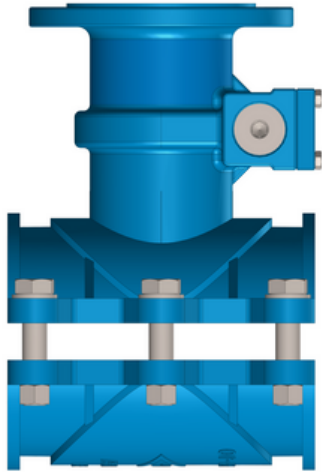


2024

HYDRA-CUT

UNDER PRESSURE
HYDRANT INSTALLATION

DESIGN



Current Compliance Testing Underway

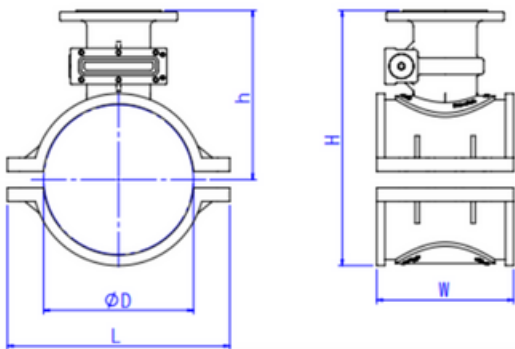
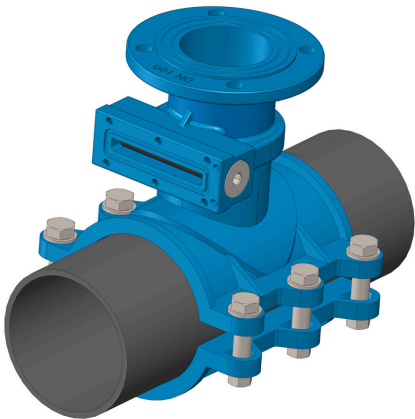
- AS4181 - Repair and off-take clamps for water industry purposes
- AS4020 - Testing of products for use in contact with drinking water

About the Product

- Fitting is designed to be installed under pressure
- PN16 Rated Product
- Suitable on both PE and Metallic Pipes

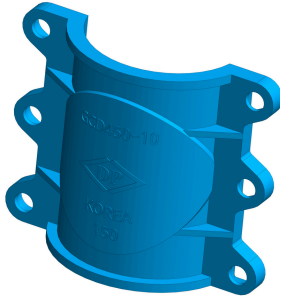
Suitability on following type of pipes:

- Ductile Iron
- Cast Iron
- mPVC
- Polyethylene (PE)
- Asbestos Cement



DN	Ø D	L	H	W
100	122	250	307	250
150	177	300	358	250
200	232	354	409	300
225	259	400	420	350
250	286	406	466	400
300	345	458	519	450

COMPONENTS



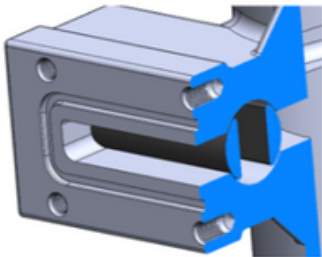
Lower Clamp

- Ductile Iron ISO1083 - JS/400/15
- Akzo Nobel R-4ES
- Coated in accordance with AS/NZS 4158



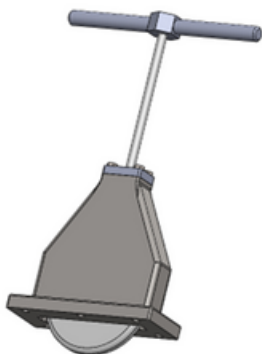
Upper Clamp

- Ductile Iron ISO1083 - JS/400/15
- Akzo Nobel R-4ES
- Coated in accordance with AS/NZS 4158



