

# **RAIMONDI**

#### Storage



## WARNING!

Storage in an open area for a limited period can be considered only in case the valves have appropriate packing (packed incases lined with tarred paper, and contents well protected with barrier sacks).

- Do not place consignment packages directly on the ground.
- Do not expose consignment packages to the weather or directly to the sun.
- Check the packages every two months.

## **Table I: Bolt Torque for Packing Bolts**

Stem		Bolt	
Diamete	r	Diameter	Torque
in	mm	mm	Nm
1	25,4	M16	14
1,25	31,75	M16	14
1,375	34,92	M20	18
1,75	44,45	M20	18
2	50,8	M24	20
2,25	57,15	M24	20
2,5	63,5	M27	23
2,75	69,85	M27	23
3	76,2	M27	23
3,25	82,55	M30	28
3,75	95,25	M33	35

## **Table II: Bolt Torque for Bonnet Bolts**

Diameter		Torque
in	mm	Nm
3/8	M10	30
1/2	M12	70
5/8	M16	140
3/4	M20	260
1	M24	580
1 1/8	M27	760
1 1/4	M30	1350

# Before installation these instructions must be fully read and understood.

These instructions summarise the main warnings concerning the routine operations as per the related Installation and Maintenance Manual.

#### Handling



# / WARNING!

- Before lifting or handling the valve, make sure you have no limitations to do it.
- For valve handling and/or lifting, the lifting equipment (fasteners, hooks, etc.) must be sized and selected while taking into account the valve weight indicated in the packing list and/or delivery note. Lifting and handling must be made only by qualified personnel.
- Caution must be taken during the handling to avoid that this equipment passes over the
  workers or over any other place where a possible fall could cause damage. In any case, the
  local safety regulations must be respected.

#### Installation

### Important

- Verify that the direction of the flow of the line corresponds to the arrow indicated on the valve body.
- · Valves without the arrow are bi-directional.
- It is recommended to perform piping flushing before the valve installation. If this is not possible, the valves must be set with the disc in full open position before starting with flushing.
- If piping system is pressurized with water for testing, and in case the piping system has been shut down after testing for a long time, the following recommendations should be adopted:
  - a. Use corrosion inhibitor with water to pressurize the piping system
  - After testing, the piping system should be depressurized and the test water completely drained
- For operating temperatures above 200°C (392°F) a thermal insulation of the body is recommended.

# Maintenance

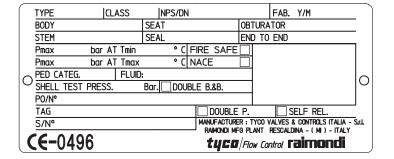


# / WARNING!

- Depressurize the line before starting any maintenance. Failure to do so may cause serious personal injury and/or damage to the valve.
- In case of valve removal, depressurize the line before starting any operation with the valve in open position. Then, close the valve.

### Service limitation:

According to PED-ESR, par. 3.3 and related, the design pressure and temperature are indicated on the nameplate.



# Important

- To ensure tightness of P.S. gasket, pull up bolts must be tightened when the valve is under fully hydrostatic pressure test or twenty-four hours in operation.
- Yearly checking of bolt torque is recommended (See Tables 1 & 2).
- The segment ring has to be fixed by the safety ring. Ensure that the segment ring is in the correct position.