

TECH TAYLOR T1

Vacuum Breaker™ Valve

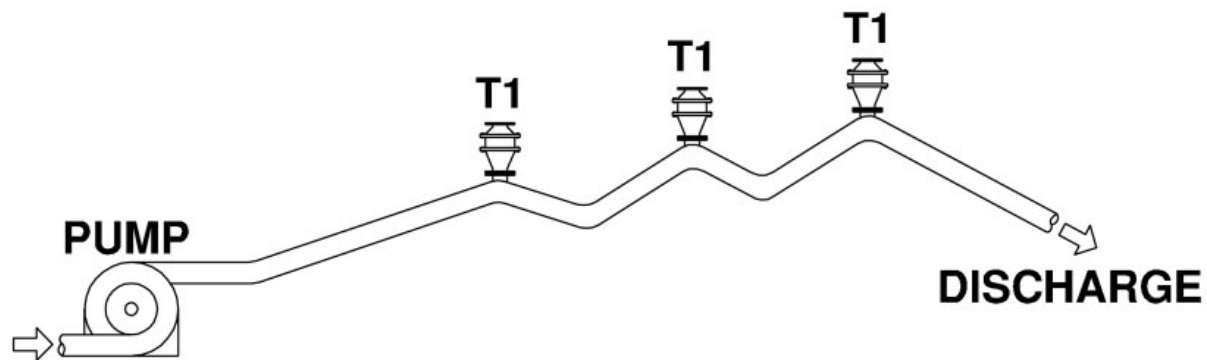


GENERAL INFORMATION

TECH-TAYLOR T1 VACUUM BREAKER™

THE ONLY VACUUM BREAKER DESIGNED FOR SLURRY LINES!

As the sketch below shows, all pipe lines have the potential to create vacuum conditions. The widespread use of ABS piping has put the spot light on this problem since collapsing happens at lower vacuums than metal pipe. While siphon breakers are available for use in clear liquids, abrasive slurries present serious difficulties.

