

DIERS SIZING FORM

Company Name _____ Date: _____

Person completing form: _____ Contact Number: _____

Per DIERS - API 520 Part 1 (9th ed.), Annex C, please utilize **one (1)** of the following suitable methods per application to size relief device:

DIERS Method - C.2.1 – Direct Integration of the Isentropic Nozzle Flow

1. Fluid Quality - _____ - Xo
2. Viscosity Correction Factor – _____ - Kv
3. Mass Flux - _____
4. Discharge Coefficient (Kd) - _____

DIERS Method - C.2.2 – Two-phase Flashing or Non-flashing Flow

1. Specific Volume Of 2-Phase System @ PRV Inlet _____ - Vo - _____
2. Specific Volume At 90% of Flowing Pressure _____ - V9 - _____
3. Fluid Quality - _____ - Xo
4. Viscosity Correction Factor - _____ - Kv
5. Omega (if known) - _____
6. Mass Flux - _____
7. Discharge Coefficient (Kd) - _____

DIERS Method – C.2.3 – Subcooled Liquid at the PRV Inlet

1. Density At PRV Inlet - _____ - Rho lo - _____
2. Density At 90% of Sat. Pressure - _____ - Rho 9 - _____
3. Saturation pressure - _____ - psi-a - _____ – Saturated Fluid
4. Viscosity Correction Factor – _____ - Kv
5. Omega (if known) - _____
6. Discharge Coefficient (Kd) - _____

Customer Signature: _____

Six nearby locations are available to supply and service your needs. For more information, visit www.alliedvalveinc.com.

Illinois
1019 W. Grand Ave.
Chicago, IL 60642
(P) 312-226-1506
(F) 312-226-1197

Indiana
6575 Daniel Burnham Dr.
Suite D
Portage, IN 46368
(P) 219-764-3010
(F) 219-764-3084

Iowa
4419 State St.
Riverdale, IA 52722
(P) 563-359-8100
(F) 563-359-0857

Minnesota
6291 318th St. Way
Cannon Falls, MN 55009
(P) 507-263-2251
(F) 866-929-3719

North Dakota
1751 93rd St. NE
Bismarck, ND 58501
(P) 701-214-5502
(F) 701-557-7850

Wisconsin
3301 East Evergreen Dr.
Appleton, WI 54913
(P) 920-832-9778
(F) 920-832-9798