"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

UL LISTED

A7518FP

TA7034

A7505AP

A7513AP

A7514AP

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*						Hydrostatic Relief Valve	Vent Valve
Globe	Angle	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	3⅛"	197.0	303.0		
A7517FP	A7518FP	TA7517FP	-	3" Flange**					

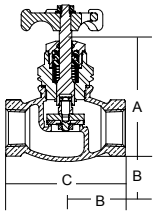
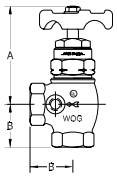
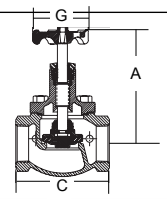
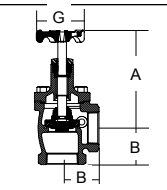
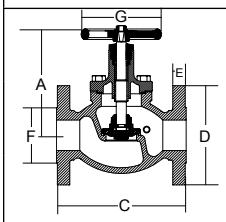
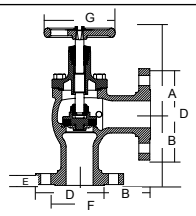
* Teflon seat discs on valves built to order.

* * 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 $\sqrt{9}$ = 399 GPM/propane. For NH_3 flow, multiple propane flow by .90.

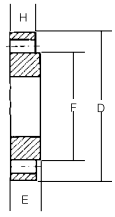
REGO 100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com +1 (336) 449-7707

Globe and Angle Valve Dimensions

Drawing	Valve Number (A or TA Prefix)	Inlet & Outlet	Port Diameter	Dimensions						
				A	B	C	Flanges D	Flanges E	Flanges F	G
	7034P	½" F. NPT	¾"	4¾"	-	3 11/16"	-	-	-	-
	7505AP	¾" F. NPT								
	7507AP	1" F. NPT	1"			4 5/16"				
	7034LP	½" F. NPT	¾"		1¾"	-				
	7506AP	¾" F. NPT								
	7508AP	1" F. NPT	1"		2"					
	7509BP	1¼" F. NPT	1¼"	7 41/64"	-	4⅞"	-	-	-	-
	7511AP	1½" F. NPT	1½"	6¾"		5 3/16"				
	7513AP	2" F. NPT	2"	7 5/16"		5⅞"				
	7517AP	3" F. NPT	3⅛"	13¼"		9"				9"
	7510BP	1¼" F. NPT	1¼"	6¾"	2¼"	-	-	-	-	5¼"
	7512AP	1½" F. NPT	1½"	6 13/16"	2 7/16"					
	7514AP	2" F. NPT	2"	7 5/16"	2 11/16"					
	7518AP	3" F. NPT	3⅛"	11¾"	4"					9"
	7511FP	1½" Flange	1½"	7 9/16"	-	7½"	6⅛"	¾"	2⅞"	5¼"
	7513FP	2" Flange	2"	8 7/16"		8½"	6½"	13/16"	3⅝"	
	7517FP	3" Flange	3⅛"	13¼"		11⅛"	8¼"	1⅛"	5"	9"
	7514FP	2" Flange	2"	7½"	5¼"	-	6½"	13/16"	3⅝"	5¼"
	7518FP	3" Flange	3⅛"	11¾"	6¼"		8¼"	1⅛"	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

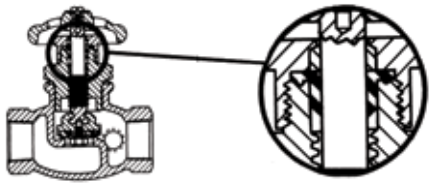
	Valve Number (A or TA Prefix)	Size	Flange Drilling	D	E	F	H
	7511FP	1½"	⅞" Bolt Holes on a 4½" Bolt Circle Diameter	6⅛"	13/16"	2⅞"	¾"
	7513FP	2"	¾" Bolt Holes on a 5" Bolt Circle Diameter	6½"	⅞"	3⅝"	13/16"
	7514FP						
	7517FP	3"*	⅞" Bolt Holes on a 6⅝" Bolt Circle Diameter	8¼"	1⅛"	5"	1 1/16"
	7518FP						

* Reducing screwed flanges are available for reducing 1½" flange to 1 or 1¼" pipe thread and 3" flange to 2½" pipe thread. Order from your local piping supplier.

