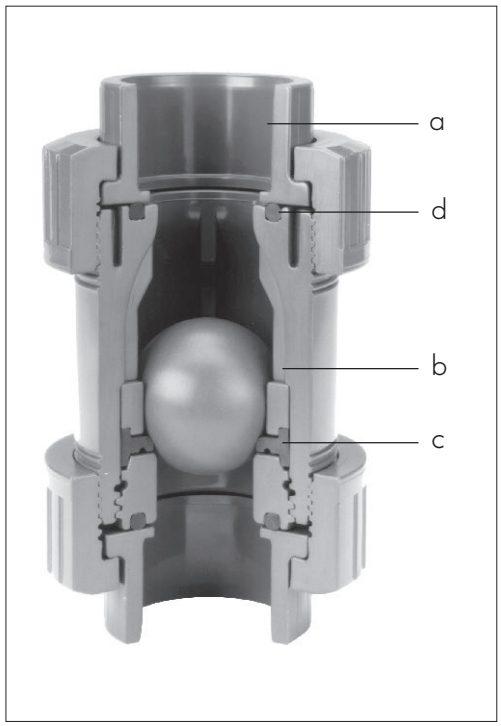
George Fischer Ball Check Valve Type 360



- **Flow characteristics through the Type 360 Ball Check Valve are excellent**
- **When combined with the George Fischer Type 050 screen, the Ball Check Valve can be converted to a Foot Valve**
- **Good sealing properties with low head pressures (3 foot min. head preferred)**

General

The George Fischer Type 360 Ball Check Valve is used to automatically stop flow in the back direction when the fluid in the line reverses. The valve closes by the deadweight of the ball when vertically mounted.
The true union end connections (available in sizes 3/8" – 2" only) allow removal of the valve from the line for replacement of the seals. The design also eliminates the expense of a union and nipple to provide access to the valve.

Installation Note

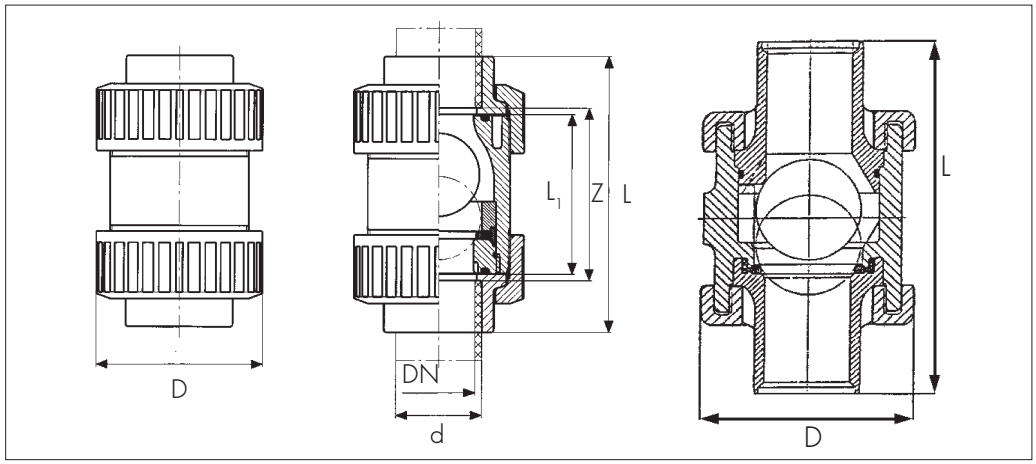
We recommend that the line fluid velocity should not exceed 6.5 ft./second (2 m/sec.). For higher velocities the George Fischer Y-Check valve Type 304 should be used.

Technical Features

a) Available with socket, threaded, or butt fusion end connections in sizes 3/8" through 2", and spigot ends for the 3" size in PVC.
b) Ball cage molded into body.
c) Single elastomeric seal serves as ball seat and seal for external closure.
d) Constructed of PVC, CPVC, polypropylene, or SYGEF-PVDF with the option of EPDM or FPM seals.

