

Submittal Package

Viega MegaPress® Valves

Project _____ Date _____

Engineer _____ Contractor _____

Submitted by _____

Approved by _____ Date _____ Approved by _____ Date _____

Table of Contents

Potable Water
Chilled Water
Hydronic Heating
Low Pressure Steam
Propane
Butane
Natural Gas
Compressed Air
Nitrogen N ₂
Argon
Oxygen O ₂ (non-medical)
Vacuum
Other Approved Applications

1	Tech Data Sheet	3
	MegaPress Ball Valve Model 4870	3
	MegaPress FKM Ball Valve Models 5970 and 5970XL	4
	MegaPress 316 Ball Valve Models 5170 and 5170XL	5
	MegaPress 304 FKM Ball Valve Models 4170 and 4170XL	6
	MegaPress 3-Piece Ball Valve Model 4875.8	7
	MegaPress FKM 3-Piece Ball Valve Models 5975.8 and 5975.8XL	8
	MegaPress 316 3-Piece Ball Valve Models 5175.8 and 5175.8XL	9
	MegaPress 304 FKM 3-Piece Ball Valve Models 4175.8 and 4175.8XL	10
	MegaPressG Ball Valve Model 6675	11
	MegaPressG Ball Valve Model 6675XL	12
	MegaPressG Ball Valve Model 6675.1	13
	MegaPressG Ball Valve Model 6675.2	14
	MegaPressG Ball Valve Model 6675.3	15
	MegaPress 316 Globe Valve Model 5185.1	16
	MegaPress 316 Globe Valve Model 5985.1	17
	MegaPress 316 Check Valve Model 5174	18
	MegaPress Wafer Check Valve Model 5974XL	19
	MegaPress 316 Wafer Check Valve Model 5174XL	20
	MegaPress 316 Stainless Steel Butterfly Valve Model 5179.8	21
	Gear Operator Handwheel Model 2979.88	23
2	Product Instructions	24
	MegaPress ½" to 2" Ball Valves	24
	MegaPress 2½" to 4" Ball Valves	25
	MegaPressG ½" to 2" Ball Valves	26
	MegaPressG 2½" to 4" Ball Valves	28
	MegaPress 3-Piece Ball Valves	30
	MegaPress 3-Piece Ball Valve Maintenance	32
	MegaPress Globe Valve Models 5185.1 and 5985.1	33
	Wafer Check Valve Models 2974.3XL, 5174XL, and 5974XL	35
	Viega Butterfly Valve Models 2979.8ZL, 5179.8, and 2979.88	36
3	Limited Warranty – Viega Metal Systems	37



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Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

1 Tech Data Sheet

MegaPress Ball Valve Model 4870



Description

The MegaPress carbon steel ball valve is equipped with a full port, zinc-nickel-coated carbon steel body and press ends. The ball valve features an EPDM sealing element, a 420 stainless grip ring, a 304

stainless separator ring, EPDM stem seals, a locking metal handle, and Viega's Smart Connect® technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Body material designation: CS 1.0553
- Eco Brass® blowout-proof stem
- Lockable metal handle
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure: 250 CWP

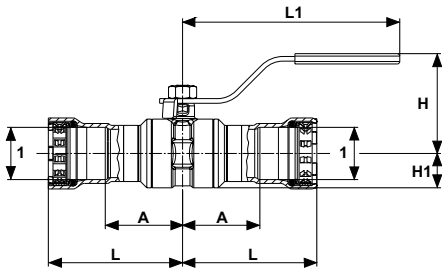
Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO/ANSI Z1157

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

MegaPress Ball Valve Model 4870



Part No.	Size (in) 1	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
28915	½	1.535	2.618	4.567	1.992	0.634
28920	¾	1.638	2.795	4.567	2.102	0.748
28925	1	1.811	3.157	5.768	2.469	0.878
28930	1¼	1.976	3.795	5.768	2.709	1.142
28935	1½	2.142	4.012	6.122	3.016	1.358
28940	2	2.382	4.370	6.122	3.315	1.654

Valve Size (in)	Valve Stem Nut Size	Stem Nut ft/lbs	Stem Nut (Nm)	Cv (US gal/min)
½	M8	3.7 to 7.5	5 to 10	15.5
¾	M8	3.7 to 7.5	5 to 10	33.4
1	M8	3.7 to 7.5	5 to 10	46.4
1¼	M8	3.7 to 7.5	5 to 10	93.5
1½	M8	3.7 to 7.5	5 to 10	124
2	M8	3.7 to 7.5	5 to 10	246

Tech Data Sheet

MegaPress FKM Ball Valve Models 5970 and 5970XL



Description

The MegaPress FKM carbon steel ball valve is equipped with a full port, zinc-nickel-coated carbon steel body and press ends. The ball valve features an FKM sealing element, a 420 stainless grip ring, a 304 stainless separator ring, FKM stem seals, a locking metal handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Body material designation: CS 1.0553
- Eco Brass® blowout-proof stem
- Lockable metal handle
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad (for 2½", 3", and 4" only)

Ratings

- Temperature range: 14°F–284°F (with temperature spikes up to 365°F)
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- APMO/ANSI Z1157

Recommended Tools

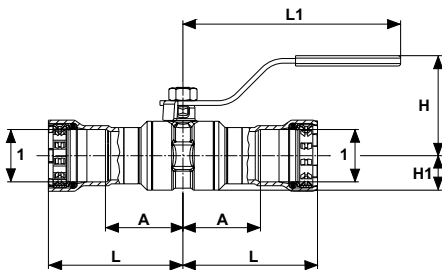
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress FKM Ball Valve Models 5970 / 5970XL



Part No.	Size (in) 1	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
28945	½	1.535	2.618	4.567	1.992	0.634
28950	¾	1.638	2.795	4.567	2.102	0.748
28955	1	1.811	3.157	5.768	2.469	0.878
28960	1¼	1.976	3.795	5.768	2.709	1.142
28965	1½	2.142	4.012	6.122	3.016	1.358
28970	2	2.382	4.370	6.122	3.315	1.654
86790	2½	3.720	5.520	11.090	5.130	2.390
86795	3	4.070	6.400	11.090	5.520	2.800
86800	4	4.670	7.840	13.060	6.700	3.450

Valve Size (in)	Valve Stem Nut Size	Stem Nut ft/lbs	Stem Nut (Nm)	Cv (US gal/min)
½	M8	3.7 to 7.5	5 to 10	15.5
¾	M8	3.7 to 7.5	5 to 10	33.4
1	M8	3.7 to 7.5	5 to 10	46.4
1¼	M8	3.7 to 7.5	5 to 10	93.5
1½	M8	3.7 to 7.5	5 to 10	124
2	M8	3.7 to 7.5	5 to 10	246
2½	M8	22.1 to 44.3	30 to 60	403
3	M8	22.1 to 44.3	30 to 60	606
4	M8	22.1 to 44.3	30 to 60	1,049

Tech Data Sheet

MegaPress 316 Ball Valve Models 5170 and 5170XL



Description

The MegaPress 316 stainless steel ball valve is equipped with a full port, 316 stainless steel 2-piece body and stainless steel press ends. The ball valve features an EPDM sealing element, a 420

stainless grip ring, a 304 stainless separator ring, EPDM stem seals, a locking stainless steel handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Body material designation: CF8 1.4408
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad (for 2½", 3", and 4" only)

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO/ANSI Z1157
- NSF®-61
- NSF®-372

Recommended Tools

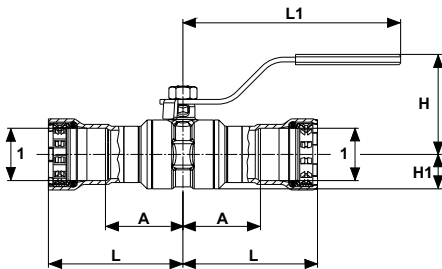
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress 316 Ball Valve Models 5170 / 5170XL



Part No.	Size (in)	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
28975	1/2	1.535	2.618	4.567	1.992	0.634
28980	3/4	1.638	2.795	4.567	2.102	0.748
28985	1	1.811	3.157	5.768	2.469	0.878
28990	1 1/4	1.976	3.795	5.768	2.709	1.142
28995	1 1/2	2.142	4.012	6.122	3.016	1.358
29000	2	2.382	4.370	6.122	3.315	1.654
86805	2 1/2	3.717	5.516	11.087	5.142	2.256
86810	3	4.094	6.398	11.087	5.535	2.657
86815	4	4.638	7.843	13.055	6.697	3.346

Valve Size (in)	Valve Stem Nut Size	Stem Nut ft/lbs	Stem Nut (Nm)	Cv (US gal/min)
1/2	M8	3.7 to 7.5	5 to 10	15.5
3/4	M8	3.7 to 7.5	5 to 10	33.4
1	M8	3.7 to 7.5	5 to 10	46.4
1 1/4	M8	3.7 to 7.5	5 to 10	93.5
1 1/2	M8	3.7 to 7.5	5 to 10	124
2	M8	3.7 to 7.5	5 to 10	246
2 1/2	M8	22.1 to 44.3	30 to 60	403
3	M8	22.1 to 44.3	30 to 60	606
4	M8	22.1 to 44.3	30 to 60	1,049

Tech Data Sheet

MegaPress 304 FKM Ball Valve Models 4170 and 4170XL



Description

The MegaPress 304 FKM stainless steel ball valve is equipped with a full port, 304 stainless steel 2-piece body and stainless steel press ends. The ball valve features an FKM sealing element, a 420 stainless grip ring, a 304 stainless separator ring, FKM stem seals, a locking stainless steel handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 304 stainless steel ball
- Body material designation: CF8 1.4301
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad (for 2½", 3", and 4" only)

Ratings

- Temperature range: 14°F–284°F (with temperature spikes up to 365°F)
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO/ANSI Z1157

Recommended Tools

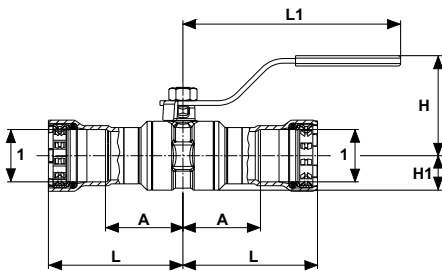
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress 304 FKM Ball Valve Models 4170 / 4170XL



