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

O-Ring

Seals between valves when linked directly togeth

Screws Ties valves directly together and holds them securely in place.

THE EXPANDAVALVE AND

of configurations as shown below.

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

Cluster Type Installations -

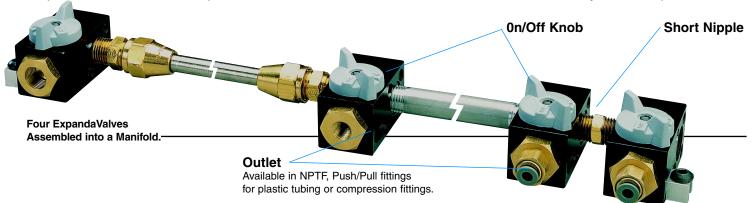
Expanda Valves can be assembled in a tight cluster, one valve actually touching another. This arrangement conserves space and allows them to be mounted in

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

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.

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



Tubing w/ Flared Fittings

Ideal for mounting on contoured surfaces



ExpandaValves in a cluster.

Mounting Brackets

Normally placed at either end of the ExpandaFold but can be inserted at any point in the system.

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

Provides a break-in point to the system. Used between ExpandaValves or between pipe and ExpandaValves.

ExpandaTube

NTPM Stainless Steel Pipe.



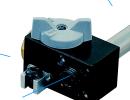
Inlet/Outlet Adapter (Fluid or Air)

Air/Fluid Inlet

Located anywhere in the manifold and aimed in any direction. Accepts a threaded tube or an o-ring sealing mechanism. See accessories, back page.

Plua

Seals unused open ports



ORDERING



Part Number VBS02x02F

V B

Item

VB - Valve, Ball S

Housing Material

A - Aluminum **S** - Stainless Steel 02

Inlet Thread Size

02 - 1/8" NPTF **04** - 1/4" NPTF

06 - 3/8" NPTF **08** - 1/2" NPTF

02

Outlet Thread Size

02 - 1/8" **F**NPTF **P**

04 - 1/4" NPTF

04 - 1/4" Tube

06 - 3/8"

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■ Outlet Type

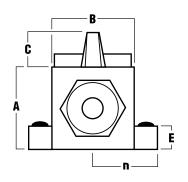
F - Female **P** - Push/Pull

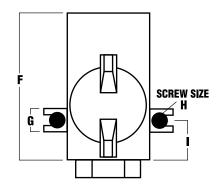
C -

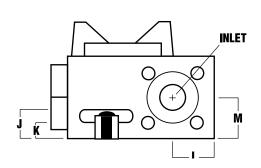
Compression

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

ExpandaValve A	<u> </u>	<u>C</u>	D	F	F	<u> </u>	н			<u> </u>		M
Valve 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
Valve w/3/8" or 1/2" NPTF Inlet 1.500	1.500	.625	.9685	.500	2.850	.500	1/4-20	1.450	.250	.437	.7500	.7500

ACCESSORIES



Nipples For short connections

Thread	Brass
1/8" NPT	VNB02
1/4" NPT	VNB04

VNB06 3/8" NPT VNB08 1/2" NPT



Pipe Plug

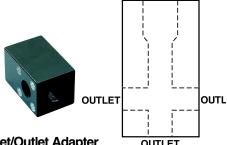
Thread	Brass
1/8" NPT	VGB02
1/4" NPT	VGB04
3/8" NPT	VGB06
1/2" NPT	VGB08



Mounting Brackets

Adapts to an ExpandValve. Two to a package, screws included.

Part Number	NPTF Inlet Sizes				
901ACY-01	1/8". 1/4". 3/8" & 1/2"				



INLET

Inlet/Outlet Adapter

When on/off control is not needed, an inlet/outlet adapter is an efficient solution. There are four ports to the adapter. The main Inlet port is one NPT size larger than all other ports. The oversized inlet takes in a larger volume of air or liquid for redistribution to the ExpandaValves. This extra capacity aids in distributing adequate volume to the valves. If volume is not a consideration, any port may be used as an inlet port. Any or all of the remaining ports may be used as outlet ports. Any port not being used can be plugged. A manifold can be made completely out of inlet/ outlet adapters or they can be located anywhere in an ExpandaFold system.

Sample Part Number VAS04X02F Valve, Adapter -

Inlet Size (one NPT size larger than outlet size)



Screw and O-Ring Kits

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

Part Number	NPTF Inlet Sizes
901ACY-02	1/8" & 1/4"
901ACY-03	3/8" & 1/2"



P.O. Box 5303, 2511-20th St. Rockford, Illinois 61125

815/226-8090 Fax: 815/226-9250 E-Mail: Isp@Ispind.com



Stainless Steel Pipe

		•		
Lengt	1/8" NPTM	1/4" NPTM	3/8" NPTM	1/2" NPTM
6"	VPS06X02	VPS06X04	VPS06X06	VPS06X08
_12"	VPS12X02	VPS12X04	VPS12X06	VPS12X08
18"	VPS18X02	VPS18X04	VPS18X06	VPS18X08
_24"	VPS24X02	VPS24X04	VPS24X06	VPS24X08
_30"	VPS30X02	VPS30X04	VPS30X06	VPS30X08
_36"	VPS36X02	VPS36X04	VPS36X06	VPS36X08

*Special lengths available upon request.



Unions

For use in ExpandaFold systems where multiple ExpandaValves are assembled in clusters or they are used in long assemblies connected by pipes. Allows for easy disengagement of the valves at strategic locations if changes have to be made. Can be used between two valves or between a valve and a pipe.

Unions for use between two ExpandaValves

Part Number	Material	Thread
VUB02Mx02M NPTM	Brass	1/8" NPTM x 1/8"
VUB04Mx04M NPTM	Brass	1/4" NPTM x 1/4"
VUB06Mx06M NPTM	Brass	3/8" NPTM x 3/8"
VUB08Mx08M NPTM	Brass	1/2" NPTM x 1/2"
VUS02Mx02M NPTM	Stainless Steel	1/8" NPTM x 1/8"
VUS04Mx04M NPTM	Stainless Steel	1/4" NPTM x 1/4"
VUS06Mx06M NPTM	Stainless Steel	3/8" NPTM x 3/8"
VUS08Mx08M NPTM	Stainless Steel	1/2" NPTM x 1/2"

Unions for use between two ExpandaValve and Pine

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Part Number	Material	Thread			
VUB02Mx02F NPTF	Brass	1/8" NPTM x 1/8"			
VUB04Mx04F NPTF	Brass	1/4" NPTM x 1/4"			
VUB06Mx06F NPTF	Brass	3/8" NPTM x 3/8"			
VUB08Mx08F NPTF	Brass	1/2" NPTM x 1/2"			
VUS02Mx02F NPTF	Stainless Steel	1/8" NPTM x 1/8"			
VUS04Mx04F NPTF	Stainless Steel	1/4" NPTM x 1/4"			
VUS06Mx06F NPTF	Stainless Steel	3/8" NPTM x 3/8"			
VUS08Mx08F NPTF	Stainless Steel	1/2" NPTM x 1/2"			