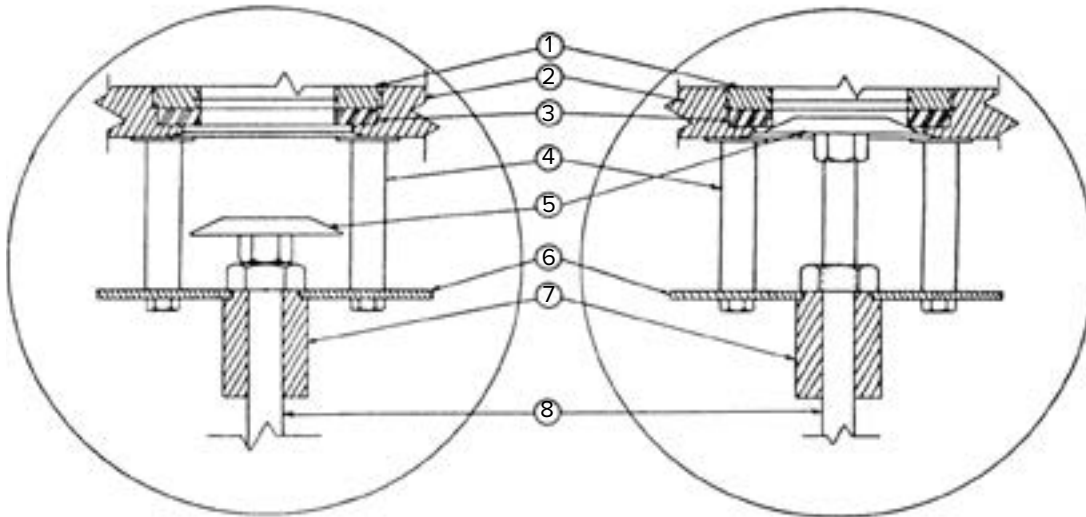


AIR & VACUUM SEWER VALVE FUNCTION & SEATING

HOW THE CRISPIN AIR & VACUUM SEWER VALVE WORKS:

The seating area in an Air & Vacuum Sewer Valve is comprised of a stainless steel disc which mates with a Buna-N Rubber seat when the valve is closed. The thickness of the disc is determined by the orifice size but is no less than 1/4" at its thickest point. The circumference of the disc is chamfered so that the valve can be self-seating and maintain a positive drip tight seal with repeated operating cycles. The top float functions only as a seating surface to seal the valve.

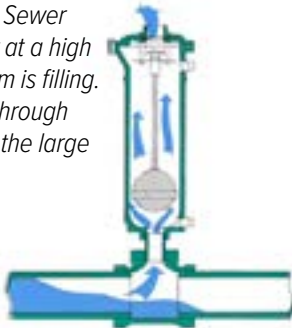


Valve Seating Area	
ITEM	DESCRIPTION
1	TOP
2	TOP FLANGE
3	BUNA-N SEAT
4	STAND ROD
5	VALVE DISC
6	BAFFLE PLATE
7	GUIDE BUSHING
8	FLOAT ROD

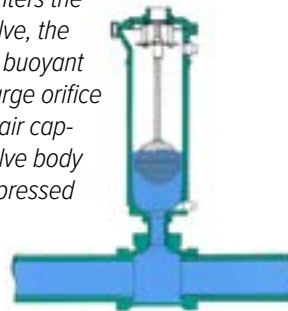
Valve Disc in the "Open" Position

Valve Disc in the "Closed" Position

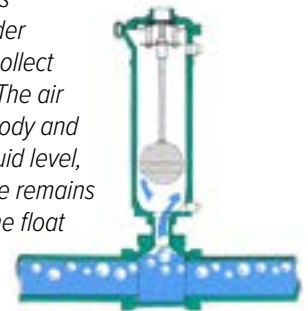
The Air & Vacuum Sewer Valve releases air at a high point as the system is filling. The air exhausts through the valve and out the large discharge orifice.



As the liquid enters the body of the valve, the float becomes buoyant and the discharge orifice is sealed. Any air captured in the valve body becomes compressed.



While the system is operating and under pressure, air will collect at the high point. The air enters the valve body and displaces the liquid level. However, the valve remains closed because the float weight is less than the force, due to system pressure. The valve will only open again when a vacuum occurs.



Please note that Crispin Sewer Air & Vacuum Valves use the same sizing parameters and curves as Crispin's standard Air & Vacuum Valves.



PRODUCT LINE	DATE	REVISION
SL(A) & S(A) Air & Vacuum Sewer Valves	1/19/2024	0
SHEET	DOC. NO.	
SL(A) and S(A) Series Function & Seating	D-AV-SLA-SA-FUNCTION-r0	