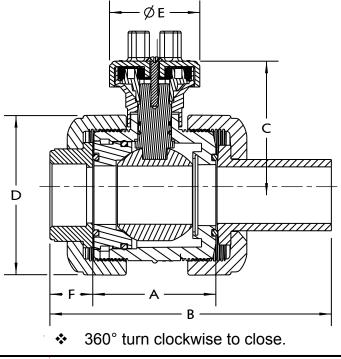
Submittal Drawing: Metric HP-SC Series Thermoplastic True Union Ball Valve with HDPE X PVC End Connectors

Designed for turf irrigation, and many other applications. Patented gear drive thermoplastic handle mechanism allows for a 360° rotation of the handle to achieve a 90° turn of the ball. This gradual open/close actuation greatly reduces the opportunity for shock or hammer experienced by the sudden open/closure of a standard quarter-turn ball valve.

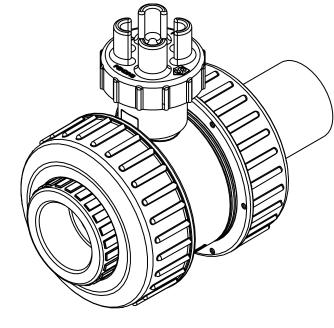
- Handle features a cross to accept standard sprinkler key wrench (or Lasco plastic Valve Key 1) for buried service actuation.
- Follow published guidelines to de-rate pressure for elevated process temperature. Avoid prolonged exposure to direct sunlight during installation.
- Slo-Close valves are designed for use in the Open or Closed position. Moderate throttling (valve closed slightly) has been successful in systems with low flow rates such as in geoexchange systems. Throttling is not recommended for Heavy-Turf Irrigation or other systems with high flow rates, • End connectors are HDPE spigot ends meeting DR11 dimensions and PVC DIN socket. as it can result in cavitation of the valve interior or seat-damage. The maximum recommended flow rate through any Colonial Valve product is five • Dual Stem o-rings for extra protection against leaks. feet per second.
- HDPE Spigot ends are to be joined to HDPE socket-fusion or electro-fusion fittings, compression adapters, or butt-fused to HDPE pipe, following equipment manufacturers' recommendations. For butt fusion, the system must be designed/installed to allow for thermal expansion and contraction by use of directional changing fittings (Tees, Elbows) both upstream and downstream from the valve. The distance from the valve to a directionalchanging fitting should not exceed eight (8) feet. Support manife assemblies as required to allow for thermal expansion without ex stress on the valve union ends.

- In buried applications, valves should be installed such that the centerline of the is a minimum of 18" below grade. We recommend a double valve box allowing access to the union nuts to facilitate simple future maintenance or repair.
- Full port design same I.D. as Sch 80 pipe minimizes turbulence at high flow rates
- Replaces brass or bronze gate valves for irrigation uses.
- Thermoplastic construction eliminates process and atmospheric corrosion.
- True Union End Connectors allow for easy and guick removal from line.
- Floating ball design for positive seal.
- Repairable: A complete inventory of repair parts is readily available.
- Assembled in USA.



	nifold t excess	ive	1			
Dimensions (mm):						
	63mm	90mm				
Α	106.38	148.59	D 			
В	295.7	315.47				
С	140.7	177.80				
D	134.6	184.15				
Е	73.15	73.15				
F	45.21	49.28				

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cla all an ke sh	ue Union Bassification 1 owing for a 3 d shall be ac y wrench. V all have two OM material.	2454 360° rectivate alve do-ring End	material. otation of the dimanuall orings shades. Valve to connector
			SLO-OPI TRUE UN (METRIC H DESMINED BY MB



Size	Model	Material	Pressure Rating
63	V63101HP-SC	PVC/EPDM	160 psi, non-shock water at 73 Deg F.
90	V90101HP-SC	PVC/EPDM	150 psi, non-shock water at 73 Deg F.

[Also see Colonial Full Block® True Union Ball Valve 101N Series for a complete size range of standard quarter-turn valves, manual or automated.]

ications:

be produced of PVC Type I, cell Valve handle shall have a gear-mechanism the handle to achieve a 90° turn of the ball Illy by hand or by use of a standard sprinkler all be made of EPDM material. Valve stem seats shall be produced of Teflon® and rs shall be of ASTM 3408 material and IN socket Colonial HP-SC Series® TUBV

aı	and FVC Din socket. Colonial HF-3C Series TOBV.				
	SLO-OPEN / SLO-CLOSE TRUE UNION BALL VALVE (METRIC HDPE X PVC ENDS)		Colonial ENGINEERING INC.		
	MB MB	DWG SZZE B	COLONIAL ENGINEERING, INC 6400 Corporate Ave Portage, MI 49002		
	EJL	1 OF 1	This drawing is the property of Colonial Engineering. It is furnished to you for confidential information purposes only and is not to be disclosed to anyone else or reproduced or used for manufacturing purposes without the express written permission of Colonial Engineering		
	REVIEWED BY MB	SCALE -	K29004M		
	6-15-15	INCH	KZ9004/VI		

