

Model CV-2 Check Valve 2-1/2, 4, 6, & 8 Inch (DN65, DN100, DN150 & DN200) Vertical or Horizontal Installation

General Description

The Model CV-2 Check Valves are rubber faced, torsion spring loaded, swing type check valves. They are designed for use in fire protection systems and related equipment, where it is necessary to permit flow in one direction and shut off flow in the reverse direction. The torsion spring loading quickens clapper closure and therefore minimizes the water hammer that can be associated with reverse flow.

The CV-2 may be installed either vertically (flow going up) or horizontally and the following are typical applications for its use:

- Maintain supervisory pressure in preaction sprinkler systems.
- Fire pump discharge and by-pass connections.
- Connections from public water supplies to automatic sprinkler systems.
- Gravity and pressure tank connections.

The Model CV-2 Check Valve is a re-designation for the Gem Model F52/F520/F5201 Check Valve.

WARNING

The Model CV-2 Check Valves described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or manufacturer should be contacted with any questions.



Nominal Valve Size	● End Connection Available		
	Inlet x Outlet		
	Groove x Groove	Flange x Groove	Flange x Flange
2-1/2 Inch (DN65)	● 22 lbs. (10,0 Kg)	● 28 lbs. (12,7 Kg)	N/A
4 Inch (DN100)	● 45 lbs. (20,4 Kg)	● 51 lbs. (23,1 Kg)	● 62 lbs. (28,1 Kg)
6 Inch (DN150)	● 68 lbs. (30,9 Kg)	● 78 lbs. (35,4 Kg)	● 93 lbs. (42,2 Kg)
8 Inch (DN200)	● 129 lbs. (58,6 Kg)	● 148 lbs. (67,1 Kg)	● 167 lbs. (75,8 Kg)

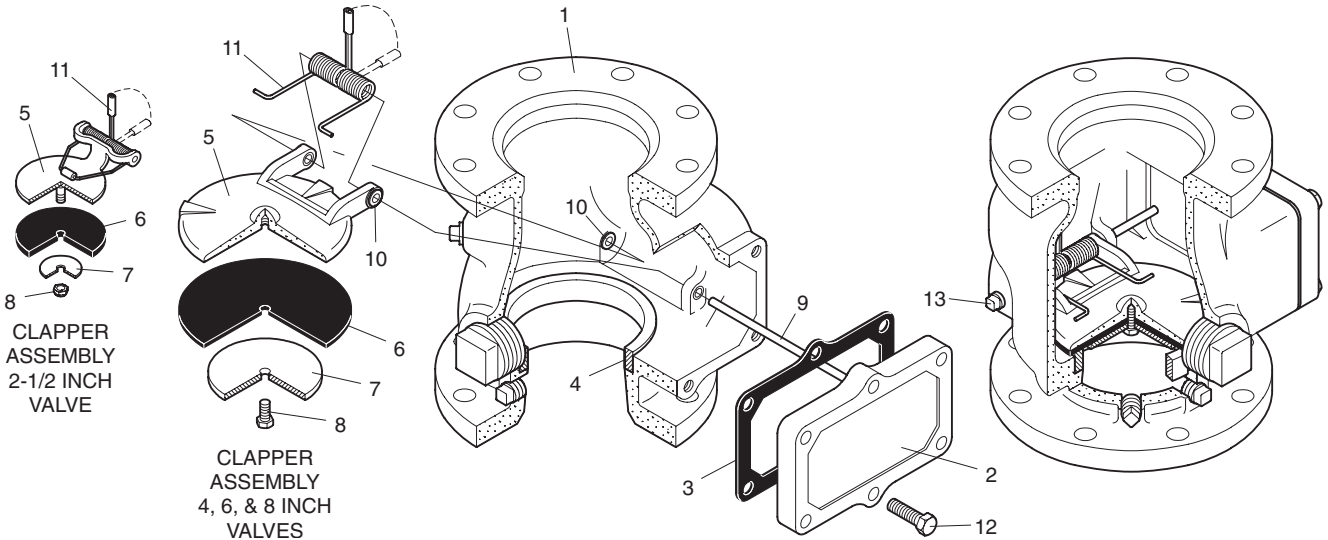
VALVE PARTS			
NO.	DESCRIPTION	QTY.	REF.
1	Valve Body With Ports Plugged	1	NR
2	Handhole Cover	1	See (c)
3	Handhole Cover Gasket	1	See (a) or (c)
4	Seat Ring	1	NR
5	Clapper	1	See (b)
6	Clapper Facing	1	See (a) or (b)
7	Clapper Washer	1	See (b)
8	2-1/2 Inch Valve: Lock Nut	1	See (b)
	4, 6, & 8 Inch Valves: Hex Self-Locking Cap Screw	1	See (b)
9	Clapper Hinge Pin	1	See (b)
10	Clapper Hinge Pin Bushing, 2-1/2 Inch Valve	2	NR
	4, 6, & 8 Inch Valves	4	NR

