

For Health Hazard Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series 009

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

Sizes: 1/4" - 3" (8 - 80mm)

The Watts Series 009 Reduced Pressure Zone Backflow Preventers are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of high hazard cross connections in piping systems or for containment at the service line entrance.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes 1/4" - 1" (8-25mm) shutoffs have tee handles.

FEATURES

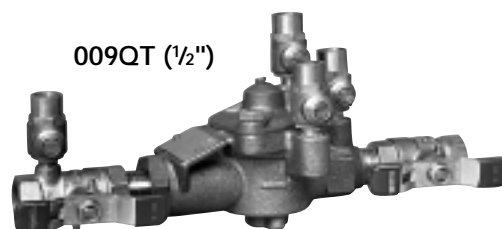
- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Bronze body construction for durability - 1/4" to 2" (8-50mm)
- Fused epoxy coated cast iron body - 2 1/2" and 3" (65-80mm)
- Ball valve test cocks - screwdriver slotted - 1/4" to 2" (8-50mm)
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing

SPECIFICATIONS

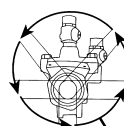
A reduced pressure zone backflow preventer shall be installed at each potential health hazard location to prevent backflow due to backsiphonage and/or backpressure. The assembly shall consist of an internal pressure differential relief valve located in a zone between two positive seating check modules with captured springs and silicone seat discs. Seats and seat discs shall be replaceable in both check modules and the relief valve. There shall be no threads or screws in the waterway exposed to line fluids. Service of all internal components shall be through a single access cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves, four resilient seated test cocks and an air gap drain fitting. The assembly shall meet the requirements of: USC Manual 8th Edition¹; ASSE Std. 1013; AWWA Std. C511; CSA B64.4. Shall be a Watts Regulator Co. Series 009.

¹Does not indicate approval status. Refer to Page 2 for approved sizes & models.

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.



009QT (1/2")

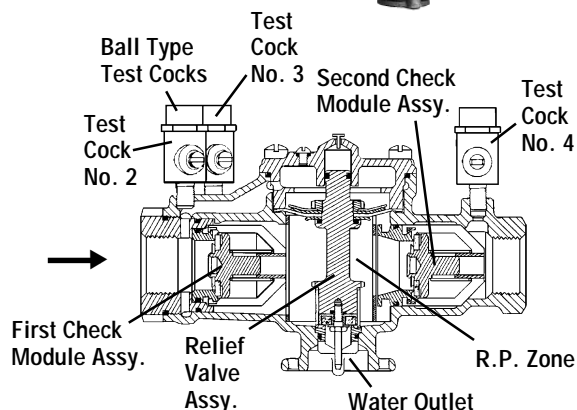
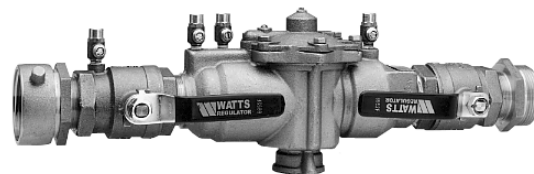


Unique Swivel Union



U009AQT (1")

009M2QTHC (2")



**Now Available,
WattsBox Insulated Enclosures.**

For more information, send for ES-WB or ES-WB-T.

A LEADER IN VALVE TECHNOLOGY
 **WATTS**
 REGULATOR
 Since 1874 Watts Industries, Inc.
 Water Products Division • Safety & Control Valves

AVAILABLE MODELS - 1/4" to 2"

Suffix:

- QT - with quarter-turn, full port, resilient seated ball valve shutoffs
- S - with bronze strainer
- LF - without shutoffs
- AQT - elbow fittings for 360° rotation (3/4"-2" only) (20-50mm only)
- PC - with internal Polymer Coating
- LH - with locking handle ball valves (open position)
- SH - with stainless steel ball valve handles
- HC - with inlet/outlet fire hydrant fittings (2" only)

Prefix:

- C - with integrated strainer and check (3/4"-1" only) (20-25mm only)
- U - union connections

AVAILABLE MODELS - 2 1/2" to 3"

Suffix:

- NRS - with NRS resilient seated gate valve shutoffs.
- OS&Y - with OS&Y resilient seated gate valve shutoffs.
- S-FDA - with FDA epoxy coated strainer.
- QT-FDA - with FDA epoxy coated full port ball valve shutoffs.
- LF - without shutoff valves.
- S - with non-epoxy strainer.

