Humphrey Cartridge Insert Valves

Humphrey cartridge insert valves are 2-way or 3-way valves specifically designed for incorporation into OEM products to become a proprietary and unrecognizable component of these products. Cartridge insert valves are available in 0.125-inch, 0.250-inch, and 0.500-inch orifice sizes for manual, mechanical, or air pilot actuation, and for normally closed or normally open functions in pressure ranges from 0-125 psig (W Series: 0-150 psig). Both piston poppet and diaphragm poppet models are available. Various 125 Series actuators are shown in the manual/mechanical and air-piloted valve sections of this catalog.











J250IN

Model J125IN is a full 0.125-inch orifice, 2-way, normally closed valve which, because of its small size, is an ideal on-off control for a wide range of 2-way functions. Actuation is typically manual or

Model J250IN is identical to the J125IN valve but has a full 0.250-inch orifice.









Model W125IN is a full 0.125-inch orifice, 3-way, normally closed valve with a built-in exhaust and for use in a wide range of 3-way functions. Actuation is typically manual or mechanical.

Model W250IN is identical to the W125IN valve but has a full 0.250-inch orifice.



Y125IN

Model Y125IN is a full 0.125-inch orifice, 3-way, normally closed or normally open valve with captured exhaust. Normally closed or normally open functions are determined by selection of IN and EX-HAUST manifold connections. Actuation is typically air pilot, manual, or mechanical.

Y500IN Models Y250IN and Y500IN are identical to the Y125IN valve but have full 0.250-inch and 0.500inch orifices respectively.



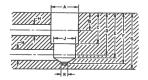


J SERIES









J Series Valve Dimensions

MODEL	STROKE	Α	В	С	D	ORIFICE	
J125IN	.031	.375	.328	.563	.875	.125	
J250IN	.063	.625	.375	.688	.922	.250	

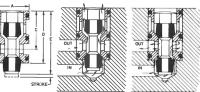
Caution: Maximum overstroke is 0.031"

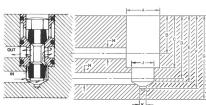
J Series Cavity Dimensions

MODEL	Α	В	C‡	D	Е	F	G	Н	J	K
J125IN	.375/.378	.328	.562	.718	.781	1.000	1.125	.125	.312	.187
J250IN	625/628	375	687	937	1 000	1 156	1.375	250	500	156

NOTE: Ports (letter "H") do not require same vertical plane, as shown, but may be rotated axially about valve cavity (letter "A") in horizontal plane as dimensioned. ‡Add 0.010" to insure valve's complete insertion into cavity.

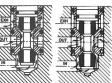
W SERIES

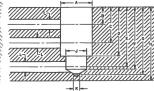




Y SERIES







W and Y Series Valve Dimensions

MODEL	STROKE	Α	В	С	D	E	ORIFICE
W/Y125IN	.031	.500	.328	.703	1.000	1.125	.125
W/Y250IN	.063	.750	.406	.844	1.156	1.375	.250
VSOOIN	125	1 375	625	1.406	1 006	1 975	500

W and Y Series Cavity Dimensions

			-								
MODEL	Α	B*	С	D‡	Е	F	G	Н	J	K	L
W/Y125IN	.500/.503	.328	.703	1.000	1.156	1.187	1.296	1.500	.375	.187	.125
W/Y250IN	.750/.753	.406	.843	1.156	1.406	1.437	1.625	1.875	.625	.156	.250
Y500IN	1 375/1 378	625	1 406	1 906	2 343	2 437	3 187	3.500	1 000	406	.500

NOTE: Ports (letter "L") do not require same vertical plan, as shown, but may be rotated axially about valve cavity (letter "A") in horizontal plane as dimensioned. ‡Add 0.010" to insure valve's complete insertion into cavity. "Omit on "W" Series. For Overtravel, add 0.030" to dimension "D".