Roll Valve

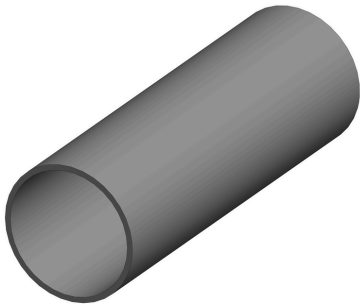
- SS316 Spindle for Operation
- Rubber Coated MS Roller Gate



Temporary Isolation Valve

- Stainless Steel (SS316) Components
- NBR Rubber Ring for Temporary Sealing ISO 6458
- Copper Alloy Nut CAC703

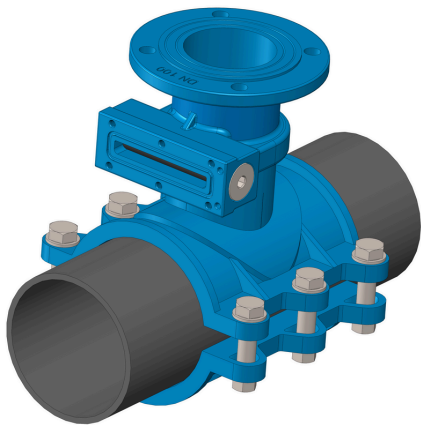
INSTALLATION PROCEDURE



STEP 1

Pipe is excavated, OD is measured and pipe is in suitable condition for installation of a Hydra-Cut.

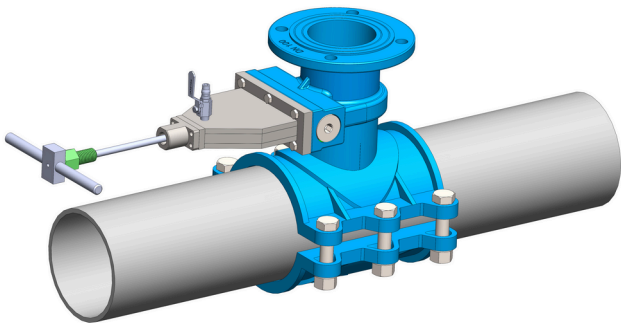
Pipe shall be free of excessive dent and no visible deformity to be visible



STEP 2

Both Upper Clamp and Bottom clamps are bolted onto the pipe.

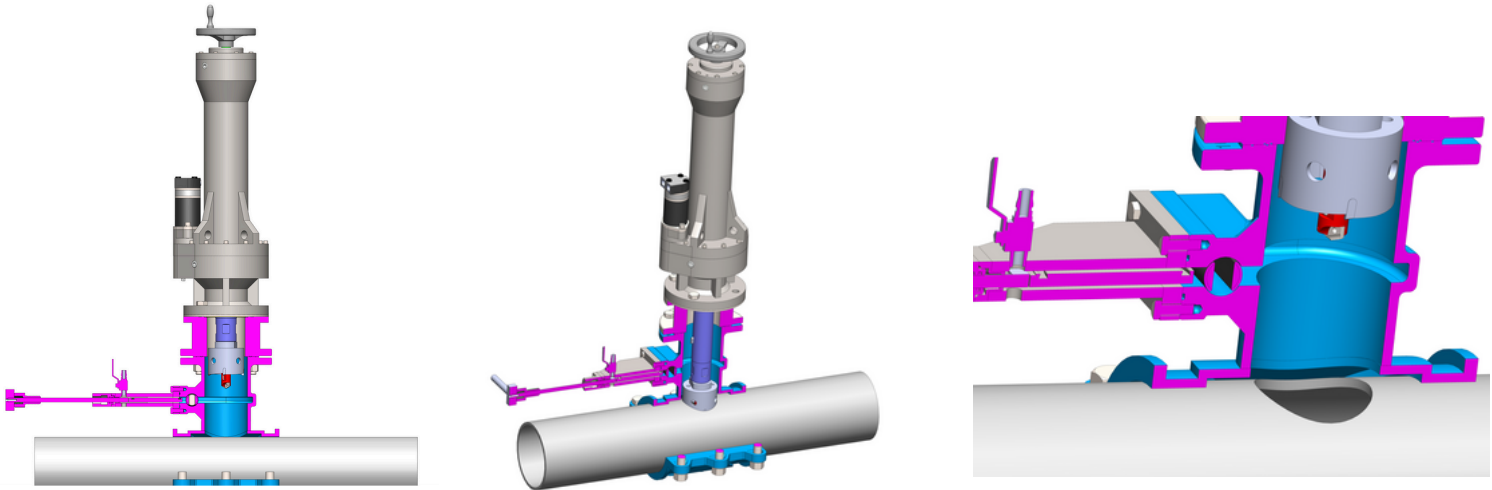
At this stage, fitting should be pressure tested to ensure that fittings are correctly fitted.



