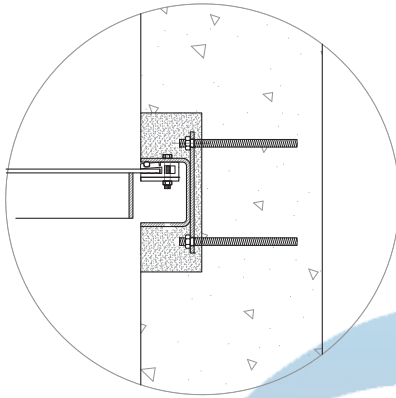


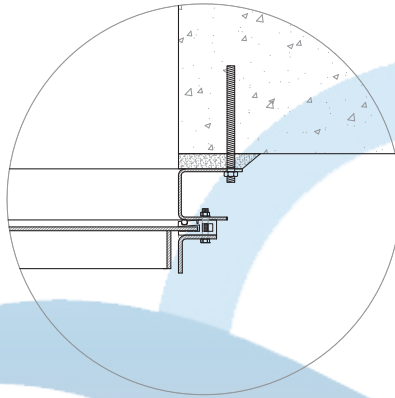
MOUNTING OPTIONS

TYPICAL SLIDE GATE MOUNTING CONFIGURATIONS:

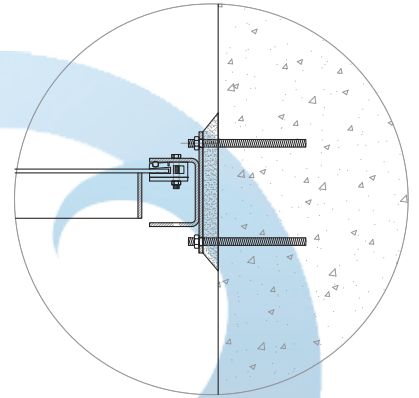
Mechanical Associates mounting options vary per specification.