Note: The installation of a drain line is recommended. When installing a drain line, an air gap is necessary (see ES-AG).

MATERIALS - 1/4" to 2"

Bronze body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.

Standardly furnished with NPT body connections. For optional bronze union inlet and outlet connections, specify prefix U (1/2" - 2")(15-50mm). Series 009QT furnished with quarter turn, full port, resilient seated, bronze ball valve shutoffs.

MATERIALS - 2 1/2" to 3"

- (FDA approved) Epoxy coated cast iron unibody with bronze seats
- Relief valve with stainless steel seat and trim
- Bronze body ball valve test cocks

PRESSURE-TEMPERATURE

Series 009 1/4" - 2" (8-50mm) is suitable for supply pressure up to 175 psi (12 bars). Water temperature: 33°F - 180°F (-3°C to 75°C).

Sizes 2 1/2" and 3" (65-80mm) are suitable for supply pressures up to 175 psi (12 bars) and water temperature at 110°F (43°C) continuous, 140°F (60°C) intermittent.

STANDARDS

USC Manual 8th Edition†

ASSE No. 1013

AWWA C511-92

CSA B64.4

IAPMO File No. 1563.

†Does not indicate approval status. See below for approved models.



APPROVALS

ASSE, AWWA, CSA, IAPMO

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Approval models QT, AQT, PC, U, NRS, OSY.

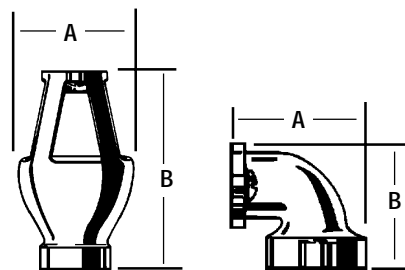
UL Classified 3/4" - 2" (20-50mm) (LF models only), 2 1/2" and 3" with OSY gate valves.

IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS

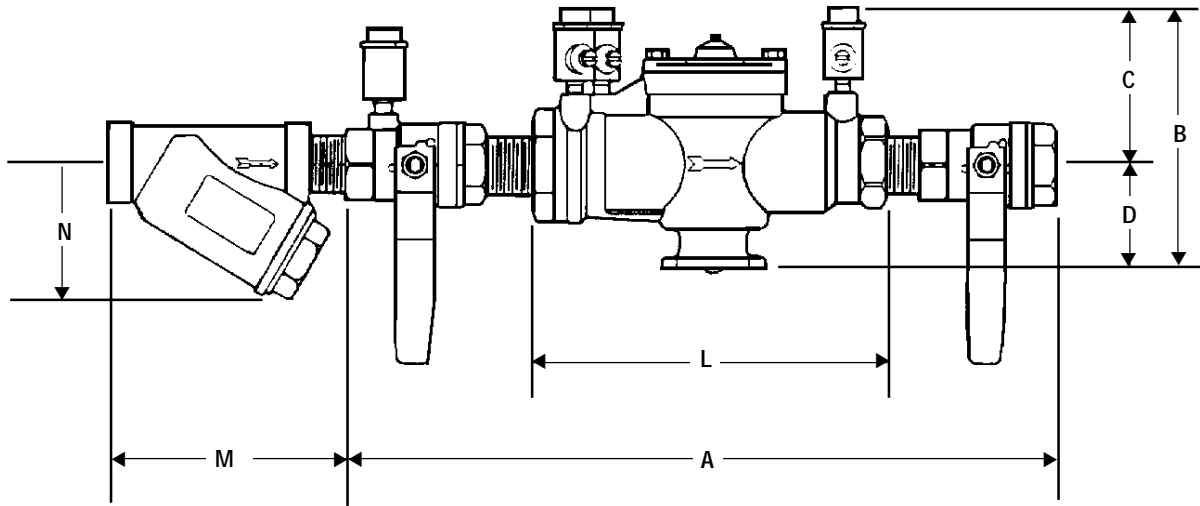
Air Gaps and Elbows

Iron Body No.	for 909, 009 and 993 Sizes	Drain Outlet Sizes		Dimensions				Weight	
		in.	mm	A in.	A mm	B in.	B mm	lbs	kgs
909AG-A	1/4"-1/2" 009, 3/4" 009M2/M3	1/2	13	2 3/8	60	3 1/8	79	.625	.28
909AG-C	3/4"-1" 009/909, 1"-1 1/2" 009M2	1	25	3 1/4	83	4 7/8	124	1.50	.68
909AG-F	1 1/4"-2" 009M1, 1 1/4"-3" 009/909, 2" 009M2, 4"-6" 993	2	51	4 3/8	111	6 3/4	171	3.25	1.47
909AG-K	4"-6" 909, 8"-10" 909M1	3	76	6 3/8	162	9 5/8	243	6.25	2.83
909AG-M	8"-10" 909	4	102	7 3/8	187	11 1/4	394	15.50	7.03
909EL-A	1/4"-1/2" 009, 3/4" 009M2/M3	—	—	—	—	—	—	—	—
909EL-C	3/4"-1" 009/909, 1"-1 1/2" 009M2	—	—	2 3/8	60	2 3/8	60	.38	.17
*909EL-F	1 1/4"-2" 009M1, 1 1/4"-2" 009/909, 2" 009M2, 4"-6" 993	—	—	3 5/8	92	3 5/8	92	2	.91
*909EL-H	2 1/2"-3" 009/909 Vertical	—	—	—	—	—	—	—	—

* Epoxy coated



DIMENSIONS and WEIGHT - 1/4" to 2" 009

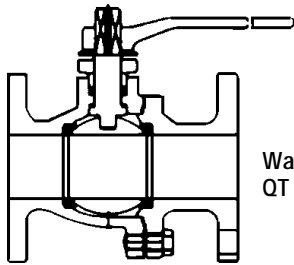
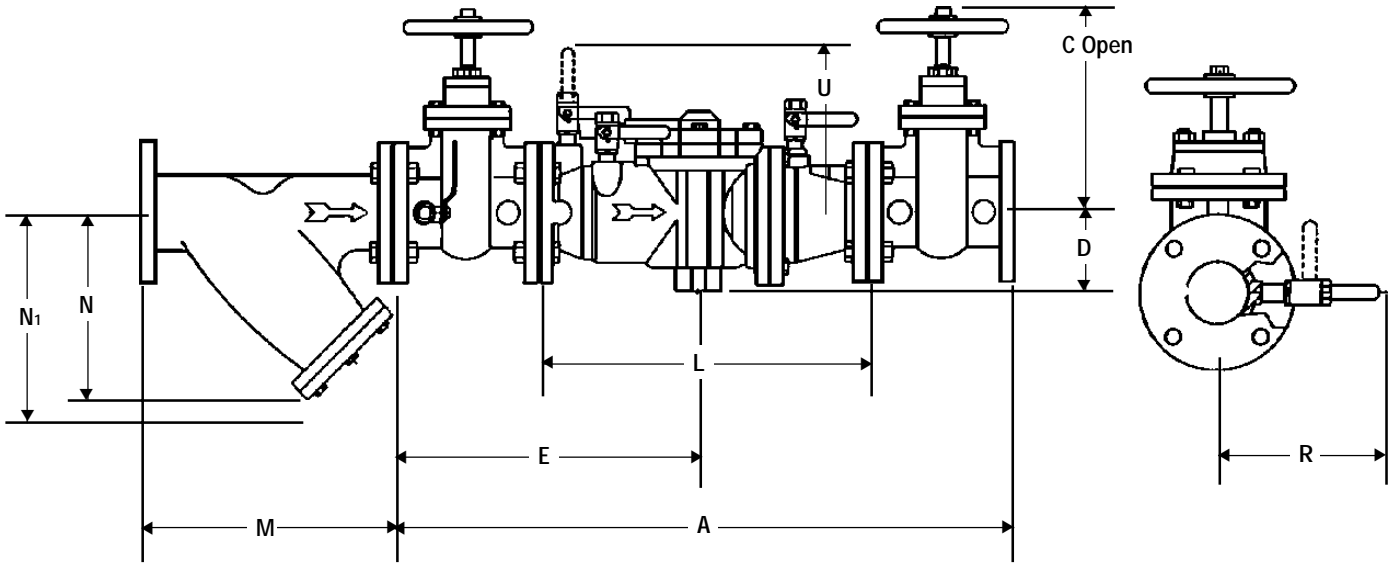


