

Orbital Valve		Toggle Valve		Pinch Valve	
+	-	+	-	+	-
Offers a flexible design of the toilet unit as the valve is the smallest.	Is vulnerable to sedimentations and urine lime stone deposits	Very reliable towards an environment generating deposits	Larger in design, giving limitations in the design freedom of the toilet unit.	Very reliable towards an environment generating deposits	Even larger in design, giving several limitations to the design freedom of the toilet unit.
Good type of gate valve as the air cylinder is in protected the dry area	The service intervals are very much dependent on the environment	Service intervals not depending on environment, but on number of cycles or time in use.	If the hose is punctured, waste water can flood the system.	Service intervals not depending on environment, but on number of cycles or time in use.	Needs vacuum on the inlet valve to open properly and in general poor in opening force.
Can be refurbished several times		Can be refurbished many times		Can be refurbished many times	
Has a quick reaction time (open / close)		Has a quick reaction time			Slightly slower reaction time in the opening sequence.
Stays automatically closed even if the system is unpowered and/or without air supply.		Stays automatically closed even if the system is unpowered and/or without air supply.		Needs additional pneumatics if it should remain closed without air supply.	The interface valves open slowly when the system is without air supply.
No risk of waste water getting out of the system.		Very easy to inspect.	Cycles with punctured hose can cause leakages from system.	No risk of waste water getting out of the system even when a hose is punctured.	Open systems can smell. Not really separation between air and waste with punctured hose.
Offers a good performance in many applications		Offers an reliable performance even in high calcium content environment.			Hose not designed for longer closed periods as this can influence on opening willingness
					