VALVE PARTS			
NO.	DESCRIPTION	QTY.	REF.
11	Clapper Spring	1	See (b)
12	Handhole Cover Hex Bolt, 2-1/2 & 4 Inch Valves	4	See (c)
	6 & 8 Inch Valves	6	See (c)
13	4, 6, & 8 Inch Valves only: Clapper Hinge Pin Square Head Pipe Plug, 3/8" NPT	1	CH

NOTES:

1. F x F valve shown for reference; components for G x G and F x G valves are shared.
2. NR: Not Replaceable
3. CH: Common Hardware

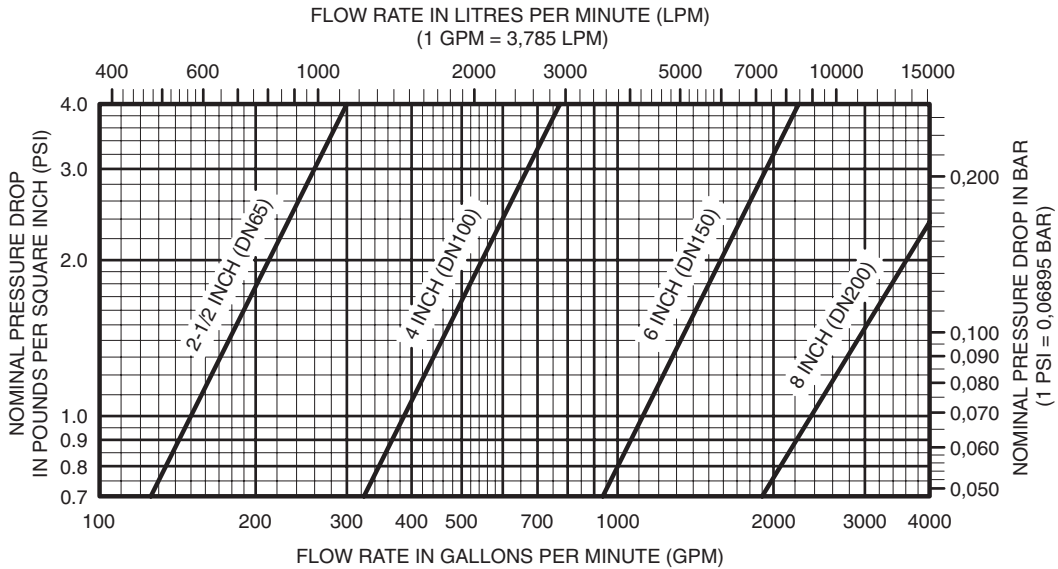
REPLACEMENT PARTS		
NO.	DESCRIPTION	P/N
(a)	Repair Parts Kit, Includes 3 & 6	
	2-1/2 Inch Valve	92-200-1-216
	4 Inch Valve	92-200-1-416
	6 Inch Valve	92-200-1-620
	8 Inch Valve	92-200-1-816
(b)	Clapper Assembly, Includes 5-9, 11	
	2-1/2 Inch Valve	92-200-1-218
	Includes 5-11	
	4 Inch Valve	92-200-1-423
	6 Inch Valve	92-200-1-623
	8 Inch Valve	92-200-1-823
(c)	Handhole Cover Parts Kit, 175 psi, Includes 2, 3, 12	
	2-1/2 Inch Valve	92-520-1-224
	4 Inch Valve	92-520-1-424
	6 Inch Valve	92-520-1-624
	8 Inch Valve	92-520-1-824