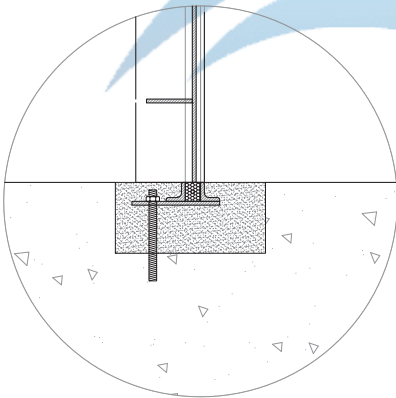
SIDE
MOUNTING



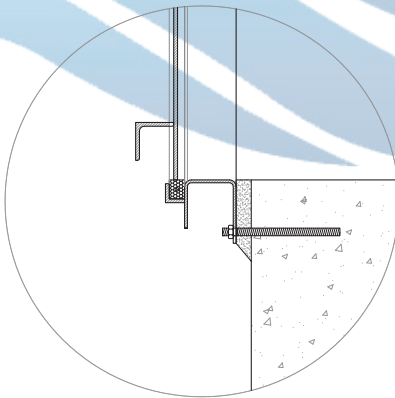
SIDE
MOUNTING



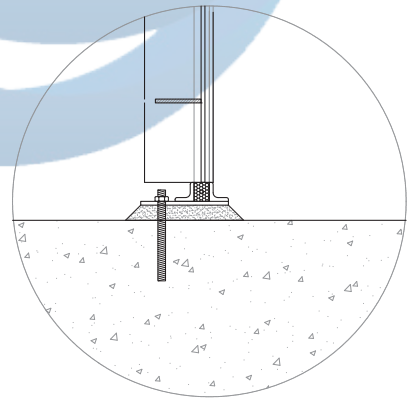
SIDE
MOUNTING



BOTTOM
MOUNTING
EMBEDDED



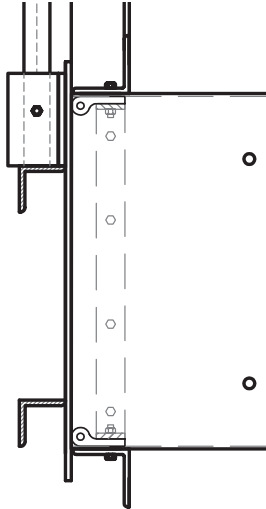
BOTTOM
MOUNTING
FLANGE BACK



BOTTOM
MOUNTING
IN-CHANNEL

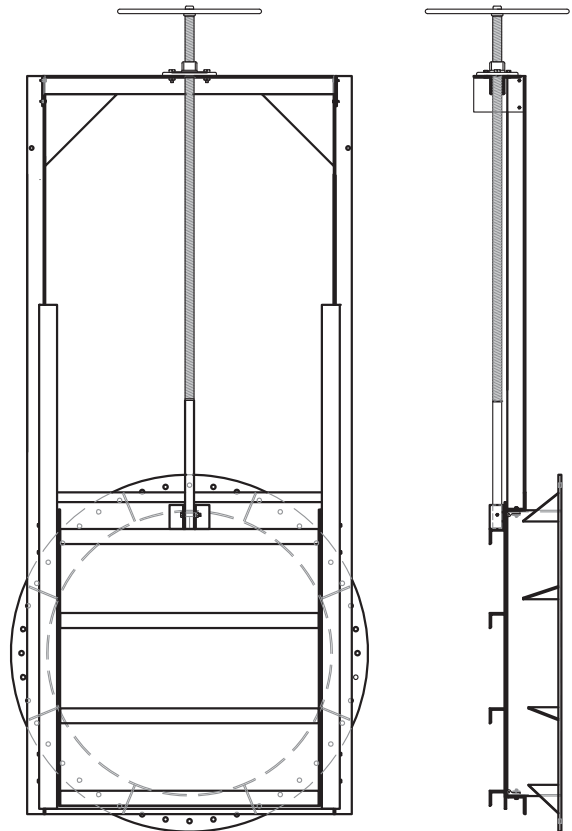
SPIGOT BACK:

Spigot Back Gates are made to attach to the specific pipe type for your application. Typical pipe types include, but not limited to Steel, Plastic, and Concrete. Also available are the Gasketed Spigot and Victaulic Spigot.



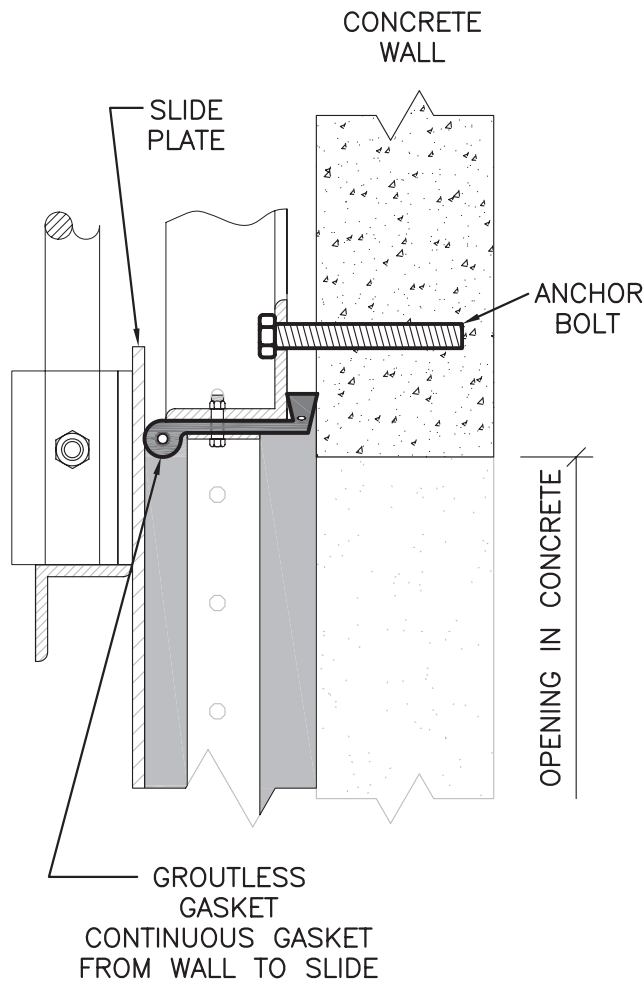
FLANGE BACK:

Flange Back Gates are essentially a spigot back design made with a flange welded at the connection points. This custom feature is designed to connect to the specific pipe type for your application. Typical pipe types include, but not limited to Steel, Plastic, and Concrete.



