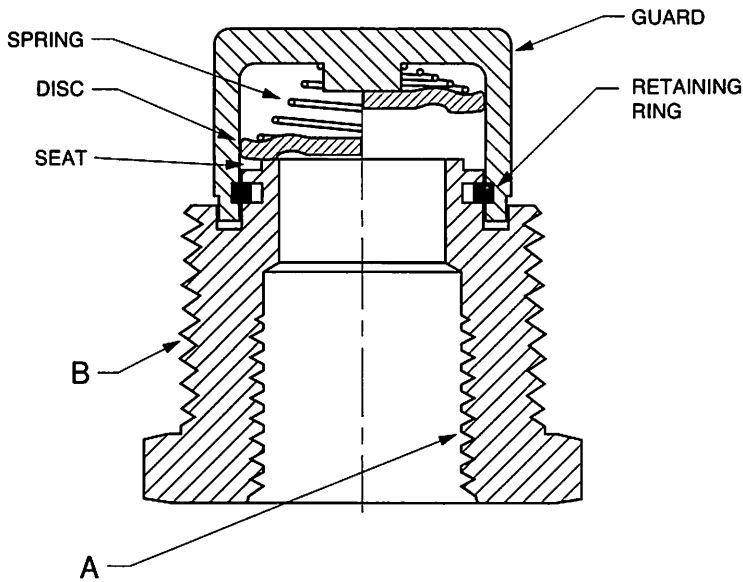


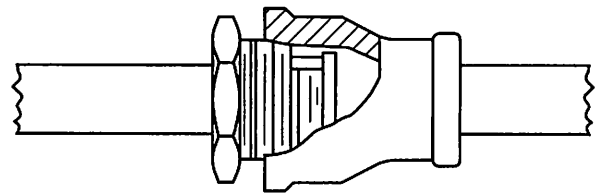
Basic-Check®



Features:

- 1/4" to 2-1/2" Line size
- 450 to 6000 CWP
- Threaded ends
- Stainless Steel Construction
- Spring-assisted silent closing
- Horizontal or vertical installation
- Tight shut-off - lapped disc & seat
- Easy Maintenance
- Versatile
- OPTIONS:
 - Inconel® 750 Spring
 - Soft seat

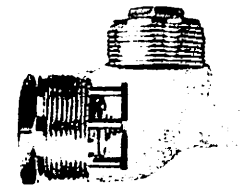
The DFT® Basic-Check valve is a versatile all-purpose, spring-assisted, in-line check valve that provides reliable, low maintenance service for a wide range of liquids and gases at various pressure/temperature combinations. The valve consists of a guard cage, spring, valve disc, retaining ring and seat. It can be combined with pipe fittings such as reducing couplings, drain elbows, etc. to form a complete check valve unit ideally suited for a broad range of pipeline applications or incorporated into machinery for OEM applications. The metal-to-metal sealing area of the Basic-Check valve's disc and seat is precision lapped, providing very tight shut-off of both gas and liquid. If bubble-tight shut-off is required, resilient soft seats are available.



Use with reducing coupling.

MATERIALS OF CONSTRUCTION

Model	Seat	Disc	Guard	Spring	Retaining Ring	
Basic-Checks	BSS	303 SS	316 SS	CF8M ⁽¹⁾	316 SS	316 SS
	BSA	416 SS	316 SS	CF8M	316 SS	316 SS
	BSE	303 SS	316 SS	17-4 SS	Inconel®	316 SS
High Pressure Basic-Checks	BSSH6	316 SS	316 SS	CF8M	316 SS	316 SS
Basic-Checks	BSSH7	316 SS	17-7 SS	CF8M	316 SS	316 SS



Drain elbow is another standard fitting with which DFT Basic-Check Units are used.

