

DANCO BRONZE SEMI-NOZZLE PRESSURE RELIEF VALVE WITH UNION END CONNECTIONS (SIZES 1/4" – 2")

Model Description:

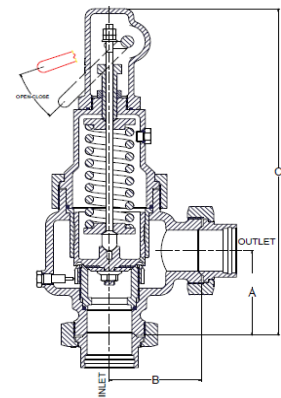
Shipboard pressure relief valves in full conformance with the applicable ASTM and military specifications. Sizes 1/4" through 2". Union end connections, bronze construction with semi-nozzle design and threaded bonnet.

Applications:

- ASTM F1508
- Mil-V-24332 Liquid
- Mil-V-22549 Air/Gas
- Mil-V-20065 Steam (Revision C, Type A-2, Class C)

Features:

- Danco Valves are the industry's premier 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.
- We warranty materials and workmanship against defects for two years after the date of installation. This comprehensive warranty ensures complete manufacturer support.*
- All valves are wire sealed to prevent unauthorized tampering.
- For capacity information specific to your application, please contact us.



West Coast:

15230 Lakewood Blvd.
Bellflower, CA 90706-4240
Phone: 562-866-6680
Fax: 562-925-7007

East Coast:

1324 Ballentine Blvd.
Norfolk, VA 23504-3808
Phone: 757-605-6100
Fax: 757-605-6101

For more information:

 DanteValve.com
 888-212-3222

Standard Materials:

- Body, Bonnet & Lever Housing: Bronze/ASTM B61
- Seat: Monel/ QQ-N-288/ASTM A494
- Stem Assembly: CRES/316 A276
- Spring: CRES/316 ASTM A313
- Disc Assembly:
 - Disc: Monel, QQ-N-288/ASTM A494
 - Disc Insert: Teflon®/AMS 3660
 - Disc Insert Retainer: QQ-N-281

Optional Materials:

Valve materials can be customized for your specific application or in accordance with specification requirements.

End Connections, Weights & Dimensions:

		Mil-F-1183 400 PSI			NAVSEA 803- 1385946 1500 PSI			NAVSEA 803- 1385943 3000 PSI			NAVSEA 803- 1385884 6000 PSI		
Size	Approx. Weight	A	B	C	A	B	C	A	B	C	A	B	C
1/4"	13 lbs.	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2
3/8"	13 lbs.	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2
1/2"	13 lbs.	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2
3/4"	13 lbs.	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2	2.6	2.6	11.2
1"	26 lbs.	3.1	3.1	15.6	3.1	3.1	15.6	3.1	3.1	15.6	3.1	3.1	15.6
1 1/4"	28 lbs.	3.2	3.2	15.8	3.2	3.2	15.8	3.2	3.2	15.8	3.2	3.2	15.8
1 1/2"	35 lbs.	3.9	3.9	15.7	3.9	3.9	15.7	3.9	3.9	15.7	3.9	3.9	15.7
1 1/2" x 2"	44 lbs.	3.9	4.0	15.7	3.9	4.0	15.7	3.9	4.0	15.7	3.9	4.0	15.7
2"	54 lbs.	4.5	4.5	17.4	4.5	4.5	17.4	4.5	4.5	17.4	4.5	4.5	17.4

*Center-to-face dimensions can be customized to meet your specific requirements.
Dimensions do not include length of the union nut or tailpiece.*

*Please visit www.DanteValve.com/support for additional information.

