Mustang Series Basic Valves

LEAD FREE*

M6518 / M61518

Reduced Port Ductile Iron Dual Chamber Basic Valve with Mechanical Check Feature

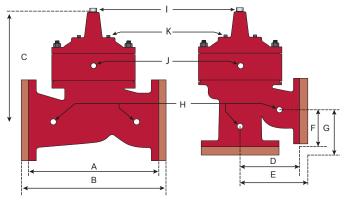
The Watts ACV Models M6518 and M16518 are reduced port, dual chamber basic valves that incorporate a two-piece telescoping disc and diaphragm assembly. This assembly is the only moving part within the valve, allowing it to open or close as commanded by the pilot control system. The lower portion of this two-piece assembly is a mechanical check feature, which acts independent of diaphragm position or pilot control system, and provides immediate check action when flow ceases.

When pressure is applied to the upper diaphragm chamber and released from the lower diaphragm chamber, the valve travels to a closed position. When pressure is applied to the lower diaphragm chamber and released from the upper diaphragm chamber the valve travels to a full open position.

Watts ACV Main Valves are Lead Free. The Watts ACV piloting system contains Lead Free* components, ensuring all of our configurations are Lead Free compliant.

M6518 (Globe)

M61518 (Angle)



Model M6518: Globe Pattern Dual Chamber Basic Valve with Mechanical Check Feature

Model M61518: Angle Pattern Dual Chamber Basic Valve with Mechanical Check Feature

Dimensions

Valve Size	Globe	150#	Globe	300#	Cover To	o Center	Angle	150#	Angle	300#	Angle	150#	Angle	300#	Port Size NPT	Port Size NPT	Port Size NPT	Shipp Weig	
	/	A		3	(C	[)				F	(ì	Н	I	J		
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	in.	in.	lbs.	kgs.
3	101/4	260	11	279	91/16	230									3/8	1/2	1/2	31	14
4	13%	352	141/2	368	11%	302	615/16	176	71/4	184	5½	140	5 ¹³ / ₁₆	148	1/2	1/2	1/2	50	23
6	17¾	451	18%	473	151/4	387	8%	225	93/8	238	6¾	171	71/4	184	3/4	3/4	3/4	130	59
8	21%	543	22%	568	201/8	511	1011/16	271	113/16	289	71/4	184	73/4	197	3/4	3/4	3/4	210	95
10	26	660	27%	695	231/16	598									1	1	1	363	165
12	30	762	311/2	800	27	684									1	1	1	528	240
16	35	889			341/4	870									1	11/4	1	826	375
18	48	1219			40	1016									1	2	1	1365	620
20	48	1219			40	1016									1	2	1	1390	630
24	48	1219			40	1016									1	2	1	1485	674

Standard Materials

Body & Cover: Ductile Iron ASTM A536

Coating: NSF Listed Fusion Bonded Epoxy Lined

and Coated

Trim: 316 Stainless Steel

Elastomers: Buna-N (standard) EPDM (optional)

Viton (optional)

Stem, Nut &

Spring: Stainless Steel

Operating Temperature

Operating Pressure

150 Flanged = 250psi (17.2 bar) 300 Flanged = 400psi (27.6 bar)

Buna-N: 160°F (71°C) Maximum EPDM: 300°F (140°C) Maximum Viton®: 250°F (121°C) Maximum

Epoxy Coating**: 225°F (107°C) Maximum

** Valves can be provided without internal epoxy coating consult factory

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Viton® is a registered trademark of DuPont Dow Elastomers.



