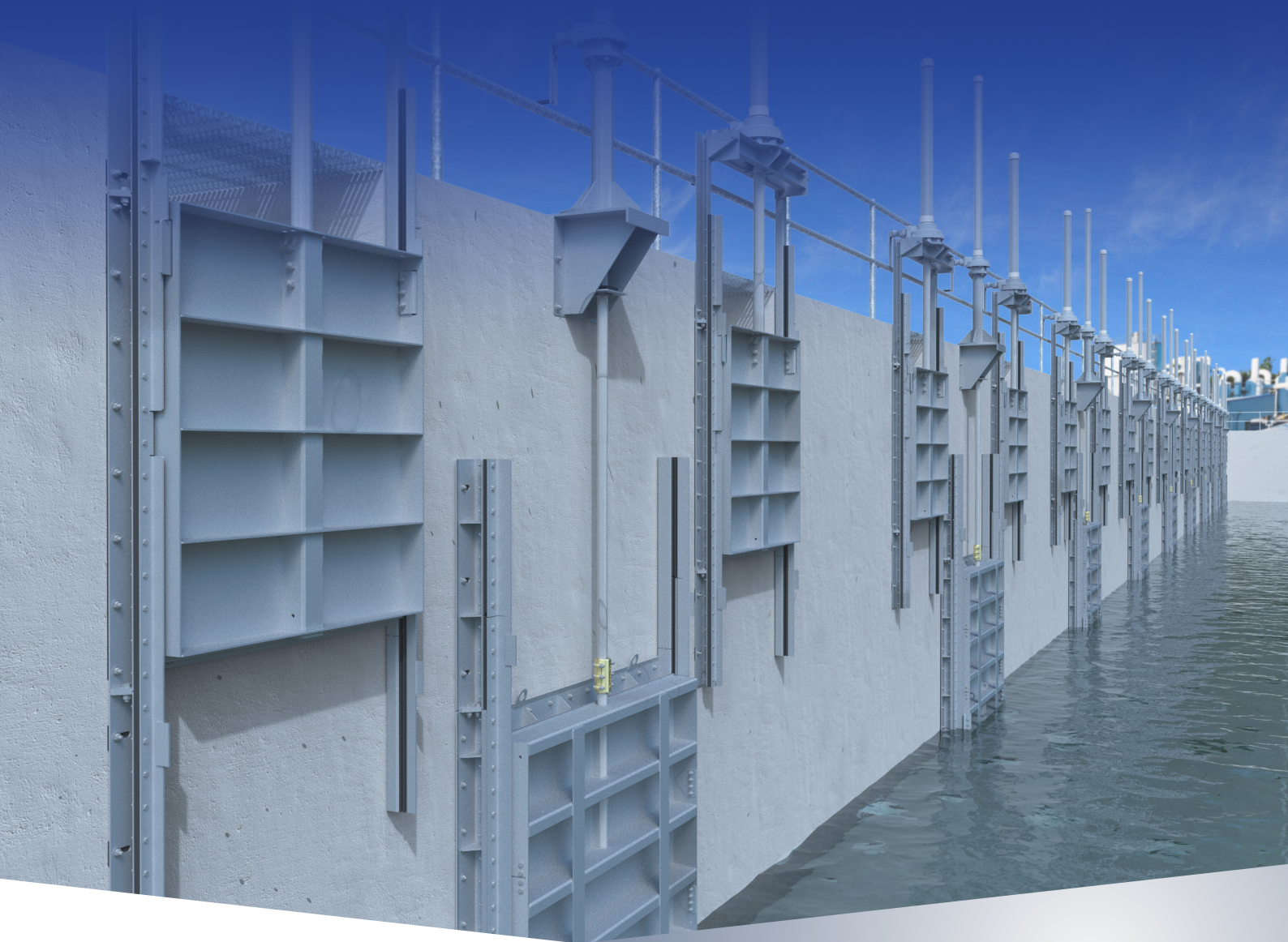


SERIES 20

Stainless Steel Slide Gates



Application

Fontaine-Aquanox's **SERIES 20** Slide Gate is a four sides sealing gate for submerged applications. It is a highly versatile flow control gate with various types of mountings, adaptable to different applications.