GROUTLESS GASKET:

PATENT PENDING



Our Groutless Gasket was developed in conjunction with our Stainless Steel Canal Gate. This system was designed to eliminate the process of using grout for gate installation, which can be costly and time consuming.

The Groutless Gasket can be used in any shape wall opening, traditional or custom. Installation is simple and straightforward. Install anchors into the wall, mount the gate, and tighten anchor nuts for a snug fit. On walls that are uneven or pitted due to age, we recommend a bead of urethane sealant be applied to the gasket before installing it against the wall. The sealant will fill voids in the wall, allowing for a tight seal.

This gasket can also be used with Flap Gates. The gasket is installed between the gate and flange when installed on pipe.



TYPE 1 - LIFT:

Typically used on the FC-SS Slide Gate, UHO-10 Slide Gate, & US Canal Gate

- Stem Size: 1-1/8"
- Handwheel Size: 14"
- Lift Nut: Brass
- Collar: Grey Iron

TYPE 2 - LIFT:

Typically used on the FC-SS Slide Gate, UHO-10 Slide Gate, & US Canal Gate

- Stem Size: 1-1/8" - 1-1/2"
- Handwheel Size: 24"
- Lift Nut: Brass
- Collar: Grey Iron

VERTICAL INPUT LIFT:

Handwheel Operated Geared Lift

Used where the gate is to be operated from above headrail vertically.

Ratios provided per application

90° LIFT:

Handwheel Operated Geared Lift

Used where lift is 36" above top of wall. Handwheel is then at 90° from vertical for ease of operation

Ratios provided per application

BEARING LIFT:

Typically used on the FC-SS Slide Gate, UHO-10 Slide Gate, & US- Canal Gate

- Stem Size: 1-1/8" - 1-1/2"
- Handwheel Size: 14", 24"
- Lift Nut: Contains Needle Bearing or Poly Bearing under and/or above the Lift Nut for ease of operation
- Collar: Grey Iron

AIR OPERATION:

Air Cylinder Provided for gate activation. Cylinder Provided as per gate application.

ELECTRICAL OPERATION:

Popular actuation for remote operation

Has emergency Handwheel for power out actuation

Provided per customer specification

HYDRAULIC OPERATION:

Hydraulic actuators are available with hydraulic power supply. Cylinder mounts to headrail and actuates gate. Cylinder Provided as per gate application.

ANCHOR BOLTS

ALL ANCHOR BOLTS ARE FULL THD TO AID I EPOXY GRIP.

SIZED PER JOB SPEC.

MATERIAL:

304 SS

316 SS

ASTM F-593 & 594 GROUP 1 & 2
(GRADE 8 & B8)

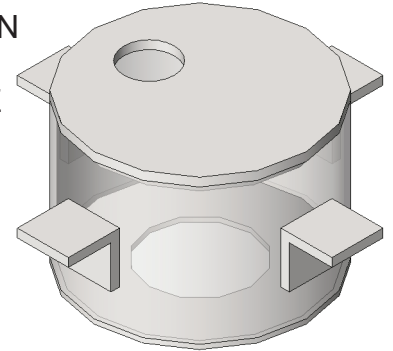
FLOOR BOX

UTILIZED WHERE GATE ACTUATION IS ACHIEVED THROUGH HOLE IN TOP OF WALL OR FLOOR.