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

M6518 / M61518 — Reduced Port Ductile Iron Dual Chamber Basic Valve with Mechanical Check Feature

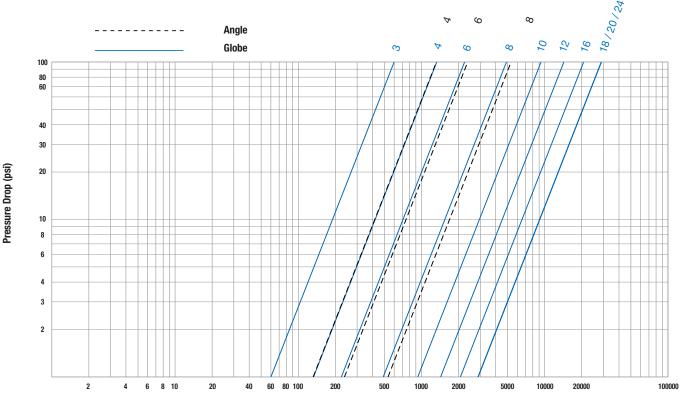
Flow Data - ACV M6518 (Globe) / M61518 (Angle)

	Valve Size - Inches	3	4	6	8	10	12	16	18	20	24
pa	Maximum Continuous Flow Rate Gpm (Water)	210	485	800	1850	3100	5000	7000	11100	11100	11100
Suggested	Maximum Intermittent Flow Rate Gpm (Water)	265	590	1000	2300	4000	6250	8900	14100	14100	14100
Su	Minimum Flow Rate Gpm (Water)	6	15	16	17	25	55	70	400	400	400
3	Factor GPM (Globe)	60	133	224	489	932	1428	2067	2881	2881	2881
0	Factor GPM (Angle)		132	237	534						

- Maximum continuous flow based on velocity of 20 ft. per second.
- Maximum intermittent flow based on velocity of 25 ft. per seco
- Minimum flow rates based on a 20-40 psi pressure drop.
- The C_v Factor of a value is the flow rate in US GPM at 60° F that will cause a 1psi drop in pressure.
- C_v factor can be used in the following equations to determine Flow
 (Q) and Pressure Drop (ΔP):
 - Q (Flow) = $C_v \sqrt{\Delta P}$

 ΔP (Pressure Drop) = $(Q/C_v)^2$

- The C_v factors stated are based upon a fully open valve.
- Many factors should be considered in sizing control valves including inlet pressure, outlet pressure and flow rates.
- For sizing questions including cavitation analysis consult Watts with system details.



Flow Rate - Gallons per minute (Water)

Valve Cover Chamber Capacity

Valve Size (in)	3	4	6	8	10	12	16	18	20	24
fl.oz.	4	10	22	70						
U.S. Gal					11/4	21/2	4	91/2	91/2	91/2

Valve Travel

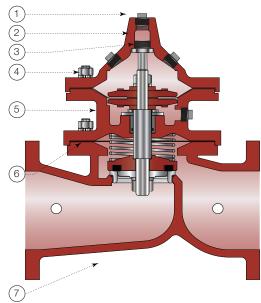
Valve Size (in)	3	4	6	8	10	12	16	18	20	24
(in)	1/2	3/4	1	11/2	2	21/2	3	4	4	4