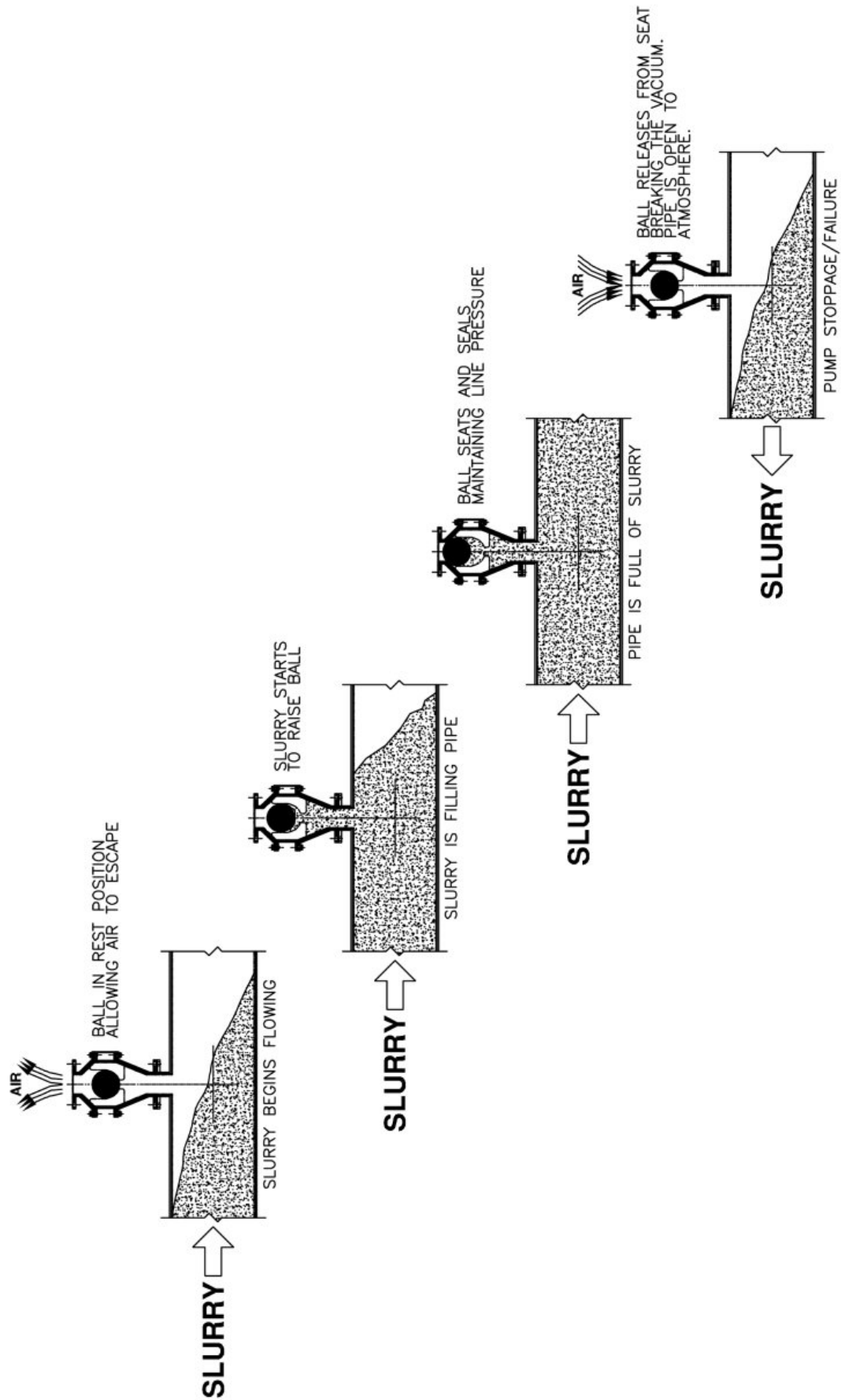


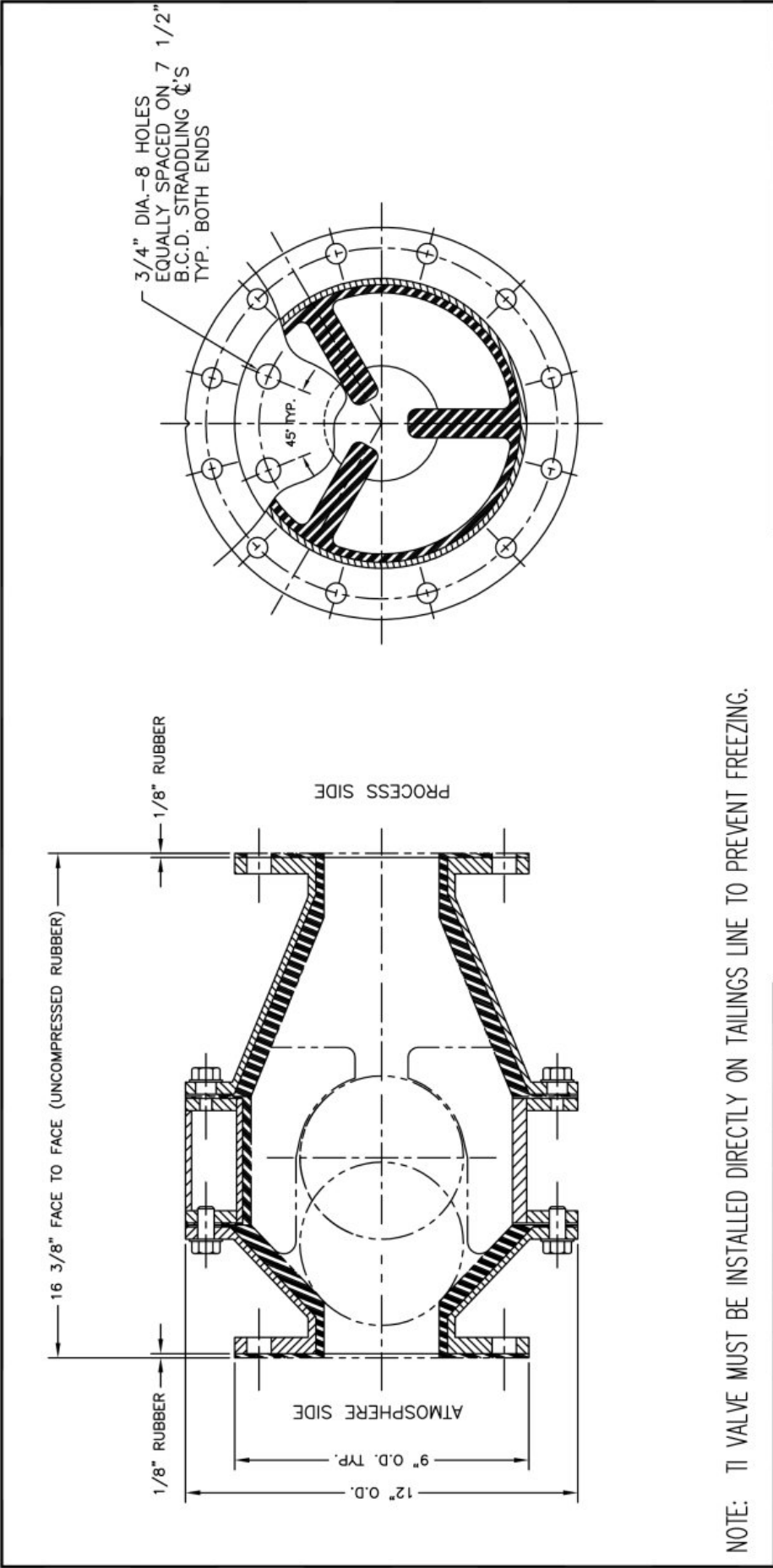
The TECH-TAYLOR T1 is available in only one size, 4 inch (100mm), and is suitable for line pressures up to 200 psig. Like the widely used T2 series, this is a free ball check valve using an elastomer lined housing built in 3 sections for easy maintenance. The ball is elastomer covered and built with an S.G. which will allow it to float in the slurry.

