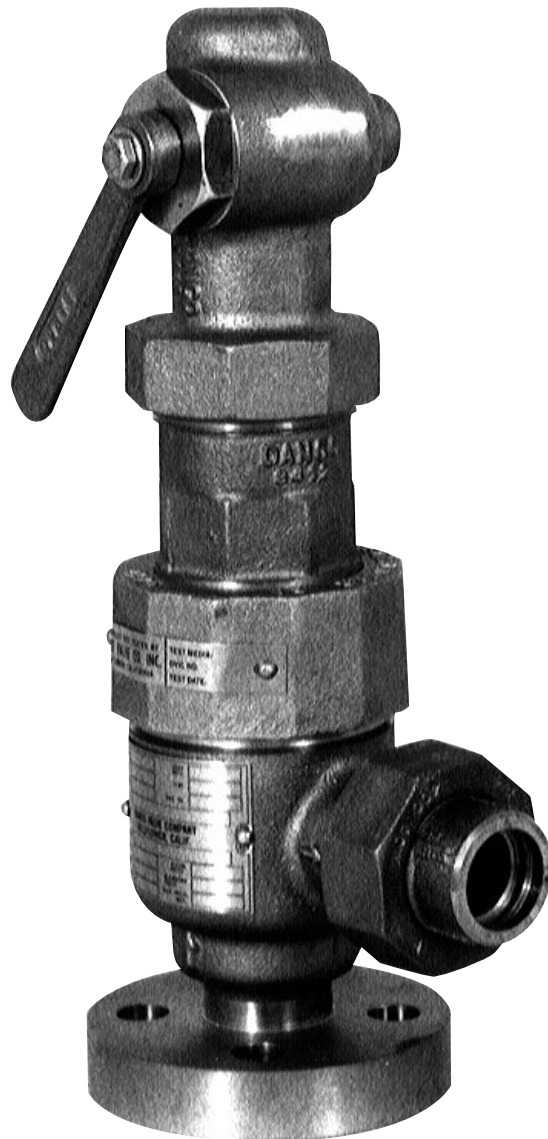


Bronze Relief Valves

Flanged by Union End Connections

For Liquid, Air/Gas and Steam Service



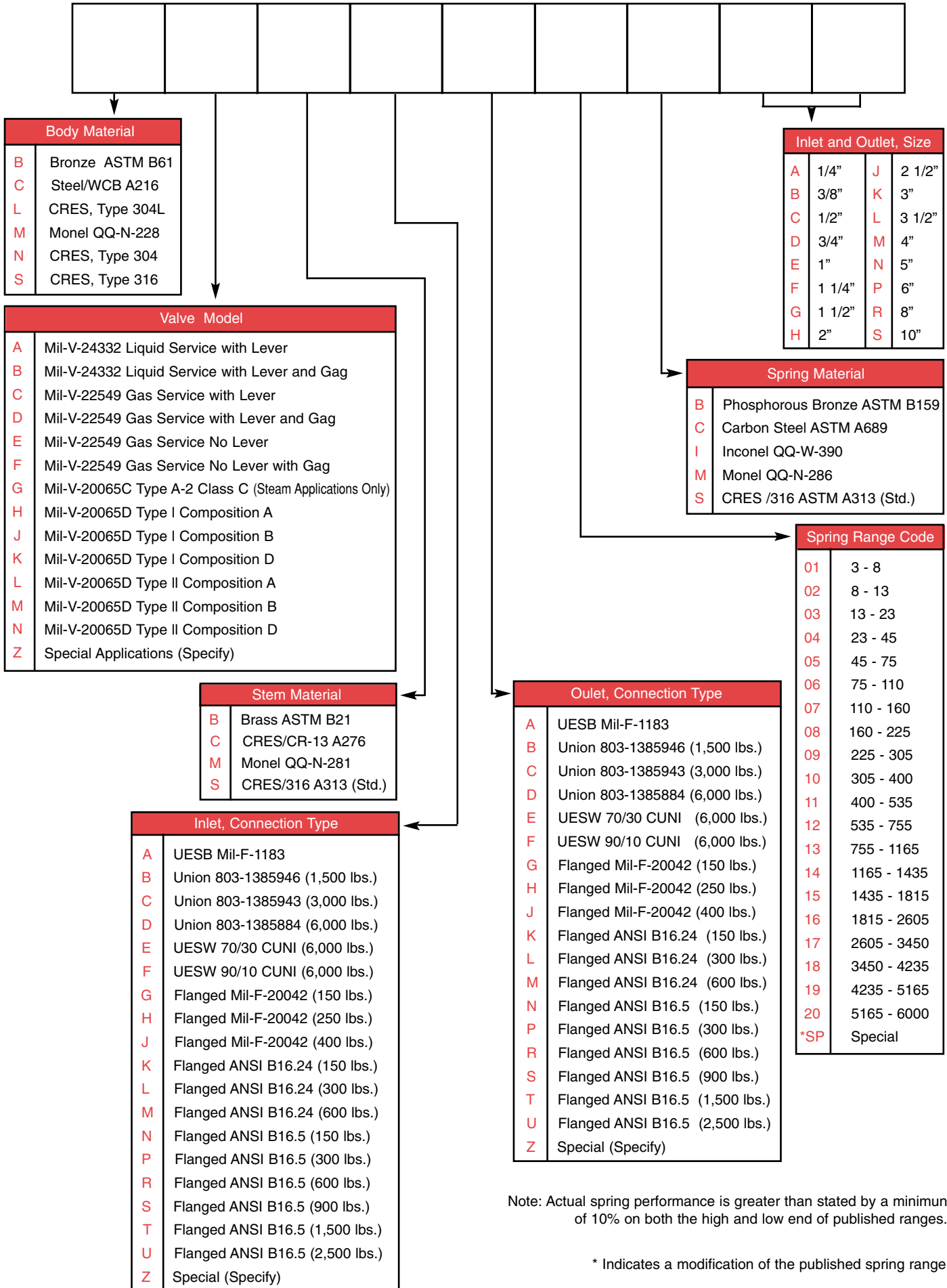
Danco Valve Company
15230 Lakewood Blvd.
Bellflower, CA 90706

www.dancovalve.com

Phone (562)925-2588

Fax (562)925-7007

Ordering Data Chart



Body Material	
B	Bronze ASTM B61
C	Steel/WCB A216
L	CRES, Type 304L
M	Monel QQ-N-228
N	CRES, Type 304
S	CRES, Type 316

Inlet and Outlet, Size			
A	1/4"	J	2 1/2"
B	3/8"	K	3"
C	1/2"	L	3 1/2"
D	3/4"	M	4"
E	1"	N	5"
F	1 1/4"	P	6"
G	1 1/2"	R	8"
H	2"	S	10"

Valve Model	
A	Mil-V-24332 Liquid Service with Lever
B	Mil-V-24332 Liquid Service with Lever and Gag
C	Mil-V-22549 Gas Service with Lever
D	Mil-V-22549 Gas Service with Lever and Gag
E	Mil-V-22549 Gas Service No Lever
F	Mil-V-22549 Gas Service No Lever with Gag
G	Mil-V-20065C Type A-2 Class C (Steam Applications Only)
H	Mil-V-20065D Type I Composition A
J	Mil-V-20065D Type I Composition B
K	Mil-V-20065D Type I Composition D
L	Mil-V-20065D Type II Composition A
M	Mil-V-20065D Type II Composition B
N	Mil-V-20065D Type II Composition D
Z	Special Applications (Specify)

Spring Material	
B	Phosphorous Bronze ASTM B159
C	Carbon Steel ASTM A689
I	Inconel QQ-W-390
M	Monel QQ-N-286
S	CRES /316 ASTM A313 (Std.)