Part No. FKM	Size (in) 1	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
29005	½	1.535	2.618	4.567	1.992	0.634
29010	¾	1.638	2.795	4.567	2.102	0.748
29015	1	1.811	3.157	5.768	2.469	0.878
29020	1¼	1.976	3.795	5.768	2.709	1.142
29025	1½	2.142	4.012	6.122	3.016	1.358
29030	2	2.382	4.370	6.122	3.315	1.654
86820	2½	3.717	5.516	11.087	5.142	2.256
86825	3	4.094	6.398	11.087	5.535	2.657
86830	4	4.638	7.843	13.055	6.697	3.346

Valve Size (in)	Valve Stem Nut Size	Stem Nut ft/lbs	Stem Nut (Nm)	Cv (US gal/min)
½	M8	3.7 to 7.5	5 to 10	15.5
¾	M8	3.7 to 7.5	5 to 10	33.4
1	M8	3.7 to 7.5	5 to 10	46.4
1¼	M8	3.7 to 7.5	5 to 10	93.5
1½	M8	3.7 to 7.5	5 to 10	124
2	M8	3.7 to 7.5	5 to 10	246
2½	M8	22.1 to 44.3	30 to 60	403
3	M8	22.1 to 44.3	30 to 60	606
4	M8	22.1 to 44.3	30 to 60	1,049

Tech Data Sheet

MegaPress 3-Piece Ball Valve Model 4875.8



Description

The MegaPress 3-piece carbon steel ball valve is equipped with a full port, 316 stainless steel 3-piece body and zinc-nickel-coated steel press ends.

The ball valve features an EPDM sealing element, a 420 stainless grip ring, a 304 stainless separator ring, PTFE stem seals, a locking metal handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Adjustable packing nut
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure: 250 CWP

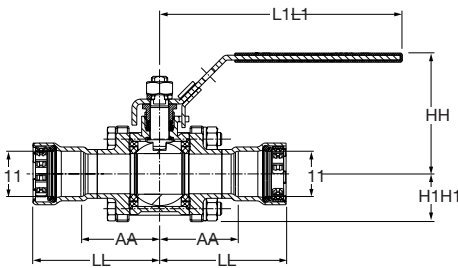
Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO Z1157

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

MegaPress 3-Piece Carbon Steel Ball Valve Model 4875.8



Part No.	Size (in) 1	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
28500	½	1.72	2.80	5.88	2.85	1.04
28501	¾	1.91	3.06	5.88	2.93	1.16
28502	1	2.19	3.54	7.54	3.33	1.40
28503	1¼	2.50	4.31	7.54	3.57	1.57
28504	1½	2.92	4.79	7.54	3.89	1.83
28505	2	3.09	5.07	7.54	3.89	1.83

Valve Size (in)	Valve Body Bolt & Nut Size	Bolt Torque +/- 5 ft/lbs (Nm)	Valve Stem Nut Size	Stem Nut ft/lbs (Nm)
½	M8 x 55 M8	7.5 (10)	AF 16 mm	7.5 10
¾	M8 x 65 M8	15 (20)	AF 18 mm	11 15
1	M10 x 75 M10	15 (20)	AF 21 mm	11 15
1¼	M10 x 90 M10	22.5 (30)	AF 22 mm	18.5 25
1½	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25

Tech Data Sheet

MegaPress FKM 3-Piece Ball Valve Models 5975.8 and 5975.8XL



Description

The MegaPress FKM 3-piece carbon steel ball valve is equipped with a full port, 316 stainless steel 3-piece body and zinc-nickel-coated steel press ends. The ball valve features an

FKM sealing element, a 420 stainless grip ring, a 304 stainless separator ring, PTFE stem seals, a locking metal handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Adjustable packing nut
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad

Ratings

- Operating temperature: 14°F–284°F (with temperature spikes up to 356°F)
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO Z1157

Recommended Tools

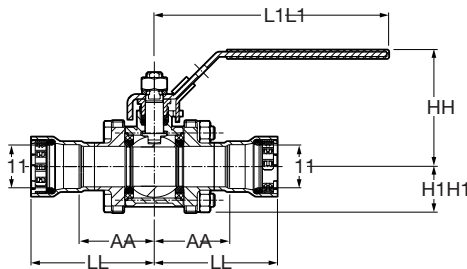
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress FKM 3-Piece Carbon Steel Ball Valve Models 5975.8 / 5975.8XL



Part No.	Size (in)*	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
EPDM	FKM	1				
28500	86400	½	1.72	2.80	5.88	2.85
28501	86405	¾	1.91	3.06	5.88	2.93
28502	86410	1	2.19	3.54	7.54	3.33
28503	86415	1¼	2.50	4.31	7.54	3.57
28504	86420	1½	2.92	4.79	7.54	3.89
28505	86425	2	3.09	5.07	7.54	3.89
NA	86680	2½	3.74	5.54	11.06	5.08
NA	86685	3	4.37	6.67	11.06	5.47
NA	86690	4	4.88	8.06	13.07	6.89

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Valve Size (in)*	Valve Body Bolt & Nut Size	Bolt Torque +/- 5 ft/lbs (Nm)	Valve Stem Nut Size	Stem Nut ft/lbs (Nm)
½	M8 x 55 M8	7.5 (10)	AF 16 mm	7.5 10
¾	M8 x 65 M8	15 (20)	AF 18 mm	11 15
1	M10 x 75 M10	15 (20)	AF 21 mm	11 15
1¼	M10 x 90 M10	22.5 (30)	AF 22 mm	18.5 25
1½	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2½	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
3	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
4	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Tech Data Sheet

MegaPress 316 3-Piece Ball Valve Models 5175.8 and 5175.8XL



Description

The MegaPress 316 3-piece stainless steel ball valve is equipped with a full port, 316 stainless steel 3-piece body and stainless steel press ends. The ball valve features an EPDM sealing element, a 420 stainless grip ring, a 304 stainless separator ring, PTFE stem seals, a locking metal handle, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Adjustable packing nut
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad

Ratings

- Temperature range: 0°–250°F
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO Z1157
- NSF®-61
- NSF®-372

Recommended Tools

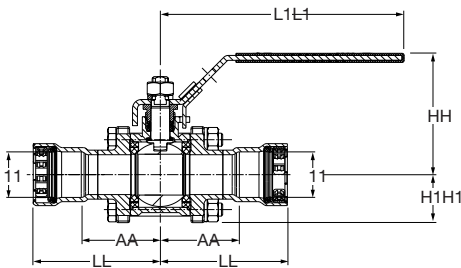
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress 316 3-Piece Stainless Steel Ball Valve Models 5175.8 / 5175.8XL



Part No.	Size (in)*	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
EPDM FKM	1					
86500 86530	½	1.72	2.80	5.88	2.85	1.04
86505 86535	¾	1.91	3.06	5.88	2.93	1.16
86510 86540	1	2.19	3.54	7.54	3.33	1.40
86515 86545	1¼	2.50	4.31	7.54	3.57	1.57
86520 86550	1½	2.92	4.79	7.54	3.89	1.83
86525 86555	2	3.09	5.07	7.54	3.89	1.83
86650 86665	2½	3.74	5.54	11.06	5.08	2.28
86655 86670	3	4.37	6.67	11.06	5.47	2.68
86660 86675	4	4.88	8.06	13.07	6.89	3.79

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Valve Size (in)*	Valve Body Bolt & Nut Size	Bolt Torque +/- 5 ft/lbs (Nm)	Valve Stem Nut Size	Stem Nut ft/lbs (Nm)
½	M8 x 55 M8	7.5 (10)	AF 16 mm	7.5 10
¾	M8 x 65 M8	15 (20)	AF 18 mm	11 15
1	M10 x 75 M10	15 (20)	AF 21 mm	11 15
1¼	M10 x 90 M10	22.5 (30)	AF 22 mm	18.5 25
1½	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2½	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
3	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
4	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Tech Data Sheet

MegaPress 304 FKM 3-Piece Ball Valve Models 4175.8 and 4175.8XL



Description

The MegaPress 304 FKM 3-piece stainless steel ball valve is equipped with a full port, 316 stainless steel 3-piece body and 304 stainless steel press ends. The ball valve features an FKM sealing element,

a 420 stainless grip ring, a 304 stainless separator ring, PTFE stem seals, a locking metal handle, and Viega's Smart Connect® technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Blowout-proof 316 stainless steel stem
- 304 stainless steel locking handle
- Adjustable packing nut
- Reinforced PTFE seats
- Smart Connect technology
- ISO 5211 mounting pad

Ratings

- Operating temperature: 14°F–284°F (with temperature spikes up to 356°F)
- Max. operating pressure for ½" to 2": 250 CWP
- Max. operating pressure for 2½" to 4": 200 CWP

Approvals

- Conforms to MSS SP-110
- ASME B31
- IAPMO Z1157

Recommended Tools

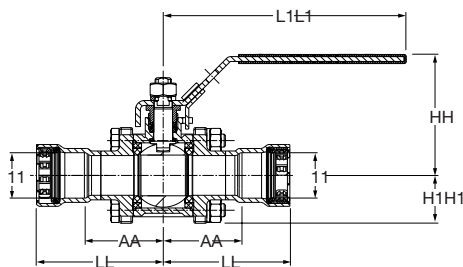
For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

For 2½" to 4":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

MegaPress 304 FKM 3-Piece Stainless Steel Ball Valve Models 4175.8 / 4175.8XL



Part No.	Size (in)*	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
EPDM FKM	1					
86500 86530	½	1.72	2.80	5.88	2.85	1.04
86505 86535	¾	1.91	3.06	5.88	2.93	1.16
86510 86540	1	2.19	3.54	7.54	3.33	1.40
86515 86545	1¼	2.50	4.31	7.54	3.57	1.57
86520 86550	1½	2.92	4.79	7.54	3.89	1.83
86525 86555	2	3.09	5.07	7.54	3.89	1.83
86650 86665	2½	3.74	5.54	11.06	5.08	2.28
86655 86670	3	4.37	6.67	11.06	5.47	2.68
86660 86675	4	4.88	8.06	13.07	6.89	3.79

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Valve Size (in)*	Valve Body Bolt & Nut Size	Bolt Torque +/- 5 ft/lbs (Nm)	Valve Stem Nut Size	Stem Nut ft/lbs (Nm)
½	M8 x 55 M8	7.5 (10)	AF 16 mm	7.5 10
¾	M8 x 65 M8	15 (20)	AF 18 mm	11 15
1	M10 x 75 M10	15 (20)	AF 21 mm	11 15
1¼	M10 x 90 M10	22.5 (30)	AF 22 mm	18.5 25
1½	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2	M10 x 100 M10	22.5 (30)	AF 24 mm	18.5 25
2½	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
3	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)
4	M12 x 140 M14	45 (60)	AF 30 mm	26 (35)

*Sizes up to 3" have 4-bolt flanges; 4" has 6-bolt flanges.

