

**ACTUATOR VALVE ASSEMBLY NOTES:**

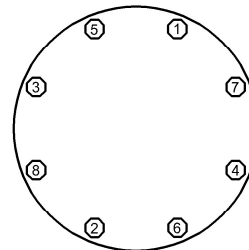
**OPTI CERTIFIED HARDWARE**

1. CONTACT OPTIRTC SALES AT [HTTPS://OPTIRTC.COM/CONTACT/](https://optirtc.com/contact/) OR (844) 678-4782 EXT. 3 FOR OPTI CERTIFIED HARDWARE:
  - 1.1. ACTUATOR-VALVE ASSEMBLY (ACTUATOR, BUTTERFLY VALVE, AND VALVE STEM EXTENSION TO BE DELIVERED PRE-ASSEMBLED ON PALLET)
  - 1.2. 8-IN LONG SPOOL ADAPTER

**ALL OTHER HARDWARE AND EQUIPMENT**

2. ALL OTHER HARDWARE AND EQUIPMENT TO BE PROCURED BY INSTALLATION CONTRACTOR.
3. ACTUATOR TO BE ORIENTED SUCH THAT HAND WHEEL, TERMINAL BLOCK, AND DISPLAY SCREEN ARE ACCESSIBLE. VALVE SHALL REST ON ONE OF THE FOLLOWING: POURED CONCRETE PAD (4000 PSI), APPROVED CONCRETE BLOCKS, OR APPROVED STRUCTURE FIT TO BEAR 600LB LOAD. CONCRETE PAD SHALL BE POURED IN SUCH A WAY AS TO PROTECT BOTTOM OF VALVE FROM BEING EMBEDDED INTO THE CONCRETE.
4. REFER TO ORIFICE CLEARANCE DETAIL FOR STANDARD CLEARANCES.
5. FLEXIBLE CONDUIT SHALL RUN FROM ACTUATOR TO JUNCTION BOX. ALL CONDUIT ALONG WALL TO BE SECURED WITH #304 SS CLIPS (3' SPACING MAXIMUM). IP68 CORD GRIP REQUIRED FOR CONNECTION BETWEEN CONDUIT AND JUNCTION BOX. ALL CONDUIT CONNECTIONS TO BE IP68 RATED AND SEALED WITH POLYWATER FOAM DUCT SEALANT.
6. FLANGE TO VALVE CONNECTION: SEE TABLE 1 FOR FLANGE CONNECTOR BOLTS AND TORQUE RATING. ALL HARDWARE TO BE #304 SS.
7. FLANGE TO WALL CONNECTION: BOLT CAVITIES TO BE CLEANED OF DEBRIS USING AUTO CLEANING DRILL BIT OR COMPRESSED AIR PRIOR TO ANCHORING. BOLT CAVITIES TO BE FILLED WITH INJECTABLE ADHESIVE ANCHOR (HILTI HIT SERIES EPOXY #2123401 OR EQUIVALENT). BOLTS TO BE EMBEDDED TO MINIMUM DEPTH SPECIFIED BY MANUFACTURER, 1 IN. CLEARANCE FROM REBAR.
8. TRASH RACK TO BE SPECIFIED BY THE ENGINEER OF RECORD (OR OTHERS) AND PROCURED BY CONTRACTOR. TRASH RACKS ARE REQUIRED PRIOR TO OPERATION OF THE OPTI ACTUATED VALVE AND SOFTWARE.
9. OUTLET CONTROL STRUCTURE AND INVERT ELEVATIONS TO BE DESIGNED AND SPECIFIED BY THE ENGINEER OF RECORD.

TABLE 1 BOLTS TORQUE (SOURCE: PRATT INDUSTRIAL)	
ANSI FLANGE SIZE	RECOMMENDED MIN. BOLT TORQUE (POUND FORCE INCHES)
2"-4"	238-354
5"-8"	398-592
10"	628-893
12"	955-1327
14"-16"	1681-2398
18"-20"	1796-2522
24"	2575-3593



- 1 ACTUATED VALVE ASSEMBLY DETAIL
- 1 ACTUATOR ABOVE OUTLET STRUCTURE



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**ACTUATED-VALVE ASSEMBLY (ACTUATOR ABOVE OCS)**

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NOT TO SCALE  
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DRAWING NUMBER:  
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