

# EXPANDA FOLD

## THE ULTIMATE DISTRIBUTION SYSTEM

The ExpandaFold, a state-of-the-art manifold system that uses less fittings, has less joints, eliminates leaks and cleans up the unsightly messes associated with makeshift manifolds. Whether it is used to transport air or fluid, the ExpandaFold will transform manifold chaos to impeccable order. See how easy it is to replace that sloppy, leaking and inefficient distribution system with LSP Industries ExpandaFold system.



# THE EXPANDAFOLD SYSTEM

## THE EXPANDAVALVE AND OFF-THE-SHELF COMPONENTS

The heart of the Expandafold System, the Expandavalve comes ready to assemble into customized manifolds\*. Expandavalves are designed to be assembled into manifolds with screws, pipes and/or tubing. It's that simple! They can be assembled in a variety of configurations as shown below.



### Cluster Type Installations

Expandavalves can be assembled in a tight cluster, one valve actually touching another. This arrangement conserves space and allows them to be mounted in confining areas.

They are assembled with an o-ring between each valve and they are held together with interlocking screws that thread into each other.

\* Expandavalves can be ordered in pre-assembled clusters at an economical cost. Call LSP Industries Inc. with your custom specifications.

### Angled Set-up

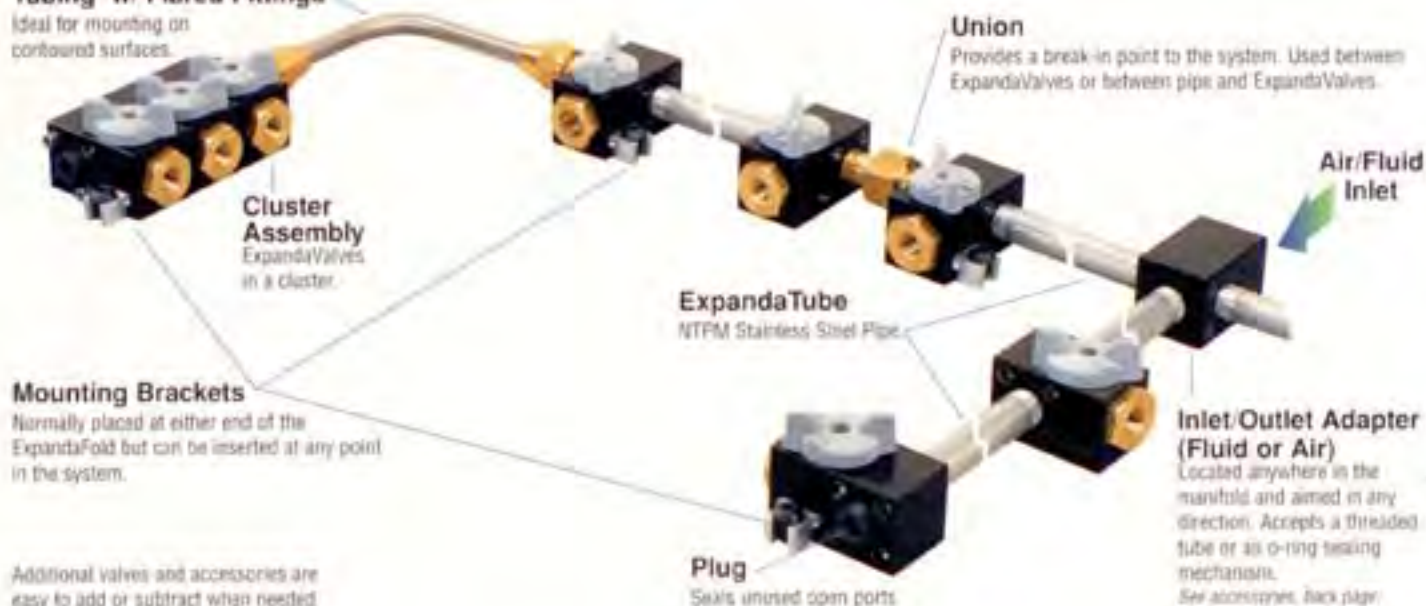
This method of assembly makes it possible for the Expandavalves to be mounted in a horizontal line or to aim each valve 90°, 180° or 270° from the adjoining one.