The 2-1/2 Inch (DN65) Valves with NPT threaded ports have a 1-1/4 inch main drain connection. The 2-1/2 Inch (DN65) Valves with ISO threaded ports have a DN40 main drain connection.

The 4, 6, and 8 Inch (DN100, DN150, and DN200) Valves with NPT threaded ports have a 2 inch main drain connection. The 4, 6, and 8 Inch (DN100, DN150, and DN200) Valves with ISO threaded ports have a DN50 inch main drain connection.

FIGURE 1
2-1/2, 4, 6 & 8 INCH (DN65, DN100, DN150 & DN200) MODEL CV-2 CHECK VALVE
— ASSEMBLY —

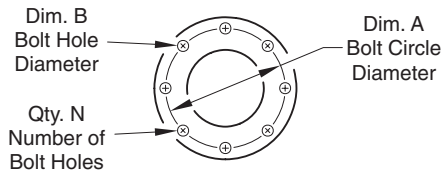


The approximate friction loss, based on the Hazen and Williams formula and expressed in equivalent length of pipe with C=120, is as follows:

- 14 feet of 2-1/2 inch Sch. 40 pipe for the 2-1/2 inch CV-2 Check Valve calculated on a typical flow rate of 250 GPM.
- 23 feet of 4 inch Sch. 40 pipe for the 4 inch CV-2 Check Valve calculated on a typical flow rate of 600 GPM.
- 24 feet of 6 inch Sch. 40 pipe for the 6 inch CV-2 Check Valve calculated on a typical flow rate of 1500 GPM.
- 23 feet of 8 inch Sch. 30 pipe for the 8 inch CV-2 Check Valve calculated on a typical flow rate of 2500 GPM.

GRAPH A
2-1/2, 4, 6 & 8 INCH (DN65, DN100, DN150 & DN200) MODEL CV-2 CHECK VALVE
— NOMINAL PRESSURE LOSS VERSUS FLOW —

Nominal Valve Size	Flange Drilling Specification														
	Nominal Dimensions in Inches and (mm)														
	ANSI B16.1 (Class 125)			ISO 2084 (PN10) ¹			ISO 2084 (PN16) ²			JIS B 2210 (10K)			AS 2129 (Table E)		
Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N	
2-1/2 Inch (DN65)	5.50 (139,7)	0.75 (19,0)	4	USE ISO 2084 (PN16)			5.71 (145,0)	0.71 (18,0)	4	5.51 (140,0)	0.75 (19,0)	4	5.00 (127,0)	0.71 (18,0)	4
4 Inch (DN100)	7.50 (190,5)	0.75 (19,0)	8				7.09 (180,0)	0.71 (18,0)	8	6.89 (175,0)	0.75 (19,0)	8	7.00 (178,0)	0.71 (18,0)	8
6 Inch (DN150)	9.50 (241,3)	0.88 (22,2)	8				9.45 (240,0)	0.87 (22,0)	8	9.45 (240,0)	0.91 (23,0)	8	9.25 (235,0)	0.87 (22,0)	8
8 Inch (DN200)	11.75 (298,5)	0.88 (22,2)	8	11.61 (295,0)	0.87 (22,0)	8	11.61 (295,0)	0.87 (22,0)	12	11.42 (290,0)	0.91 (23,0)	12	11.50 (292,0)	0.87 (22,0)	8



¹ Same drilling as for BS 4504 Section 3.2 (PN10) and DIN 2532 (PN10).
² Same drilling as for BS 4504 Section 3.2 (PN16) and DIN 2532 (PN16).