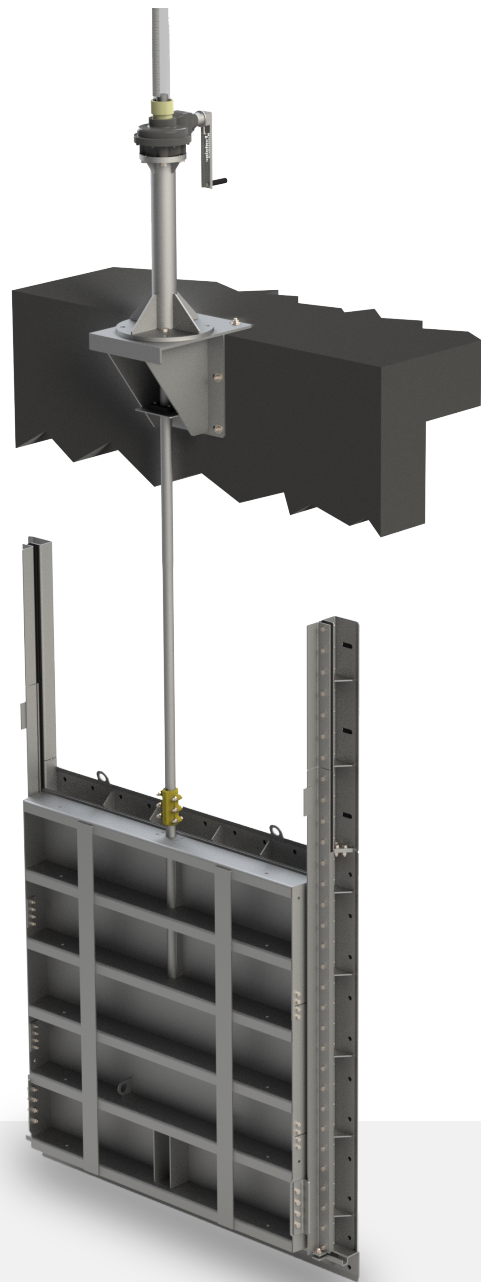
The **SERIES 20** can be designed to the required seating and unseating heads. The seal design keeps the allowable leakage rate to 0.04 U.S. gpm per foot (0.50 l/min per meter) of seating perimeter.

Stainless Steel construction

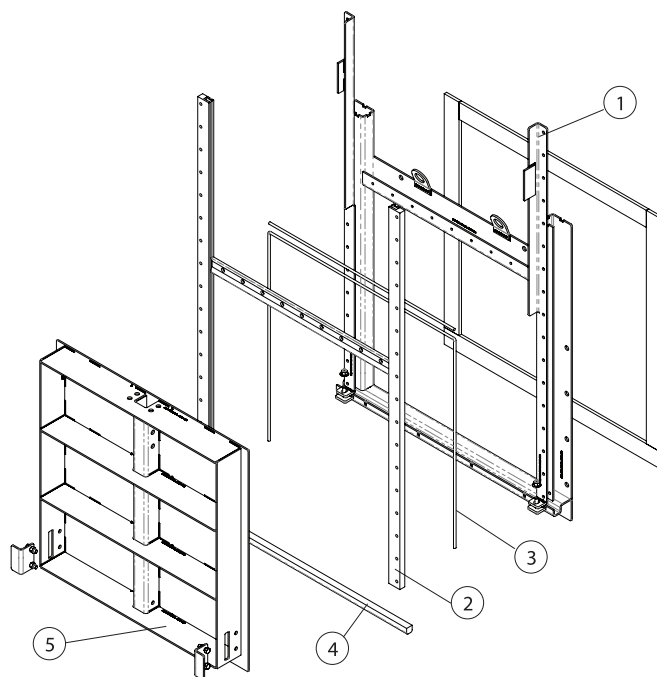
Because of its stainless steel construction, the **SERIES 20** has high corrosion and erosion resistance and can be operated for many years with minimum maintenance. Stainless steel provides virtually limitless design flexibility. The result is a lighter weight and easier-to-install gate.