Tech Data Sheet

MegaPressG Ball Valve Model 6675



Description

The MegaPressG ball valve comes equipped with a full port silicon bronze body, a 316 stainless steel ball, and zinc-nickel-coated steel press ends.

The ball valve is P×P and features an HNBR sealing element, a 420 SST grip ring, a 304 separator ring, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Lockable metal handle
- Double stem seal
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: -40°F–180°F
- Max. operating pressure: 125 psi for fuel gas applications, 250 psi for other approved applications (see [Applications Chart](#))

Approvals

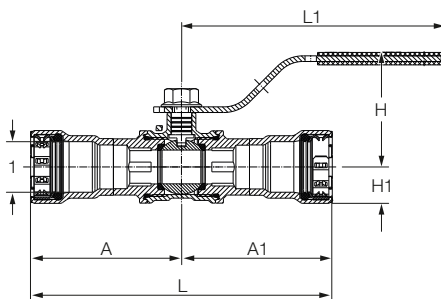
- Conforms to MSS SP-110
- ANSI LC 4/CSA 6.32
- ANSI LC 4a/CSA 6.32a
- ASME B31
- Compliance to ASME B16.44

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	Bronze C87700
Ball	316 stainless steel
Seat	Reinforced PTFE
Stem seals	FKM
Nut	Zinc-plated steel
Handle	Zinc-plated steel
Handle cover	Polyvinyl
Sealing element	HNBR
Connection ends	Zinc-nickel-coated steel
Grip ring	420 stainless steel
Separator ring	304 stainless steel

MegaPressG Ball Valve Model 6675



Part No.	Size (in)	A (in)	A1 (in)	L (in)	L1 (in)	H (in)	H1 (in)
	1						
30600	½	2.62	2.62	5.24	4.57	1.99	0.63
30605	¾	2.80	2.80	5.59	4.57	2.10	0.77
30610	1	3.16	3.16	6.31	5.77	2.46	0.91
30615	1¼	3.78	3.78	7.55	5.77	2.69	1.14
30620	1½	3.98	3.98	7.97	6.12	3.02	1.36
30625	2	4.35	4.35	8.70	6.12	3.31	1.65

Tech Data Sheet

MegaPressG Ball Valve Model 6675XL



Description

The MegaPressG ball valve comes equipped with a full port zinc-nickel-coated carbon steel body, press ends, and a plated ball. The ball valve is P x P and features an HNBR sealing

element, a 420 SST grip ring, a graphite separator ring, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- Chromium-plated ball
- Lockable stainless steel handle
- Double stem HNBR seal
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: -40°F–180°F
- Max. operating pressure: 125 psi for fuel gas applications, 250 psi for other approved applications (see [Applications Chart](#))

Approvals

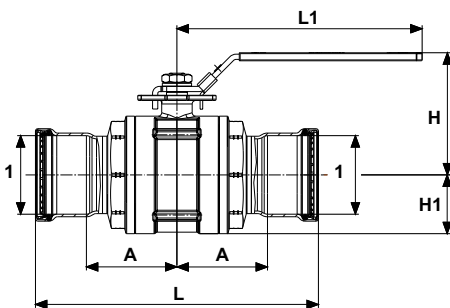
- Conforms to MSS SP-110
- ANSI LC 4/CSA 6.32
- ANSI LC 4a/CSA 6.32a
- ASME B31
- Compliance to ASME B16.44

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs.) for use with the PressBooster
- #26200 MegaPress XL PressBooster with 2½" press ring
- #57078 MegaPress XL 3" and 4" press ring kit
- #57081 Z3 Actuator with 2½" press ring (must be used with press gun with minimum 80mm press stroke)

Component	Material
Body	Zinc-nickel-coated steel
Ball	Low-lead brass chromium plated
Seat	Reinforced PTFE
Stem seals	HNBR
Nut	stainless steel
Handle	stainless steel
Handle cover	Polyvinyl
Sealing element	HNBR
Connection ends	Zinc-nickel-coated steel
Grip ring	420 stainless steel
Separator ring	304 stainless steel

MegaPressG Ball Valve Model 6675XL



Part No.	Size (in)	A (in)	L (in)	L1 (in)	H (in)	H1 (in)
	1					
86840	2½	3.72	11.04	11.09	5.14	2.40
86845	3	4.07	12.80	11.09	5.54	2.80
86850	4	4.67	15.68	13.06	6.70	3.45

Tech Data Sheet

MegaPressG Ball Valve Model 6675.1



Description

The MegaPressG ball valve comes equipped with a full pot silicon bronze body, a 316 stainless steel ball, and zinc-nickel-coated steel connection

ends. The ball valve is PxPPT and features an HNBR sealing element, a 420 SST grip ring, a 304 separator ring, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Lockable metal handle
- Double stem seal
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: -40°F–180°F
- Max. operating pressure: 125 psi for fuel gas applications, 250 psi for other approved applications (see [Applications Chart](#))

Approvals

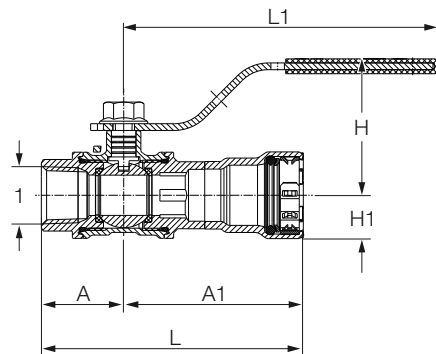
- Conforms to MSS SP-110
- ANSI LC 4/CSA 6.32
- ANSI LC 4a/CSA 6.32a
- ASME B31
- Compliance to ASME B16.44

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	Bronze C87700
Ball	316 stainless steel
Seat	Reinforced PTFE
Stem seals	FKM
Nut	Zinc-plated steel
Handle	Zinc-plated steel
Handle cover	Polyvinyl
Sealing element	HNBR
Connection ends	Zinc-nickel-coated steel
Grip ring	420 stainless steel
Separator ring	304 stainless steel

MegaPressG Ball Valve Model 6675.1



Part No.	Size (in)	A (in)	A1 (in)	L (in)	L1 (in)	H (in)	H1 (in)
	1						
30630	½	1.20	2.62	3.82	4.57	1.99	0.63
30635	¾	1.36	2.80	4.15	4.57	2.10	0.77
30640	1	1.85	3.16	5.00	5.77	2.46	0.91
30645	1¼	1.87	3.78	5.64	5.77	2.69	1.14
30650	1½	2.05	3.98	6.03	6.12	3.02	1.36
30655	2	2.43	4.35	6.78	6.12	3.31	1.65

Tech Data Sheet

MegaPressG Ball Valve Model 6675.2



Description

The MegaPressG ball valve comes equipped with a full port silicon bronze body, a 316 stainless steel ball, and zinc-nickel-coated steel connection

ends. The ball valve is PxMPT and features an HNBR sealing element, a 420 SST grip ring, a 304 separator ring, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Lockable metal handle
- Double stem seal
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: -40°F–180°F
- Max. operating pressure: 125 psi for fuel gas applications, 250 psi for other approved applications (see [Applications Chart](#))

Approvals

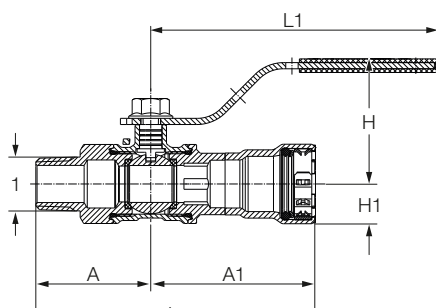
- Conforms to MSS SP-110
- ANSI LC 4/CSA 6.32
- ANSI LC 4a/CSA 6.32a
- ASME B31
- Compliance to ASME B16.44

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	Bronze C87700
Ball	316 stainless steel
Seat	Reinforced PTFE
Stem seals	FKM
Nut	Zinc-plated steel
Handle	Zinc-plated steel
Handle cover	Polyvinyl
Sealing element	HNBR
Connection ends	Zinc-nickel-coated steel
Grip ring	420 stainless steel
Separator ring	304 stainless steel

MegaPressG Ball Valve Model 6675.2



Part No.	Size (in)	A (in)	A1 (in)	L (in)	L1 (in)	H (in)	H1 (in)
	1						
30660	½	1.81	2.62	4.44	4.57	0.63	1.99
30665	¾	1.87	2.80	4.64	4.57	0.77	2.10
30670	1	2.53	3.16	5.69	5.77	0.91	2.46
30675	1¼	2.56	3.78	6.33	5.77	1.14	2.69
30680	1½	2.67	3.98	6.65	6.12	1.36	3.02
30685	2	2.92	4.35	7.28	6.12	1.65	3.31

Tech Data Sheet

MegaPressG Ball Valve Model 6675.3



Description

The MegaPressG ball valve comes equipped with a full port silicon bronze body, a 316 stainless steel ball, and zinc-nickel-coated steel press ends.

The ball valve is PxGJ and features an HNBR sealing element, a 420 SST grip ring, a 304 separator ring, and Viega's Smart Connect technology for easy identification of unpressed connections during pressure testing.