TABLE A
— FLANGE DRILLING SPECIFICATIONS —

Technical Data

Approvals:

UL and C-UL Listed, as well as FM Approved as an anti-water hammer check valve.

Maximum Working Pressure

- 250 psi (17,2 bar) for 2-1/2 Inch (DN65) size valves.
- 175 psi (12,1 bar) for 4, 6, and 8 Inch (DN100, DN150, and DN200) size valves.

Friction Loss

Refer to Graph A.

Physical Characteristics

The body is cast iron, the handhole cover is ductile iron or cast iron, and the seat ring is bronze. The clapper for the 2-1/2 inch (DN65) valve size is stainless steel. The clapper for the larger valve sizes is either cast or ductile iron. All valve sizes utilize an EPDM clapper facing.

Flanged connections are available drilled per ANSI, ISO, AS, and JIS specifications as detailed in Table A.

Threaded port connections for the CV-2 Valves are available NPT threaded or threaded per ISO 7/1 as detailed in the Ordering Procedure section. Valves with NPT threaded ports will readily accept preaction trim arrangements.

Installation

Step 1. The arrow cast on the Body must point in the direction of flow.

Step 2. When installed vertically, the flow direction arrow must point upwards.

Step 3. When installed horizontally, the Handhole Cover is to be either faced upwards or to the side. When the handhole cover is faced to the side the 1-1/4 or 2 inch connection is to be directed down as shown in Figure 2.

Step 4. When installed in preaction systems follow the directions provided in the applicable technical data sheets.

Step 5. Cross tighten the Handhole Cover Bolts.

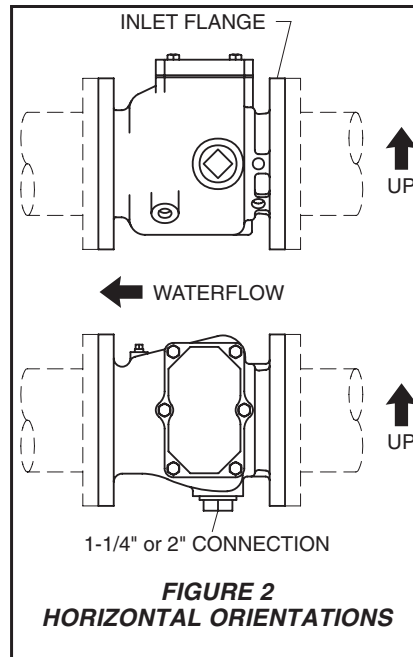


FIGURE 2
HORIZONTAL ORIENTATIONS

Care and Maintenance

The following procedures and inspections should be performed as indicated, in addition to any specific requirements of the NFPA. Any impairment must be immediately corrected.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any authority having jurisdiction. The installing contractor or product manufacturer should be contacted relative to any questions.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

The Model CV-2 Check Valves do not require any regularly scheduled maintenance. It is recommended, however, that proper operation of the valves be verified in accordance with a procedure that is acceptable to the authority

having jurisdiction. Any impairment must be immediately corrected.

If the valve does not hold a back pressure of more than 1 psi (0,07 bar), as evidenced by sustained leakage out of an automatic drain valve or loss in outlet pressure, it must be serviced.

NOTE

Before closing a fire protection system main control valve for maintenance work on the fire protection systems that it controls, permission to shut down the affected fire protection systems must first be obtained from the proper authorities, and all personnel who may be affected by this decision must be notified.

Service Procedure

Step 1. Close the main control valve.

