



BS&B SAFETY SYSTEMS, L.L.C.

FLOW COEFFICIENTS

CATALOG 77-1006A

SECTION B

RUPTURE DISKS AND NON-RECLOSING PRESSURE RELIEF DEVICES IN COMBINATION WITH PRESSURE RELIEF VALVES

The combinations below have been tested for capacity in accordance with part UG-132, Section 8, Division 1 of the ASME Pressure Vessel Co, and the following "Combination Factors" have been approved by the National Board of Boiler and Pressure Vessel Inspectors. These approvals are listed in Section IV, Pages 194-197.

Note: The combination capacity factor is to be used as a multiplier to the rated capacity. These factors may be use for all valves per size set at the minimum set pressure or higher. For valves with a lower set pressure than those shown, use a .9 combination capacity factor.

VALVE MANUFACTURER: ANDERSON, GREENWOOD AND COMPANY
VALVE TYPE: 173/273/373/473/673/973

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL) TEFLON
2-4	73	.960	73	.960
6-UP	38	.960	73	.960

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL) TEFLON	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL) TEFLON
1-4	150	.960	....	....
6-UP	150	.960	41.5	.960

VALVE MANUFACTURER: IMI BAILEY BIRKETT, LTD.
VALVE TYPE: WB400

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	148	.994

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-UP	98.5	.993

VALVE MANUFACTURER: KUNKLE
VALVE TYPE: 5000-5999

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-2	125	.994
3-UP	60	.998

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-2	50	.998
3-UP	35	.990

VALVE TYPE: 910-929 AND 75

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	125	.945

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-UP	50	.981

VALVE MANUFACTURER: TELEDYNE FARRIS ENGINEERING
VALVE TYPE: 2600 SERIES AND 4500 SERIES

DISK TYPE: CSR

HEADS: CSR-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1 1/2	47	.974

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL/TEFLON)
1	125	.993	125	.993
1 1/2	90	.951	90	.951
2	75	.979	75	.979
3	40-53	.955	40-53	.955
3	54	1.000	54	1.000
4-UP	35	.980	35	.980

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 INCONEL/TEFLON OR ALLOY 600 (INCONEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)/TEFLON
1	150	.963	150	.963
1 1/2	110	.951	110	.951
2	90	.988	90	.988
3-UP	68	.992	90	.988

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	HASTELLOY B	MINIMUM PSIG BURST PRESSURE	316 SS	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1-UP	50	1.00	....	....	....	....
1 1/2-UP	....	....	25	.993*	23	.993
4-UP	....	....	14	.975	....	....

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY C-276 (HASTELLOY C-276)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)
1-2	-	-	-	-	40	.996
3	52	.959	40	.967	-	-
4-UP	14	.956	35	.980	-	-

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-2	124.7	.987
3-UP	53.1	.970

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY C-276 (HASTELLOY C-276)
1	175	.994
1 1/2-UP	141	.967
3-UP	74.5	.939

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)
1-2	144	.992
3-UP	43	.984

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SST
1	183	.978

DISK TYPE: RB-90

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1	75	.977
1 1/2	54	.967
2-UP	45	.964

DISK TYPE: RB-90

HEADS: RB-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)
3	37	.994

DISK TYPE: GFN

HEADS: NF-7R or NF-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
2-UP	90	.982

DISK TYPE: XN

HEADS: NX

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
2-UP	83	.991

VALVE MANUFACTURER: DRESSER I.V. AND I.D.

VALVE TYPE: 1900, 1900/P, 1900-30, 1900-30P, 1900-35

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)/TEFLON	MINIMUM PSIG BURST PRESSURE	ALUMINUM/TEFLON
1-1/2	73	.967	73	.989	75	.910
2	75	.969	73	.989	45	.960
3-UP	55	.995	73	.989	36	.980

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)/TEFLON
1 1/2	.....	.....	.....	.....
2	85	.988	85	.994
3-UP	85	.988	65	.988

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS	MINIMUM PSIG BURST PRESSURE	316 SS/TEFLON
2-UP	85	.969	85	.968

DISK TYPE: SVI

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)/TEFLON
1 1/2-3	76	.964	76	.983
4-UP	40	.971	40	.950

DISK TYPE: SVI

DISK TYPE: GFN

HEADS: NF-7R or NF-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)	SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
3-UP	85	.986	2-UP	89	.987

DISK TYPE: RB-90

HEADS: RB-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)/TEFLON
1-1/2	75	.972	74	.976
2	45	.954	74	.976
3-UP	36	.958	74	.976

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY C-276 (HASTELLOY C-276)	MINIMUM PSIG BURST PRESSURE	316 SS	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1-UP	24	.990	22.5	.988	21	.996

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY C-276 (HASTELLOY C-276)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1-1/2	167	.974	146	.977
2	112	.974	82.5	.971
3-UP	112	.974	62	.930

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)	MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)
1 1/2	81.9	.965	95	.956
2-UP	81.9	.965	83	.971

VALVE MANUFACTURER: J.E. LONERGAN COMPANY

VALVE TYPE: D SERIES

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-2	125	.977
3-UP	60	.994

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-2	50	.989
3-UP	35	.978

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
2-UP	18.5	.975

VALVE MANUFACTURER: CROSBY VALVE & GAUGE

VALVE TYPE: JOS/JBS

DISK TYPE: RLS

HEADS: SRB-7RS

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY C-276 HASTELLOY C-276
1	172	.972

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1	138	.981

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
2	84.5	.981

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-1 $\frac{1}{2}$	125	.995
2-UP	75	.994

DISK TYPE: JRS

HEADS: SRB-7RS

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-UP	60	.993

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1 $\frac{1}{2}$ -UP	23	.981

VALVE TYPE: JO

DISK TYPE: S-90

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1	126	.959
1 $\frac{1}{2}$	100	.972
2-up	75	.995

MINIMUM PSIG BURST PRESSURE	ALLOY 600 (INCONEL)
-	-
103	.973
-	-

DISK TYPE: JRS

HEADS: SRB-7RS

DISK TYPE: SVI

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-UP	76	.998

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1 $\frac{1}{2}$	126	.956
2-UP	90	.967

VALVE TYPE: JB

DISK TYPE: S-90

HEADS: SRB-7RS or S90-7R

DISK TYPE: SVI

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-1 $\frac{1}{2}$	126	.955
2-UP	75	.994

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1 $\frac{1}{2}$	125	.950
2-UP	90	.960

DISK TYPE: JRS

HEADS: SRB-7RS

DISK TYPE: JRS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	316 SS
1-UP	76	.983

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 400 (MONEL)
1 $\frac{1}{2}$ -UP	22.5	.981

DISK TYPE: GFN

HEADS: NF-7R or NF-7RS

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
2-UP	90	.974

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	125	.997

VALVE MANUFACTURER: NAKAKITA

VALVE TYPE: NS255

DISK TYPE: JRS

HEADS: SRB-7RS

DISK TYPE: RLS

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	39	.991

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	123	.995

DISK TYPE: S-90

HEADS: SRB-7RS

SIZE (IN)	MINIMUM PSIG BURST PRESSURE	ALLOY 200 (NICKEL)
1-UP	123	.978