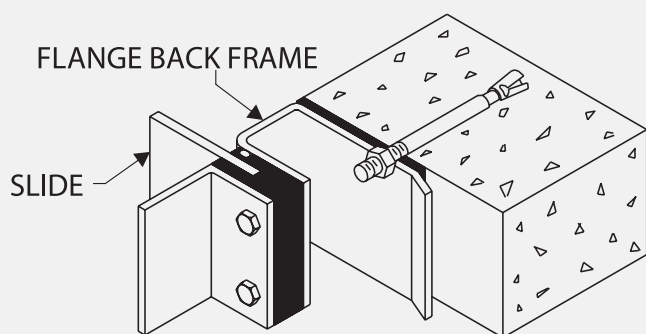
Typical Series 20 installation



No	Part	Material
1	Frame	Stainless steel ASTM A-240 Type 304L or 316L
2	Guides and Side seals	Ultra high molecular weight polyethylene (UHMWPE) ASTM D-4020
3	Compression cord	EPDM
4	Bottom seal	EPDM
5	Slide	Stainless steel ASTM A-240 Type 304L or 316L


Fig. 20-01

Exploded view of a SERIES 20 Model 204


Fig. 20-02

Flange back frame

Flange Back Frame

The stainless steel frame on the **SERIES 20** is a flange back type ([fig.20-02](#)) available in open or self-contained configurations, providing a solid one-piece gate. The rigidity provided by the flange back frame makes it easier to handle in transportation and installation with less risk of distortion. The seal bolting is completely separated from the flange anchoring, allowing the flange to be modified to better suit all particular applications.

This feature also allows the gate to be completely factory assembled as well as tested for operation and leakage before being shipped. It also eliminates any on-site assembly and adjustments.

UHMWPE Seals

The side and top seals (fig. 20-03, 04) of the **SERIES 20** are made of a self-lubricating ultra high molecular weight polyethylene (UHMWPE), allowing no metal-to-metal contact. With a friction coefficient of 0.2, the seals make the gate easier to open even when not operated for a long period of time. The self-adjusting feature is provided by means of a continuous compression cord that ensures a tight seal between the slide and the frame in both seating and unseating conditions. The continuous wedging action of the compression cord on the slide enables the **SERIES 20** Slide Gate to control flow by allowing water only through the open portion of the gate. The flush-bottom seal (fig. 20-05), leaves the opening unobstructed when the slide is in the open position.

