- At any pipeline high point
- in pump discharge lines

Permitted air valve sizes are shown in Table 7-7.

Main line size (DN)(mm)	Air valve size (DN)(mm)
150 – 250	80
300 – 500	100
600 – 900	150
1000 – 1200	200
1200 - 1800	250 or 2 x 200

Table 7-7 - Air Valve Nominal Sizes v Main (DN)

Air valves shall be specified to release the air at maximum design pressure.

7.5.10. Washout Valves

Washout valves shall be specified at 1.0km intervals and the following locations:

- at pipeline low points to provide complete draining of the pipeline
- at other locations for maintenance purposes
- between 2 air valves

Washouts shall be specified together with air valves, according the following parameters:

- In general, washout valves must be gate valves
- Maximum velocity in the drain pipe = 4.5 m/s. Wear valves or orifices plates must be provided to limit the velocity in the pipework, if necessary
- Washouts must be designed to achieve a minimum velocity of 0.75 m/s in the main pipe during flushing
- Maximum time to drain the section of the pipeline affected by the washout must be 4 h (14,400 s)
- Air valves must be designed for pipeline draining, according to the maximum draining flow of the washout

Permitted washout valve sizes are shown in Table 7-8.

Main line size (DN)(mm)	Washout valve size (DN)(mm)
150 – 200	80
250 – 300	100
400 – 500	150
600 – 1000	200
1000 – 1200	250
1400 - 1800	300

Table 7-8 – Washout Nominal Sizes vs Main (DN)