(1) 1/4", 3/8" and 1/2" BSS units have a 303 SS guard

Basic-Check®

TECHNICAL INFORMATION

BASIC CHECK		CV	Friction Loss (Feet of Pipe)	VALVE CRACKING PRESSURE*		Approx. Net WT. Each (In lbs.)
Line Size Inlet (FNPT) A	Outside Thread (MNPT) B			(PSI) (±. 10%)	(Inches of Water)	
1/4"	1"	5.8	7	.60 (1)	16.7	.38
3/8"	1"	5.8	7	.60 (1)	16.7	.38
1/2"	1"	5.8	7	.60 (1)	16.7	.38
3/4"	1-1/2"	13.2	6	.45	12.5	.88
1"	2"	23.1	7	.38	10.5	1.25
1-1/4"	2-1/2"	36	12.5	.20	5.5	2.25
1-1/2"	3"	57.4	11	.14	3.9	3.75
2"	4"	90	16	.15	4.3	7.00
2-1/2"	4"	90	16	.15	4.3	7.00

(1) Light spring available: Cracking Pressure = .24 PSI (6.5 inches of water)

*Cracking pressure for vertical flow will be slightly different: upward flow, slightly higher; downward flow, slightly less.

Not recommended for use on discharge of reciprocating compressors.

COLD, NON-SHOCK PRESSURE RATING (2)

Size	1/4" 3/8" 1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Basic-Check <small>BSS BSA BSE</small>	2500	2000	1500	850	700	450	450
High-Pressure <small>BSSH6</small>	6000	5500	3000	1100	900	450	450
Basic-Check <small>BSSH7</small>	6000	6000	6000	4000	2700	800	800

Sat. Steam Pressure (PSIG) Ref. (3)	Tempera- ture (Deg. F.)	Adjusted Rating as Percent of Cold Rating
-3	200	86%
15	250	82%
52	300	78%
232	400	71%
407	450	69%
665	500	66%
1526	600	62%
3075	700	60%

All stainless steel construction is suitable for cryogenic service. For pressure rating at elevated temperatures for standard metal-seated valves, reduce above rating per chart at right.

Maximum valve temperature rating is limited by soft seal (if any) and spring materials in chart below. For ratings of soft seals using some other elastomers, consult factory.

(2) Contingent on service ratings of matching pipe and fittings.

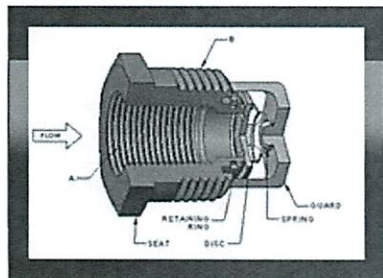
(3) Saturated steam pressure is given for reference only; pressure limit of valve is the adjusted rating at the given temperature.

MAXIMUM OPERATING TEMPERATURES OF MATERIALS						
MATERIALS	SOFT SEAT (4)				SPRING	
	BUNA-N	EPDM	VITON® TFE® - VITON	ZELON®	316 SS	INCONEL® X-750
TEMP. °F	-70 to 250	-75 to 300	-40 to 400	37 to 400	-460 to 450	-460 to 700

(4) Buna-N and Viton are not suitable for steam service.

Basic-Check® Threaded In-Line Check Valves

The DFT® Basic-Check® valve is a versatile all-purpose, spring-assisted, in-line check valve that provides reliable, low maintenance service for a wide range of liquids and gases at various pressure/temperature combinations. The valve consists of a guard cage, spring, valve disc, retaining ring and seat. It can be combined with pipe fittings such as reducing couplings, drain elbows, etc. to form a complete check valve unit ideally suited for a broad range of pipeline applications or [+ more](#)



Prod. #	Size	Line Size Inlet (FNPT) A	Style	Outside Thread (MNPT) B	Cv	Valve Cracking Pressure	Cold Working Pressure
<u>8001</u>	DN 8 0.25 in	0.25 in	BSS	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8028</u>	DN 8 0.25 in	0.25 in	BSE	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8057</u>	DN 8 0.25 in	0.25 in	BSSH6	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8020</u>	DN 8 0.25 in	0.25 in	BSSH7	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8012</u>	DN 8 0.25 in	0.25 in	BS316S	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8029</u>	DN 10 0.38 in	0.38 in	BSE	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8002</u>	DN 10 0.38 in	0.38 in	BSS	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8058</u>	DN 10 0.38 in	0.38 in	BSSH6	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8021</u>	DN 10 0.38 in	0.38 in	BSSH7	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg

<u>Prod. #</u>	<u>Size</u>	<u>Line Size Inlet (FNPT) A</u>	<u>Style</u>	<u>Outside Thread (MNPT) B</u>	<u>Cv</u>	<u>Valve Cracking Pressure</u>	<u>Cold Working Pressure</u>
<u>8013</u>	DN 10 0.38 in	0.38 in	BS316S	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8030</u>	DN 15 0.5 in	0.50 in	BSE	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8003</u>	DN 15 0.5 in	0.50 in	BSS	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8066</u>	DN 15 0.5 in	0.50 in	BSS	1.00 in	5.8	0.24 psi 0.017 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8059</u>	DN 15 0.5 in	0.50 in	BSSH6	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8022</u>	DN 15 0.5 in	0.50 in	BSSH7	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8014</u>	DN 15 0.5 in	0.50 in	BS316S	1.00 in	5.8	0.60 psi 0.041 bar 16.7 in.water 424 mm.water 31.1 mmHg	0 psig 2500 psig 0 barg 172 barg
<u>8031</u>	DN 20 0.75 in	0.75 in	BSE	1.50 in	13.2	0.44 psi 0.030 bar 12.1 in.water 307 mm.water 22.6 mmHg	0 psig 2000 psig 0 barg 138 barg
<u>8004</u>	DN 20 0.75 in	0.75 in	BSS	1.50 in	13.2	0.44 psi 0.030 bar 12.1 in.water 307 mm.water 22.6 mmHg	0 psig 2000 psig 0 barg 138 barg
<u>8060</u>	DN 20 0.75 in	0.75 in	BSSH6	1.50 in	13.2	0.44 psi 0.030 bar 12.1 in.water 307 mm.water 22.6 mmHg	0 psig 5500 psig 0 barg 379 barg
<u>8023</u>	DN 20 0.75 in	0.75 in	BSSH7	1.50 in	13.2	0.44 psi 0.030 bar 12.1 in.water 307 mm.water 22.6 mmHg	0 psig 6000 psig 0 barg 414 barg
<u>8015</u>	DN 20 0.75 in	0.75 in	BS316S	1.50 in	13.2	0.44 psi 0.030 bar 12.1 in.water 307 mm.water 22.6 mmHg	0 psig 2000 psig 0 barg 138 barg
<u>8032</u>	DN 25 1 in	1.00 in	BSE	2.00 in	23.1	0.36 psi 0.025 bar 10.1 in.water 257 mm.water 18.8 mmHg	0 psig 1500 psig 0 barg 103 barg
<u>8005</u>	DN 25 1 in	1.00 in	BSS	2.00 in	23.1	0.36 psi 0.025 bar 10.1 in.water 257 mm.water 18.8 mmHg	0 psig 1500 psig 0 barg 103 barg
<u>8061</u>	DN 25 1 in	1.00 in	BSSH6	2.00 in	23.1	0.36 psi 0.025 bar 10.1 in.water 257 mm.water 18.8 mmHg	0 psig 3000 psig 0 barg 207 barg

<u>Prod. #</u>	<u>Size</u>	<u>Line Size Inlet (FNPT) A</u>	<u>Style</u>	<u>Outside Thread (MNPT) B</u>	<u>Cv</u>	<u>Valve Cracking Pressure</u>	<u>Cold Working Pressure</u>
<u>8024</u>	DN 25 1 in	1.00 in	BSSH7	2.00 in	23.1	0.36 psi 0.025 bar 10.1 in.water 257 mm.water 18.8 mmHg	0 psig 6000 psig 0 barg 414 barg