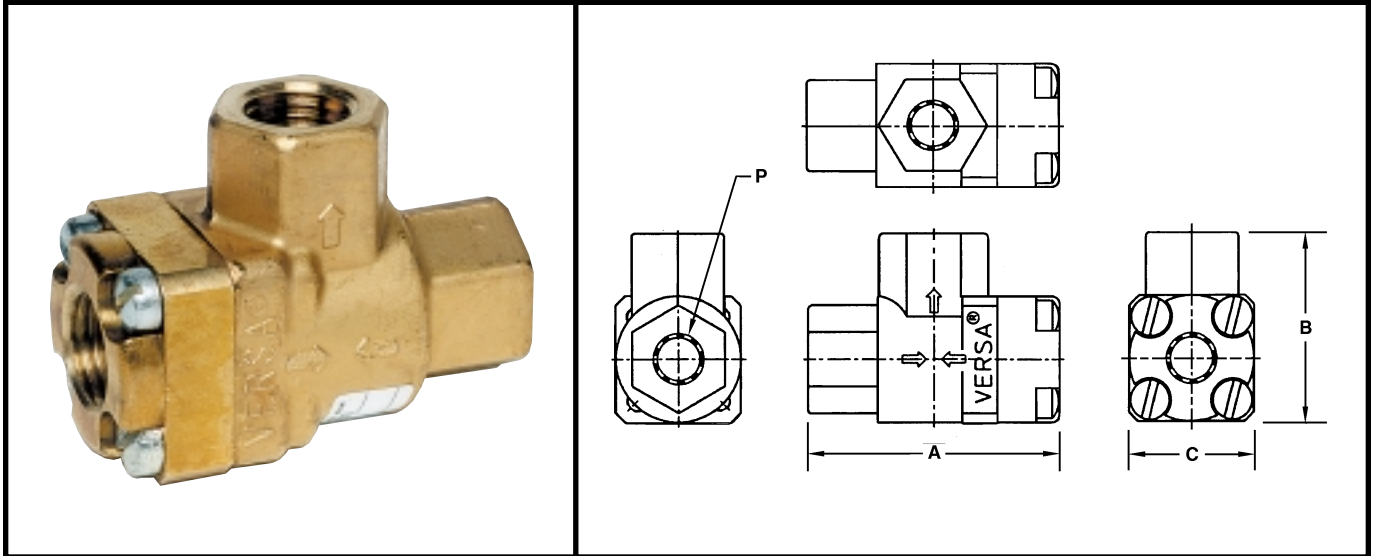


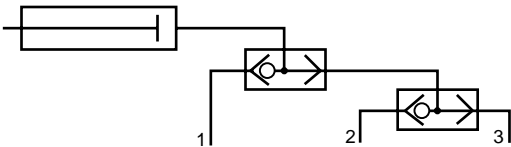
# SHUTTLE VALVES

a range of Shuttle Valves in different sizes, made from Brass or 316 Stainless Steel



## General Description

VERSA Shuttle Valves are constructed of solid Brass or 316 Stainless Steel, with resilient seals providing tight shut off. Shuttle valves are 3/2 valves, primarily used to charge and discharge a pressure line or chamber from two - or more - sources. A typical schematic is shown below:



## Materials

Type:	Brass	Stainless Steel
Body:	Brass	316 Stainless Steel†
Shuttle:	Nylon(Zytel)	316 Stainless Steel†
Seals:	NBR (Nitrile)	FKM (Fluorocarbon)
Screws:	Plated Steel	316 Stainless Steel†

## Functional Description

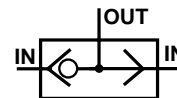
Shuttle Valves have a free moving shuttle that blocks one of two inlet ports while the other inlet port is connected to the (common) outlet port. When a pressure signal enters the port blocked by the shuttle, it will cause the shuttle to shift over to close the opposite inlet port. The shuttle will stay there while the line or chamber connected to the outlet port is charged and/or discharged and will only shift when pressure is applied to the inlet port it is blocking at that time.

In logic terms a shuttle valve is an 'OR' - function.

## Pressures

Pressure range– Pneumatic: 5 to 200 psi (0.35 to 14 bar)  
Hydraulic: 5 to 500 psi (0.35 to 35 bar)

## Symbol



## Mounting

Preferably with the centerline of the two inlet ports horizontal. As shown in the drawing above.

## Sizes/Connections/Types/Dimensions/Weights

*Porting 'P'	Product Number		Dimensions in inch (mm)			Flow Cv (Kv)		Weights in lbs (kg)	
	brass	st. steel	'A'	'B'	'C'	brass	st. steel	brass	st. steel
1/4 NPT	SV-3	SV-3-316	2.0 (51)	1.5 (38)	1.0 (25)	0.8 (12)	0.5 (7)	0.57 (0.26)	0.33 (0.15)
3/8 NPT	SV-4		2.5 (64)	1.9 (48)	1.3 (32)	1.6 (23)		1.10 (0.50)	
1/2 NPT	SV-5		2.5 (64)	1.9 (48)	1.3 (32)	2.1 (30)		1.10 (0.50)	
3/4 NPT	SV-6		3.5 (89)	2.8 (70)	1.5 (38)	6.5 (84)		2.16 (0.98)	

\* For Subplate Mounting Shuttle Valves Consult Factory

† conforms to NACE standard MR-01-75