Spring Range Code	
01	3 - 8
02	8 - 13
03	13 - 23
04	23 - 45
05	45 - 75
06	75 - 110
07	110 - 160
08	160 - 225
09	225 - 305
10	305 - 400
11	400 - 535
12	535 - 755
13	755 - 1165
14	1165 - 1435
15	1435 - 1815
16	1815 - 2605
17	2605 - 3450
18	3450 - 4235
19	4235 - 5165
20	5165 - 6000
*SP	Special

Stem Material	
B	Brass ASTM B21
C	CRES/CR-13 A276
M	Monel QQ-N-281
S	CRES/316 A313 (Std.)

Inlet, Connection Type	
A	UESB Mil-F-1183
B	Union 803-1385946 (1,500 lbs.)
C	Union 803-1385943 (3,000 lbs.)
D	Union 803-1385884 (6,000 lbs.)
E	UESW 70/30 CUNI (6,000 lbs.)
F	UESW 90/10 CUNI (6,000 lbs.)
G	Flanged Mil-F-20042 (150 lbs.)
H	Flanged Mil-F-20042 (250 lbs.)
J	Flanged Mil-F-20042 (400 lbs.)
K	Flanged ANSI B16.24 (150 lbs.)
L	Flanged ANSI B16.24 (300 lbs.)
M	Flanged ANSI B16.24 (600 lbs.)
N	Flanged ANSI B16.5 (150 lbs.)
P	Flanged ANSI B16.5 (300 lbs.)
R	Flanged ANSI B16.5 (600 lbs.)
S	Flanged ANSI B16.5 (900 lbs.)
T	Flanged ANSI B16.5 (1,500 lbs.)
U	Flanged ANSI B16.5 (2,500 lbs.)
Z	Special (Specify)

Outlet, Connection Type	
A	UESB Mil-F-1183
B	Union 803-1385946 (1,500 lbs.)
C	Union 803-1385943 (3,000 lbs.)
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Z	Special (Specify)

Note: Actual spring performance is greater than stated by a minimum of 10% on both the high and low end of published ranges.

* Indicates a modification of the published spring range.



Description

Shipboard pressure relief valve in full conformance with the applicable ASTM and military specifications. Sizes 1/4" through 2". Flanged by union end sil-braze connections, bronze construction with semi-nozzle design.

Applications

ASTM F1508

Liquid, Mil-V-24332 latest revision

Air/Gas, Mil-V-22549 latest revision

Steam, Mil-V-20065 (Revision C, Type A-2, Class C)

Product Features

Danco Valve Company produces the industry's premier ASTM and mil-spec relief valves. The valves are quick acting, non-chattering and smooth guiding. They also feature optimal sealing tightness with a unique soft-seat design.

All valves carry an unconditional two-year warranty from the date of installation, except in cases of user negligence or misuse. This comprehensive warranty ensures complete manufacturer support.

Danco Valve Company wire seals all valves to prevent unauthorized tampering. Removing the lead seal voids our warranty.

Standard Materials

Body, Bonnet, Lever Housing: Bronze, ASTM B61

Seat: Monel, QQ-N-288

Disc Assembly:

Disc: Monel, QQ-N-288

Disc Insert: Teflon

Disc Insert Retainer: Monel, QQ-N-281

Stem Assembly: CRES/316 A313

Spring: CRES/316 ASTM A313

Optional Materials

Danco Valve Company will customize valve materials to your specific application.

