## INTRINSICALLY SAFE LINE MOUNTED 1/4 NPTF AND 3/8 NPTF VALVES

L2I intrinsically safe valves are solenoid-pilot actuated, multipurpose, 4-way power valves. These valves are designed for use in explosive environments within an intrinsically safe system. The special solenoid is capable of operating at very low power levels, so that any spark that may be produced is not powerful enough to ignite any dust or gas present in the operating environment.

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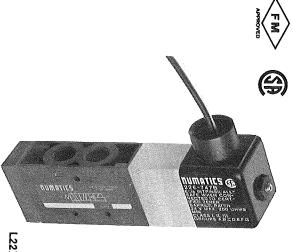
Valve

Sugge safe petroc manuf proces likeliho electri

Two v

Single by a " the sp signal

Double either signal the sprand proshock.



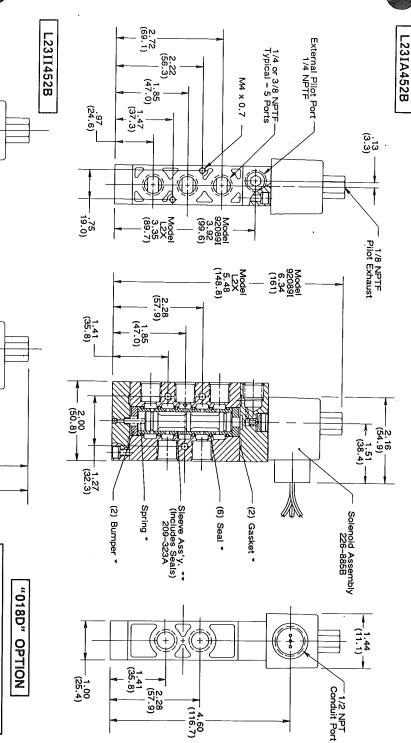
018D = Side Cylinder Ports in the Body to Adapt to Actuator Adaptor or Cylinders	$12 \qquad \boxed{\begin{array}{c} 2 & 4 \\ \hline 12 & \boxed{\begin{array}{c} 2 & 4 \\ \hline 3 & 1 & 5 \end{array}} \qquad \begin{array}{c} 14 \\ \hline \end{array}$	L23II452B	L22II452B	Double Solenoid Pilot, 2-Position, Detented
014A = External Pilot Supply	5			opring Return
Add letter to the model number	12 M 14	L23IA452B	L22IA452B	Single Solenoid Pilot, 2-Position,
				!
SPECIAL OPTION	A.N.S.I. SYMBOL	3/8 NPTF	1/4 NPTF	, , , , , , , , , , , , , , , , , , ,
		MODEL NUMBER	MODEL	VALVE TYPE
	MODEL SELECTION CHART	7		

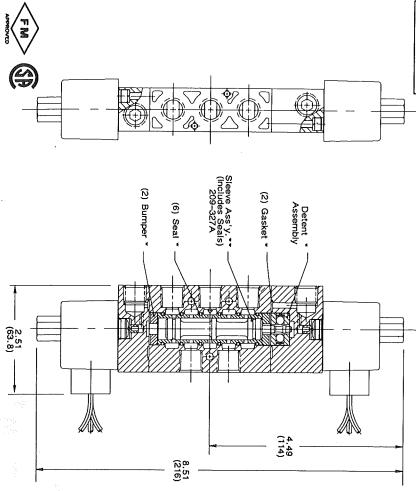
018D = Side Cylinder Ports in the	2 4				le Solenoid Pilot, 2-Position
Add letter to the model number.  014A = External Pilot Supply	$M_{1}$ $3 1 5$ $14$	L23IA452B 12		L22IA452B	e Solenoid Pilot, 2-Position, pring Return
SPECIAL OPTION	A.N.S.I. SYMBOL	JMBER 3/8 NPTF		1/4 NPTF	ALVE TYPE
	MODEL SELECTION CHART				
and filtration requirements for unlubricated service.  FLOW CAPACITY: L2I valves have a Cv of 1.7. Se  Numatics' Engineering and Technical Data to complete flow chart.	i	revents inadvertent spool shift due to vibration or k.	shift due	ertent spoo	X.
service: valves can be used on the following proper filtered media:  Lubricated air, dry (oil free) air, vacuum, an non-corrosive, non-toxic, non-flammable dry gases		ble solenoid-pilot, detented valves are actuated by a "momentary", or a "maintained" electrical alternately on each solenoid. The detent holds	d valves : "maintai enoid. Th	ot, detente ary", or a n each sol	le solenoid-pil r a "momenta l alternately o
External Pilot Supply: 17.3 F313 - 120 F313  Main Valve: 28" Hg. vacuum to 145 PSIG  Pilot Supply: Same as internal pilot supply  TEMPERATURE RANGE: -40° F to +115° F ambient.		le solenoid-pilot, spring return valves are actuated "maintained" electrical signal. The spring returns spool to the original position when the electrical is removed.	eturn valv signal. The ition whe	nt, spring re electrical s riginal pos	le solenoid-pild "maintained" spool to the call is removed.
	A 111		available.	ations are a	valve configurations are available
CSA - File LR 42844-11 FM - File J.I.2T7A3.AX ELECTRICAL SPECIFICATIONS: See page 105. RESPONSE TIME: Energize: .022 Seconds at 100 PSIG De-energize .100 Seconds at 100 PSIG		Jested applications for Numatics L2I intrinsically valves include grain handling equipment, ochemical processing plants, chemical and drug ufacturing, paint plants, flammable gas essing, mines and any other area where there is a hood of explosions or fire caused by arcing trical devices.	Numatics I handlin Ints, che Ints, fil Inter area Inter area Inter cau	plications for Ninclude grain processing plates paint plates and any other processions or ses.	yested applications for valves include (continuous include (continuous include) years and an applications of explosions trical devices.
OPERATING DATA  OVALS:	<b>OPER/</b> SOLENOID APPROVALS:	?	ny positio	unted in ar	es may be mounted in any position.
numarites of the second of the	X	nsically safe L2I valves are designed to operate when connected to a current and voltage limiting ty barrier. The valve and wiring is not capable of asing sufficient electrical or thermal energy under nal or abnormal conditions to cause ignition of a clific hazardous atmospheric condition in its most ly ignited concentration.	are designare designare designare and and and and archerm or therm archerm archerm.	ted to a cut ted ted ted ted ted ted ted ted ted te	nsically safe L2I valves when connected to a carbon walve are as a sing sufficient electrical or abnormal conditional or abnormal conditional or acardous atmosphy ignited concentration.
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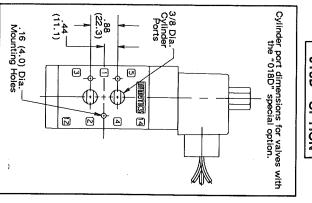
## SOLENOID PILOT ENOID PILOT ACTUATED DIMENSION AND PARTS

(A.5) ➂









This spool and Sleeve assembly is sold as a precision matched set only. Spools are not interchangeable.

## EXTERNAL PILOT SUPPLY

To convert any valve to external pilot supply, remove the adapter from the valve body, rotate the gasket to block the internal supply, and replace the adapter in the same position. Remove the 1/4 NPTF pipe plug from the adapter and supply external pilot pressure to this port.

On double solenoid-pilot valves, both ends must be converted. External pilot supply must be used if pressure is supplied to any port except No.

## VALVE REPAIR KITS

Includes all internal parts except Sleeve Assembly or Solenoids	except :
Valve Series	Kit Numbe
L22IA4, L23IA4	12-K1
L22II4, L23II4	2