

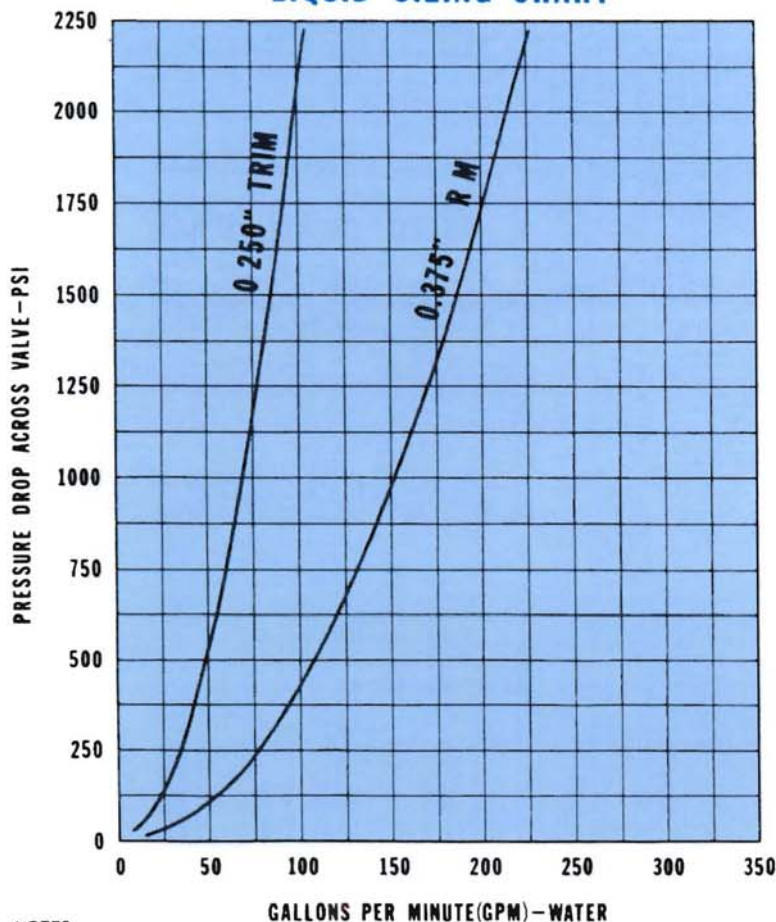
MANUFACTURED IN CANADA BY ALBERTA OIL TOOL

## SERIES 1" 2023 NO-FREEZE VALVE



MODEL S -22RAF09BA2

### LIQUID SIZING CHART



NOTES

1. Maximum Flow Coefficient (Cv) for 0.25" Trim is 2.2
2. Maximum Flow Coefficient (Cv) for 0.375" Trim is 4.8
3. For Gravity Correction, Multiply GPM by  $1/\sqrt{SG}$
4. To Convert to Barrels Per Day, Multiply GPM By 34.3

### FEATURES:

- Screwed End Connections
- Hexagonal Steel Body
- Ball Type Trim Design
- Replaceable Plug and Seat
- 300 Series SST Trim Standard
- Carbide Trim Option
- Soft Seating Trim Option
- Non-Adjustable Actuator
- NACE MR-01-75 Compliance Option

### APPLICATION:

The Series 2023 is ideal for use as a high pressure liquid dump valve for separators and other process vessels. The valve body is specifically designed for constant trim immersion in the vessel fluid.

### SPECIFICATIONS:

- Body Size ..... 1.00" X 0.50" NPT
- Body Style ..... Angle
- ..... Freeze Resistant
- Max. Working Pressure .... 2220 Psig
- Temperature Limits ..... -20° To 180° F.
- Trim Characteristic ..... Quick Opening
- Actuator Mode ..... Reverse Acting
- Actuator Effective Area .... 35 Sq. in.
- Actuator Connection ..... 0.25-18 NPT

### MAXIMUM DIFFERENTIAL PRESSURES ( $\Delta P$ ) NO. 9 NON-ADJUSTABLE ACTUATOR

DIAPHRAGM SUPPLY PRESSURE	FLOW IN LOWER PORT
	9BA2 REVERSE ACT. (NORMALLY CLOSED)
17 PSIG	2220 PSI (ANSI 900 CLASS)

NOTES:

1. Maximum  $\Delta P = P_1 - P_2$  Where  $P_2 = 0$  Psig
2. Maximum  $\Delta P$  Cannot Exceed Maximum Valve Working Pressure.
3. Actuator Supply Pressure Required To Fully Stroke Valve.

# HOW TO ORDER

1. SPECIFY SERIES NUMBER — 1.00" SERIES 2023
2. SELECT MODEL CODE FROM CHART BELOW

EXAMPLE: S — 2 2 R A H 0 9 B A 2

BODY CONNECTION	
TYPE	CODE
Screwed (NPT)	S

SERVICE	
TYPE	CODE
Standard	—
NACE MR-01-75	N

BODY RATING	
WORKING PRESSURE	CODE
2220 Psig	22

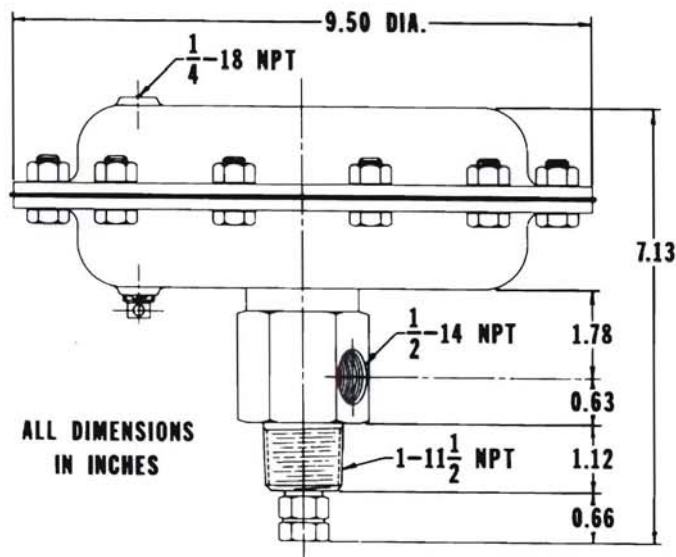
ACTUATOR STYLE	
MODE	CODE
Reserve - Non adj.	R

ACTUATOR SPRING	
CODE	MODE
BA2	Reserve Acting

ACTUATOR SIZE	
CODE	DIAMETER
09	9.50"

SEALS	
CODE	MATERIAL
H	Viton (Std.)

BODY STYLE	
CODE	PATTERN
A	Angle



3. SPECIFY TRIM SIZE -0.25" OR 0.375
4. SELECT TRIM MATERIAL

TRIM MATERIAL	
Standard	303 SST
Optional	Kynar/303 SST
Optional	Carbide/440 SST
Optional/NACE	316 SST
Optional/NACE	Kynar/316 SST

NOTES:

1. "Viton" Is A Registered Trademark Of E. I. Dupont de Nemours & Co. Inc.
2. "Kynar" Is A Registered Trademark Of Pennwalt Corporation.

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