Dimensions for Type 360 Ball Check Valve

PVC and CPVC

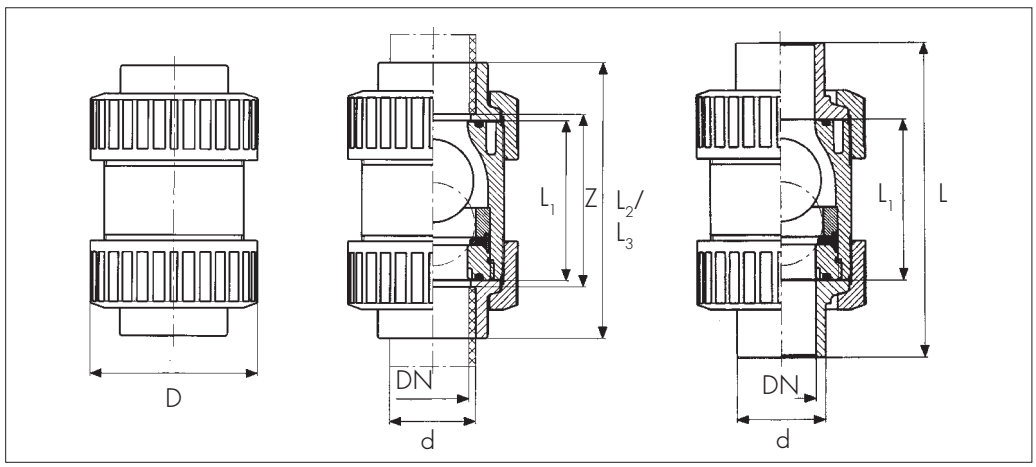


Z Solvent cement socket valve (laying length)*

*Z** Threaded valve (laying length is herein defined as the dimension between the ends of pipe when threaded into valve to a depth equal to the nominal "Handtight" plus 1/2 turn)*

Inch size	L inch socket	thrd	L inch	Z* inch	Z** inch	D inch	Weight lbs.
3/8	4.45	4.14	2.48	2.93	3.61	1.81	.27
1/2	4.49	4.17	2.48	2.70	3.46	1.81	.27
3/4	5.18	4.75	2.95	3.15	4.00	2.20	.45
1	5.62	5.30	3.11	3.34	4.41	2.64	.70
1-1/4	6.58	5.91	3.50	4.05	4.98	3.23	1.16
1-1/2	6.76	6.42	3.74	3.98	5.49	3.86	1.85
2	7.97	7.76	4.53	4.95	6.80	4.72	3.30
3 (spigot)	11.81	—	—	—	—	7.09	10.8

Polypropylene and SYGEF-PVDF



L Overall lenght of butt fusion valve

L_2 Overall length of metric fusion socket valve

L_3 Overall length of threaded valve

Z Metric fusion socket valve (laying length)*

*Z** Threaded valve (laying length is herein defined as the dimension between the ends of pipe when threaded into valve to a depth equal to the nominal "Handtight" plus 1/2 turn)*

OD d mm	ID DN mm	L inch	L_2 inch	L_3 inch	L_1 inch	Z* inch	Z** inch	D inch	Weight lbs. PP	Weight lbs. SYGEF	Inch size
16	10	—	3.86	4.37	2.44	2.83	3.48	1.81	.17	.34	3/8
20	15	5.12	3.98	4.37	2.44	2.87	3.31	1.81	.17	.34	1/2
25	20	5.67	4.69	5.12	2.91	3.43	3.88	2.20	.30	.58	3/4
32	25	5.91	5.12	5.51	3.07	3.70	4.30	2.64	.45	.87	1
40	32	6.73	5.87	6.50	3.46	4.29	5.19	3.23	.84	1.46	1-1/4
50	40	7.52	6.38	6.57	3.70	4.57	5.12	3.86	1.35	2.30	1-1/2
63	50	8.66	7.68	7.83	4.45	5.55	6.28	4.72	2.46	4.32	2