STEP 3

Bolt on temporary isolation valve ensuring that all bolts are tightened to the flanges located on the side of the upper clamp.

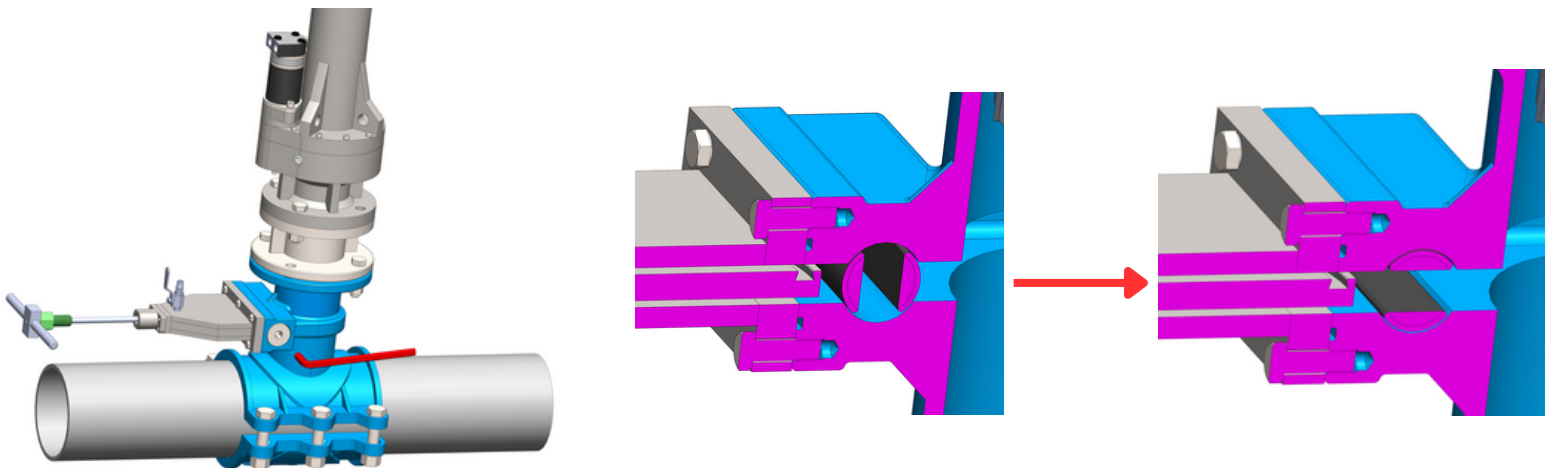
INSTALLATION PROCEDURE



STEP 4

Using the suitable under pressure tapping machine, proceed with tapping of the existing main.