Step 2. Open the main drain valve at the water supply control valve, if applicable.

Relieve the system air pressure if applicable.

Drain the inlet and outlet piping, if applicable. Verify that the drainage water is being properly disposed of and that it will not cause damage or result in dangerous conditions.

Step 3. Wait until the sound of draining water has stopped and/or the inlet and outlet pressure gauges read zero pressure, before performing any maintenance work on the fire protection system.

Step 4. Remove the Handhole Cover.

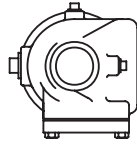
Step 5. While holding the Spring down by the coils, remove the Hinge Pin. Remove the Spring and then the Clapper Assembly.

Step 6. Using a light, check for and remove any debris that may have become lodged on top of the Seat Ring. Inspect the Seat Ring seat for any damage. If the Seat Ring has become dented across the seat then the valve will have to be replaced. It is impractical to re-face a Seat Ring in the field.

Step 7. Check for and remove any debris that may have become lodged in the Clapper Facing. If a minor imperfection remains in the Clapper Facing, then turn it over after thoroughly cleaning both surfaces with a clean cloth. Replace the Clapper Facing if necessary. Be sure to securely re-tighten the retaining fastener for the Clapper Washer.

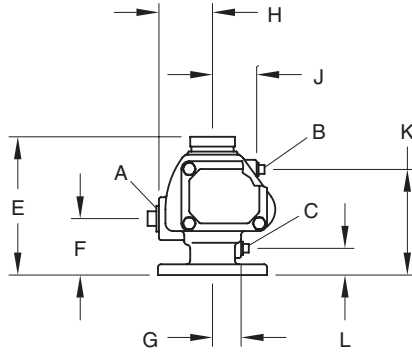
Step 8. Replace the Spring and Clapper Assembly as shown in Figure 1. While holding the coils of the Spring down, re-insert the Hinge Pin. Be sure

Nominal Dimensions in Inches and (mm)								
E	F	G	H	J	K	L	M	N
8.88 (225,4)	3.63 (92,1)	1.81 (46,0)	3.44 (87,3)	2.81 (71,4)	6.75 (171,5)	1.75 (44,5)	4.63 (117,5)	3.50 (88,9)

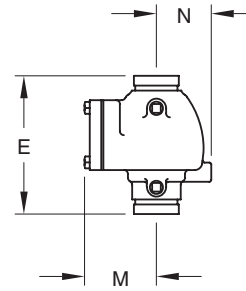


PLAN

Port Connections			
Port	A	B	C
NPT Size	1-1/4"	1/2"	1/2"



**FLANGE x GROOVE
FRONT VIEW**



**GROOVE x GROOVE
RIGHT VIEW**

FIGURE 3
2-1/2 INCH (DN65) VALVE DIMENSIONS AND CONNECTION LOCATIONS

that the Hinge Pin is pushed all the way to the rear of the valve.

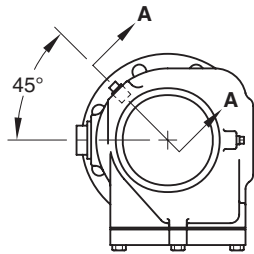
Step 9. Replace the Handhole Cover and cross-tighten the Handhole Cover Bolts.

Step 10. Return the fire protection system to operation.

NOTE

After returning a fire protection system to service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