Features

- 316 stainless steel ball
- Lockable metal handle
- Double stem seal
- Reinforced PTFE seats
- Smart Connect technology

Ratings

- Temperature range: -40°F–180°F
- Max. operating pressure: 125 psi for fuel gas applications, 250 psi for other approved applications (see [Applications Chart](#))

Approvals

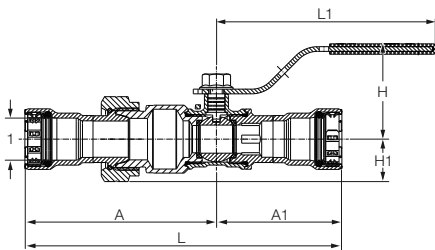
- Conforms to MSS SP-110
- ANSI LC 4/CSA 6.32
- ANSI LC 4a/CSA 6.32a
- ASME B31
- Compliance to ASME B16.44

Recommended Tools

- Standard-size press tool (minimum hydraulic ram output of 7200 lbs.)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	Bronze C87700
Ball	316 stainless steel
Seat	Reinforced PTFE
Stem seals	FKM
Nut	Zinc-plated steel
Handle	Zinc-plated steel
Handle cover	Polyvinyl
Sealing element	HNBR
Connection ends	Zinc-nickel-coated steel
Grip ring	420 stainless steel
Separator ring	304 stainless steel

MegaPressG Ball Valve Model 6675.3



Part No.	Size (in)	A (in)	A1 (in)	L (in)	L1 (in)	H (in)	H1 (in)
	1						
30690	½	4.00	2.62	6.62	4.57	1.99	0.89
30695	¾	4.19	2.80	6.99	4.57	2.10	1.08
30700	1	4.53	3.16	7.69	5.77	2.46	1.18
30705	1¼	5.65	3.78	9.43	5.77	2.69	1.50
30710	1½	5.59	3.98	9.57	6.12	3.02	1.50
30715	2	6.53	4.35	10.88	6.12	3.31	1.65

Tech Data Sheet

MegaPress 316 Globe Valve Model 5185.1



Description

The Viega MegaPress 316 Stainless Steel Globe Valve provides precise flow regulation where fluid throttling is essential. Constructed with a durable, 316 stainless steel body,

stem, seat, and disc, it provides exceptional corrosion resistance and long-lasting performance, even in demanding environments. The Viega MegaPress system utilizes an EPDM sealing element to ensure a secure, leak-proof connection. A green dot on a MegaPress press connection signifies the presence of an EPDM sealing element, engineered to deliver a safer, faster, cleaner, and more dependable seal in a range of piping applications.

Features

- 316 stainless steel body, stem, seat, and disc
- 316 MegaPress press ends with EPDM sealing element
- Adjustable PTFE stem seal packing
- Aluminum ADC 12 handwheel, rising stem
- Install in the direction of flow, not bidirectional
- Sizes: ½", ¾", 1", 1¼", 1½", 2"

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure: 250 psi

Approvals

- NSF®-61
- NSF®-372
- Conforms to MSS SP-25
- Conforms to MSS SP-80
- Conforms to MSS SP-139
- Conforms to API-598

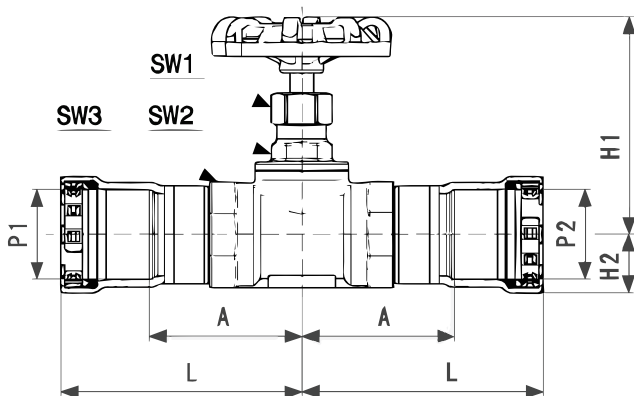
Recommended Tools

For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	316 stainless steel
Press ends	316 stainless steel with EPDM sealing element
Disc	316 stainless steel
Seat	316 stainless steel
Stem	316 stainless steel, rising
Gland	316 stainless steel
Packing	PTFE
Packing nut	Stainless steel CF8M
Handwheel	Aluminum ADC 12
Handwheel nut	304 stainless steel

MegaPress 316 Globe Valve Model 5185.1



Part No.	Size (in)	A (in)	L (in)	H1 (in)	H2 (in)
87600	½	1.81	2.87	3.07	0.63
87605	¾	1.97	3.11	3.19	0.75
87610	1	2.32	3.66	3.50	0.91
87615	1¼	2.40	4.21	3.94	1.10
87620	1½	2.52	4.37	4.65	1.22
87625	2	2.72	4.72	5.31	1.46

Valve Size (in)	Valve Stem Nut Size (packing)	Cv (US gal/min)	H1 max (in)	H2 (in)
½	WS19	2.24	3.15	0.629
¾	WS21	4.58	3.34	0.748
1	WS21	7.87	3.66	0.889
1¼	WS21	13.3	4.14	1.102
1½	WS24	18.0	4.88	1.216
2	WS28	28.1	5.55	1.445

Tech Data Sheet

MegaPress 316 Globe Valve Model 5985.1



Description

The Viega MegaPress 316 Stainless Steel Globe Valve provides precise flow regulation where fluid throttling is essential. Constructed with a durable, 316 stainless steel body,

stem, seat, and disc, it provides exceptional corrosion resistance and long-lasting performance, even in demanding environments. The Viega MegaPress system utilizes an FKM sealing element to ensure a secure, leak-proof connection. A white dot on a MegaPress press connection signifies the presence of an FKM sealing element, engineered to deliver a safer, faster, cleaner, and more dependable seal in a range of piping applications.

Features

- 316 stainless steel body, stem, seat, and disc
- MegaPress carbon steel press ends with FKM sealing element
- Adjustable PTFE stem seal packing
- Aluminum ADC 12 handwheel, rising stem
- Install in the direction of flow, not bidirectional
- Sizes: ½", ¾", 1", 1¼", 1½", 2"

Ratings

- Temperature range: 14°F–284°F, with temperature spikes (24 hours) up to 356°F
- Max. operating pressure: 250 psi

Approvals

- Conforms to MSS SP-25
- Conforms to MSS SP-80
- Conforms to MSS SP-139
- Conforms to API-598

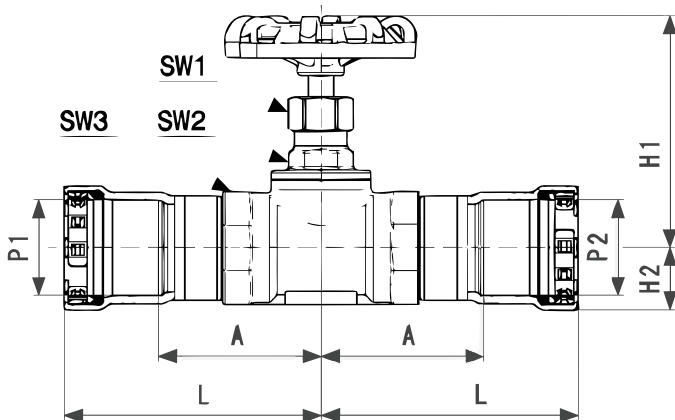
Recommended Tools

For ½" to 2":

- Standard-size press tool (minimum hydraulic ram output of 7,200 lbs)
- #56013 MegaPress jaw/ring kit (½" to 2")

Component	Material
Body	316 stainless steel
Press ends	Carbon steel with FKM sealing element
Disc	316 stainless steel
Seat	316 stainless steel
Stem	316 stainless steel, rising
Gland	316 stainless steel
Packing	PTFE
Packing nut	stainless steel CF8M
Handwheel	Aluminum ADC 12
Handwheel nut	304 stainless steel

MegaPress 316 Globe Valve Model 5958.1



Part No.	Size (in)	A (in)	L (in)	H1 (in)	H2 (in)
87630	½	1.81	2.87	3.07	0.63
87635	¾	1.97	3.11	3.19	0.75
87640	1	2.32	3.66	3.50	0.91
87645	1¼	2.40	4.21	3.94	1.10
87650	1½	2.52	4.37	4.65	1.22
87655	2	2.72	4.72	5.31	1.46

Valve Size (in)	Valve Stem Nut Size (packing)	Cv (US gal/min)	H1 max (in)	H2 (in)
½	WS19	2.24	3.15	0.629
¾	WS21	4.58	3.34	0.748
1	WS21	7.87	3.66	0.889
1¼	WS21	13.3	4.14	1.102
1½	WS24	18.0	4.88	1.216
2	WS28	28.1	5.55	1.445

Tech Data Sheet

MegaPress 316 Check Valve Model 5174



Description

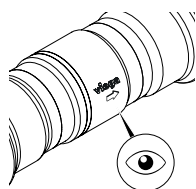
Viega's MegaPress 316 Check Valve is a spring check valve with a 316 stainless-steel body, stainless-steel spring, and MegaPress press ends. It is approved for potable water applications.