Flange Seal Globe and Angle Valve Information

General Information

Globe and Angle Valves, incorporating the synthetic rubber flange seal design, operate on the same principle as the "V"-ring valves. Gas pressure in the valve is exerted against the synthetic rubber flange, forcing it tightly against the stem.



Leak-tight performance is assured and periodic adjustment is not required. The synthetic rubber construction provides smooth operating performance with long service life.
These valves all incorporate a plugged ¼" NPT side boss on the downstream side of the valve that can be equipped with a hydrostatic relief valve or vent valve.

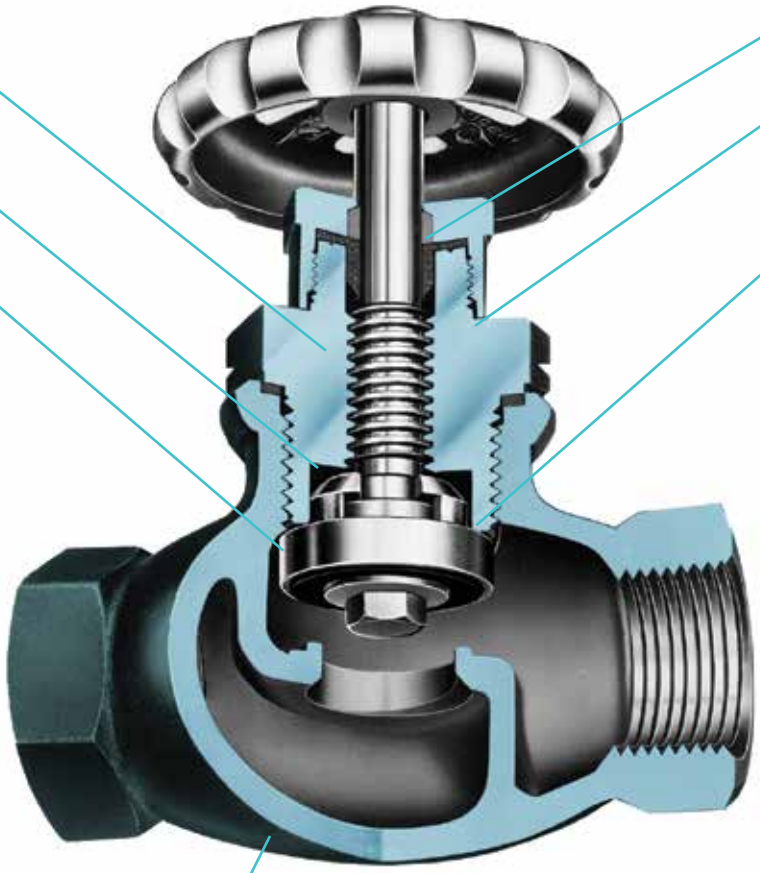
Please be familiar with the "Installation and Operation Note" and "Downstream Accessory Boss" section of the "V"-ring valve design general information before ordering these valves.

General Features

Rugged quick-acting ACME threads on stem. Threads are under flange ring . . . dust, sand and grit can't reach them.

Swivel seat cannot grind during valve opening or closing.

Synthetic Rubber Seat Disc



Nylon bearing surrounds stem to prevent galling.

Rubber flange ring stem seal effectively prevents gas escape. The higher the pressure, the tighter the seal.

Metal to metal back seat permits replacement of flange ring with valve in service.

Valve body made of shell molded ductile iron. Highly resistant to cracking or fracturing from wrenching, dropping or hammer blows. Bonnet and seal cap are steel on "A" prefix valves.

E