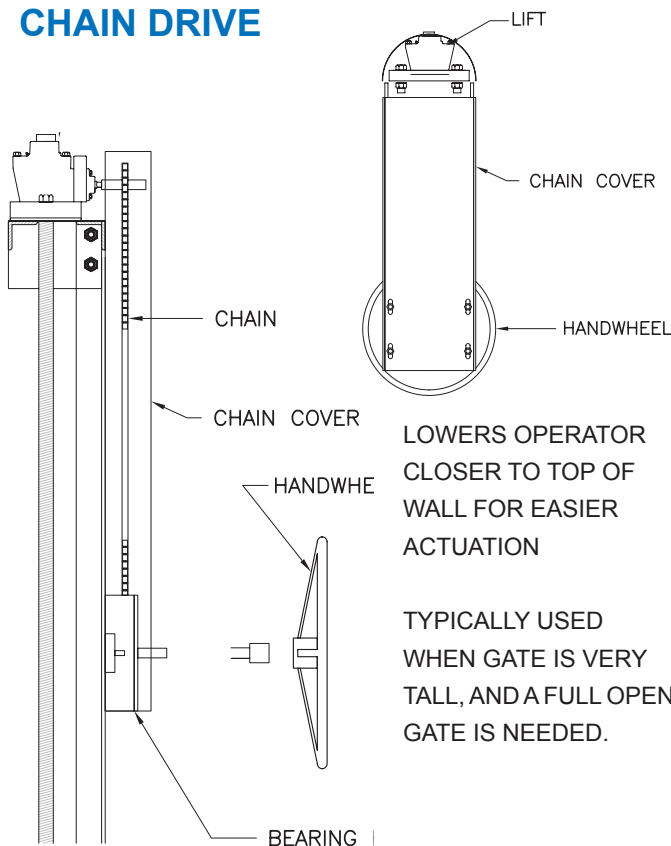
MATERIAL:

304 SS

316 SS

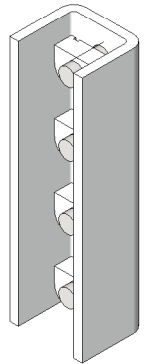


CHAIN DRIVE



FRAME EXTENSION

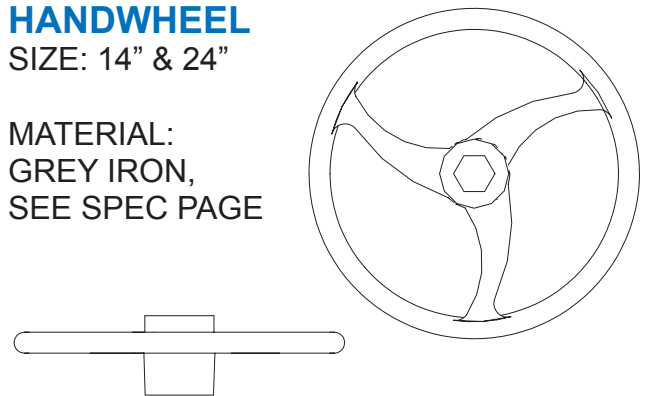
UTILIZED ON MODEL #UHO-11 TO EXTEND FRAME IN FIELD. THIS IS ACCOMPLISHED WITHOUT WELD OPERATION



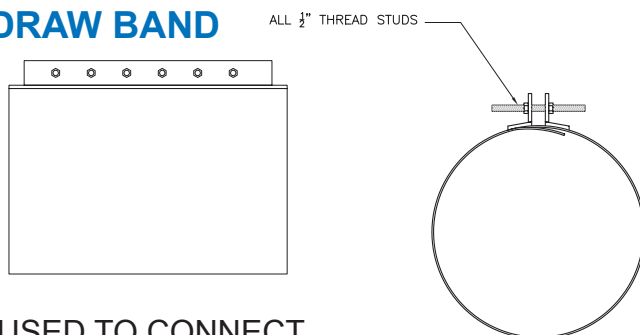
HANDWHEEL

SIZE: 14" & 24"

MATERIAL:
GREY IRON,
SEE SPEC PAGE



DRAW BAND



USED TO CONNECT SPIGOT BACK GATES TO THE END OF PIPE TO SPECS.

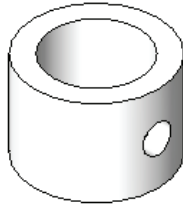
HANDWHEEL EXTENSION

TYPICALLY BUILT FROM PIPE, THIS ALLOWS FOR OPERATION OF RISING STEM & NON RISING STEM GATE WITHOUT FRAME EXTENSION.

COMPONENTS - GATE PARTS

LIMIT NUT

LIMITS TRAVEL OR SLIDE.
TYPICALLY USED TO STOP
OVERCLOSURE OF GATE.



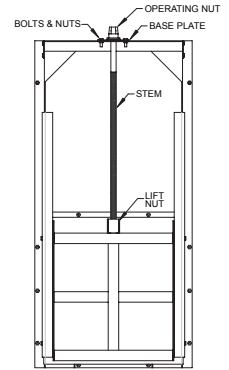
STEM

ALL STEMS ARE ROLLED
THREADS WHICH LIMITS
WEAR ON LIFT NUT.