Product Specifications

Type 360 Ball Check Valve – PVC

Ball check valves 3/8" through 2" shall be of true union design with either solvent cement socket or threaded pipe connections. Body interior to have molded ribs to serve as a cage and ball guide to assure proper seating. Valve may be equipped with a screen to create a foot valve. Solvent cement socket pipe connection dimensions shall conform to ASTM D-2467. Threaded pipe connections shall be in accordance with ASTM D-2464 which references ANSI B1.20.1 (was B2.1) for tapered pipe threads. Seat and seals may be either EPDM or FPM as specified by user. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. PVC material shall meet or exceed the requirements of 12454B of ASTM D-1784. The valve, Type 360, shall carry a pressure rating of 232 psi at 68°F for solvent cement socket end connectors, and 150 psi at 68°F for threaded end connections, as supplied by George Fischer, Inc. Tustin, CA 92780.

Type 360 True Union Ball Check Valve – Polypropylene

Polypropylene true union ball check valves 3/8" through 2" (16 mm – 63 mm) shall have either IR butt fusion, metric fusion socket or threaded type pipe connections. Seals shall be EPDM or FPM. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. Material shall meet or exceed the requirements of ASTM D 4101 as pertains to a type I homopolymer compound having a minimum tensile strength of 4350 psi/300 bar at 73°F/20°C when tested in accordance with ASTM D 638 and shall have a melt point which initiates at 316°F/158°C. The melt flow index (at 374°F/190°C/50 N) shall be 0.4 –0.8 grams per 10 minutes in accordance with ASTM D 1238. End connections shall be as outlined in ASTM D 2657 for fusion socket joining, and shall be compatible with metric pipe and fittings as manufactured by George Fischer, Inc. Threaded end connections shall be in accordance with ASTM D 2464 which references ANSI B 1.20 (was B 2.1) for tapered pipe threads. The valve, Type 360, shall carry a pressure rating of 232 psi at 68°F for fusion socket and butt fusion end connectors, and 150 psi at 68°F for threaded end connections, as supplied by George Fischer, Inc., Tustin, CA 92780.

Type 360 True Union Ball Check Valve – PVDF

PVDF true union ball check valves 16 mm – 63 mm shall have either metric fusion socket or IR butt fusion pipe connections. Seals shall be FPM. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. Material shall meet or exceed the requirements of ASTM D 3222 as pertains to a natural, unpigmented, virgin, noncompounded polyvinylidene fluoride compound having a minimum tensile strength of 7800 psi/538 bar at 73°F/20°C when tested in accordance with ASTM D 638 and shall have a flexural strength of 10,700 psi/738 bar at 73°F/20°C when tested according to ASTM D 790. End connections shall be as outlined in ASTM D 2657 for butt fusion or fusion socket joining, and shall be compatible with metric pipe and fittings as manufactured by George Fischer, Inc. The valve, Type 360, shall carry a pressure rating of 150 psi/10 bar at 68°F/20°C as supplied by George Fischer, Inc., Tustin, CA 92780.

Type 360 True Union Ball Check Valve – CPVC

Ball check valves 3/8" through 2" shall be of true union design with either solvent cement socket or threaded pipe connections. Body interior is to have molded ribs to serve as a cage and ball guide to assure proper seating. Solvent cement socket pipe connection dimensions shall conform to ASTM F 439 (formerly ASTM D 2467). Threaded pipe connections shall be in accordance with ASTM F 437 (formerly D 2464) which references ANSI B1.20.1 (was B2.1) for tapered pipe threads. Seat and seals may be either EPDM or FPM as specified by user. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. CPVC material shall meet or exceed the requirements of 23447-B according to the classifications and requirements of ASTM D 1784. The valve type 360 shall carry a pressure rating of 232 psi at 68°F for solvent cement socket end connectors, and 150 psi at 68°F for threaded end connections, as supplied by George Fischer, Inc., Tustin, CA 92780.