Body Style	Valve Size	Nominal Dimensions in Inches and (mm)												
		G	H	J	K	L	M	N	P	Q	R	S	T	U
G x G	4" (DN100)	6.00 (152,4)	1.81 (46,0)	2.72 (69,1)	4.37 (111,0)	1.81 (46,0)	2.72 (69,1)	3.94 (100,1)	3.06 (77,7)	8.25 (209,6)	6.06 (153,9)	10.25 (260,4)	3.59 (91,2)	2.88 (73,0)
	6" (DN150)	6.00 (152,4)	1.97 (50,0)	3.62 (91,9)	4.56 (115,8)	1.97 (50,0)	3.62 (91,9)	4.81 (122,2)	4.38 (111,3)	9.69 (246,1)	7.00 (177,8)	12.25 (311,2)	4.50 (114,3)	3.00 (76,2)
	8" (DN200)	5.75 (146,1)	1.94 (49,3)	5.00 (127,0)	4.69 (119,1)	1.94 (49,3)	5.00 (127,0)	5.94 (150,9)	5.81 (147,6)	10.88 (276,4)	8.72 (221,5)	14.00 (355,6)	5.88 (149,4)	3.09 (78,6)
F x G & F x F	4" (DN100)	6.00 (152,4)	1.56 (39,6)	2.72 (69,1)	4.12 (104,6)	1.56 (39,6)	2.72 (69,1)	3.94 (100,1)	3.06 (77,7)	8.00 (203,2)	6.06 (153,9)	10.00 (254,0)	3.59 (91,2)	2.63 (66,7)
	6" (DN150)	6.00 (152,4)	1.72 (43,7)	3.62 (91,9)	4.31 (109,5)	1.72 (43,7)	3.62 (91,9)	4.81 (122,2)	4.38 (111,3)	9.44 (239,8)	7.00 (177,8)	12.00 (304,8)	4.50 (114,3)	2.75 (69,9)
	8" (DN200)	5.75 (146,1)	1.94 (49,3)	5.00 (127,0)	4.69 (119,1)	1.94 (49,3)	5.00 (127,0)	5.94 (150,9)	5.81 (147,6)	10.88 (276,4)	8.72 (221,5)	14.00 (355,6)	5.88 (149,4)	3.09 (78,6)

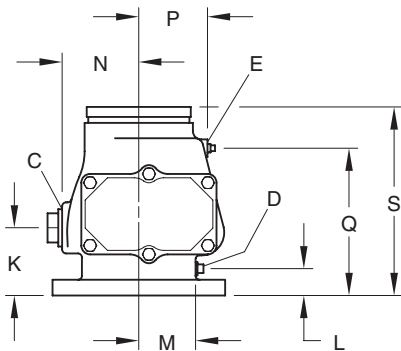


PLAN

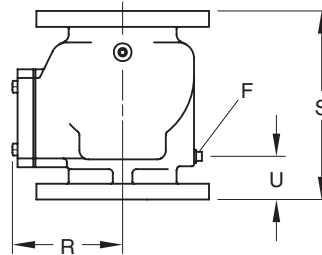
Valve Size	Port Connections, NPT					
	A	B	C	D	E	F
4" (DN100)	1/2"	1/2"	2"	1/2"	1/2"	1/2"
6" (DN150)	1/2"	1/2"	2"	1/2"	1/2"	1/2"
8" (DN200)	3/4"	3/4"	2"	3/4"	3/4"	1/2"

NOTES:

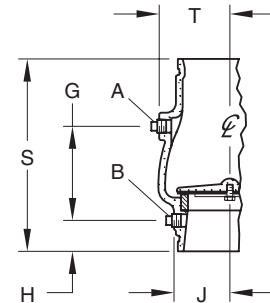
- 6" (DN150) Model CV-2 Check Valve shown for reference.



FLANGE x GROOVE FRONT VIEW



FLANGE x FLANGE RIGHT VIEW



GROOVE x GROOVE SECTION A-A

FIGURE 4

4, 6, and 8 INCH (DN100, DN150, and DN200) VALVE DIMENSIONS AND CONNECTION LOCATIONS

Limited Warranty

Products manufactured by Tyco Fire Products are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by Tyco Fire Products. No warranty is given for products or components manufactured by companies not affiliated by ownership with Tyco Fire Products or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by Tyco Fire Products to be defective shall be either repaired or replaced, at Tyco Fire Products' sole option. Tyco Fire Products neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. Tyco Fire Products shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

IN NO EVENT SHALL TYCO FIRE PRODUCTS BE LIABLE, IN CONTRACT, TORT, STRICT LIABILITY OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR CHARGES, REGARDLESS OF WHETHER TYCO FIRE PRODUCTS WAS INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, AND IN NO EVENT SHALL TYCO FIRE PRODUCTS' LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE.

