

Humphrey Glue Valves

Humphrey glue valves are 2-way, double air-piloted valves with a full 0.125-inch or 0.250-inch orifice. They are simply and reliably constructed with only two flexing diaphragms and no sliding seals. Humphrey glue valves are self-cleaning since there are no pockets in which glue can collect. They have positive "open" and "close" with no dripping due to the volume under the top solid diaphragm which sucks the glue back into the valve upon closing.



R561

Model R561 glue valve has a full 0.125-inch orifice and, with diaphragms featuring a 0.010" Teflon® profile, is unaffected by almost all chemical solvents. Order mounting hardware separately: #8-10 Mounting Base; #120-301 Mounting Nut.



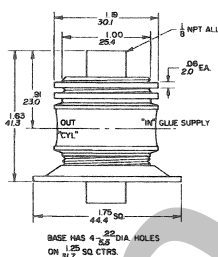
R332

Model R332 glue valve features a full 0.250-inch orifice and fluoro-elastomer diaphragms for handling glues with a water or mild chemical base. Teflon profile diaphragms are not available for R332 or other 0.250-inch orifice valves. Order mounting hardware separately: #8-20A Mounting Base.

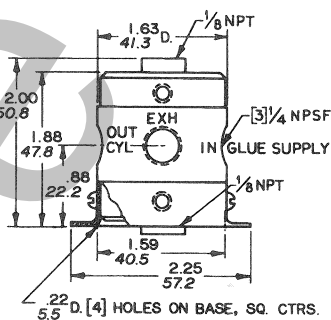


Note: Glue valves may become "stiff" at temperatures of 40°F (4.4°C) or below, because of the stiffness of the diaphragms. This condition can be corrected by increasing pilot pressure somewhat, but always keep both glue and pilot pressures at a minimum for maximum reliability.

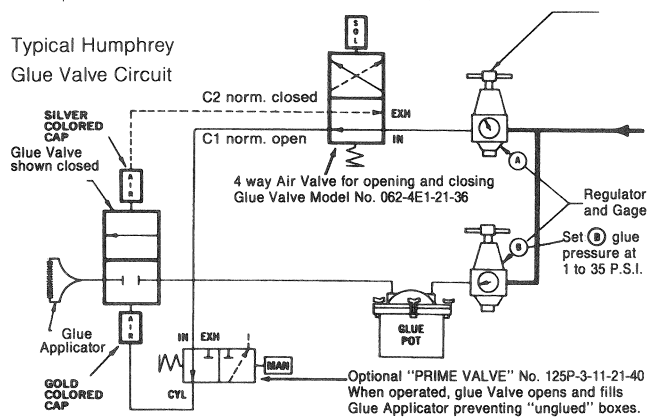
R561/R322C



R332



Typical Humphrey Glue Valve Circuit



Do not shut off Regulator **A** (air pilot pressure) before Regulator **B** or the Glue Valve will be forced to the open position permitting glue flow to the applicator. On the R561 Series the bottom diaphragm **may** come off the main stem (if glue pressure is 20 PSI or above) allowing glue to enter the pilot air system.

HOW TO SELECT THE RIGHT GLUE VALVE

The 1/8" R322C Series or 1/4" R332 Series valve will handle most glue applications with a water or mild chemical solvent base. However, some strong chemical solvents (ketones, acetones and low molecular weight esters and ethers) may cause the fluoroelastomer diaphragms to swell and a gradual reduction in the glue flow would be an indication of this condition. Increasing the glue pressure would accelerate the swelling of the fluoroelastomer diaphragms under such conditions. Most "HOT" glue applications (to 350°F) are suitable for these valves. Five to seven million cycles should be expected, if used in accordance with the specifications.

The 1/8" R561 Series glue valve is unaffected by almost all chemical solvents and thus resists swelling except in the most extreme applications. This valve incorporates 0.010" thick Teflon bonded to a Buna "N" (never exposed to the glue) diaphragm. Five to seven million cycles should be expected, if used in accordance with the specifications.

All of the glue valves may become “stiff” at temperatures of 40°F, or below due to stiffness of the diaphragms. Increasing the pilot air will correct this condition.

Always keep the glue and pilot air pressures at a minimum and these valves will provide excellent reliability.

Humphrey® Vacuum Valves

Order Information

Air/Vacuum Piloted Vacuum Valves

1/8-, 1/4-, 1/2-, 3/4-inch ports, 2-way, 3-way

VALVES

	2 Way	3 Way	Normally Closed	Normally Open	w/Out Mount. Base	With Mount. Base	FKM* Seals	Brass Body
Option Code	2	3	10	11	20	21	w/VAI	w/BRB
Model VA125A	SP	N/C	N/C	NA	STD	SP	SP	SP
VA250A	SP	N/C	N/C	NA	STD	SP	SP	SP
VA500A	SP	N/C	N/C	NA	NA	STD	SP	STD
VA590A	SP	N/C	N/C	NA	NA	STD	SP	SP

HOW TO ORDER *Fluoroelastomer

Starting with Model Number specify options in order from left to right.

Example: To Order Model VA125A-3-10-21

3-Way Operation	(VA125-3)
Normally Closed	(VA125-3-10)
With Mounting Base	(VA125-3-10-21)

Remember: Option Codes marked STD and NA are not used as part of the Model Number when ordering. N/C indicates no charge but Option Code must be included in the Model Number. OS indicates that Option must be ordered separately and is not used as part of the Model Number.

N/C = No charge	STD = Standard
NA = Not available	SP = Specify, additional
OS = Order separately, additional charge for this option	charge for this option

Humphrey® Insert/Glue Valves

Order Information

Insert Valves

1/8-, 1/4-, 1/2-inch, 2-way, 3-way

"Y" SERIES

	Fluoroelastomer Seals
Option Code	w/VAI
Model Y125IN	SP
Y250IN	SP
Y500IN	SP

Order example: Y250IN

SP = Specify

Glue Valves

1/8-, 1/4-inch, 2-way

	Description
Model R322C	1/8" Valve w/fluoroelastomer diaphragms*
R561	1/8" Valve w/Teflon Profile Diaphragms*
R332	1/4" Valve w/fluoroelastomer diaphragms

Order example: R561

*Order mounting accessories separately.