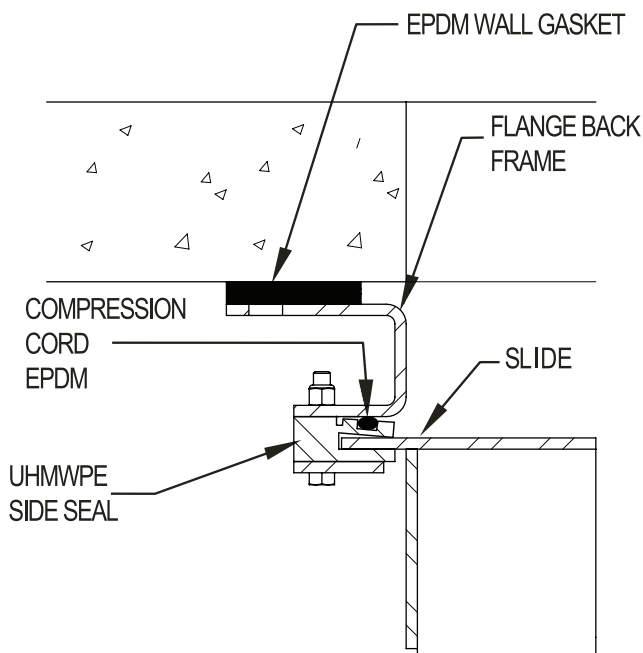


Fig. 20-03
Side frame section

Sealing system

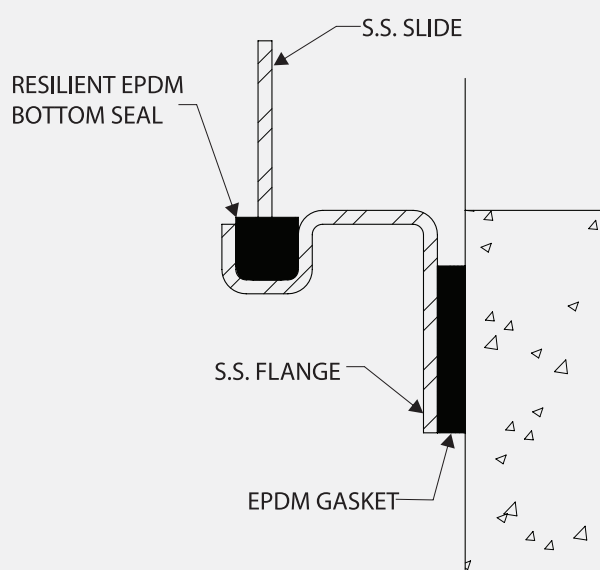


Fig. 20-05
Bottom frame section

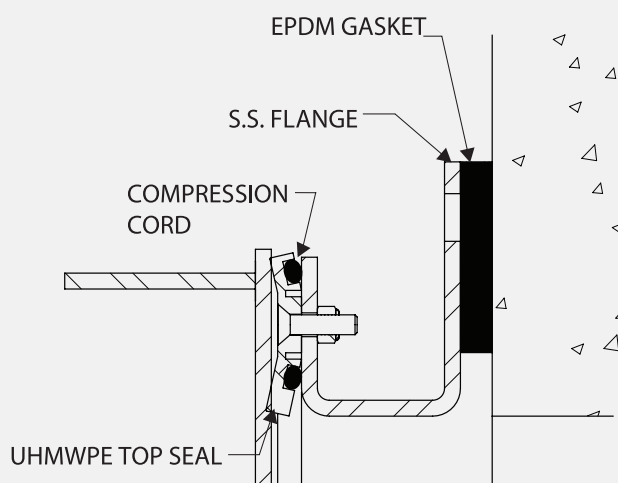


Fig. 20-04
Top frame section

Mountings

The **SERIES 20** can be mounted in almost any application.

Fig. 20-06 through 20-10 show the different mountings.

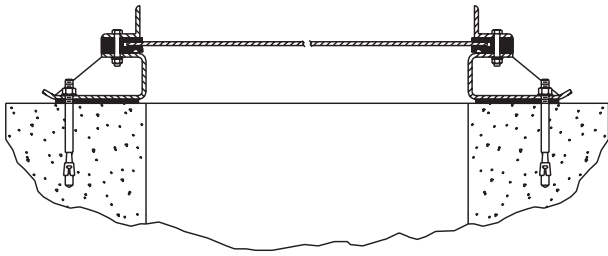


Fig. 20-06
Directly mounted on a concrete wall (CW)

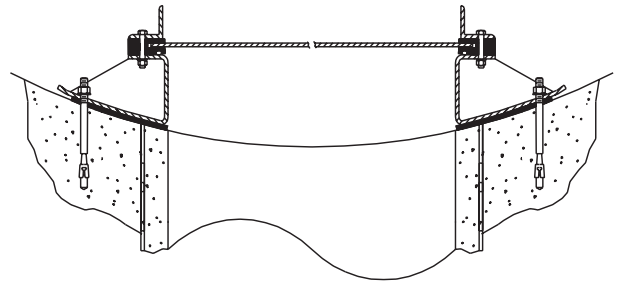


Fig. 20-09
In front of a flush pipe inside a round manhole (RMX)