Four Expandavalves Assembled into a Manifold.

### Tubing w/ Flared Fittings

Ideal for mounting on contoured surfaces.



Additional valves and accessories are easy to add or subtract when needed.

## ORDERING THE EXPANDAVALVES

All individual ExpandaValve designated numbers are shown below. Specify the number when ordering. The ExpandaValve is also available in assembled clusters. Those assembly numbers are available upon request.

# ORDERING



Part Number V-121

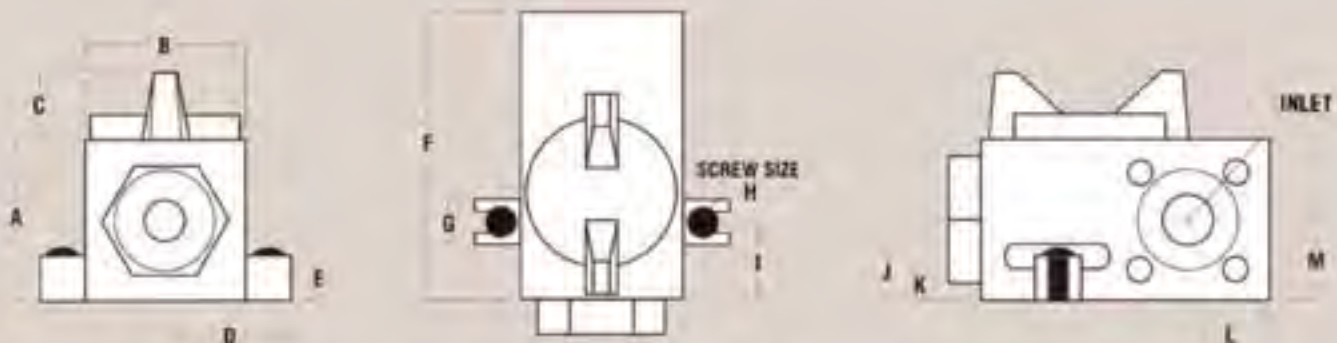
### ExpandaFold Valves

No.	Inlet	Outlet No.	Inlet	Outlet	No.	Inlet	Outlet	No.	Inlet	Outlet
V-111	1/8 NPTF X 1/8 NPTF	V-121	1/4 NPTF X 1/8 NPTF	V-131	3/8 NPTF X 1/8 NPTF	V-142	1/2 NPTF X 1/4 NPTF			
V-112	1/8 NPTF X 1/8 Compression	V-122	1/4 NPTF X 1/4 NPTF	V-132	3/8 NPTF X 1/4 NPTF	V-143	1/2 NPTF X 1/4 Compression			
V-113	1/8 NPTF X 1/8 Push/Pull	V-123	1/4 NPTF X 1/4 Compression	V-133	3/8 NPTF X 1/4 Compression	V-144	1/2 NPTF X 1/4 Push/Pull			
		V-125	1/4 NPTF X 1/4 Push/Pull	V-134	3/8 NPTF X 1/4 Push/Pull	V-145	1/2 NPTF X 3/8 NPTF			
				V-135	3/8 NPTF X 3/8 NPTF	V-146	1/2 NPTF X 3/8 Compression			
				V-137	3/8 NPTF X 3/8 Compression	V-147	1/2 NPTF X 3/8 Push/Pull			
				V-138	3/8 NPTF X 3/8 Push/Pull	V-148	1/2 NPTF X 1/2 NPTF			
						V-149	1/2 NPTF X 1/2 Compression			
						V-150	1/2 NPTF X 1/2 Push/Pull			

ExpandaFold Valves are anodized aluminum with brass fittings. They are available in 1/8 NPTF, 1/4 NPTF, 3/8 NPTF and 1/2 NPTF Inlets.

