

Represented by

DFT® can help !

DFT has learned from working with people like yourself that special needs exist at pulp and paper mills that exceed the normal check valve design.

DFT specializes in providing In-Line check valves that meet customer requirements as opposed to simply meeting line size. In some cases minor modifications to our valves have solved customer problems.

The *Check Valve Doctor* is willing to listen and work with you for your normal and special needs.

DFT builds In-Line check valves to **your** flow requirements or needs and not ours.

The next time your check valve acts up, give us a call at :

800-206-4013.

The call is FREE and who knows, you may learn there are check valves that work.



DFT® INC

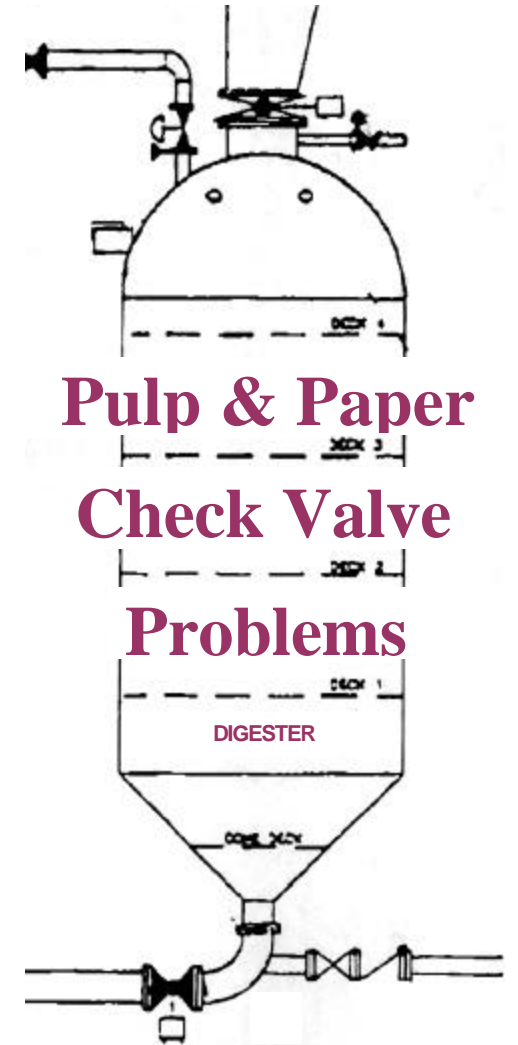
140 Sheree Blvd.
P.O. Box 566
Exton, PA 19341-0566

800-206-4013

610-363-8903

email: dft@dft-valves.com
<http://www.dft-valves.com>
FAX: 610-524-9242

Printed in the USA 05/28/02 - Rev. 6
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Pulp & Paper Check Valve Problems

DFT® INC

BOILER HOUSE

Feed pumps Chemical
Deaerator Condensate
Black liquor guns/recovery

CHEMICAL LINES

All DFT[®] check valves are suitable for your chemical applications. In particular, the SCV and the **DLC**[®] are well suited with their standard 316SS construction.

DIGESTER SERVICE

DFT[®] In-Line check valves have been used for continuous and batch digesters. The special DFT Excalibur[®] and GLC[®] Digester check valves are manufactured with a modified trim package to withstand severe batch steam cook processes.

OTHER

Air dryer systems
Dilution pumps(bleach room)
Instrumentation air
Raw water pumps/waste treatment

STEAM LINES

ALL DFT In-Line check valves, except cast iron bodies, can be used for steam. The versatile SCV is available for steam to 500 WSP.

DFT In-Line Check Valve Features

- Non-slam/Spring assisted
- Prevents **water hammer** & **reverse** flow
- **Horizontal & Vertical installations**
- 1/2" to 24", ANSI 150 to 2500
- WCB, 316 SS & other alloys
- **316 SS trim** (standard)
- Custom sizing
- Metal & soft seating
- Vacuum Breaker applications
- Easy to maintain

DFT CHECK VALVES

SCV: 1/2" to 3", NPT & SW ends; **316SS** body, disc & seat, X-750 spring. Rated for 750 CWP (500 WSP) or 3600 CWP.

DLC[®]: 3/4" to 3", ANSI 150 & 300, RF flanges; **316SS** body, disc & seat, X-750 spring. ANSI B16.10 Face to face (same as swing checks).

EXCALIBUR[®]: 2" to 24", ANSI 150 to 1500, WCB, 316SS & other alloys. ANSI B16.10 Face to face.

GLC[®]: 1" to 24", ANSI 150 to 2500, WCB, 316SS & other alloys. **Short** pattern face to face dimensions.

PDC[®] check valve for reciprocating air or gas compressors: 2" to 10", ANSI 150 to 1500 in WCB & 316SS. ANSI B16.10 Face to face.

WLC[®]: 1" to 10", ANSI 150 to 2500, WCB, 316SS & other alloys. **"Compact"** wafer design.

STEAM LINES CHIP-PACK SYSTEM

DFT Excaliburs with minor improvements are used on the steam lines for chip-pack systems handling the red liquor cooking process. The mediums include ammonium bisulfite and sulfur dioxide.

WHITE WATER/ STEAM SPARGING LINES

DFT WLC's are installed on the steam sparging lines coming off the main header into the white water (gray water) silo of the paper machine area.

The original installation did not have external check valves. The steam lines terminated into the Pic heaters inserted into the silo. Each heater contained a spring loaded check valve on the upstream end. Because the internal check valves were experiencing a short life it was decided to install external check valves.

Two problems were encountered and solved by the WLC:

1. Steam flow varies depending on the season from almost -0- flow in the summer to 80% of full flow capacity in the winter.
2. The downstream valve is flanged directly to the silo resulting in constant exposure to the white effluent.