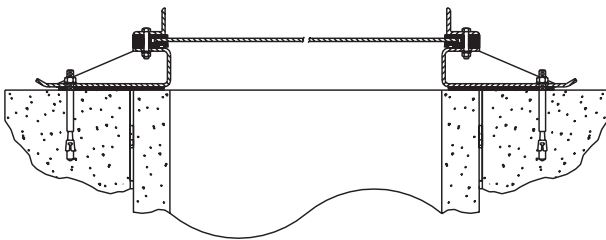


Fig. 20-07
In front of a flush pipe on a concrete wall (CWX)

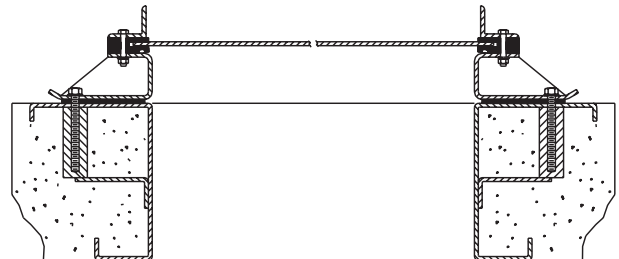


Fig. 20-10
On a wall thimble (WT)

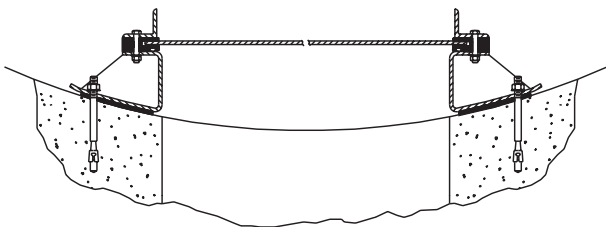


Fig. 20-08
Inside a round manhole (RM)

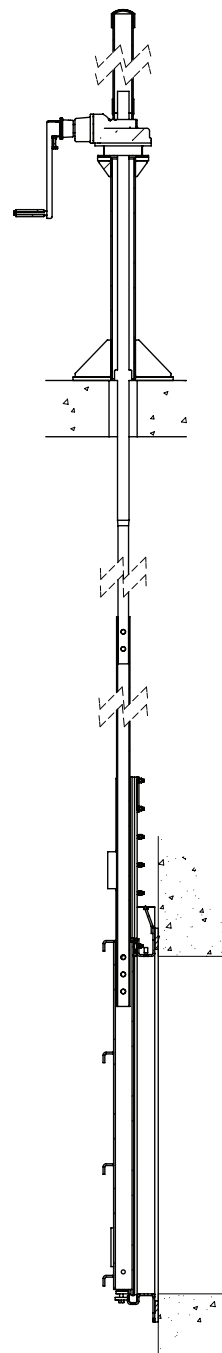
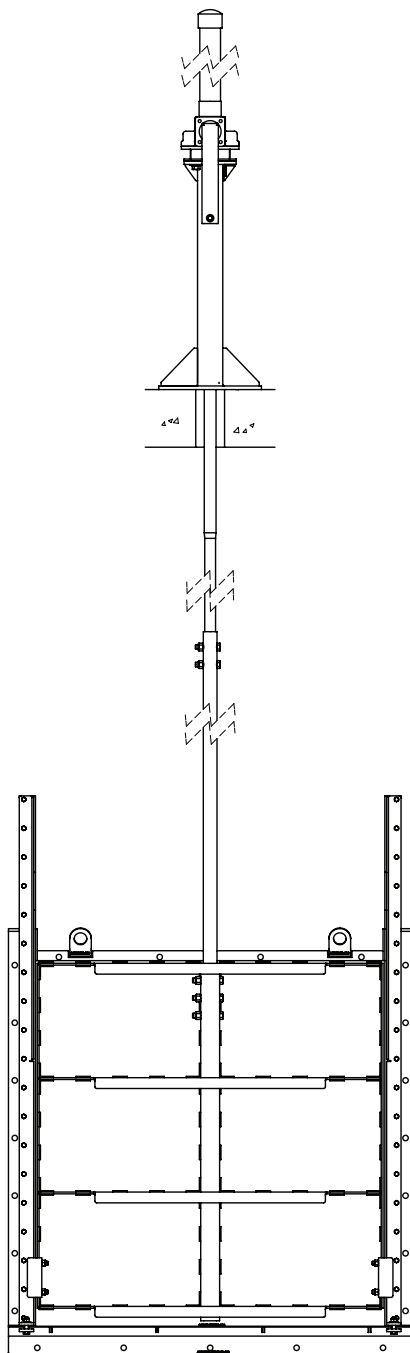