Suffix HC - Fire Hydrant Fittings dimension "A" = 25 1/16 (637mm)

Model	Size DN		Dimensions (approximate)														Weight	
	in.	mm	A		B		C		D		L		M		N		lbs.	kg.
009QT**	1/4	8	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	-	-	-	-	4.50	2.0
009QT**	3/8	10	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	-	-	-	-	4.50	2.0
009QT**	1/2	15	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	-	-	-	-	4.50	2.0
009M3QT**	3/4	20	10 3/4	273	5	127	3 1/2	89	1 1/2	38	6 3/4	171	-	-	-	-	5.75	2.6
009M2QT**	1	25	16 3/4	425	5 1/2	140	3	76	2 1/2	64	9 1/2	241	-	-	-	-	12.25	5.6
009M2QT**	1 1/4	32	17 3/8	441	6	150	3 1/2	89	2 1/2	64	11 3/8	289	-	-	-	-	14.62	6.6
009M2QT**	1 1/2	40	17 7/8	454	6	150	3 1/2	89	2 1/2	64	11 1/8	283	-	-	-	-	16.32	7.4
009M2QT**	2	50	21 3/8	543	7 3/4	197	4 1/2	114	3 1/4	83	13 1/2	343	-	-	-	-	30.00	13.6
009QT-S	1/4	8	10	250	6	150	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5.50	2.5
009QT-S	3/8	10	10	250	6	150	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5.50	2.5
009QT-S	1/2	15	10	250	6	150	3 3/8	86	1 1/4	32	5 1/2	140	2 3/4	70	2 1/4	57	5.50	2.5
009M3QT-S	3/4	20	10 3/4	273	6 1/4	159	3 1/2	89	1 1/2	38	6 3/4	171	3 3/16	81	2 3/4	70	7.75	3.5
009M2QT-S	1	25	16 3/4	425	7 3/4	197	3	76	2 1/2	64	9 1/2	241	3 3/4	95	3	76	15.25	6.9
009M2QT-S	1 1/4	32	17 3/8	441	7 3/4	197	3 1/2	89	2 1/2	64	11 3/8	289	4 7/16	113	3 1/2	89	20.19	9.2
009M2QT-S	1 1/2	40	17 7/8	454	7 3/4	197	3 1/2	89	2 1/2	64	11 1/8	283	4 7/8	124	4	102	20.32	9.3
009M2QT-S	2	50	21 3/8	543	8 1/4	210	4 1/2	114	3 1/4	83	13 1/2	343	5 15/16	151	5	127	36.87	16.7

**Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

DIMENSIONS and WEIGHT - 2½" to 3" 009



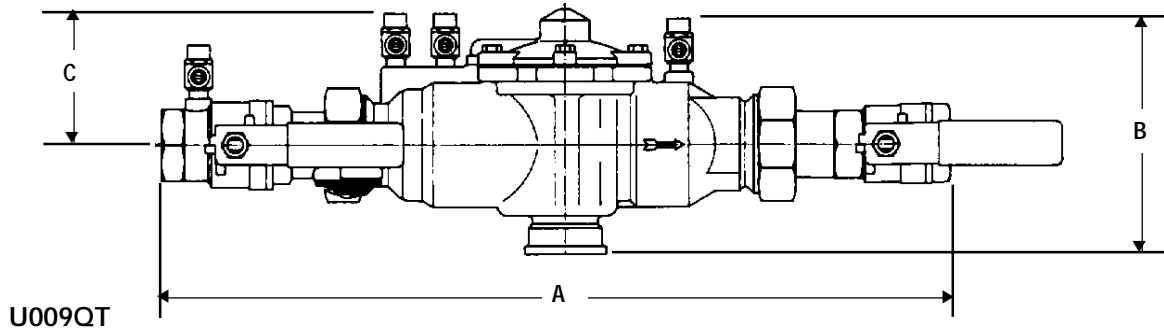
Watts G-4000 Series
QT - Ball Valves

Strainer Size	Dimensions (approximate)						Weight		
	M		N		N ¹		lbs.	kgs.	
in. mm	in.	mm	in.	mm	in.	mm			
2½	64	10	254	6½	165	9¾	248	28	12.7
3	76	10½	257	7	178	10	254	34	15.4

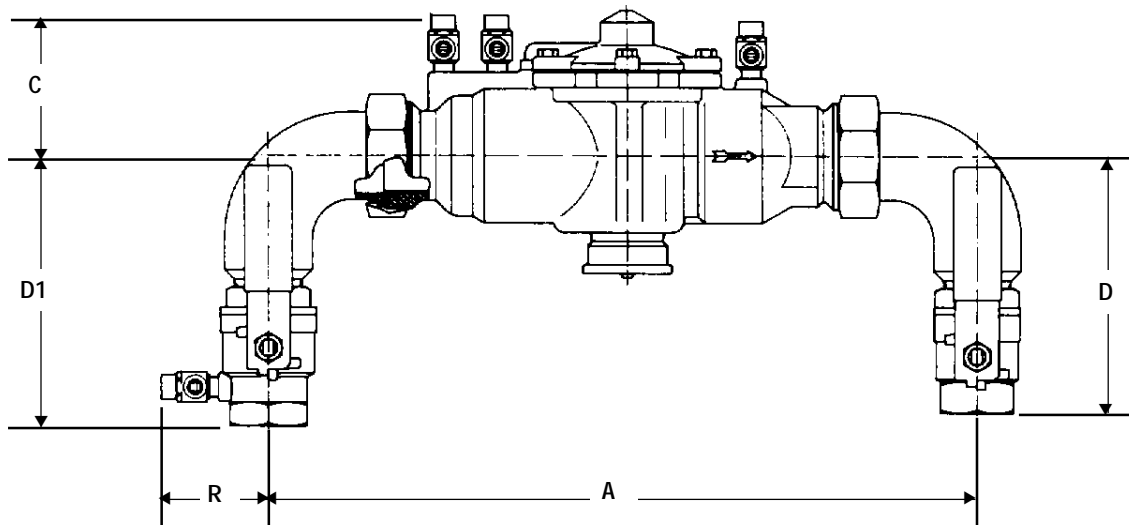
¹Clearance for servicing

Model	Size DN		Dimensions (approximate)														Weight	
	in.	mm	A		C		D		E		L		R		U		lbs.	kgs.
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
009-LF			—	—	—	—	4½	114	—	—	18⅞	460	—	—	10⅝	270	76	34.5
0090SY	2½	65	33¼	845	15⅞	403	4½	114	16⅜	416	18⅞	460	7¾	197	10⅝	270	166	75.3
009NRS			33¼	845	11⅜	289	4½	114	16⅜	416	18⅞	460	7¾	197	10⅝	270	161	73.0
009QT			33¼	845	6	152	4½	114	16⅜	416	18⅞	460	7¾	197	10⅝	270	150	68.0
009LF			—	—	—	—	4½	114	—	—	18⅞	460	—	—	10⅝	270	76	34.5
0090SY	3	80	34¼	870	18½	470	4½	114	16⅝	422	18⅞	460	8¾	222	10⅝	270	198	89.8
009NRS			34¼	870	12¾	324	4½	114	16⅝	422	18⅞	460	8¾	222	10⅝	270	191	86.6
009QT			34¼	870	7	178	4½	114	16⅝	422	18⅞	460	8¾	222	10⅝	270	158	71.7