**DANTE
VALVE**



Distributors of:

For more information:

DanteValve.com

888-212-3222

DANCO VALVE IDENTIFICATION SYSTEM SEMI-NOZZLE CONSTRUCTION (FORMERLY D50 AND D60 SERIES)

BODY MATERIAL			
B	BRONZE	ASTM B61	
C	STEEL/WCB	ASTM A216	
K	CUNI 70/30	MIL-C-20159	
L	CRES/304L	ASTM A276	
M	MONEL	QQ-N-288	
N	CRES/CF8	ASTM A351	
S	CRES/CF8M	ASTM A351	

VALVE MODEL			
A	MIL-V-24332	LIQUID SERVICE WITH LEVER	
B	MIL-V-24332	LIQUID SERVICE WITH LEVER & GAG	
C	MIL-V-22549	AIR/GAS SERVICE WITH LEVER	
D	MIL-V-22549	AIR/GAS SERVICE WITH LEVER & GAG	
E	MIL-V-22549	AIR/GAS SERVICE NO LEVER	
F	MIL-V-22549	AIR/GAS SERVICE NO LEVER WITH GAG	
G	MIL-V-20065C	TY. A-2 CL. C (STEAM APPLICATIONS ONLY)	
H	MIL-V-20065D	TYPE I COMPOSITION A STEAM SERVICE	
J	MIL-V-20065D	TYPE I COMPOSITION B STEAM SERVICE	
K	MIL-V-20065D	TYPE I COMPOSITION D STEAM SERVICE	
L	MIL-V-20065D	TYPE II COMPOSITION A STEAM SERVICE	
M	MIL-V-20065D	TYPE II COMPOSITION B STEAM SERVICE	
N	MIL-V-20065D	TYPE II COMPOSITION D STEAM SERVICE	
P	MIL-V-20065C	TYPE A-2 CLASS B (HYDRAULIC OIL ONLY)	
R	ASTM F1508	TYPE I GRADE A STEAM SERVICE	
T	ASTM F1508	TYPE I GRADE B STEAM SERVICE	
U	ASTM F1508	TYPE II GRADE C AIR/GAS SERVICE	
V	ASTM F1508	TYPE II GRADE D AIR/GAS SERVICE	
W	ASTM F1508	TYPE III GRADE E LIQUID SERVICE	
X	ASTM F1508	TYPE III GRADE F LIQUID SERVICE	
Z	SPECIAL APPLICATIONS (SPECIFY)		

STEM MATERIAL			
B	NAVAL BRASS	B21	
C	CRES/CR-13	ASTM A276	
E	CRES/303	ASTM A582	
M	MONEL	QQ-N-281	
S	CRES/316	ASTM A276 (STD.)	

INLET CONNECTION TYPE			
A	UESB MIL-F-1183	(400 PSIG)	
B	UESB 803-1385946	(1500 PSIG)	
C	UESB 803-1385943	(3000 PSIG)	
D	UESW 803-1385884	(6000 PSIG)	
G	FLANGED MIL-PRF-20042	(150 PSIG)	
H	FLANGED MIL-PRF-20042	(250 PSIG)	
J	FLANGED MIL-PRF-20042	(400 PSIG)	
K	FLANGED ASME B16.24	(150 PSIG)	
L	FLANGED ASME B16.24	(300 PSIG)	
M	FLANGED ASME B16.24	(600 PSIG)	
N	FLANGED ASME B16.5	(150 PSIG)	
P	FLANGED ASME B16.5	(300 PSIG)	
R	FLANGED ASME B16.5	(600 PSIG)	
S	FLANGED ASME B16.5	(900 PSIG)	
T	FLANGED ASME B16.5	(1500 PSIG)	
U	UESW MIL-F-1183	(400 PSIG)	
V	UESW MIL-F-1183 CUNI 90/10	(400 PSIG)	
W	UESW MIL-F-1183 CUNI 70/30	(400 PSIG)	
X	UESW MIL-F-1183 316L	(400 PSIG)	
Y	UESW MIL-F-1183 304	(400 PSIG)	
Z	SPECIAL (SPECIFY)		

