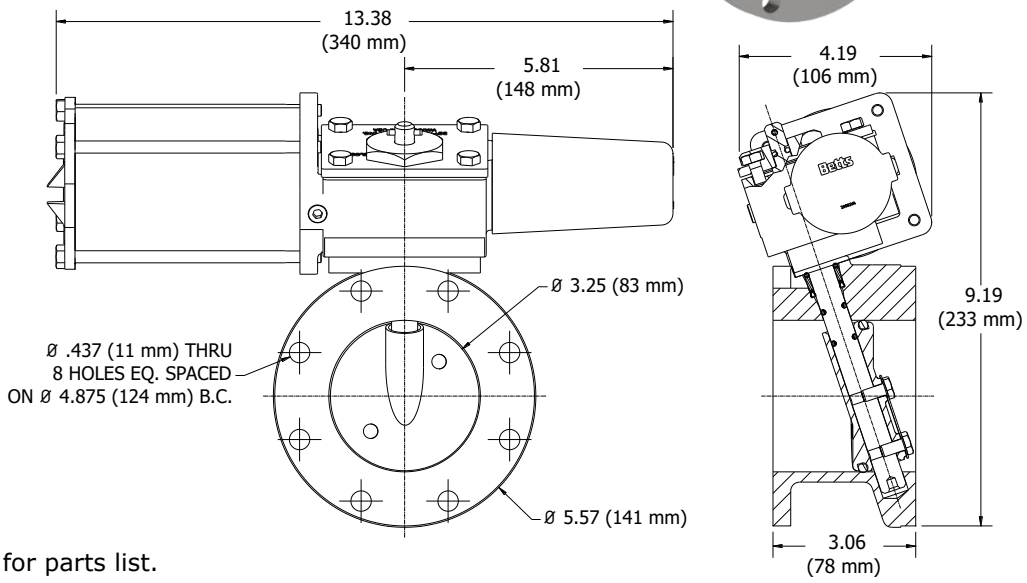
The Betts Pneumatically Operated Ecliptic Valve is a quarter turn in-line stop valve that satisfies the requirements of external self-closing stop valve when equipped with a spring closed actuator. The valve does NOT contain a shear section; therefore, the cargo tank must provide suitable accident damage protection when required. The exposed components of the valve are constructed of 316L stainless steel and the seals are PTFE encapsulated silicone for compatibility with a wide variety of products. The actuator is e-coated aluminum with a robust fiberglass cylinder and features a visual indicator that clearly shows the orientation of the valve disc. The actuator is available in styles such as:

- Air-open/Spring-close
- Air-open/Air-close

Bolt pattern matches TTMA piping flange dimensions.



Note: See Section 22 Page 1D for parts list.

