

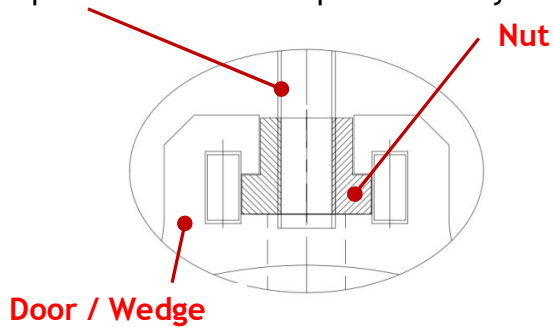
SLUICE VALVES (NON - RISING SPINDLE - vs - RISING SPINDLE)

Non-Rising Spindle

These are used for Water application - Pumping, Treatment & Distribution



Gun Metal Nut (inside the door lug) and spindle thread are exposed to duty fluid.



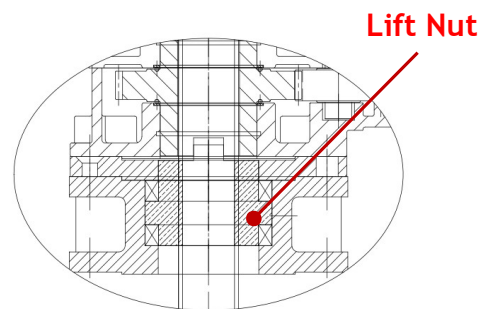
Back Seat Bush may or may not be present (depends upon the requirement from user)

Rising Spindle

These are used for Waste Water Application - Pumping & Treatment



Sewage is corrosive; This will eat away the gun metal nut in no time rendering the valve useless. Hence, the operating nut is taken above the wet chamber. For this the spindle is engaged with the door by means of a solid block and the threading is taken outside to engage with the lift nut. By this means the threading is also spared from the ill effects of sewage water & debris.



Back Seat Bush is a standard feature to prevent seepage of sewerage water from gland while the valve is in operation and keep the pump house clean. This also helps changing of gland packing under line pressure.

Seating faces are of Gun Metal



All internal are in Gun Metal (with 2% Ni / Zinc free bronze) - / St. Steel so as to resist corrosion of seating faces by the duty fluid.



Sub surface Municipal pipelines cannot have a rising spindle come up on to the road and therefore only non rising stem valves are used.

The extent to which the rising stem projects above the valve is a visual indicator of the extent of its opening. Thus the operator is spared the trouble of going near the valves to check if it is open or closed.

When operating valves from a high platform, torsional deflection of extension spindle may result, proper harnessing at frequent intervals is necessary.

Operating from a platform above is more efficient as long as guide brackets at reasonable frequency are provided to prevent buckling of stem under compression.

