Type 375 Ball Valve

General Characteristics

Double Union Ball Valve - compact type - characterized by an optimal handling (low torque).
Each valve is tested in vacuum conditions and in extremely low pressure, that makes it the ideal valve to be used in industrial plant and with aggressive liquids.

Torque

d	Valve size (inch)	Nm
16-20	3/8-½	0.5
25	¾	1.5
32	1	2.5
40	1¼	5.5
50	1½	7
63	2	10
75	2½	20
90	3	26
110	4-6	28

Max torque at max working pressure

PVC Installation and Use

When gluing the end connector of the pipe, take care to prevent the glue or solvent from coming in contact with the valve seats or ball. Threaded ends should not be connected with cone-shaped male threads and the use of threaded sealant is unnecessary. Special attention should be paid to the correct line-up of the installation and to the pipe length using Z distance. (See spec sheet.) Tighten the union nut handtight only. Do not use a wrench. It is important that the unions are not used to pull the system together. If there is any leakage from the union nuts, please check the correct line-up of the system and the pipe length. Excessive tightening of the unions could break them. Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closures/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thead joining procedure.

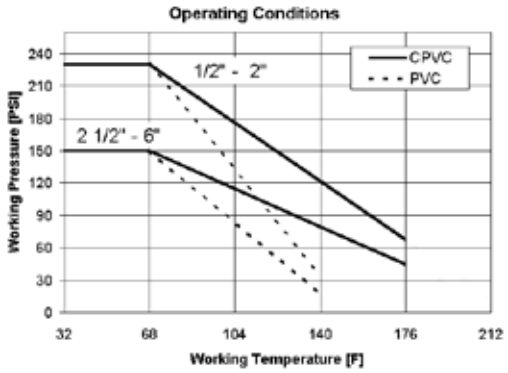
PROGEF® Natural PP Installation and Use

Consult George Fischer Technical Department for GF socket fusion technology instructions.

Max Working Pressure

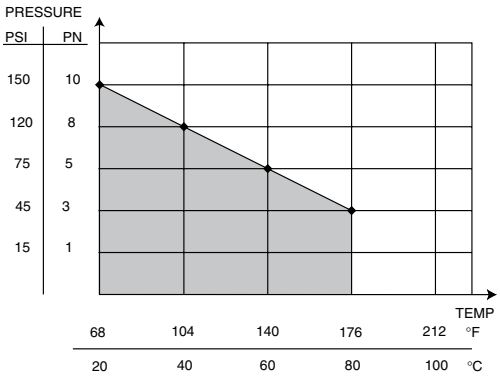
This technical information should be used as a guide. Please consult our Technical Department for specific queries.

Pressure/Temperature PVC and CPVC

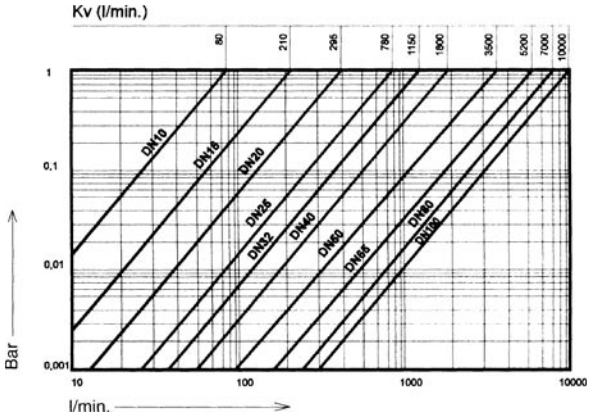


Pressure temperature rating for water. Socket fusion only. Threaded and flanged have a 10 bar (150 psi) maximum rating.

Pressure/Temperature Natural PP



Socket fusion only. Threaded ends are derated. Consult George Fischer for details.



With water at 20°C and the valve in open position

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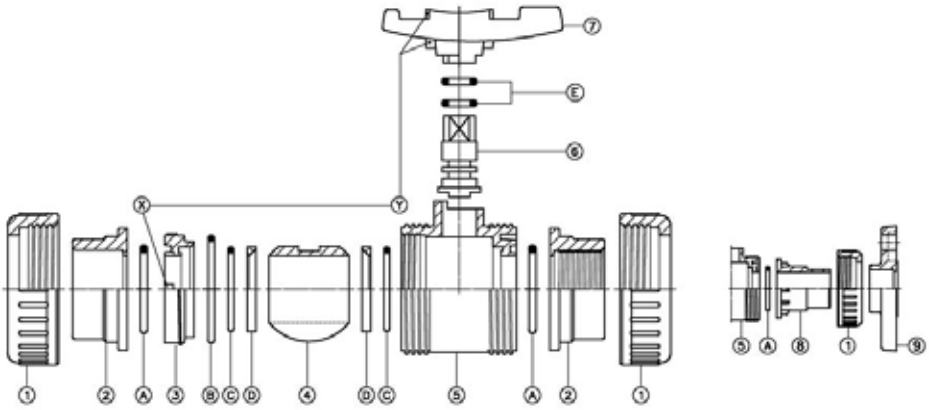
Type 375 Ball Valve



Valve Components

Pos	Components	Qty	Material	
			EPDM	FPM
1	Union nut	2	PVC	PVC
2	End connector	2	PVC	PVC
3	Adjustable support	1	PVC	PVC
4	Ball	1	PVC	PVC
5	Body	1	PVC	PVC
6	Stem	1	PVC	PVC
7	Handle	1	PVC	PVC
8	Male end	2	PVC	PVC
9	Flange	2	PVC	PVC
A	O-ring body	2	EPDM	FPM
B	O-ring support	1	EPDM	FPM
C	O-ring ball	2	EPDM	FPM
D	Ball seal	2	PTFE	PTFE
E	O-ring stem	2	EPDM	FPM

PVC: Polyvinyl chloride (also available in CPVC and PROGEF® Natural PP)
EPDM: Ethylene-propylene
PTFE: Polytetraethylfluorine
FPM: Fluorine-ethylene

Some components may be available for replacement. Contact GF for complete details.

Assembly Instructions

To remove the whole valve body radially from the system, unscrew the union nut ①.

To reach the internal parts of the valve:

1- Set the valve in open position.
2- Pull the handle ⑦ from control stem ⑥.
3- Screw the support ③ of the body ⑤ counter-clockwise, using the two teeth Ⓨ of the handle ⑦.
4- After unscrewing the support ③ and taking out the O-ring Ⓑ which was inside ⑤, it is possible to reach all the internal parts of the valve to check the O-rings and substitute them if necessary.
   - to disassemble the ball ④, turn it using the control stem ⑥, setting it in closed position to withdraw the coupling through the control stem ⑥
   - to disassemble the control stem ⑥ of the body ⑤, push it downward as far as it goes.

To assemble the valve, perform the above steps in reverse order, being careful to set the O-ring properly and lubricate it with silicone grease. Screw threaded support ③ straight to the hand taking care not to block the ball ④.

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GEORG FISCHER
PIPING SYSTEMS

George Fischer, Inc., 2882 Dow Avenue, Tustin, CA 92780-7258
Tel. (714) 731-8800 • Toll Free (800) 854-4090 • Fax (714) 731-6201
e-mail: us.ps@georgfischer.com • www.us.piping.georgefischer.com

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