THE FOREGOING WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Ordering Procedure

NOTES

Refer to Table A (See Page 3) for Flange Drilling Specifications.

Standard CV-2 Check Valve (American Standard Flange Drilling, American Threaded Ports, and American Groove Outside Diameter, as applicable):

Specify: (specify size inch) Model CV-2 Check Valve with (specify end connections), P/N (specify).

2-1/2 Inch G x G	
2.88 inch (73,0 mm)	
Groove O.D. x 2.88 inch (73,0 mm)	
Groove O.D.	P/N 52-520-1-110
2-1/2 Inch F x G	
ANSI Flange x	
2.88 inch (73,0 mm)	
Groove O.D.	P/N 52-520-1-210
4 Inch G x G	
4.50 inch (114,3 mm)	
Groove O.D. x 4.50 inch (114,3 mm)	
Groove O.D.	P/N 52-520-1-113
4 Inch F x G	
ANSI Flange x	
4.50 inch (114,3 mm)	
Groove O.D.	P/N 52-520-1-413
4 Inch F x F	
ANSI Flange x	
ANSI Flange.	P/N 52-520-1-013
6 Inch G x G	
6.62 inch (168,3 mm)	
Groove O.D. x 6.62 inch (168,3 mm)	
Groove O.D.	P/N 52-520-1-115
6 Inch F x G	
ANSI Flange x	
6.62 inch (168,3 mm)	
Groove O.D.	P/N 52-520-1-615
6 Inch F x F	
ANSI Flange x	
ANSI Flange.	P/N 52-520-1-015
8 Inch G x G	
8.62 inch (219,1 mm)	
Groove O.D. x	
8.62 inch (219,1 mm)	
Groove O.D.	P/N 52-520-1-916
8 Inch F x G	
ANSI Flange x	
8.62 inch (219,1 mm)	
Groove O.D.	P/N 52-520-1-816
8 Inch F x F	
ANSI Flange x	
ANSI Flange.	P/N 52-520-1-016

Replacement Valve Parts:

Specify: (description) for use with (specify) size Model CV-2 Check Valve, P/N (see Figure 1).

Other CV-2 Check Valves:

NOTES

Other CV-2 Check Valves are valves ordered with any combination of flange, threaded port, or groove outside diameter not offered under "Standard CV-2 Check Valve" offerings.

Specify: (specify size) Model CV-2 Check Valve with (specify) connections with (specify NPT or ISO) threaded ports, P/N (See Page 8).

Part Numbers For Other Model CV-2 Check Valves:

Other 2-1/2 Inch Valves with NPT Ports

Ports
 ISO (PN16) Flange x
 2.88 inch (73,0 mm)
 Groove O.D. P/N 52-520-1-251
 ANSI Flange x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-1-220
 ISO (PN16) Flange x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-1-331
 AS Flange x
 2.88 inch (73,0 mm)
 Groove O.D. P/N 52-520-1-611
 AS Flange x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-4-410
 JIS Flange x
 2.88 inch (73,0 mm)
 Groove O.D. P/N 52-520-1-710
 JIS Flange x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-1-810
 3.00 inch (76,1 mm)
 Groove O.D x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-1-120

Other 2-1/2 Inch Valves with ISO Ports

Ports
 ISO (PN16) Flange x
 2.88 inch (73,0 mm)
 Groove O.D. P/N 52-520-1-211
 ISO (PN16) Flange x
 3.00 inch (76,1 mm)
 Groove O.D. P/N 52-520-1-311
 3.00 inch (76,1 mm)
 Groove O.D x
 3.00 inch (73,0 mm)
 Groove O.D. P/N 52-520-4-120
 2.88 inch (76,1 mm)
 Groove O.D x
 2.88 inch (73,0 mm)
 Groove O.D. P/N 52-520-1-921