The valve is installed directly off the tailings line. When the pipe line is down (not in operation), the ball sits at the bottom of the housing, restrained by internal guide rails. (refer to sketch on next page) Air can enter around the ball and move into the pipe line; the line is now open to atmosphere. The open area around the ball is roughly double that of the ball area, so air flow is essentially unrestricted.

The advancing slurry column raises the ball to its seating position and sealing the T1 valve. When the pump stops and subsequently the pressure in the system moves from positive to negative, the ball drops off its seating position permitting air to rush into the pipe line, breaking the vacuum.

TECH-TAYLOR T1 VACUUM BREAKER





FFE MINERALS

297 Garyray Drive,
Toronto, Ont., Canada M9L 1P2
Telephone (416) 749-3991
Fax (416) 749-9767
Toll Free: 1-888-839-3991
E-Mail: sales@technequip.com

technequip

TECH-TAYLOR™ VALVE

MODEL #: T1F4R-150-ANSI150

SCALE: NTS	DATE: NOV 26/01	DRWG. No: SST-826	REV. E
H		JAN 30/2003	
G			
F			
E			
D			
C			
B			
E	OLD DWG #T2F4R-A15		
REV	DESCRIPTION	DATE	

INLET CONNECTION: 4"

OUTLET CONNECTION: 4"

MAX. OPERATING PRESSURE: 150 PSI (1000 KPa)

MAX. OPERATING TEMPERATURE: 150°F (65°C)

VALVE LINING: PURE GUM RUBBER

CONNECTION TYPE: FLANGE (150# DRILLING)