Features

- EPDM sealing element
- 0.5 psi cracking pressure
- Low pressure loss
- Silent operation
- Smart Connect technology

Operating Parameters

- Temperature range: 0°F–250°F
- Max operating pressure: 250 psi



Flow is in one direction

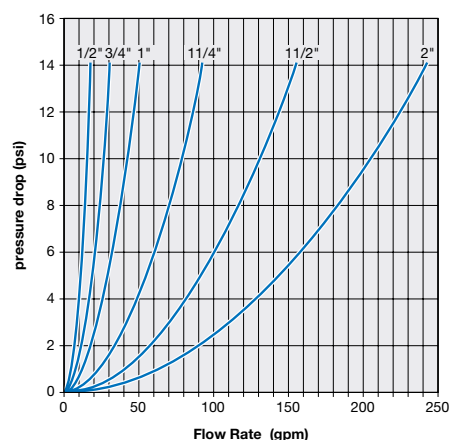
Listings and Certifications

- Conforms to MSS SP-80
- NSF® 61-372, Commercial Hot

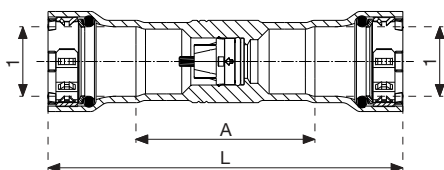
Approved Applications

- Hot and cold water
- Chilled water
- Hydronic heating water

Pressure Drop



MegaPress 316 Check Valve Model 5174



Part No. 316 EPDM	Size (in)	A (in)	L (in)
29050	1/2	2.244	4.488
29055	3/4	2.323	4.685
29060	1	2.717	5.472
29065	1 1/4	2.992	6.732
29070	1 1/2	3.346	7.165
29075	2	3.937	7.953

Tech Data Sheet

MegaPress Wafer Check Valve Model 5974XL



Description

The Viega MegaPress Epoxy Powder-Coated Ductile Iron Wafer Check Valve prevents reverse flow with a compact, lightweight design that is more efficient than traditional full-body check valves. Constructed with a durable epoxy powder-coated body, stainless steel shaft, and spring-

loaded stainless steel double disc, it ensures long-lasting performance. The FKM seal provides a tight seal while reducing noise and vibration. Designed for compatibility with Viega MegaPress flange adapters, it offers a reliable solution for various piping systems.

Features

- Epoxy powder-coated ductile iron body
- 316 stainless steel shaft and spring-loaded double disc
- FKM seal
- Sizes: 2½", 3", 4"
- Compact inline design
- Lighter than traditional full-body check valves
- Class 150 – ASME B16.5 compatible
- Compatible with Viega MegaPress flanges

Ratings

- Temperature range: 14°F–284°F, with temperature spikes (24 hours) up to 356°F
- Max. operating pressure: 250 psi

Approvals

- Conforms to MSS SP-25
- MSS SP-80
- Conforms to MSS SP-139 with Viega flange adapters
- Conforms to API-598

Viega Flange Adapter Compatibility

- 4859.5XL (MegaPress FKM)
- 4159XL (MegaPress 304SST FKM)
- 6859XL (MegaPress 316SST FKM)
- *All sold separately.*



Cracking pressures for the wafer check valves:

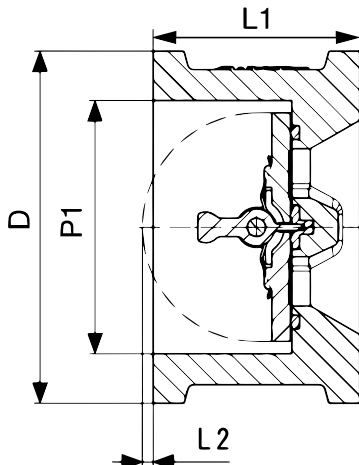
2½ – 0.032 psi

3 – 0.030 psi

4 – 0.026 psi

Component	Material
Body	Epoxy powder-coated ductile iron
Disc	A351 CF8M 316 stainless steel
Shaft	316L stainless steel
Spring	316 stainless steel
Washer	316 stainless steel
Seal	FKM

MegaPress Wafer Check Valve 5974XL



Part No.	Size (in) P1	L1 (in)	L2 (in)	D (in)
86945	2½	2.64	0.20	4.49
86950	3	2.87	0.35	5.28
86955	4	2.87	0.79	6.65

Tech Data Sheet

MegaPress 316 Wafer Check Valve Model 5174XL



Description

The Viega MegaPress 316 Stainless Steel Wafer Check Valve prevents reverse flow with a compact, lightweight design that is more efficient than traditional full-body check valves. Constructed with a durable and corrosion-resistant

316 stainless steel body, shaft, and spring-loaded double disc, it ensures long-lasting performance. The EPDM seal provides a tight seal while reducing noise and vibration. Designed for compatibility with Viega MegaPress and ProPress® flange adapters, it offers a reliable solution for various piping systems.

Features

- 316 stainless steel body, shaft, and spring-loaded double disc
- EPDM seal
- Sizes: 2 ½", 3", 4"
- Compact inline design
- Lighter than traditional full-body check valves
- Low cracking pressure
- Class 150 – ASME B16.5 compatible
- Suitable for use with Viega MegaPress and ProPress flange adapters

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure: 250 psi

Approvals

- NSF®-61
- NSF®-372
- Conforms to MSS SP-25
- Conforms to MSS SP-139 with Viega flange adapters
- Conforms to API-598

Viega Flange Adapter Compatibility

- 4059XL (ProPress 316SST)
- 5159XL (MegaPress 316SST)
- 0959.5XL (ProPress)
- *All models sold separately.*



Cracking pressures for wafer check valves:

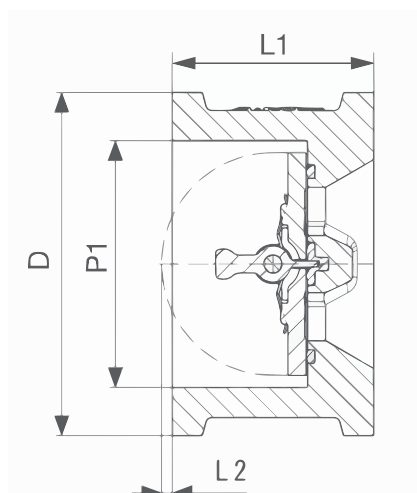
2½ – 0.032 psi

3 – 0.030 psi

4 – 0.026 psi

Component	Material
Body	316 stainless steel
Disc	A351 CF8M 316 stainless steel
Shaft	316L stainless steel
Spring	316 stainless steel
Washer	316 stainless steel
Seal	EPDM

MegaPress 316 Wafer Check Valve Model 5174XL



Part No.	Size (in) P1	L1 (in)	L2 (in)	D (in)
86960	2½	2.64	0.20	4.49
86965	3	2.87	0.35	5.28
86970	4	2.87	0.79	6.65

Tech Data Sheet

MegaPress 316 Stainless Steel Butterfly Valve Model 5179.8



Description

The Viega MegaPress 316 Stainless Steel Butterfly Valve provides reliable flow isolation and control in a compact, lightweight design that is often more cost-effective than other valve types. Its durable 316 stainless steel body and disc offer exceptional corrosion resistance and longevity, even in demanding environments. The EPDM

seal creates a tight seal while reducing noise and vibration. Designed for compatibility with Viega ProPress® and MegaPress flange adapters, it offers a dependable solution for various piping systems.

Features

- 316 stainless steel lug-style body
- 316 stainless steel disc, screw plug, and grub screw
- Bidirectional design allows installation in several positions
- Anti-blowout, stainless steel shaft
- Multi-position locking 316 stainless steel hand lever
- EPDM seal
- Sizes: 2 ½", 3", 4"
- Lighter than most ¼ turn isolation valves
- Lugged-style bolt pattern
- ISO 5211 F05 flathead actuation-ready mounting
- Class 150 – ASME B16.5 compatible
- Suitable for use with Viega MegaPress and ProPress flange adapters

Ratings

- Temperature range: 0°F–250°F
- Max. operating pressure: 250 psi

Approvals

- NSF® 61
- NSF® 372
- Conforms to MSS SP-67
- Conforms to MSS SP-25

Viega Flange Adapter Compatibility

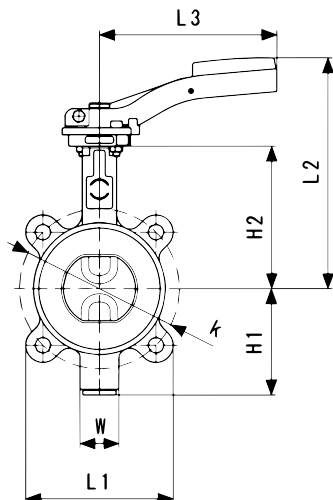
- 0959.5XL (ProPress)
- 4059XL (ProPress 316SST)
- 5159XL (MegaPress 316SST)
- *All sold separately.*

Viega Gear Operator Accessory

- 2979.88
- *Sold separately.*

Component	Material
Body	316 stainless steel
Seal	EPDM
Disc	316 stainless steel CF8M
Screw plug	316 stainless steel CF8M
Grub screw	316 stainless steel CF8M
Upper shaft	QT650 stainless steel
Lower shaft	QT650 stainless steel
Hand lever	316 stainless steel
Locking disc	316 stainless steel
Joint washer	Copper

MegaPress 316 Check Valve Model 5179.8

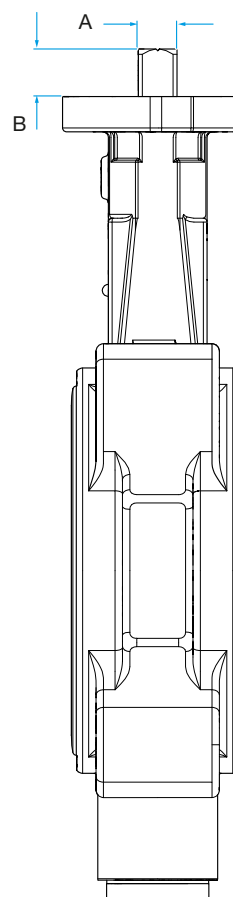
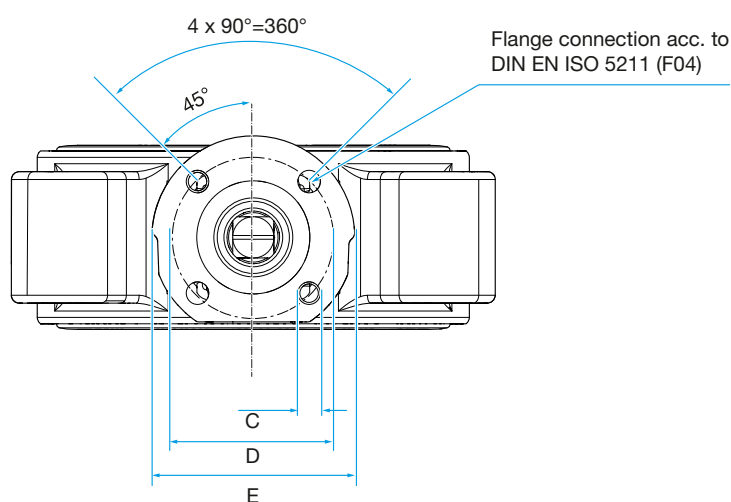


Part No.	Size (in) 1	L1 (in)	L2 (in)	L3 (in)	W (in)	k (in)	H1 (in)	H2 (in)
87675	2½	5.08	7.95	6.10	1.34	5.51	3.66	5.31
87680	3	5.51	9.21	7.68	1.42	5.98	4.09	6.18
87685	4	8.19	9.61	7.68	1.57	7.52	4.57	6.61

Actuating Torque Values

The table below shows torque values to be used as a guide for actuator selection. Increased breakaway and actuating torques may occur during operation. This can happen due to contamination or irregular use. When designing an actuator, a safety factor of at least 1.5 should be selected depending on variables such as media characteristics and number of cycles. Temperature may require an extra safety factor.