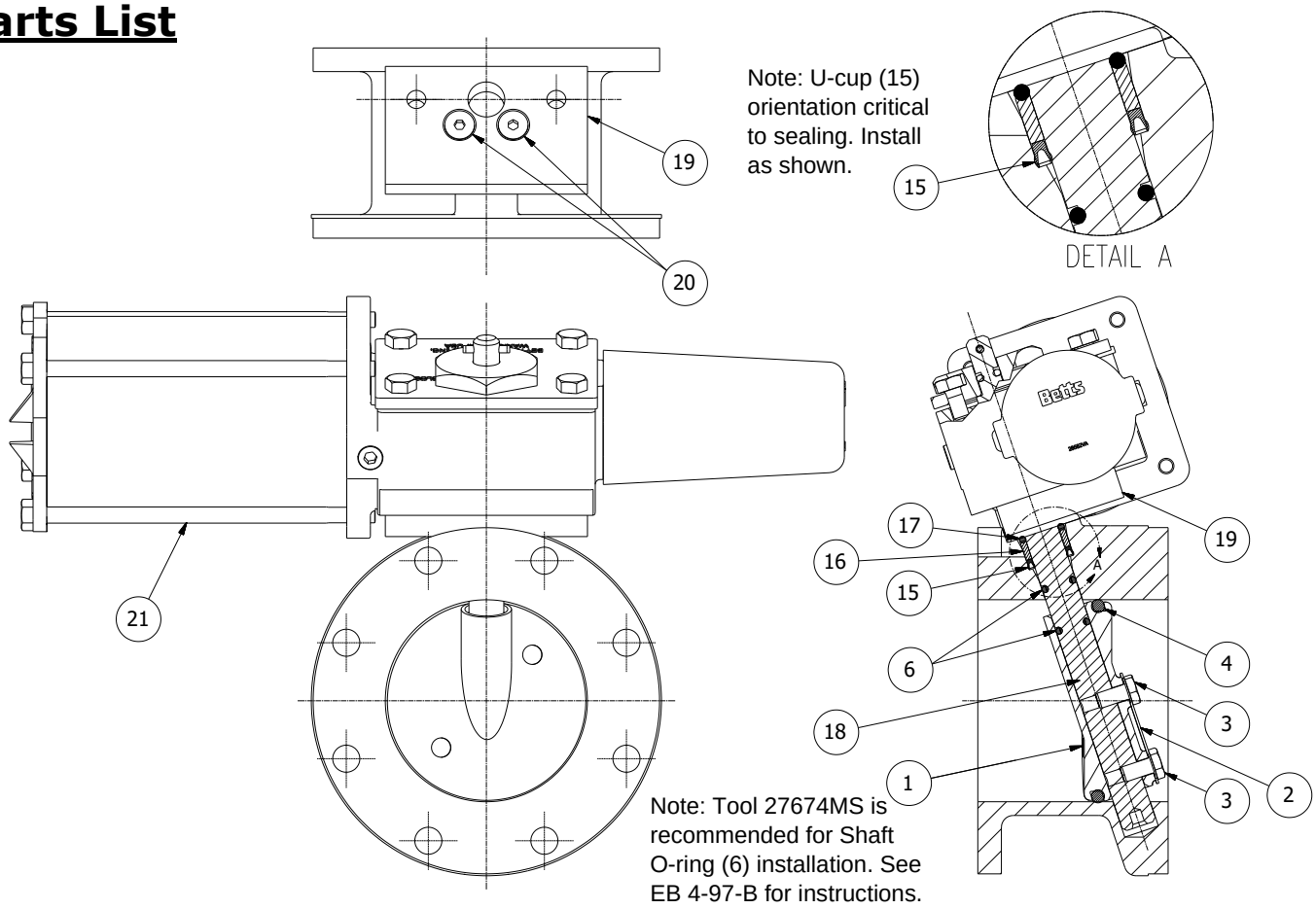
Size	Assembly #	Description	Shaft Seal	Main Disc Seal	Weight	Maximum Allowable Working Pressure (MAWP)
3"	EC46591SSTS	Air Open / Spring Close	Tef-Sil	Tef-Sil	13 lbs [6.1 kg]	100 psi [6.8 bar]
	EC46591SSTSVT		FKM-A			
	EC46591SSTSKA		FFKM			
	EC46643SSTS	Air Open / Air Close	Tef-Sil			

Installation: The Ecliptic Valve may be mounted in any position. It is recommended to use Betts flanges and adapters shown in Section 20, Page 5A.

⚠ **WARNING:** This product can expose you to chemicals including Chromium (hexavalent compounds), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

Designed, engineered and manufactured in the USA.

Parts List



No.	Req.	Description	Mat'l	Part No.
1	1	Disc	316 SS	27169SS
2	1	Locking Tab	316 SS	19256SS
3	2	Cap Screw	304 SS	9Q4174
4	1	O-Ring Main Seat	Tef-Sil	19205TS
6	2	Shaft O-Ring	Tef-Sil	18582TS
			FKM-A	18582VT
			FKM-B	18582VB
			FFKM	18582KA
15	1	U-Cup Seal	PTFE	19326TF
16	1	Bearing Ring	PTFE	75665TF

No.	Req.	Description	Mat'l	Part No.
17	1	Top Plate O-Ring	FKM-A	17889VT
18	1	Shaft (Actuator Style)	316 SS	27665SS
19	1	Adaptor Plate	Steel E-Coated	19480EY
20	2	Cap Screw ¼-20	18-8 SS	9Q5047
21	1	Actuator (Air-open/Spring-close)	Alum.	46495AL
		Actuator (Air-open/Air-close)	Alum.	46504AL

WARNING: Use only genuine Betts Industries replacement parts. Substitute parts can impair the proper functioning of this product and void all warranties.