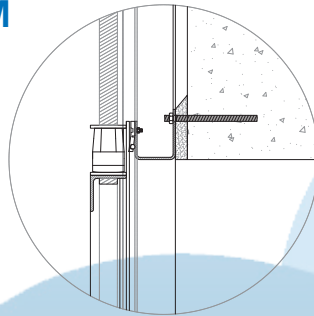
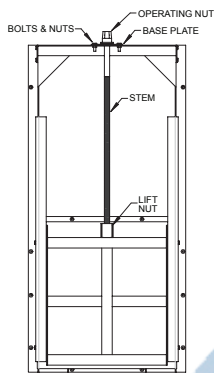
MATERIAL:

304 SS

316 SS



NON-RISING STEM



STEM DOES NOT RISE
DURING ACTUATION.

STEM COVER

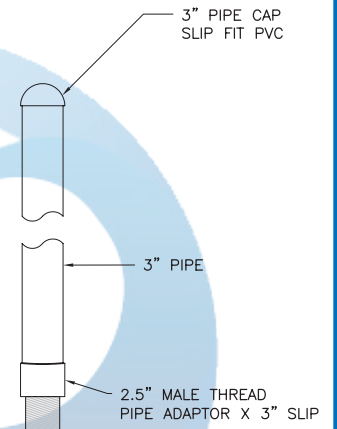
MATERIAL:

CLEAR PVC

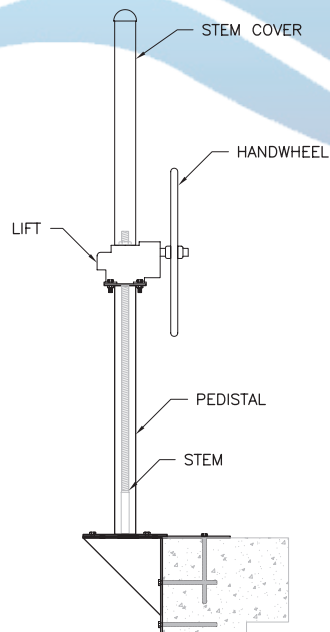
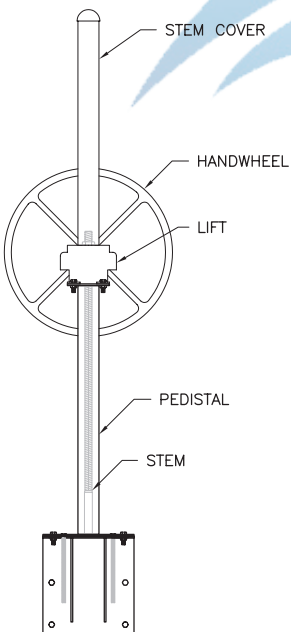
BUTERATEE

CARBON STEEL

STAINLESS STEEL



PEDISTAL



RAISES OPERATOR TO ERGONOMIC HEIGHT
FOR GATE ACCTUATION.