Weights and Dimensions

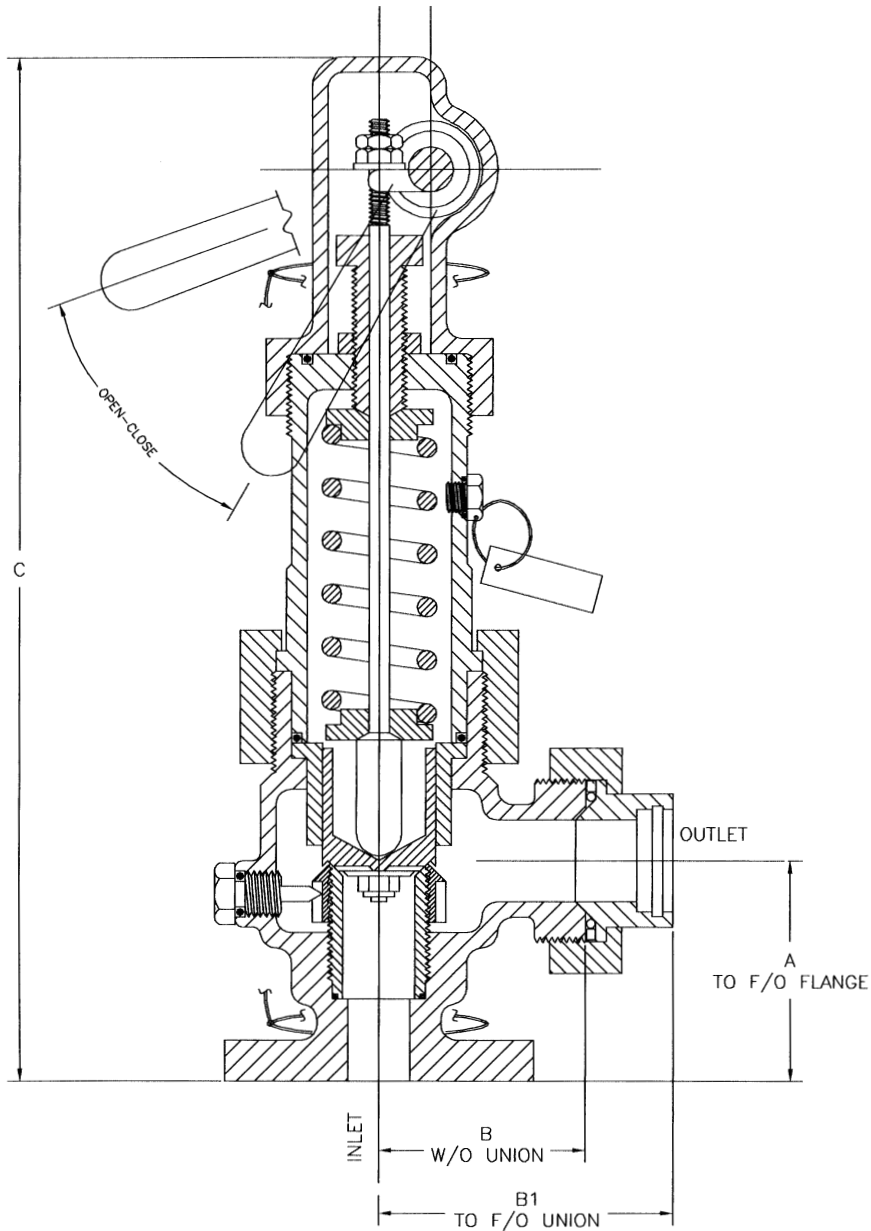
Size	Approx Weight	A	B	B1	C
1/4"	14 LBS.	3.0	2.6	3.4	13.0
3/8"	14 LBS.	3.0	2.6	3.4	13.0
1/2"	14 LBS.	3.0	2.6	3.4	13.0
3/4"	14 LBS.	3.0	2.6	3.4	13.0
1"	28 LBS.	3.5	3.1	4.2	15.0
1 1/4"	28 LBS.	3.8	3.2	4.8	16.0
1 1/2"	45 LBS.	4.7	4.0	5.4	17.0
2"	55 LBS.	4.7	4.5	6.2	18.0

The flange dimensions noted above are for Mil-F-20042 150#, Mil-F-20042 250# and ANSI Class 150 flanges. Union end sil-braze dimensions are in conformance with Mil-F-1183, Class 400 applications. All dimensions are in conformance with ASTM F1508. However, Danco Valve Company will modify its center-to-face dimensions to meet specific requirements.

Configured for

ASTM F1508, Mil-V-22549 and Mil-V-20065

Applications



Configured for

Mil-V-24332

Applications