ExpandaValves are full flow relative to their inlets and are rated for pressures up to 1000 PSI. Push-Pull fittings are rated at 150 PSI regardless of the ExpandaValve ratings.

# SPECIFICATIONS



### Valve Specifications

ExpandaValves	A	B	C	D	E	F	G	H	I	J	K	L	M
Valves w/1/8 or 1/4 NPTF Inlet	1.125	1.125	.500	.9685	.500	2.037	.500	1/4-20	.500	.250	.437	.5625	.5625
Valves w/3/8 or 1/2 NPTF Inlet	1.500	1.300	.625	.9685	.625	2.650	.625	1/4-20	1.450	.250	.437	.750	.750

# ACCESSORIES



## Nipples

For short connections

Brass	Thread
V-945	1/8 NPTM
V-946	1/4 NPTM
V-947	3/8 NPTM
V-948	1/2 NPTM



## Pipe Plug

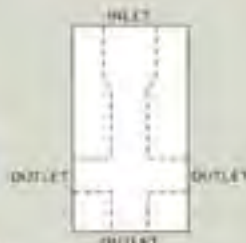
Steel	Thread
V-941	1/8 NPTM
V-942	1/4 NPTM
V-943	3/8 NPTM
V-944	1/2 NPTM



## Mounting Brackets

Adapts to an ExpandoValve. Two M-3 package covers included

Part Number	NPTF Inlet Size
V-905	1/8", 1/4", 3/8" & 1/2"



## Inlet/Outlet Adapter

When an inlet/outlet is not being used, the inlet/outlet adapter is an effective solution. They are two parts to the adapter. The main inlet part is an NPTF size larger than all other parts. The outlet part has a larger valve seat area to assist in redistribution to the ExpandoValve. This arrangement maintains distributing adequate pressure to the valves. It is used in well completion and may be used as an inlet part. All inlet/outlet fittings may be changed without parts. An optional wing nut and wing stopper & handle can be made completely out of inlet/outlet adapter as they can be sealed positively in an ExpandoValve system.



## Screw and O-Ring Kits

Two screws, two nuts and one O-ring are included in each package

Part Number	NPTF Inlet Size
V-901	1/8" & 1/4"
V-902	3/8" & 1/2"



## Stainless Steel Pipe

Length	1/8" NPTM	1/4" NPTM	3/8" NPTM	1/2" NPTM
6"	V-811	V-821	V-831	V-841
12"	V-812	V-822	V-832	V-842
18"	V-813	V-823	V-833	V-843
24"	V-814	V-824	V-834	V-844
30"	V-815	V-825	V-835	V-845
36"	V-816	V-826	V-836	V-846

\*Specify length, size and tolerance in order



## Unions

Used in flow control systems with multiple ExpandoValves assembled in series as they are used in long pipelines controlled by pumps. Allows for easy disengagement of the valve at all stages. Installation of changes have to be made. Can be used between two valves or between a valve and a pump.

Unions for use between like ExpandoValves

Part Number	Material	Thread
V-911	Brass	1/8 NPTM X 1/8 NPTM
V-912	Brass	1/4 NPTM X 1/4 NPTM
V-913	Brass	3/8 NPTM X 3/8 NPTM
V-914	Brass	1/2 NPTM X 1/2 NPTM

Unions for use between two ExpandoValves and Pipe

Part Number	Material	Thread
V-921	Brass	1/8 NPTM X 1/8 NPTM
V-922	Brass	1/4 NPTM X 1/4 NPTM
V-923	Brass	3/8 NPTM X 3/8 NPTM
V-924	Brass	1/2 NPTM X 1/2 NPTM

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P.O. Box 5303, ROCKFORD, IL 61125  
 2511-20TH ST., ROCKFORD, IL 61104  
 TEL: 815-226-8090 FAX: 815-226-9250  
 WWW.LSPIND.COM