IPS (MP System)	Material No.	Part No.	Ø DN		Breakaway torque (Nm)	Actuating torque (Nm)	□ A		B		Ø C		Ø D		E	
			(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
2½	888163	87675	2.559	65	25	18	0.443	11	0.531	13.5	0.236	6	1.653	42(F04)	2.215	54
3	888173	87680	3.149	80	38	24	0.551	14	0.669	17	0.255	6.5	1.968	50(F05)	2.559	65
4	888183	87685	3.937	100	56	37	0.551	14	0.669	17	0.255	6.5	1.968	50(F05)	2.559	65



Tech Data Sheet

Gear Operator Handwheel Model 2979.88



Description

The Viega Gear Operator Handwheel is designed for use with Viega Butterfly Valves. This handwheel, equipped with a gear operator, provides precise flow control by

allowing for gradual and accurate valve positioning. The gear mechanism reduces the operating torque, minimizing the force needed to open or close the valve. This makes handwheels ideal for higher pressure applications, where a traditional lever handle operation may otherwise require more effort.

Features

- Removable stem drive inserts
- 2 keyways to cater to 45° and 90° positions
- Clockwise closing motion
- High-performance gears to increase torque
- Flange connection in accordance with ISO 5211
- IP 65 protection class
- stainless steel shaft
- Self-locking

Ratings

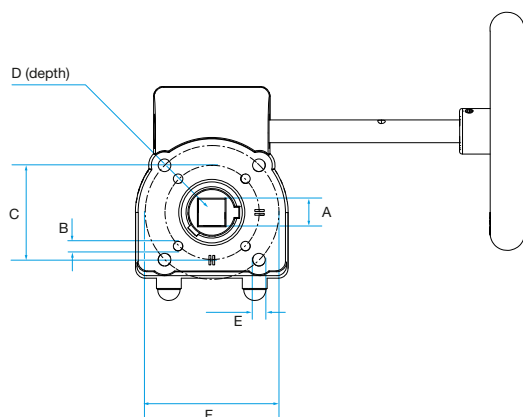
- Temperature range: -4°F–250°F

Viega Butterfly Valve Compatibility

- Model 2979.8ZL
- Model 5179.8
- All models sold separately.

Component	Material
Set screw	Steel
Needle bearings	AXK-AS/LS
Worm screw	Steel
Worm	Carbon steel
Plain bearing	Permaglide
Oil seal	Nitrile
Shaft	Protected steel
Renolit CLX2	Calcium soap
Body	Aluminum
Cover plate	Aluminum
Quadrant	Ductile iron
Position indicator	Scanblend FS7
Nut cap	Polyethylene
Inserts	Sintered steel

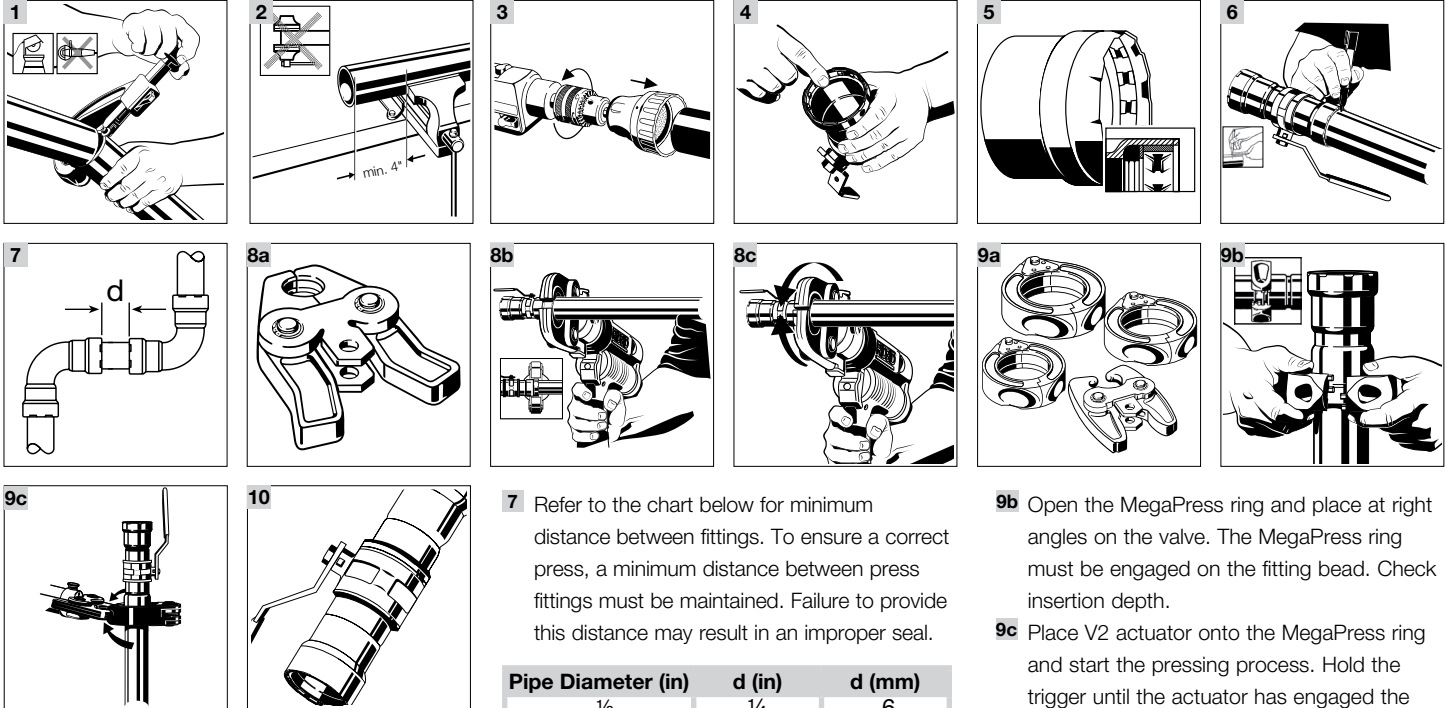
Gear Operator Handwheel Model 2979.88



Part No.	Size (in)	A (in)	B	C (in)	D (in)	E	F (in)	Torque (Nm)		Weight (lbs)
								Output	Input	
87690	2½	0.433	M5	1.65	0.945	M8	2.76	0.124	12.4	1.8
87695	3	0.551	M6	1.97	0.945	M8	2.76	0.124	12.4	1.8
87695	4	0.551	M6	1.97	0.945	M8	2.76	0.124	12.4	1.8

2 Product Instructions

MegaPress ½" to 2" Ball Valves



- 1 Cut pipe at right angles using displacement-type cutter.
- 2 Keep end of pipe a minimum of 4" away from the contact area of the vise to prevent possible damage to the pipe in the press area. See the [MegaPress Installation Manual](#) for minimum clearance required for prep tools.
- 3 Remove burr from inside and outside of the pipe and prep to proper insertion depth using a preparation tool or fine-grit sandpaper.
- 4 Check seal, separator ring, and grip ring for correct fit. Do not use oils or lubricants.
- 5 Illustration demonstrates proper fit of grip ring, separation ring, and sealing element.
- 6 Mark proper insertion depth. Improper insertion depth may result in an improper seal. The depth marking shall be visible on the completed assembly.

Pipe Size (in)	Insertion Depth (in)
½	1 1/16
¾	1 3/16
1	1 3/8
1¼	1 13/16
1½	1 7/8
2	2

- 7 Refer to the chart below for minimum distance between fittings. To ensure a correct press, a minimum distance between press fittings must be maintained. Failure to provide this distance may result in an improper seal.

Pipe Diameter (in)	d (in)	d (mm)
½	¼	6
¾	¼	6
1	¼	6
1¼	½	13
1½	½	13
2	½	13

- 8a Viegas MegaPress ½" to 1" valve connections must be performed using MegaPress jaws. See the press tool's Operator's Manual for proper tool instructions.
- 8b While turning slightly, slide valve onto pipe to the marked depth. End of pipe must contact stop. Open the MegaPress jaw and place at right angles on the valve. Visually check insertion depth using the mark on pipe.
- 8c Start pressing process and hold the trigger until the jaw has engaged the valve.

Warning!
Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 9a Viegas MegaPress 1¼" to 2" valve connections must be performed with MegaPress rings and V2 actuator. See the tool's Operator's Manual for proper tool instructions.

- 9b Open the MegaPress ring and place at right angles on the valve. The MegaPress ring must be engaged on the fitting bead. Check insertion depth.
- 9c Place V2 actuator onto the MegaPress ring and start the pressing process. Hold the trigger until the actuator has engaged the MegaPress ring.
- 10 Remove MegaPress jaw from valve or release V2 actuator from the MegaPress ring and then remove the MegaPress ring from the valve on completion of press. Remove control label to indicate press has been completed.

