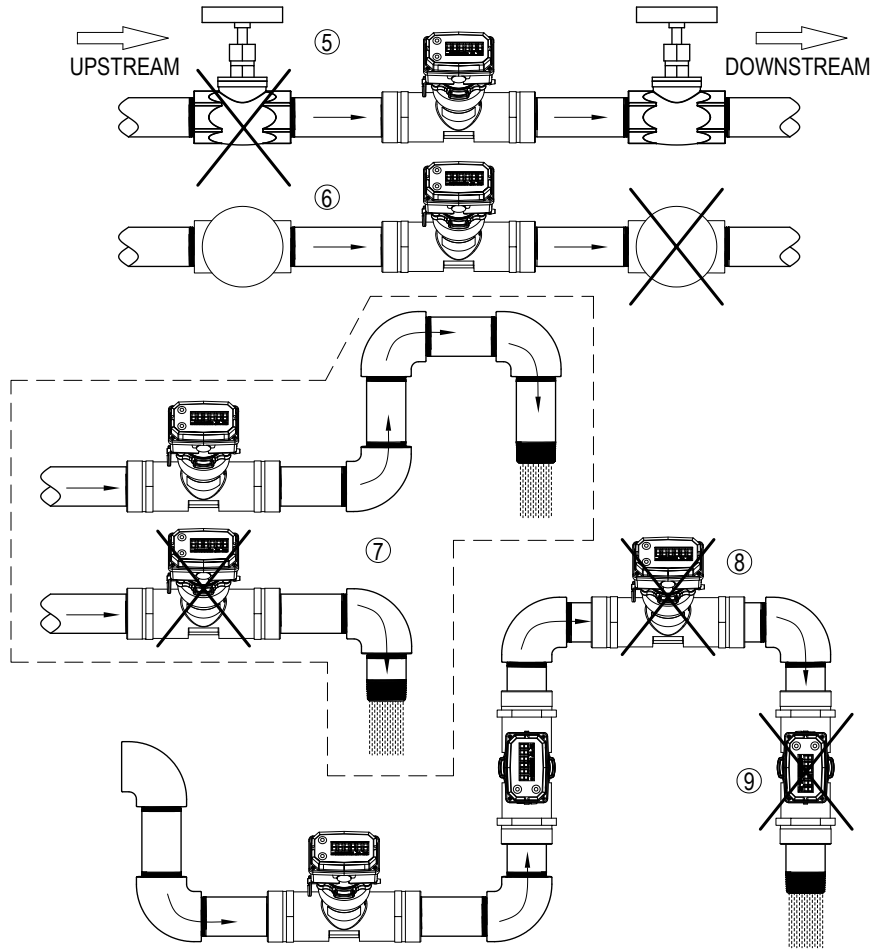
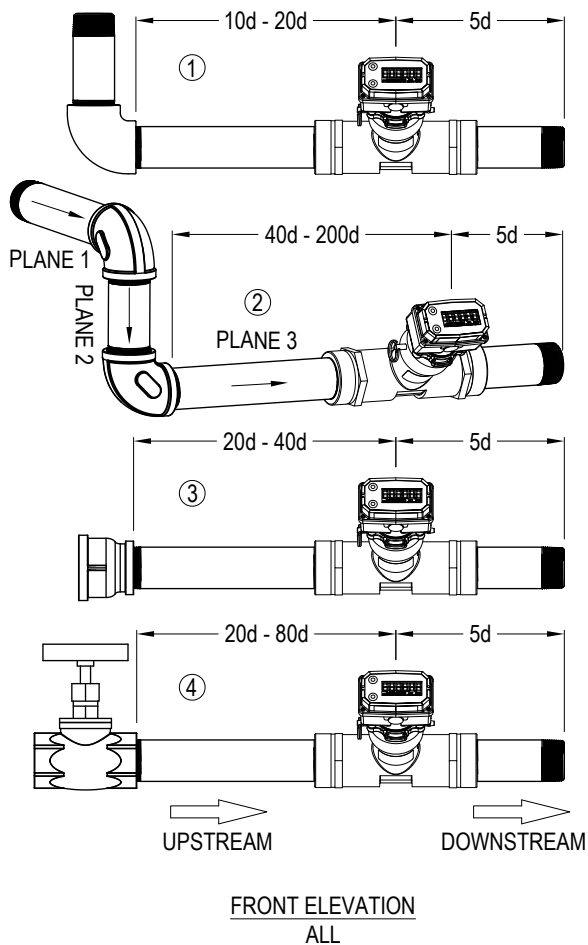




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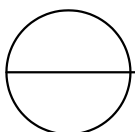


LEGEND:

- ① ONE CHANGE OF PLANE, UPSTREAM OF FLOW METER - A TYP. DISTANCE OF 10X - 20X PIPE DIAMETER IS RECOMMENDED FOR FLOW TO NORMALIZE
- ② TWO CHANGES OF PLANE, UPSTREAM OF FLOW METER - A TYP. DISTANCE OF 40X - 200X PIPE DIAMETER IS RECOMMENDED FOR FLOW TO NORMALIZE
- ③ PIPE SIZE CHANGE, UPSTREAM OF FLOW METER - A TYP. DISTANCE OF 20X - 40X PIPE DIAMETER IS RECOMMENDED FOR FLOW TO NORMALIZE
- ④ A VALVE UPSTREAM OF FLOW METER - A TYP. DISTANCE OF 20X - 80X PIPE DIAMETER IS RECOMMENDED FOR FLOW TO NORMALIZE
- ⑤ FOR FLOW TO NORMALIZE, VALVES OF ALL TYPES **SHOULD NOT** BE LOCATED CLOSE TO INLET (UPSTREAM) OF FLOW METER
- ⑥ FOR FLOW TO NORMALIZE, PUMPS **SHOULD NOT** BE LOCATED CLOSE TO OUTLET (DOWNSTREAM) OF FLOW METER
- ⑦ FLOW METER SHOULD ALWAYS BE FULL OF LIQUID. SOME AMOUNT OF PRESSURE SHOULD BE PRESENT. **NEVER** DISCHARGE IMMEDIATELY TO ATMOSPHERE
- ⑧ FOR FLOW TO NORMALIZE, FLOW METER **SHOULD NOT** BE LOCATED AT HIGH POINT IN PLUMBING
- ⑨ FLOW SHOULD GO UP THROUGH FLOW METER AND **NEVER** GO DOWN THROUGH FLOW METER

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5474-025.



FLOW SENSORS

INSTALLATION GUIDELINES FOR AQUASONIC AND QS100/QS200 SONIC SERIES ULTRASONIC FLOW METERS