### **General Description**

Series 300 and 700 are 2, 3, and 4-way plug valves which can handle a variety of media. Series 300 contains a self-lubricating PTFE plug. Series 700 features a metal plug which requires lubrication. The different valve configurations allow for shut off or the selection of a particular flow pattern.

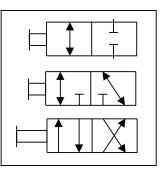
#### Features

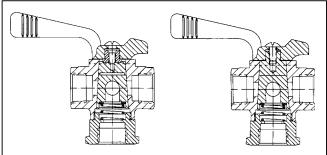
- PTFE plug design requires no lubrication and is ideal for sampling applications.
- Wide selection of flow patterns available.
- Metal plug available with a wide range of lubricants for most applications.

### Specifications

	1							
Service App.	Liquid and air							
Pressure Range	Liquid: 6.2 E Air: 3.5 E							
Internal Leakage	Liquid: Zero Air: 1 bubble in 4 seconds at 3.5 Bar (50 PSI)							
Sizes	See chart							
Ports	NPTPipe threadsFLDFlared Tube Connection SAE 37							
Mounting	Flanged							
Material	Series 300: Body	Brass, aluminum alloy, stainless steel						
	Plug	Stainless steel impregnated PTFE						
	Spring	Stainless steel						
	Handle	Die cast aluminum alloy						
	Series 700: Body	Brass with brass plug; aluminum alloy with stainless steel plug; stainless steel with stainless steel plug						
	Spring	Stainless Steel						
	Handle	Die cast aluminum						
Temperature Range	Series 300: Non-operating:	-40°C to +121°C (-40°F to +250°F)						
	Operating:	-18°C to 71°C (0°F to +160°F)						
	Series 700:	0°C to +71°C (32°F to +160°F)						







### **CV** Factor

Size ar	id Dash No.	1/8 4	1/4 6	3/8 8	1/2 10	3/4 12
Max.	Alum. Alloy	.13	.25	.50	.62	.75
Weight	Brass	.25	.43	1.00	1.50	1.75
Lbs.	Stainless Steel	.37	.75	1.25	1.62	1.87
CV	Inline	1.00	2.00	5.00	9.00	16.00
Factor	Angle	.60	1.00	2.70	5.00	8.60

#### NOTE:

Each plug and body assembly is individually ground and lapped for perfect fit. Plugs and bodies are not replaceable or interchangeable in the field. Most plug valves, other than 2-way, have port interflow when turning handle. If interflow is a problem, consult our technical department.

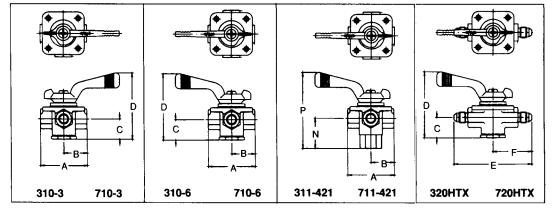
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## **Ordering Information**

310-3									-1/4	B
Catalog Number		Number ofType PortingSizes andTypePortsABCMaterials	Handle	Flow	Size	Materials				
	Туре		Α	В	С	Materials	Turns	Patterns		
310-3 or —	Flanged Inline	3	NPT		-	1/4B	90°	()	See Available	B Brass
710-3	Flanged Inline	3	NPT	-	-	1/4B, 1/8D	90°		Sizes	
310-6 or	Flanged Inline	4	NPT			1/4B	90°		from Chart	D Aluminum
710-6	Flanged Inline	4	NPT	-	-	1/2B, 1/4B, 3/4B	90°	the the		Alloy
311-421 or 711-421	Flanged Inline Plus Bottom Port	4 + Bottom	NPT	-	NPT	1/4B	360°	( I I I I I I I I I I I I I I I I I I I		Stainless Steel
313-23	Flanged Inline Plus Bottom Port	2 + Bottom	NPT	-	NPT	3/4B	90°			
320HTX	Flanged Inline	2	FLD	FLD	_	855	90°			





All Dimensions are in Inches															
Tube	Pipe	A	В	C	D	E	F	G	H	J	K	L	M	N	P
Size	Size														
4	1/8"	1-7/16	23/32	47/64	2-9/32	2-5/8	1-5/16	1-13/16	.884	.687	6-32	3/16	11/32	1-1/16	2-39/64
6	1/4"	1-7/8	15/16	13/16	2-41/64	3-1/8	1-9/16	2-1/4	1.193	.937	10-32	3/16	7/16	1-13/64	3-1/32
8	3/8"	2-1/4	1-1/8	1-3/64	3-3/16	3-5/8	1-13/16	2-11/16	1.458	1.187	10-32	9/32	9/16	1-15/32	3-39/64
10	1/2"	2-1/2	1-1/4	1-9/64	3-15/32	4-1/4	2-1/8	3-1/8	1.724	1.406	1/4-28	1/4	5/8	1-23/32	4-3/64
12	3/4"	2-15/16	1-15/32	1-21/64	3-31/32	4-9/16	2-9/32	3-9/16	1.856	1.625	1/4-28	1/4	3/4	1-31/32	4-39/64

**Service Note:** Valves taken from stock, or valves not used for some time, may be hard to turn. This condition is due to drying out of the lubricant. The plug may be loosened by squeezing the valve carefully in a vise, pressing against the center screw in the handle. Turning the handle several times will free-up the plug. If necessary, disassemble the valve, wash off all the old lubricant, and re-lubricate the valve using only a small quantity of the proper lubricant.

# CAUTION - DO NOT USE ANY OF THE ABOVE IN LIQUID OXYGEN SYSTEMS.

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