Warning!
This ball valve has two screw-in pieces. Once the valve is pressed, DO NOT attempt to adjust the screw-pieces to the body

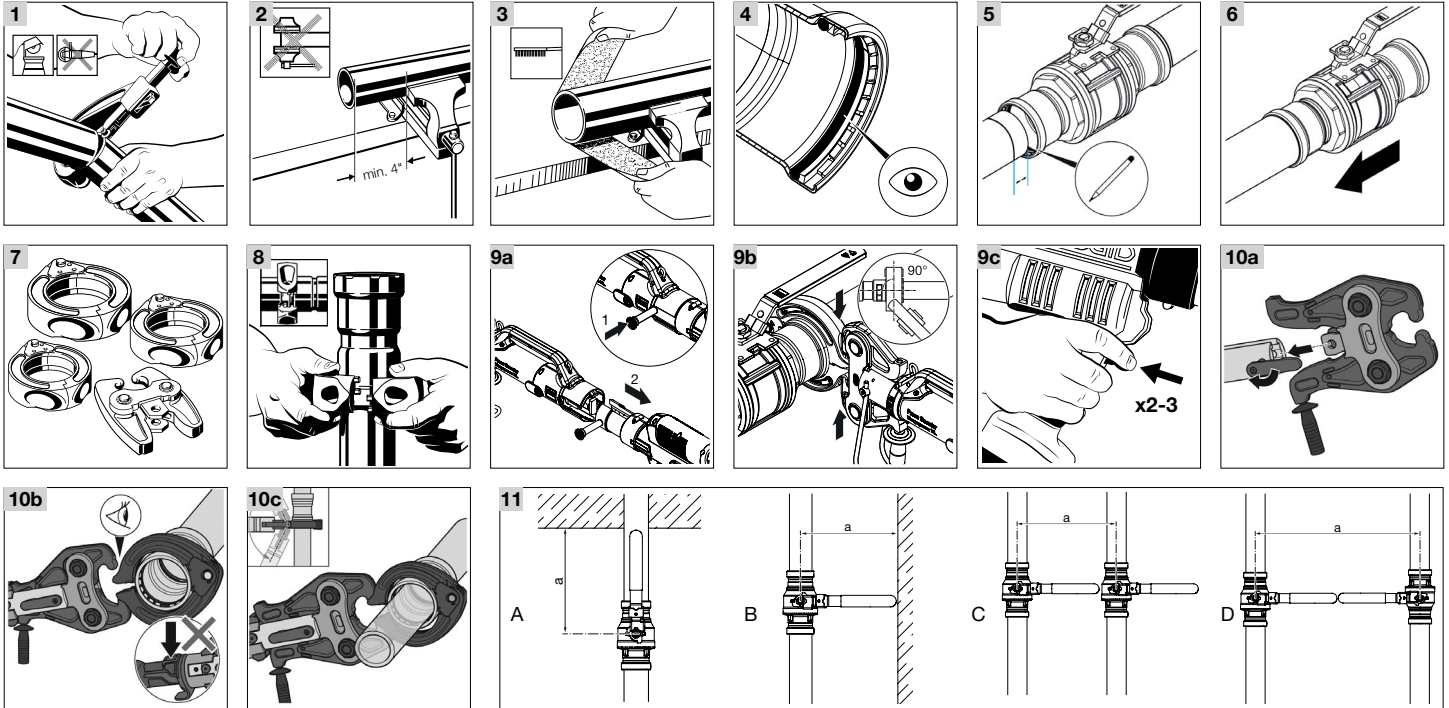
Warning!
Pipe wrench flats are only allowed on the nut of the valve, not on the adapter piece, housing, or any other piece. Do not use pliers to turn the ball valve, only a pipe wrench.

Caution!
Ball valves are to be used in only the fully closed or fully opened position.

Warning!
Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

Product Instructions

MegaPress 2½" to 4" Ball Valves



Viega recommends using pipe hangers with a distance of 6" to 8" in front of and behind the press connections or in accordance with local codes.

- 1 Cut pipe at right angles using displacement-type cutter.
- 2 Keep end of pipe a minimum of 4" away from the contact area of the vise to prevent possible damage to the pipe in the press area.
- 3 Remove burr from inside and outside of the pipe and prep to proper insertion depth using a preparation tool or fine grit sandpaper.
- 4 Check seal, separator ring, and grip ring for correct fit. Illustration demonstrates proper fit.
- 5 Mark proper insertion depth. Improper insertion depth may result in an improper seal. The depth marking shall be visible on the completed assembly.

Pipe Size (in)	Insertion Depth (in)
2½	1 13/16
3	2 5/16
4	3 1/8

- 6 While turning slightly, slide valve onto pipe to the marked depth. End of pipe must contact stop.
- 7 Viega MegaPress 2½" to 4" valve connections must be made using MegaPress XL rings and either the MegaPress XL PressBooster or the MegaPress Z3 actuator.



Warning!

Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 8 Open MegaPress XL ring and place at right angles on the valve. The MegaPress XL ring must be engaged on the valve bead. Check insertion depth.

Pressing with MegaPress XL PressBooster

- 9a Remove the retaining bolt of the press machine. Slide the PressBooster in via the press jaw fixture. Slide the retaining bolt of the press machine in as far as it will go.
- 9b To open the PressBooster jaw, pull the handle at the hinged adapter jaw back. Place PressBooster onto the MegaPress XL ring by inserting the ball heads of the hinged adapter jaw into the contact points of the XL ring. Push the handle forward to close the hinged adapter jaw.
- 9c Hold the trigger until the actuator has engaged the MegaPress XL ring. The PressBooster requires two presses of the trigger to execute a complete press. A third press may be needed to initiate a release cycle to reset the rollers back to the original position.

Pressing with MegaPress Z3 Actuator

- 10a On the press tool, rotate the retaining pin handle 180 degrees and pull it out to open the slot for the actuator. Insert the Viega Z3 actuator into the slot on the press tool. On the press tool, push the retaining pin back in and rotate it 180 degrees.
- 10b Open the Viega Z3 actuator by pulling the handle back. Place the open Viega Z3 actuator onto the MegaPress XL ring by inserting the ball heads of the actuator into the contact points of the XL ring. Close the Z3 actuator.

- 10c Start the pressing process by holding the press tool trigger until the actuator has engaged the XL ring. When the press cycle is complete, the actuator will stop and release.

- 11 A Vertical clearance
B Horizontal clearance
C Minimum clearance between 2 ball valves
D Minimum clearance between 2 ball valves, handles facing each other

Ball Valve	a for A, B, C	a for A, B, C	a for D	a for D
2½"	11.2"	285 mm	22.4"	570 mm
3"	11.2"	285 mm	22.4"	570 mm
4"	13"	330 mm	26"	660 mm



Warning!

This ball valve has two screw-in pieces. Once the valve is pressed, DO NOT attempt to adjust the screw-pieces to the body



Warning!

Pipe wrench flats are only allowed on the nut of the valve, not on the adapter piece, housing, or any other piece. Do not use pliers to turn the ball valve, only a pipe wrench.



Caution!

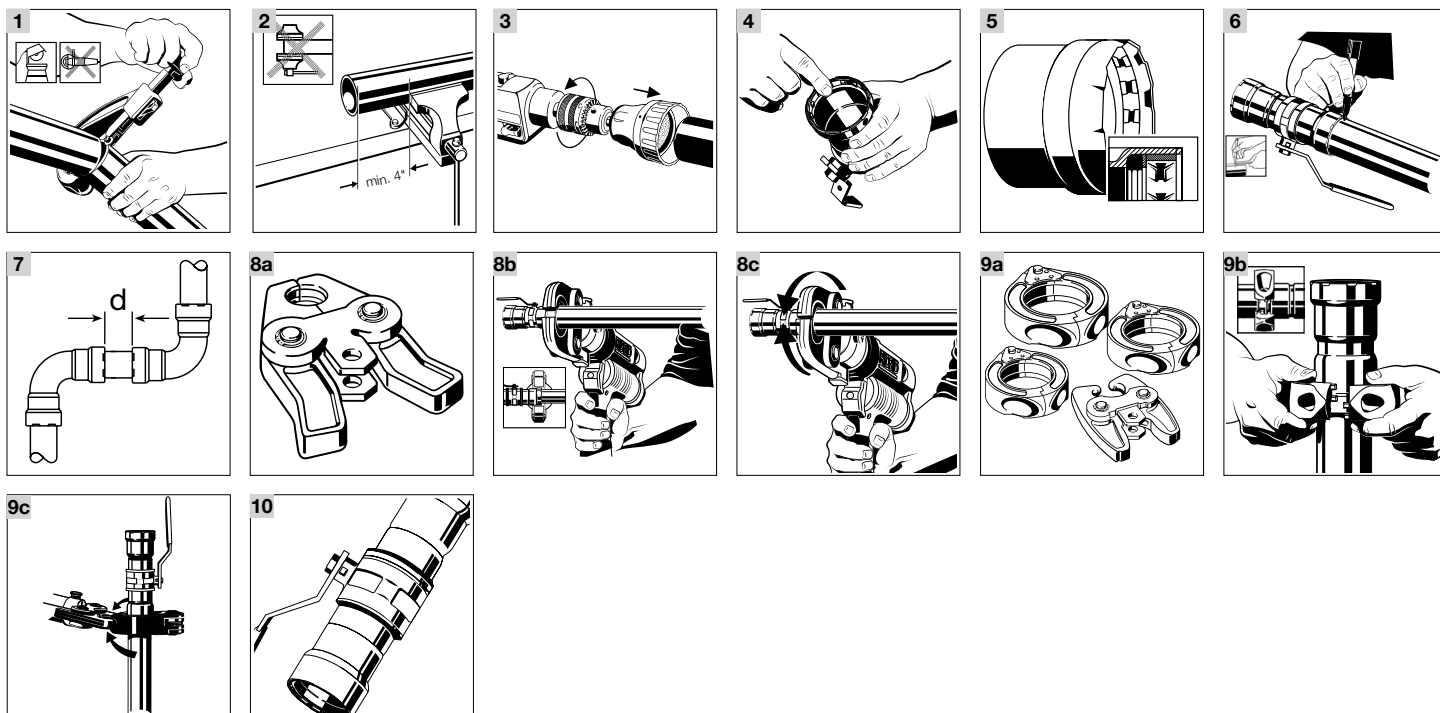
Ball valves are to be used in only the fully closed or fully opened position.



Valves must be exercised from fully opened to fully closed periodically to assure continued function. Viega recommends valves be put on a routine, periodic maintenance program.

Product Instructions

MegaPressG ½" to 2" Ball Valves



Danger!
Read and understand all instructions for installing Viega MegaPressG valves. Failure to follow all instructions may result in extensive property damage, serious injury, or death.

