

- Full port design - same I.D. as Sch 80 pipe minimizes turbulence at high flow rates.
- PVC with EPDM O-rings and PTFE seats.
- 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 directional-changing fitting should not exceed eight (8) feet.
- End connectors are HDPE spigot ends meeting DR11 dimensions and PVC Sch 80 socket.
- **Alternative to brass or bronze gate valves for irrigation uses.**
- Thermoplastic construction eliminates process and atmospheric corrosion.
- True Union End Connectors allow for easy and quick removal from line.
- Dual Stem o-rings for extra protection against leaks.
- Repairable: A complete inventory of repair parts is readily available.
- Assembled in USA.
- 3 – Year Limited Warranty
- Handle features a cross to accept standard sprinkler key wrench (or Lasco plastic key Valve Key-1) for buried service actuation.



Part Number:
Valve Key-1



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.



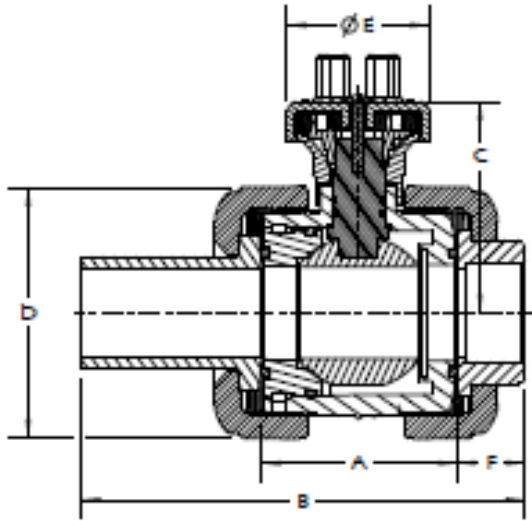
R-Series also available with purple operating-nut / handle for use with Reclaimed Water (see part numbers on opposite page)



Available through:

LASCO[®]
Fittings, Inc.

Revised 1/7/21



GPM of water at 1 psi pressure drop, calculated from Hazen-Williams equation.

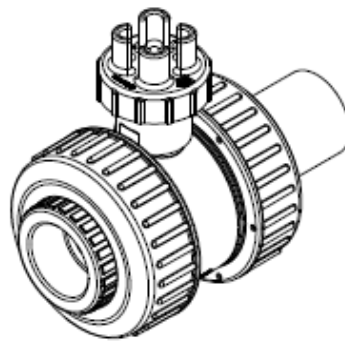
Size	Cv
2"	480
3"	1348

De-rate pressure for elevated process temps per the chart below:

Temp (°F)	PVC
73	1.00
80	0.88
90	0.75
100	0.62
110	0.50
120	0.40
130	0.30
140	0.22
150	NR

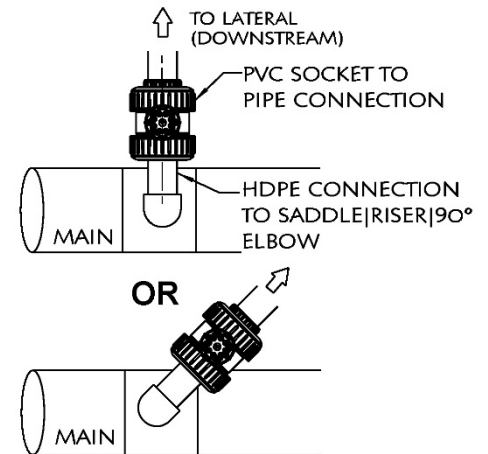
Dimensions (in.)

	2"	3"
A	4.20	5.85
B	11.64	12.42
C	5.54	7.00
D	5.30	7.25
E	2.88	2.88
F	1.78	1.94



Pressure Rating	
2"	160 psi, non-shock water at 73° F
3"	150 psi, non-shock water at 73° F

Recommended Installation Layout



PART NUMBERS FOR VALVES

	Material	Part Number	"R" Series with Purple operating nut for Reclaimed water
2"	HDPE x PVC SOCKET	V20101HP-SC	V20101HP-SC-R
2"	HDPE x PVC FIPT	V20111HP-SC	V20111HP-SC-R
3"	HDPE x PVC SOCKET	V30101HP-SC	V30101HP-SC-R
3"	HDPE x PVC FIPT	V30111HP-SC	V30111HP-SC-R

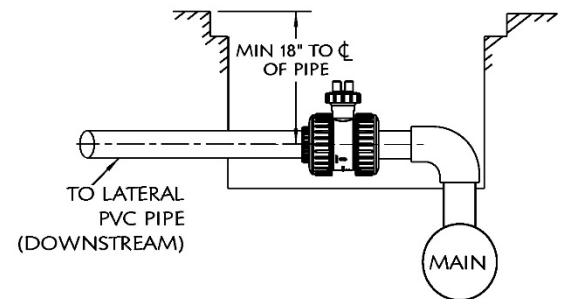
Sample Engineering Specifications:

True Union Ball Valves shall be produced of PVC Type 1, cell class 12454. Valve handle shall have a gear mechanism allowing for a 360° rotation of the handle to achieve a 90° turn of the ball, and shall be activated manually by hand or by use of an approved key wrench. O-rings shall be made of EPDM material. Valve stem shall have two O-rings. Valve seats shall be made of PTFE and POM material. End connectors shall be of ASTM 3408 material and DR 11 dimensions and PVC Sch 80 Socket or Female NPT. Valves shall have a pressure rating of 160 psi (2") and 150 psi (3"), non-shock water at 73° F. **LASCO / Colonial HP-SC Series TUBV.**

Installation precautions:

- Colonial recommends a minimum installation distance of 10 x the pipe diameter from a pump or other source of turbulence.
- Slo-Close Valves are designed for use in the Open or Closed position. Moderate throttling has been successful in systems with LOW flow rates (< 3 ft per second) such as in geoechange systems. Throttling is not recommended for Heavy-turf irrigation or other systems with high flow rates.
- The maximum recommended flow rate for any Colonial Valve product is 5 feet per second.
- Follow published guidelines to re-rate pressure for elevated process temperature. Avoid prolonged exposure to direct sunlight during and after installation.
- Proper pipe alignment must be maintained. Union nuts should be hand-tightened for proper O-ring sealing.
- In buried applications, valves should be installed such that the centerline of the pipe 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.

Recommended Burial Depth



Do not use with compressed air or gas.

CUSTOMER SERVICE: 6400 Corporate Ave., Portage, MI 49002
Toll-free (800)374 0234, Phone (269)323 2495, Fax (269) 323 0630 www.colonialengineering.com