Fig. 20-11

See Fig. 20-03, 04, 05
for cross sections

Frame and Stem Configuration

Figures 20-11, 20-12 and 20-13 shows the most common frame and stem configurations. Many others are also available, to satisfy all special requirements.

Model 204

Wall-mounted (CW) with pedestal-mounted gear box and crank operator Rising stem

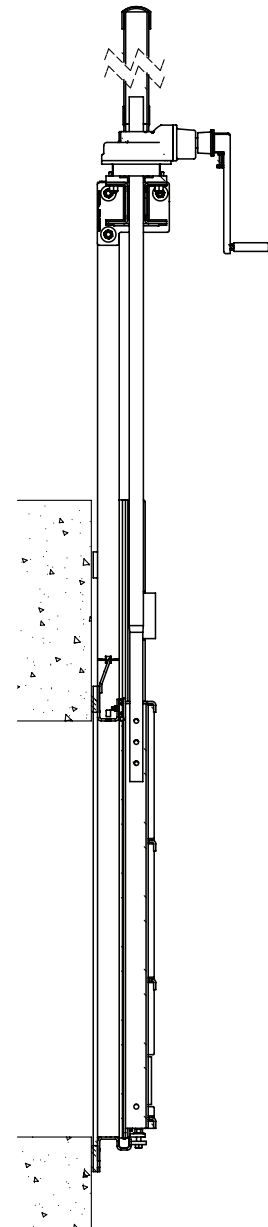
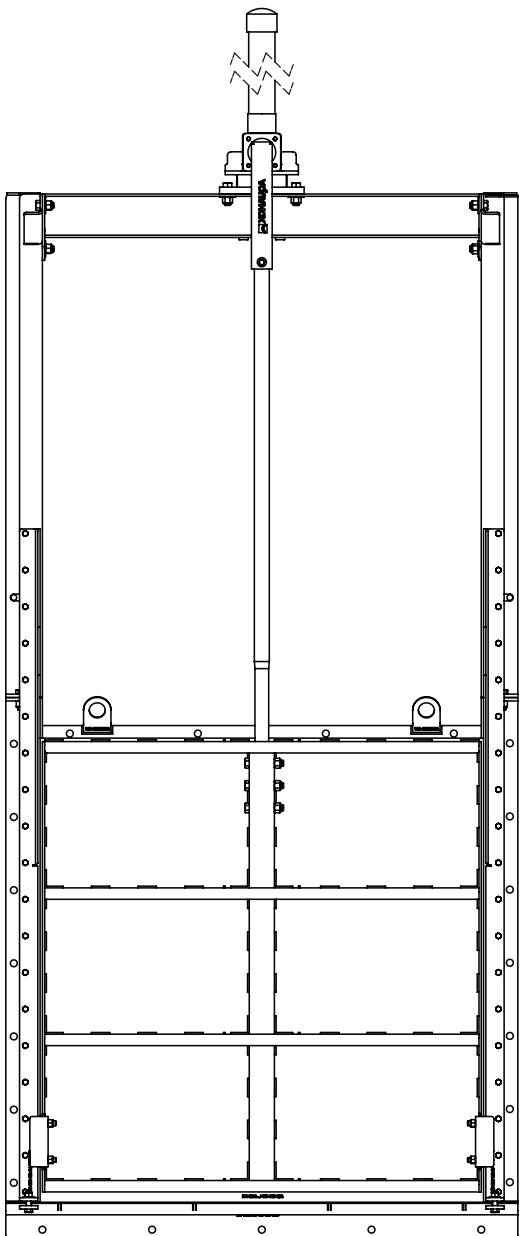


Fig. 20-12

See Fig. 20-03, 04, 05 for cross sections

Frame and Stem Configuration

Figures 20-11, 20-12 and 20-13 shows the most common frame and stem configurations. Many others are also available, to satisfy all special requirements.