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LEAD FREE*

M6518

Reduced Port Ductile Iron Dual Chamber Basic Valve with Mechanical Check Feature



DESCRIPTION	ITEM	DECCRIPTION	MATERIAL
2 Cover ASTM A536 65-45-12 Epoxy Coated Ductile Iron 3 Cover Bearing ASTM A276 304 Stainless Steel 4 Stud with Cover Nut & Washer ASTM A570 Gr.33 Zinc Plated Steel 5 Upper Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 6 Gasket Seal Buna-N (Nitrile) 7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 302 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 304 Stainless Steel 13A Bearing Retaining Ring** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile)			
3 Cover Bearing ASTM A276 304 Stainless Steel 4 Stud with Cover Nut & Washer ASTM A570 Gr.33 Zinc Plated Steel 5 Upper Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 6 Gasket Seal Buna-N (Nitrile) 7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm* ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 302 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 302 Stainless Steel 15 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Stee			
4 Stud with Cover Nut & Washer ASTM A570 Gr.33 Zinc Plated Steel 5 Upper Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 6 Gasket Seal Buna-N (Nitrile) 7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 302 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retaining Ring** (6" and Larger) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring** (6" and Larger) ASTM A276 304 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 302 Stainless Steel		*****	
5 Upper Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 6 Gasket Seal Buna-N (Nitrile) 7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring*** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 304 Stainless Steel 20 Disc Retainer ASTM A536 65-45-12 Epoxy Coated Ductile Iron	_	<u> </u>	
6 Gasket Seal Buna-N (Nitrile) 7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 304 Stainless Steel 20 Disc Retainer ASTM A36 65-45-12 Epoxy Coated Ductile Iron 21 Spacer Washer* NY300 Fiber 22 Disc	4	Stud with Cover Nut & Washer	ASTM A570 Gr.33 Zinc Plated Steel
7 Body ASTM A536 65-45-12 Epoxy Coated Ductile Iron 8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 302 Stainless Steel 20 Disc Retainer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 21 Spacer Washer* N'300 Fiber 22 Disc* Buna-N (Nitrile) 23 Disc Guid			ASTM A536 65-45-12 Epoxy Coated Ductile Iron
8 Stem Nut ASTM A276 304 Stainless Steel 9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring*** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 302 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 304 Stainless Steel 20 Disc Retainer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 21 Spacer Washer* NY300 Fiber 22 Disc* Buna-N (Nitrile) 23 Disc Guide ASTM A743 CF8M (316) Stainless Steel 24 Lock Wash		Gasket Seal	Buna-N (Nitrile)
9 Lock Washer ASTM A276 302 Stainless Steel 10 Diaphragm Washer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 11 Diaphragm* Buna-N (Nitrile) 12 Inner Bearing Bolts** (4" and Smaller) ASTM A276 304 Stainless Steel 13 Inner Bearing Retainer** (4" and Smaller) ASTM A276 302 Stainless Steel 13A Bearing Retaining Ring*** (6" and Larger) ASTM A276 302 Stainless Steel 14 Inner Bearing ASTM A276 304 Stainless Steel 15 O-ring* Buna-N (Nitrile) 16 O-ring* Buna-N (Nitrile) 17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 302 Stainless Steel 20 Disc Retainer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 21 Spacer Washer* NY300 Fiber 22 Disc* Buna-N (Nitrile) 23 Disc Guide ASTM A743 CF8M (316) Stainless Steel 24 Lock Washer ASTM A276 304 Stainless Steel 25 Stem	7	Body	ASTM A536 65-45-12 Epoxy Coated Ductile Iron
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17 Upper Stem ASTM A276 304 Stainless Steel 18 Lower Stem ASTM A276 304 Stainless Steel 19 Spring ASTM A276 302 Stainless Steel 20 Disc Retainer ASTM A536 65-45-12 Epoxy Coated Ductile Iron 21 Spacer Washer* NY300 Fiber 22 Disc* Buna-N (Nitrile) 23 Disc Guide ASTM A743 CF8M (316) Stainless Steel 24 Lock Washer ASTM A276 304 Stainless Steel 25 Stem Nut ASTM A276 304 Stainless Steel 26 Seat Ring*** ASTM A743 CF8M (316) Stainless Steel 26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	15	0-ring*	Buna-N (Nitrile)
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24 Lock Washer ASTM A276 304 Stainless Steel 25 Stem Nut ASTM A276 304 Stainless Steel 26 Seat Ring*** ASTM A743 CF8M (316) Stainless Steel 26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	22	Disc*	Buna-N (Nitrile)
25 Stem Nut ASTM A276 304 Stainless Steel 26 Seat Ring*** ASTM A743 CF8M (316) Stainless Steel 26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	23	Disc Guide	ASTM A743 CF8M (316) Stainless Steel
26 Seat Ring*** ASTM A743 CF8M (316) Stainless Steel 26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	24	Lock Washer	ASTM A276 304 Stainless Steel
26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	25	Stem Nut	ASTM A276 304 Stainless Steel
26A Seat Screw*** (10" and Larger) ASTM A276 304 Stainless Steel	26	Seat Ring***	ASTM A743 CF8M (316) Stainless Steel
	26A		ASTM A276 304 Stainless Steel
	27		Buna-N (Nitrile)