Caution!
The valves are for use with fuel gases and are intended for the operating pressure 0-125 psi.

Caution!
The fuel gas system shall not be used as a grounding electrode for an electrical system.

- 1 Cut pipe at right angles using displacement-type cutter.
- 2 Keep end of pipe a minimum of 4" away from the contact area of the vise to prevent possible damage to the pipe in the press area. See the [MegaPress Installation Manual](#) for minimum clearance required for prep tools.
- 3 Remove burr from inside and outside of the pipe and prep to proper insertion depth using a preparation tool or fine-grit sandpaper.
- 4 Check seal, separator ring, and grip ring for correct fit. Do not use oils or lubricants.

Pipe Size (in)	Insertion Depth (in)
½	1 ⅛
¾	1 ¾
1	1 ⅝
1 ¼	1 ⅞
1 ½	1 ⅞
2	2

- 5 Illustration demonstrates proper fit of grip ring, separation ring, and sealing element.

Pipe Diameter (in)	d (in)	d (mm)
½	¼	6
¾	¼	6
1	¼	6
1 ¼	½	13
1 ½	½	13
2	½	13

- 6 Mark proper insertion depth. Improper insertion depth may result in an improper seal. The depth marking shall be visible on the completed assembly.

- 7 Refer to the chart below for minimum distance between fittings. To ensure a correct press, a minimum distance between press fittings must be maintained. Failure to provide this distance may result in an improper seal.

Warning!
Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

Caution!
Ball valves are to be used in only the fully closed or fully opened position.

- 8a Viega MegaPress ½" to 1" valve connections must be performed using MegaPress jaws. See the press tool's Operator's Manual for proper tool instructions.

- 8b While turning slightly, slide valve onto pipe to the marked depth. End of pipe must contact stop. Open the MegaPress jaw and place at right angles on the valve. Visually check insertion depth using the mark on pipe.

- 8c** Start pressing process and hold the trigger until the jaw has engaged the fitting.
- 9a** Viega MegaPress 1¼" to 2" valve connections must be performed with MegaPress rings and V2 actuator. See the tool's Operator's Manual for proper tool instructions.
- 9b** Open the MegaPress ring and place at right angles on the valve. The MegaPress ring must be engaged on the valve bead. Check insertion depth.
- 9c** Place V2 actuator onto the MegaPress ring and start the pressing process. Hold the trigger until the actuator has engaged the MegaPress ring.
- 10** Remove MegaPress jaw from fitting or release V2 actuator from the MegaPress ring and then remove the MegaPress ring from the fitting on completion of press. Remove control label to indicate press has been completed.


Warning!

This ball valve has two screw-in pieces. Once the valve is pressed, DO NOT attempt to adjust the screw-pieces to the body


Warning!

Pipe wrench flats are only allowed on the nut of the valve, not on the adapter piece, housing, or any other piece. Do not use pliers to turn the ball valve, only a pipe wrench.



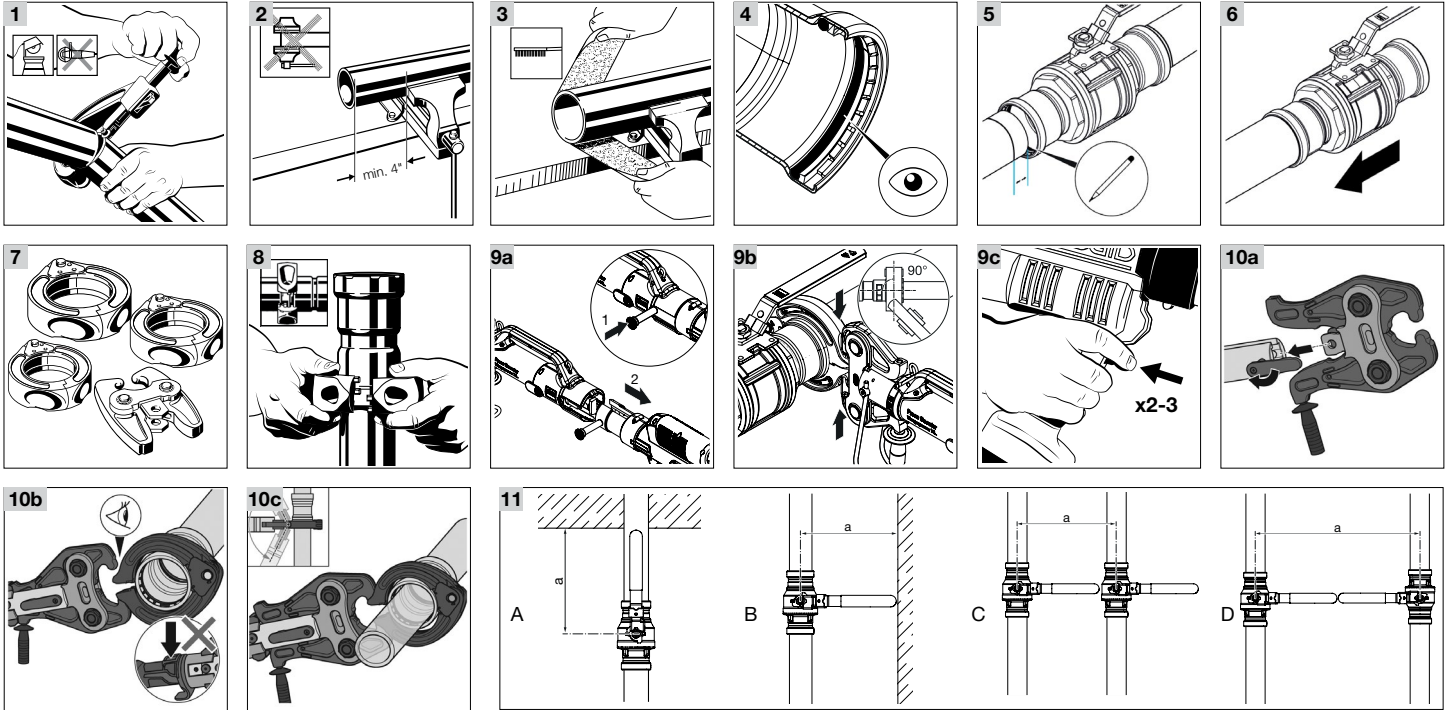
The installation, inspection, testing and purging of the fuel gas system shall be in accordance with local codes or, in the absence of local codes, in accordance with the International Fuel Gas Code, NFPA 54/National Fuel Gas Code z223.1, the Uniform Plumbing Code, NFPA 58 or CSA B 149.1 as applicable.


Maintenance Recommendation:

Ball valves must be operated regularly, ideally every 6 months, but at least once a year. Before installing accessories, operate the valve fully opened and closed with the standard handle.

Product Instructions

MegaPressG 2½" to 4" Ball Valves



Danger!

Read and understand all instructions for installing Viega MegaPressG valves.

Failure to follow all instructions may result in extensive property damage, serious injury, or death.



Caution!

The fittings are for use with fuel gases and are intended for the operating pressure 0-125 psi.



Caution!

The fuel gas system shall not be used as a grounding electrode for an electrical system.



Viega recommends using pipe hangers with a distance of 6" to 8" in front of and behind the press connections or in accordance with local codes.

- 1 Cut pipe at right angles using displacement-type cutter.
- 2 Keep end of pipe a minimum of 4" away from the contact area of the vise to prevent possible damage to the pipe in the press area.
- 3 Remove burr from inside and outside of the pipe and prep to proper insertion depth using a preparation tool or fine-grit sandpaper.
- 4 Check seal, separator ring, and grip ring for correct fit. Illustration demonstrates proper fit.



Caution!

Due to the brittle nature of the graphite separator ring, extra care must be taken when sliding the valve onto the pipe so as not to damage the separator ring.

- 5 Mark proper insertion depth. Improper insertion depth may result in an improper seal. The depth marking shall be visible on the completed assembly.

Pipe Size (in)	Insertion Depth (in)
2½	1 ¹³ / ₁₆
3	2 ⁵ / ₁₆
4	3 ¹ / ₈

- 6 While turning slightly, slide valve onto the pipe to the marked depth. End of pipe must contact stop.
- 7 Viega MegaPress 2½" to 4" valve connections must be made using MegaPress XL rings and either the MegaPress XL PressBooster or the MegaPress Z3 actuator.



Warning!

Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 8 Open MegaPress XL ring and place at right angles on the valve. The MegaPress XL ring must be engaged on the valve bead. Check insertion depth.

Pressing with MegaPress XL PressBooster

- 9a Remove the retaining bolt of the press machine. Slide the PressBooster in via the press jaw fixture. Slide the retaining bolt of the press machine in as far as it will go.

- 9b To open the PressBooster jaw, pull the handle at the hinged adapter jaw back. Place PressBooster onto the MegaPress XL ring by inserting the ball heads of the hinged adapter jaw into the contact points of the XL ring. Push the handle forward to close the hinged adapter jaw.
- 9c Hold the trigger until the actuator has engaged the MegaPress XL ring. The PressBooster requires two presses of the trigger to execute a complete press. A third press may be needed to initiate a release cycle to reset the rollers back to the original position.

Pressing with MegaPress Z3 Actuator

- 10a On the press tool, rotate the retaining pin handle 180 degrees and pull it out to open the slot for the actuator. Insert the Viega Z3 actuator into the slot on the press tool. On the press tool, push the retaining pin back in and rotate it 180 degrees.
- 10b Open the Viega Z3 actuator by pulling the handle back. Place the open Viega Z3 actuator onto the MegaPress XL ring by inserting the ball heads of the actuator into the contact points of the XL ring. Close the Z3 actuator.
- 10c Start the pressing process by holding the press tool trigger until the actuator has engaged the XL ring. When the press cycle is complete, the actuator will stop and release.

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 B Horizontal clearance
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 D Minimum clearance between 2 ball valves, handles facing each other

Ball Valve	a for A, B, C	a for A, B, C	a for D	a for D
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4"	13"	330 mm	26"	660 mm

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Maintenance Recommendation:
 Ball valves must be operated regularly, ideally every 6 months, but at least once a year. Before installing accessories, operate the valve fully opened and closed with the standard handle.