Model 203

Wall-mounted (CW) with yoke-mounted handwheel operator Rising stem

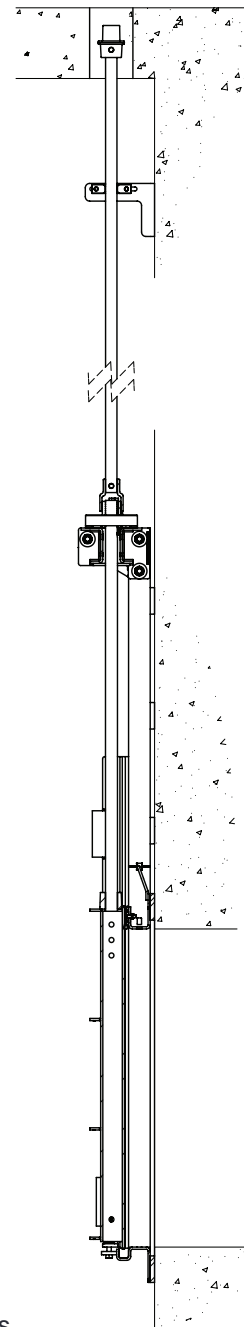
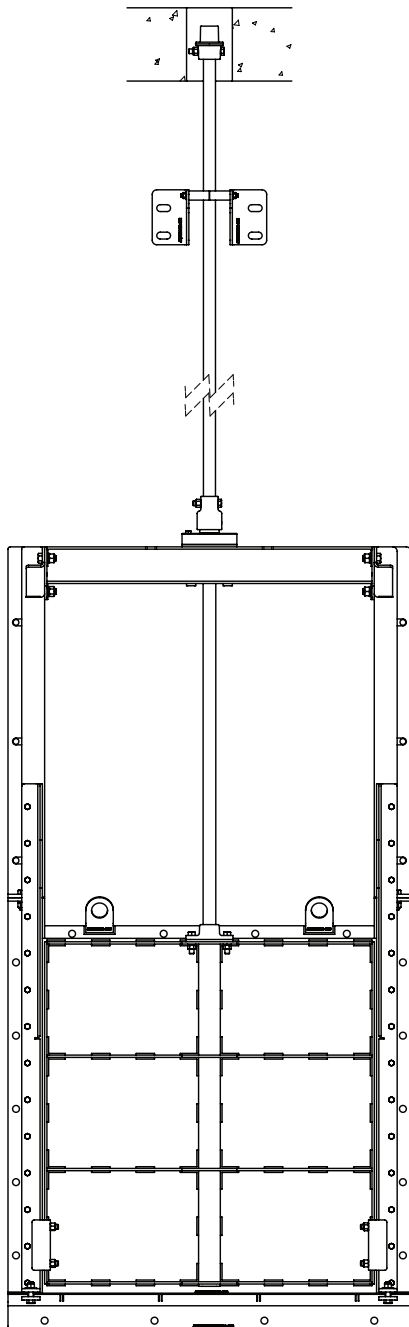


Fig. 20-13

See Fig. 20-03, 04, 05 for cross sections

Frame and Stem Configuration

Figures 20-11, 20-12 and 20-13 shows the most common frame and stem configurations. Many others are also available, to satisfy all special requirements.

Model 202

Wall-mounted (CW) with square nut operator. Non-rising stem

AWWA Standards

SERIES 20 Slide Gates are built to meet or exceed AWWA C561 latest revision standards pertaining to design safety factors, stem and stem guides positioning, manual lifting devices, leakage, etc.



**American Water Works
Association**

**As specified in the AWWA standard, all Fontaine-Aquanox
SERIES 20 water gates are tested for leakage and operation
before shipping.**

NSF-61 certification

NSF-61 certification is available on request
for **SERIE 20**.



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