Part Numbers For Other Model CV-2 Check Valves:

Other 4 Inch Valves with NPT Ports

ISO (PN16) Flange x
 4.50 inch (114,3 mm) Groove O.D. P/N 52-520-1-493
 ISO (PN16) Flange x
 ISO (PN16) Flange P/N 52-520-4-013
 AS Flange x
 AS Flange P/N 52-520-4-313
 AS Flange x
 4.50 inch (114,3 mm) Groove O.D. P/N 52-520-4-413
 JIS Flange x
 JIS Flange P/N 52-520-4-713
 JIS Flange x
 4.50 inch (114,3 mm) Groove O.D. P/N 52-520-4-813

Other 4 Inch Valves with ISO Ports

ISO (PN16) Flange x
 ISO Flange P/N 52-520-4-113
 ISO (PN16) Flange x
 4.50 inch (114,3 mm) Groove O.D. P/N 52-520-4-213
 4.50 inch (114,3 mm)
 Groove O.D x
 4.50 inch (114,3 mm) Groove O.D. P/N 52-520-1-923

Part Numbers For Other Model CV-2 Check Valves:

Other 6 Inch Valves with NPT Ports

ANSI Flange x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-1-625
 ISO (PN16) Flange x
 6.62 inch (168,3 mm) Groove O.D. P/N 52-520-1-695
 ISO (PN16) Flange x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-5-215
 ISO (PN16) Flange x
 ISO (PN16) Flange P/N 52-520-4-015
 AS Flange x
 AS Flange P/N 52-520-4-315
 AS Flange x
 6.62 inch (168,3 mm) Groove O.D. P/N 52-520-4-415
 AS Flange x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-4-425
 JIS Flange x
 JIS Flange P/N 52-520-4-715
 JIS Flange x
 6.62 inch (168,3 mm) Groove O.D. P/N 52-520-4-815
 JIS Flange x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-5-815
 6.50 inch (165,1 mm)
 Groove O.D x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-1-124

Other 6 Inch Valves with ISO Ports

ISO (PN16) Flange x
 ISO (PN16) Flange P/N 52-520-4-115
 ISO (PN16) Flange x
 6.62 inch (168,3 mm) Groove O.D. P/N 52-520-4-215
 ISO (PN16) Flange x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-4-225
 6.62 inch (168,3 mm)
 Groove O.D x
 6.62 inch (168,3 mm) Groove O.D. P/N 52-520-1-925
 6.50 inch (165,1 mm)
 Groove O.D x
 6.50 inch (165,1 mm) Groove O.D. P/N 52-520-1-125

Part Numbers For Other Model CV-2 Check Valves:

Other 8 Inch Valves with NPT Ports

ISO (PN10) Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-1-896
 ISO (PN16) Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-4-266
 ISO (PN10) Flange x
 ISO (PN10) Flange P/N 52-520-4-016
 ISO (PN16) Flange x
 ISO (PN16) Flange P/N 52-520-4-118
 AS Flange x
 AS Flange P/N 52-520-4-316
 AS Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-4-416
 JIS Flange x
 JIS Flange P/N 52-520-1-716
 JS Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-4-816

Other 8 Inch Valves with ISO Ports

ISO (PN10) Flange x
 ISO (PN10) Flange P/N 52-520-4-116
 ISO (PN16) Flange x
 ISO (PN16) Flange P/N 52-520-4-117
 ISO (PN10) Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-4-216
 ISO (PN16) Flange x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-4-226
 8.62 inch (219,1 mm)
 Groove O.D. x
 8.62 inch (219,1 mm) Groove O.D. P/N 52-520-1-926