Features

Designed to prevent "Water Hammer."
The spring-assisted, axial flow, in-line, nozzle style, non-slam design featured in all DFT® check valves insures that as the forward flow in a pipeline decreases, the disc begins moving closer to the seat. By the time the flow stops, the disc is closed against the seat preventing flow reversal. This prevents the valve from slamming closed which can cause "Water Hammer" and the resultant noise and damage to piping systems.

Designed to open at approx. 0.5 psi differential pressure and fully open at 1.0 psi differential pressure.
See product tables for specific cracking pressures.

Can be installed in ANY orientation.
Including vertical with flow up or down. (Special springs may be required)

MSS SP 126-2000 Steel Non-slam Spring-Assisted Center Guided Check Valves Standard
DFT carbon steel, stainless steel and alloy valves meet this standard. (Does not apply to the Basic-Check, Restrictor Check or Vacuum Breaker)

API 6D- Pipeline Valves
API 6D specification holds hydrostatic and pneumatic testing to an elite new standard. Unlike the base API 598 testing, API 6D testing requires increased pressure testing durations, rust inhibitor, medium PH testing and more stringent design and manufacturing process controls. Contact DFT about products that meet API 6D.

API 6FA- Fire Test for Check Valves
ASME Class 150 and 300 GLC meet API 6FA. (Line sizes 2-24")
For Excalibur check valves that meet API 6FA, contact DFT Factory for class and line sizes.

Meet or exceed MSS SP-61 leakage requirements.
Metal-to-metal seating is standard in all DFT non-slam check valves. Cast iron valves meet AWWA seat leakage requirements. DFT's standard test medium is water and meets or exceeds testing requirements.

Additional Quality Tests for Check Valves
FaroArm® Inspection ensures bolt hole alignment and face-to-face parallelism.

Available with soft seats for bubble-tight shutoff.
Soft seat material selected based on operating temperature and chemical compatibility. See page 48 for available options.

Dual-guided stems.
The stem is guided upstream and downstream to guard against vibrations and insure proper disc seating. (Does not apply to the ALC®, Basic-Check®, DLC®, DSV® (1/2"-2"), Restrictor Check, SCV®, SCV-R® or Vacuum Breaker)

Custom sizing available.
The following DFT check valves can be sized to the appropriate flow conditions: ALC®, BNC®, Excalibur®, GLC®, TLW®, WLC®, and Y-Calibur®.

Pulse-damping design.
The DFT Model PDC® is specifically designed for use on the discharge of reciprocating air or gas compressors. The design includes a pulse-damping chamber to protect against premature seat wear due to chattering.

Liquids, gas or steam.
All DFT non-slam check valves provide positive shutoff for applications involving liquids, gas or steam and can be used in most industries including oil and gas, petrochemical, pulp and paper, textiles, food and beverage and commercial construction. Applications include chemical lines, fluid injection, condensate recovery, steam, nitrogen, pump and compressor discharge, chiller and boiler feed systems. See page 7 for additional information.

NACE (AMPP - The Association for Material Protection and Performance)
Optional body and trim materials to meet the (AMPP) NACE standards MR0103/ISO 17945 and MR0175/ISO 15156. See page 47.

Maintenance and Installation guides available for all DFT non-slam check valves.