

## CERTIFIED COMBINATION CAPACITY FACTORS

ASME Section VIII, Division 1 and API 520 provide guidance for the use of rupture disc devices in combination with a pressure relief valve (PRV). When a rupture disc is installed at the inlet of a PRV, the flow capacity of the combination is equal to the flow capacity of the PRV multiplied by the combination capacity factor. A default combination capacity factor of 0.9 may be used. If the specific rupture disc/PRV combination has been tested and certified (the certified combination capacity factor (CCCF)) the higher value may be used. The following table lists the certified combination capacity factors for various Fike rupture discs and listed pressure relief valve combinations.

Rupture Disc Model	Valve Manufacturer & Model	Min. Size (Inch) [DN]	Min. Burst Pressure in the Min. Size (PSIG) [BARG]	Certified Combination Capacity Factor (CCCF)	NB-18 Certificate No.
AXIUS	Farris 2600, 2600S	1" [DN25]	15 [1.03]	1.00	57057
ATLAS		1" [DN25]	198 [13.65]	.998	57057
SRX		1" [DN25]	95 [6.55]	.969	57057
SRL		1" [DN25]	27 [1.86]	.996	57057
Poly-SD CS		1" [DN25]	125 [8.62]	.958	57057
Poly-SD DH		1" [DN25]	32 [2.2]	.999	57057
AXIUS		Anderson Greenwood Crosby JOS-E, JBS-E	1" [DN25]	15 [1.03]	.987
ATLAS	1" [DN25]		198 [13.65]	.985	01045
SRX	1" [DN25]		95 [6.55]	.996	01045
SRL	1" [DN25]		27 [1.86]	.979	01045
Poly-SD CS	1" [DN25]		124 [8.55]	.970	01045
Poly-SD DH	1" [DN25]		32 [2.2]	.997	01045
AXIUS	Consolidated Dresser 1900, 1900-30, 1900-35		1.5" [DN40]	15 [1.03]	.988
ATLAS		1.5" [DN40]	117 [8.06]	.980	18201
SRX		1.5" [DN40]	95 [6.55]	.971	18201
SRL		1.5" [DN40]	28 [1.93]	.986	18201
SCRD-FSR		1.5" [DN40]	240 [16.55]	.984	18201
Poly-SD DH		1.5" [DN40]	28 [1.93]	.994	18201
SRX		Consolidated Dresser 1900E-2, 1900-30E-2	1" [DN25]	95 [6.55]	.978
SRL	1" [DN25]		27 [1.86]	.994	18166
Poly-SD CS	1" [DN25]		125 [8.62]	.989	18166
Poly-SD DH	1" [DN25]		32 [2.2]	.989	18166
Poly-SD DH	Consolidated Dresser 3900	2" [DN50]	55 [3.79]	.989	18447
SRX	Fukui RE Series	1.5" [DN40]	85 [5.86]	.972	27032

Notes:

1. POLY-SD score patterns for sizes 0.5" to 6" will be selected at the discretion of Fike Corporation once rupture disc specifications are received. All POLY-SD sizes 8" and larger are only CS style. Consult Fike to confirm DH or CS at time of specification.
2. Legacy MRK, HOV and other specialized Rupture Disc Device CCCF values not shown are listed in the National Board of Pressure Vessels NB-18 "Redbook".
3. More information is available in Technical Bulletins TB8102, (Rupture Disc Sizing), TB8104 (KR, MNFA tables) and TB8105 (RD & PRV Combination Best Practices).

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