MATERIAL: CARBON STEEL, ALUMINUM, & SS

STEM GUIDE



TYPICALLY BUILT PER
JOB SPECIFICATIONS
UHMW BUSHED

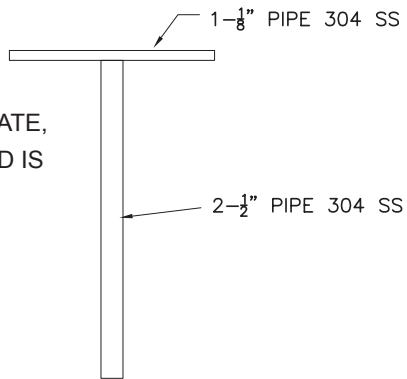
MATERIAL: 304, 316 SS



COMPONENTS - GATE PARTS

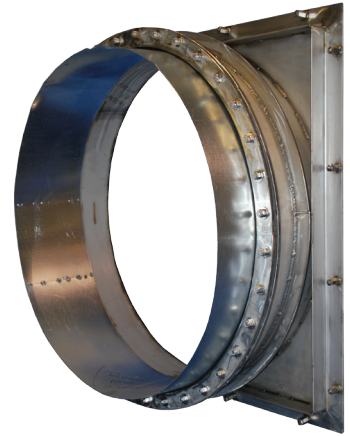
TEE HANDLE

TYPICAL FOR USE ON
NON RISING STEM GATE,
OR WHERE GATE HEAD IS
BELOW TOP OF WALL.
CAN BE BUILT TO
SPECIFICATION



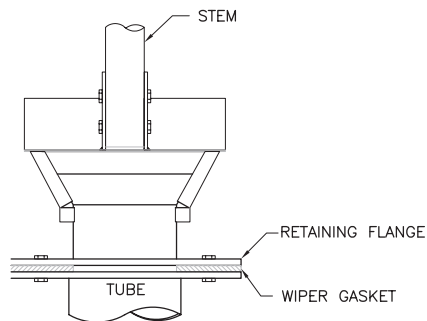
THIMBLE

THIMBLES ARE
TYPICALLY USED FOR
WALL PENETRATIONS
AND VARY WITH JOB
SPECIFICATIONS
MATERIAL:
304 SS
316 SS



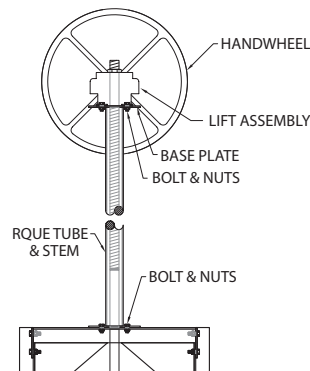
TELESCOPING VALVE

TYPICALLY USED
AS SKIMMER OR
REGULATING BASIN
WATER LEVEL.



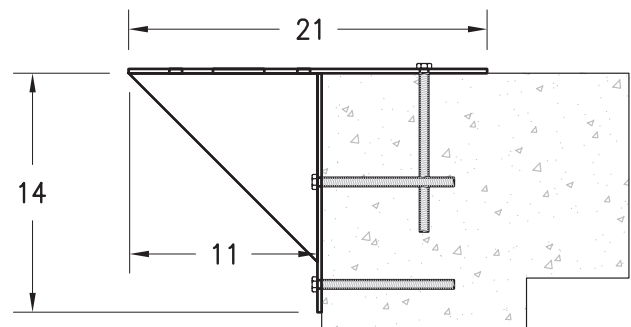
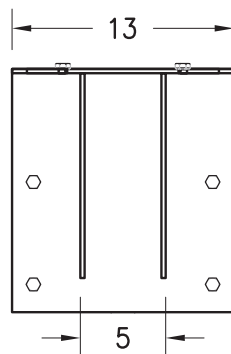
TORQUE TUBE

TYPICALLY USED IN
LIEU OF TALL SELF
CONTAINED FRAME.



TOP OF WALL BRACKET

USED FOR MOUNTING
PEDISTAL OR
OPERATOR OT TOP OF
WALL.
MATERIAL:
304 SS
316 SS



INFORMATION SHEET FOR FABRICATED SLIDE GATES

A. ITEM #

NUMBER OF GATES REQUIRED

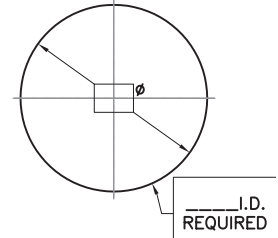
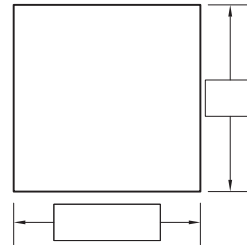
GATE MATERIAL

- ☐ ALUMINUM
☐ STEEL
☐ STAINLESS STEEL

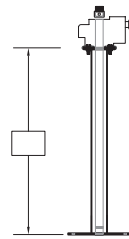
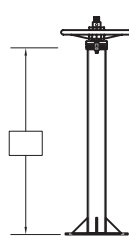
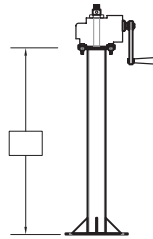
B. GATE SIZE
WIDTHxHEIGHT

OR

DIAMETER



C. HOIST REQUIREMENTS



☐ STEM COVER

- ☐ CLEAR PLASTIC
☐ METAL

☐ POSITION INDICATOR

- ☐ MYLAR STRIP
☐ COUNTER
☐ DIAL

☐ STEM

- ☐ RISING STEM
☐ NON-RISING STEM
☐ DOWNWARD OPENING (WEIR)

