

"V"-Ring Seal Globe and Angle Valves for Bulk Storage Containers, Transports, Bobtails and Plant Piping A7500 Series and TA7500 Series

Application

Specifically designed to ensure positive shut-off and long, maintenance free service life in liquid or vapor service on bulk storage containers, transports, bobtails, cylinder filling plants and plant piping.

The high quality construction and wide variety of sizes make them highly suited for use with LP-Gas, anhydrous ammonia and in the chemical and petrochemical industries.

Features

- "V"-ring spring-loaded pressure stem seal provides for leak-proof operation. No packing to retighten or replace.
- Circular bridge in the globe design and a dropped seat in the angle design achieve greater flow with less pressure drop.
- Swivel seat disc assembly minimizes the seat disc from grinding on the body seat. The seat disc stops rotating as soon as it touches the body seat. This feature provides for good seat alignment and ensures long seat life.
- ¼" F. NPT plugged boss on the downstream side of the valve body allows attachment of a hydrostatic relief valve or vent valve.
- "V"-ring stem seal virtually eliminates hard to turn handles frequently encountered with packed type seals.
- Heavy duty rolled ACME stem threads provide quick action and long service life.

Materials

Body Ductile Iron
 Bonnet (7034, 7505-7508)..... Steel
 Bonnet (7509-7518)..... Ductile Iron
 Valve Stem Stainless Steel
 Wiper Ring..... Synthetic Rubber
 Seat Disc..... See Ordering Chart
 "V"-Rings Teflon
 Handwheel..... Ductile Iron
 Spring Stainless Steel



A7518FP



TA7034



A7505AP



A7514AP



A7513AP



A7517AP



A7517FP

Ordering Information

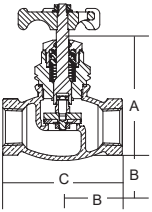
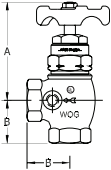
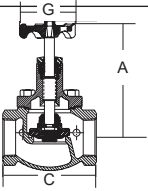
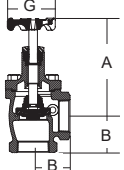
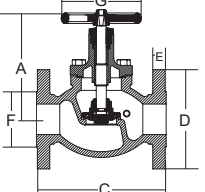
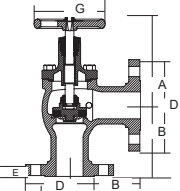
Part Number				Inlet and Outlet Connection	Port Diameter	Flow at 1 PSIG Pressure Drop (Cv) (GPM/Propane)***		Accessories	
Buna N Seat Discs		Teflon Seat Discs*				Globe	Angle	Hydrostatic Relief Valve	Vent Valve
Globe	Angle	Globe	Angle						
-	-	TA7034P	TA7034LP	½" F. NPT	¾"	10.0	14.8	SS8001U	TSS3169
A7505AP	A7506AP	TA7505AP	TA7506AP	¾" F. NPT		12.0	17.7		
A7507AP	A7508AP	TA7507AP	-	1" F. NPT	1"	17.8	22.0		
A7509BP	A7510BP	TA7509BP	TA7510BP	1¼" F. NPT	1¼"	36.5	54.0		
A7511AP	A7512AP	TA7511AP	TA7512AP	1½" F. NPT	1½"	43.0	55.5		
A7511FP	-	TA7511FP	-	1½" Flange**		46.0	-		
A7513AP	A7514AP	TA7513AP	-	2" F. NPT	2"	75.0	88.5		
A7513FP	A7514FP	TA7513FP	TA7514FP	2" Flange**		78.0	133.0		
A7517AP	A7518AP	TA7517AP	-	3" F. NPT	3½"	197.0	303.0		
A7517FP	A7518FP	TA7517FP	-	3" Flange**					

* Teflon seat discs on valves built to order.

** 300# ANSI R.F. Flange.

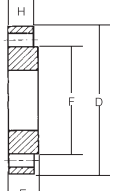



*** To obtain approximate flow at other than 1 PSIG pressure drop, multiply flow in chart by square root of pressure drop. Example: 7514FP @ 9 PSIG = 133 x 9 = 399 GPM/propane. For NH₃ flow, multiple propane flow by .90.

Globe and Angle Valve Dimensions

Drawing	Valve Number (A or TA Prefix)	Inlet & Outlet	Port Diameter	Dimensions						
				A	B	C	Flanges			G
							D	E	F	
	7034P	1/2" F. NPT	3/4"	4 3/4"	-	3 1/16"	-	-	-	-
	7505AP	3/4" F. NPT				3 1/16"				
	7507AP	1" F. NPT	1"			4 5/16"				
	7034LP	1/2" F. NPT	3/4"	-	1 3/4"	-	-	-	-	
	7506AP	3/4" F. NPT			1 3/4"					
	7508AP	1" F. NPT	1"		2"					
	7509BP	1 1/4" F. NPT	1 1/4"	7 41/64"	-	4 7/8"	-	-	-	-
	7511AP	1 1/2" F. NPT	1 1/2"	6 3/4"		5 5/16"				
	7513AP	2" F. NPT	2"	7 7/16"		5 7/8"				
	7517AP	3" F. NPT	3 3/8"	13 1/4"		9"				
	7510BP	1 1/4" F. NPT	1 1/4"	6 3/4"	2 1/4"	-	-	-	-	5 1/4"
	7512AP	1 1/2" F. NPT	1 1/2"	6 13/16"	2 7/16"					
	7514AP	2" F. NPT	2"	7 7/16"	2 11/16"					
	7518AP	3" F. NPT	3 3/8"	11 1/4"	4"					
	7511FP	1 1/2" Flange	1 1/2"	7 9/16"	-	7 1/2"	6 1/8"	3/4"	2 7/8"	5 1/4"
	7513FP	2" Flange	2"	8 7/16"		8 1/2"	6 1/2"	1 3/16"	3 5/8"	
	7517FP	3" Flange	3 3/8"	13 1/4"		11 1/8"	8 1/4"	1 1/8"	5"	
	7514FP	2" Flange	2"	7 1/2"	5 1/4"	-	6 1/2"	1 3/16"	3 5/8"	5 1/4"
	7518FP	3" Flange	3 3/8"	11 1/4"	6 1/4"		8 1/4"	1 1/8"	5"	9"

NOTE: Regarding 7505AP through 7510BP — the thread used for assembling the bonnet to the body of the valve is a left hand thread. We advise our customers to be cognizant of this assembly design in attempting to remove the bonnets of these valves in order to avoid serious damage to the valves.

Flange Dimensions

	Valve Number (A or TA Prefix)	Size		Flange Drilling	D	E	F	H
	7511FP	1 1/2"		7/8" Bolt Holes on a 4 1/2" Bolt Circle Diameter	6 1/8"	1 3/16"	2 7/8"	3/4"
	7513FP	2"		3/4" Bolt Holes on a 5" Bolt Circle Diameter	6 1/2"	7/8"	3 5/8"	1 3/16"
	7514FP							
	7517FP	3"		7/8" Bolt Holes on a 6 5/8" Bolt Circle Diameter	8 1/4"	1 1/8"	5"	1 1/8"
	7518FP							

* Reducing screwed flanges are available for reducing 1 1/2" flange to 1 or 1 1/4" pipe thread and 3" flange to 2 1/2" pipe thread. Order from your local piping supplier.