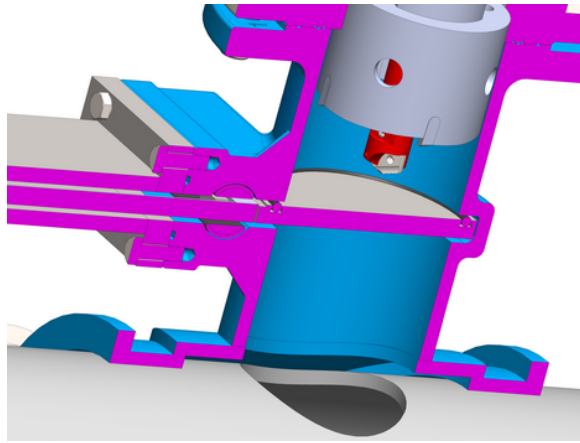
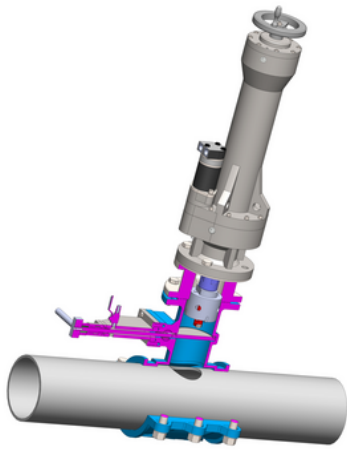
Ensure correct hole saw is used depending on the material of the pipe



STEP 5

Utilising allen key, open the roll valve from CLOSED into OPEN Position

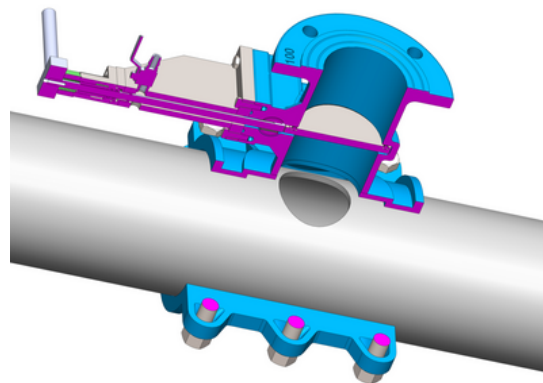
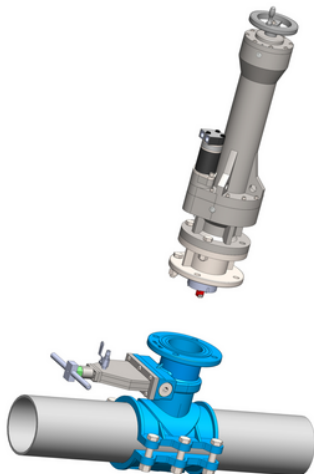
INSTALLATION PROCEDURE



STEP 6

Insert the Temporary Isolation Valve fully.

Release the ball valve located on top of the Temporary Isolation Valve bonnet to confirm pressure isolation above the inserted Disc



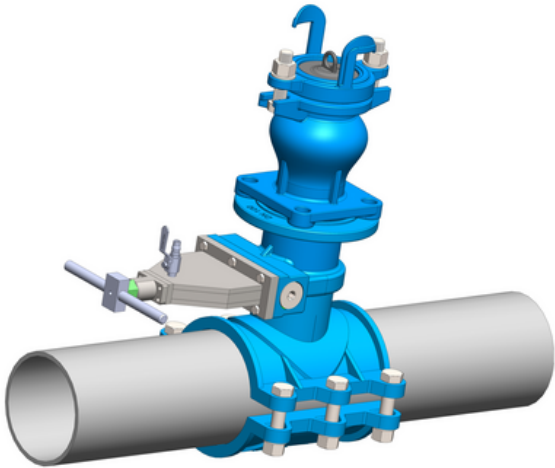
STEP 7

Remove hot tapping machine from the upper clamp of the Hydra-Cut

INSTALLATION PROCEDURE

STEP 8

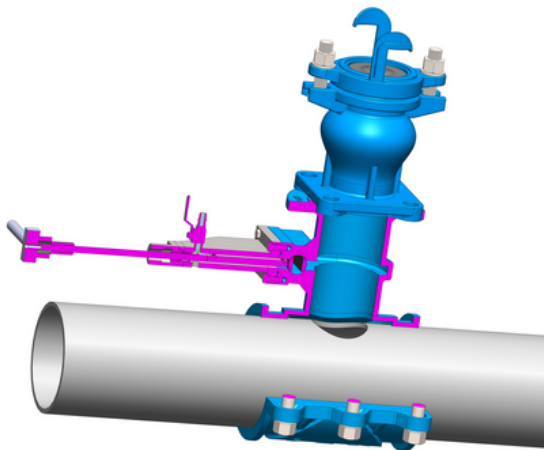
Place the hydrant on top of the Upper Clamp of Hydra-Cut.