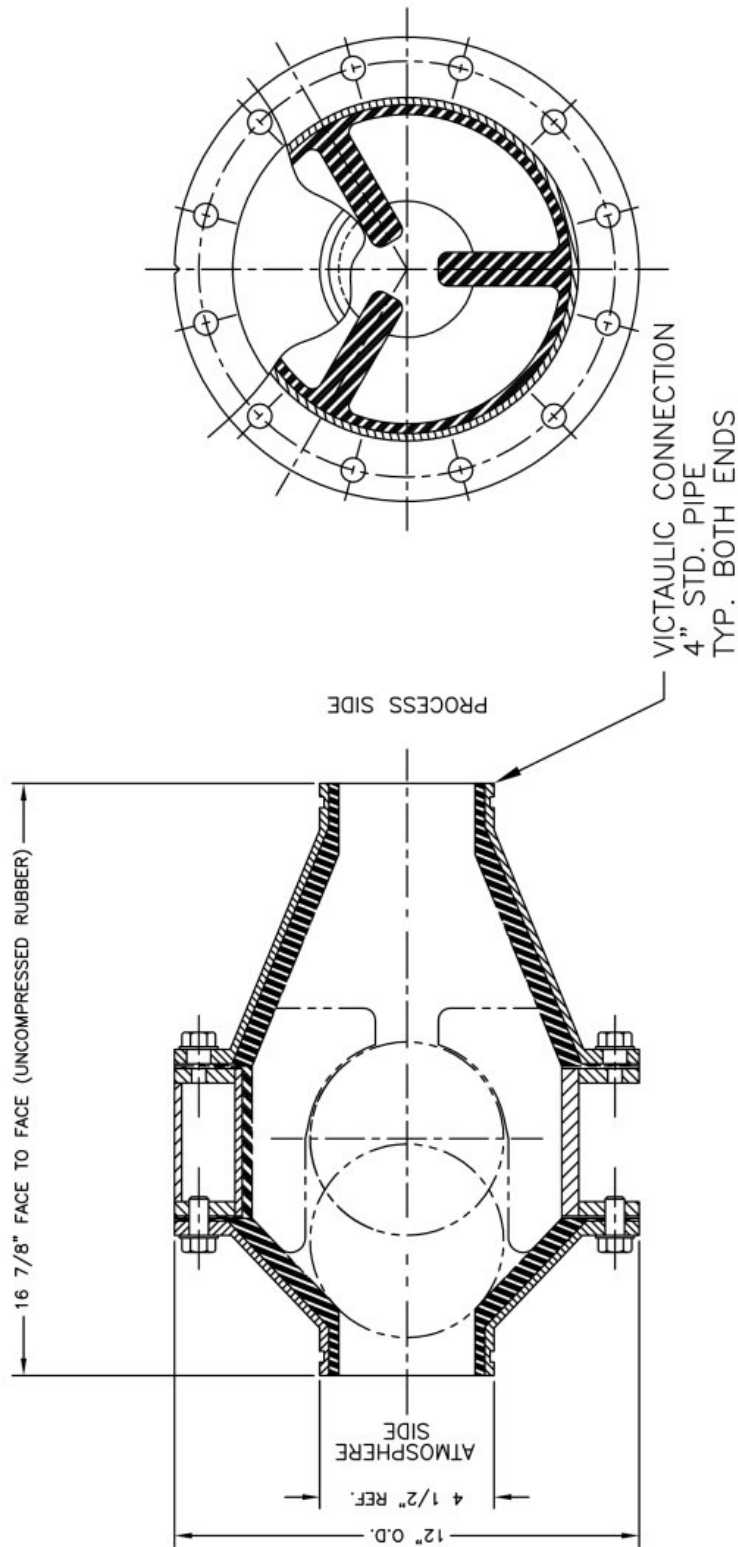
EMPTY WEIGHT: 69 LBS (31 kg)

VOLUME: 0.203 CU.FT.

REPLACEABLE BALL: No.: SFR5

SIZE: 5

MATERIAL: PURE GUM RUBBER



NOTE: TI VALVE MUST BE INSTALLED DIRECTLY ON TAILINGS LINE TO PREVENT FREEZING.

INLET CONNECTION:	4"
OUTLET CONNECTION:	4"
MAX. OPERATING PRESSURE:	150 PSI (1000 KPa)
MAX. OPERATING TEMPERATURE:	150°F (65°C)
VALVE LINING:	PURE GUM RUBBER
CONNECTION TYPE:	4" VICTAULIC
EMPTY WEIGHT:	69 LBS (31 kg)
VOLUME:	0.203 CU.FT.
REPLACEABLE BALL:	SFR5
SIZE:	5
MATERIAL:	PURE GUM RUBBER

H	
G	
F	
E	
D	
C	
B	
F	OLD DWG#: T1V4R-A15
REV	DESCRIPTION
	DATE
	JAN 29/2003



297 Garyray Drive,
Toronto, Ont., Canada M9L 1P2
Telephone (416) 749-3991
Fax (416) 749-9787
Toll Free: 1-888-539-3991
E-Mail: sales@technequip.com



TECH-TAYLOR™ VALVE

MODEL #: T1V4R-150-ANSI150

SCALE:	NTS	DATE	NOV 26/01	DRWG. No:	SST-827	REV.	F
--------	-----	------	-----------	-----------	---------	------	---



297 Garyray Drive
Toronto, CANADA M9L 1P2
Telephone: 416-749-3991
Fax: 416-749-9767
email: sales@technequip.com