MAT'L SPRING MATERIAL			
A	STAINLESS STEEL/302-304	ASTM A313	500°F
B	PHOSPHORUS BRONZE/GR A	ASTM B159	200°F
C	ALLOY STEEL 5160H (See Note 2)	ASTM A689/A29	425°F
D	STAINLESS STEEL/17-4PH	ASTM A313	550°F
E	STAINLESS STEEL/17-7PH	ASTM A313	500°F
F	CARBON STEEL CL. I (Comm'l Quality)	ASTM A229	250°F
G	CARBON STEEL (Valve Quality)	ASTM A230	250°F
H	MUSIC WIRE	ASTM A228	250°F
I	INCONEL/600	QQ-VV-390/ASTM B166	700°F
J	CHROME VANADIUM (Comm'l Quality)	ASTM A231	425°F
K	MONEL/K500 (See Note 1)	QQ-N-286	500°F
L	CHROME VANADIUM (Valve Quality)	ASTM A232	425°F
M	MONEL/400	QQ-N-281/B164	450°F
N	CHROME SILICON (Comm'l Quality)	ASTM A401	475°F
P	CHROME SILICON (Valve Quality)	ASTM A877	475°F
S	STAINLESS STEEL/316	ASTM A313	550°F
T	TUNGSTEN/H-12	ASTM A681 (Chem. Only)	700°F
X	INCONEL/X750	MIL-S-23192	1100°F

MATERIAL SPECIFICATION			
MAX TEMP			

INLET AND OUTLET SIZE			
A	1/4"		
B	3/8"		
C	1/2"		
D	3/4"		
E	1"		
F	1 1/4"		
G	1 1/2"		
H	2"		
J	2 1/2"		
K	3"		
L	3 1/2"		
M	4"		
N	5"		
P	6"		
R	8"		
S	10"		

OUTLET CONNECTION TYPE			
A	UESB MIL-F-1183	(400 PSIG)	
B	UESB 803-1385946	(1500 PSIG)	
C	UESB 803-1385943	(3000 PSIG)	
D	UESW 803-1385884	(6000 PSIG)	
G	FLANGED MIL-PRF-20042	(150 PSIG)	
H	FLANGED MIL-PRF-20042	(250 PSIG)	
J	FLANGED MIL-PRF-20042	(400 PSIG)	
K	FLANGED ASME B16.24	(150 PSIG)	
L	FLANGED ASME B16.24	(300 PSIG)	
M	FLANGED ASME B16.24	(600 PSIG)	
N	FLANGED ASME B16.5	(150 PSIG)	
P	FLANGED ASME B16.5	(300 PSIG)	
R	FLANGED ASME B16.5	(600 PSIG)	
S	FLANGED ASME B16.5	(900 PSIG)	
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V	UESW MIL-F-1183 CUNI 90/10	(400 PSIG)	
W	UESW MIL-F-1183 CUNI 70/30	(400 PSIG)	
X	UESW MIL-F-1183 316L	(400 PSIG)	
Y	UESW MIL-F-1183 304	(400 PSIG)	
Z	SPECIAL (SPECIFY)		

SPRING RANGE CODE			
01	3-8	PSI	
02	8-13	PSI	
03	13-23	PSI	
04	23-45	PSI	
05	45-75	PSI	
06	75-110	PSI	
07	110-160	PSI	
08	160-225	PSI	
09	225-305	PSI	
10	305-400	PSI	
11	400-535	PSI	
12	535-755	PSI	
13	755-1165	PSI	
14	1165-1435	PSI	
15	1435-1815	PSI	
16	1815-2605	PSI	
17	2605-3450	PSI	
18	3450-4235	PSI	
19	4235-5165	PSI	
20	5165-6000	PSI	
SP	SPECIAL (SPECIFY)		

NOTES:
1. MATERIAL MUST BE FROM SPECIAL METALS CORP. 3200 RIVERSIDE DRIVE, HUNTINGTON WV 25705 (800) 334-4626.
2. REQUIRED FINAL HRC 44-48.

NOTES:
ACTUAL SPRING PERFORMANCE IS GREATER THAN STATED BY A MINIMUM OF 10% ON BOTH HIGH AND LOW END OF PUBLISHED RANGES
*INDICATES A MODIFICATION OF THE PUBLISHED SPRING RANGE.

NOTES:
1. NOT ALL OPTIONS ARE AVAILABLE ON THIS DESIGN.
2. ALL MIL-V-20065D VALVES MUST USE "C" AS STEM MATERIAL.
3. ALL MIL-V-20065C TYPE A-2 CLASS C VALVES MUST USE "B" OR "M" AS STEM MATERIAL. MATERIAL MATERIAL.

DANTE VALVE CO.
15230 LAKEWOOD BLVD.
BELLFLOWER, CA 90706
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WARNING: This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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