- ☐ MANUAL
☐ ELECTRIC
☐ CYLINDER

☐ OIL

VOLTS

- ☐ HANDCRANK
☐ WATER

PHASE

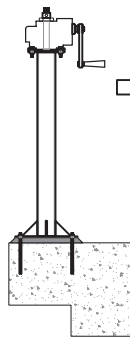
☐ AIR

CYCLES

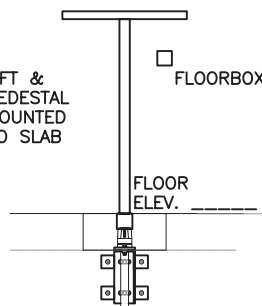
PSI

☐ 90° GEARBOX

D. LIFT MOUNTING

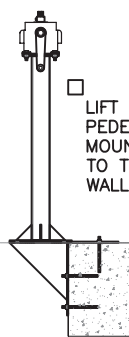


LIFT & PEDESTAL
MOUNTED
TO SLAB

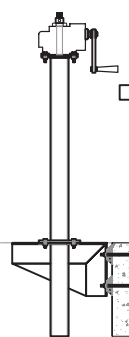


FLOORBOX

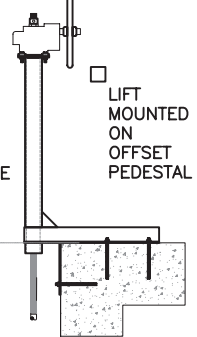
FLOOR
ELEV.



LIFT & PEDESTAL
MOUNTED
TO TOP OF
WALL BRACKET



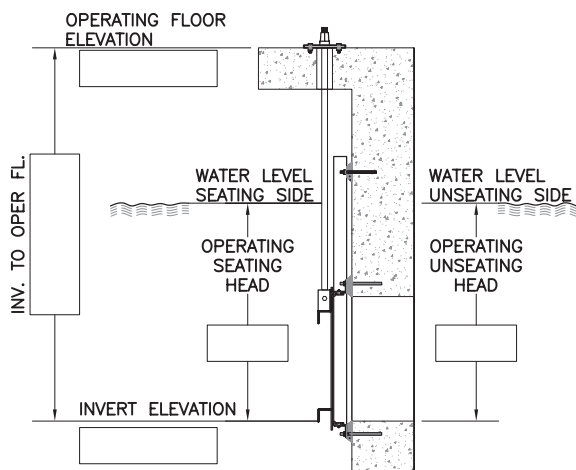
LIFT
MOUNTED
TO YOLK /
TORQUE TUBE



LIFT
MOUNTED
ON
OFFSET
PEDESTAL

SELF-CONTAINED

E. GATE DESIGN REQUIREMENTS



F. MISCELLANEOUS

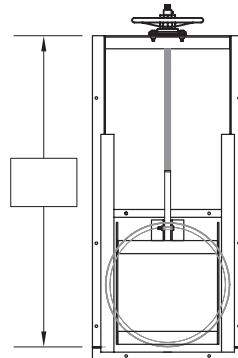
GATE MOUNTING TYPE

- ☐ CHANNEL MOUNT
☐ WALL MOUNT
☐ WEIR (DOWNWARD OPENING)

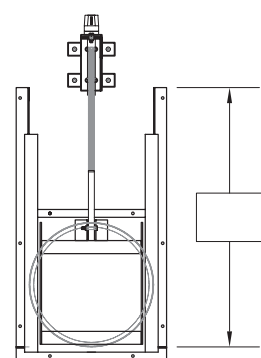
- ☐ J BULB SEALS
☐ UHMW BEARING STRIPS
☐ GROUTLESS GASKET

- ☐ EXISTING STRUCTURE
☐ NEW STRUCTURE

- ☐ DESIGN HEAD SEATING UNSEATING
 (DIFFERENT THAN OPERATING HEAD INDICATED)
☐ INVERT OF GATE IS FLUSH WITH INVERT OF STRUCTURE



☐ SELF-CONTAINED



☐ NONSELF-CONTAINED

G. COMMENTS