STEP 9

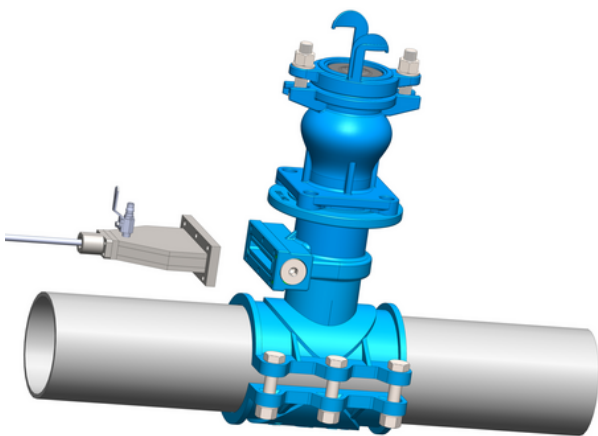
Fully Extract the Temporary Isolation Valve.

Use an Allen Key to operate the Roll Valve and confirm depressurisation of the Temporary Isolation Valve.

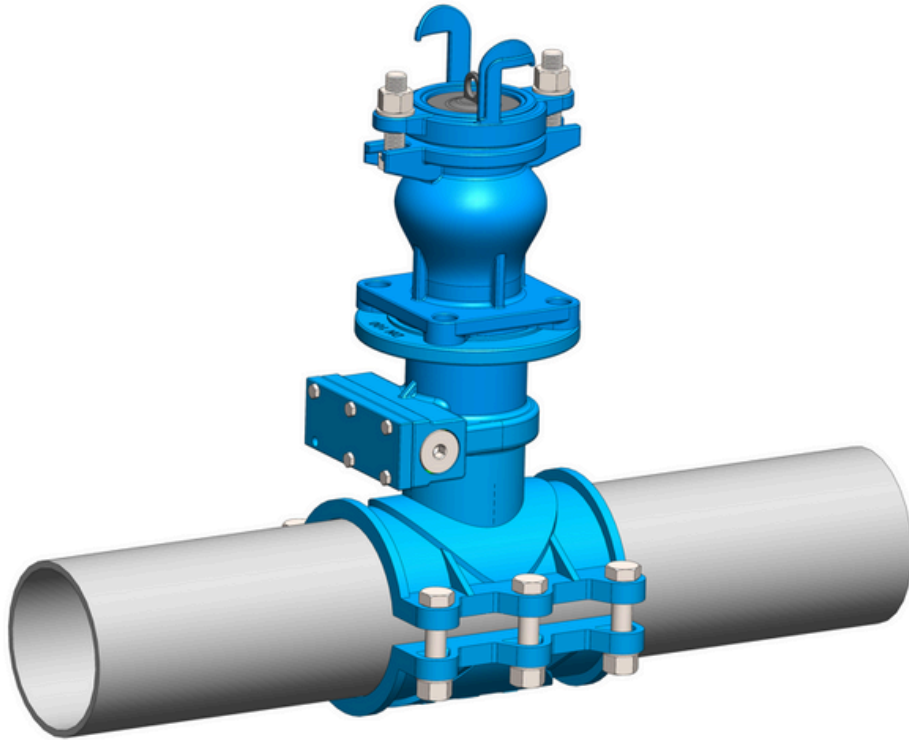


STEP 10

Remove Temporary Isolation valve from the upper clamp.



INSTALLATION PROCEDURE



FULLY INSTALLED HYDRA-CUT