DIMENSIONS and WEIGHT - 1/2" to 2" U009



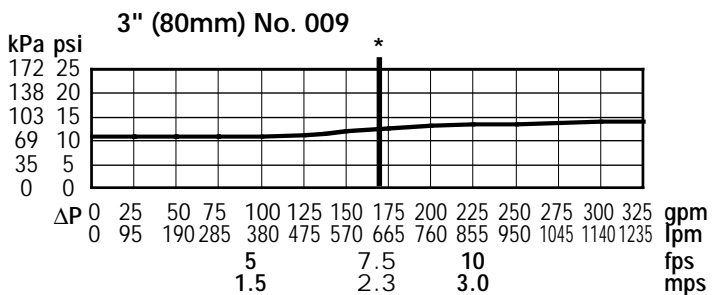
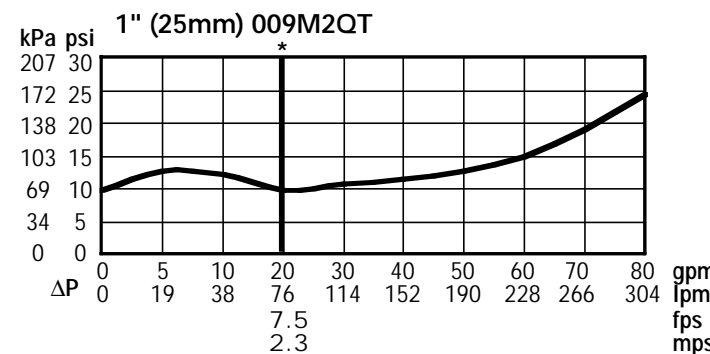
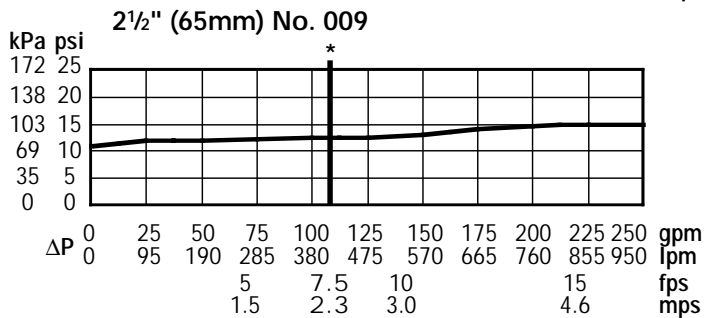
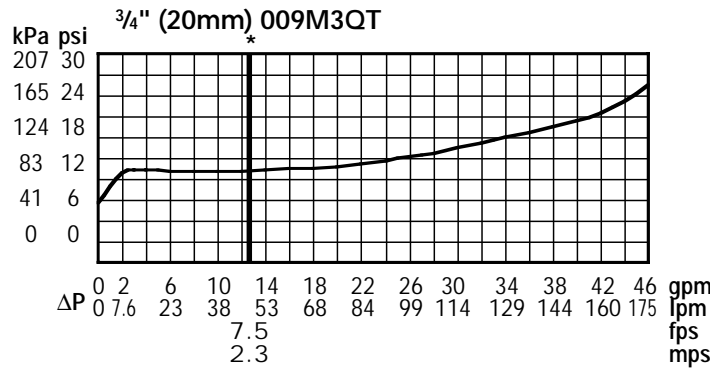
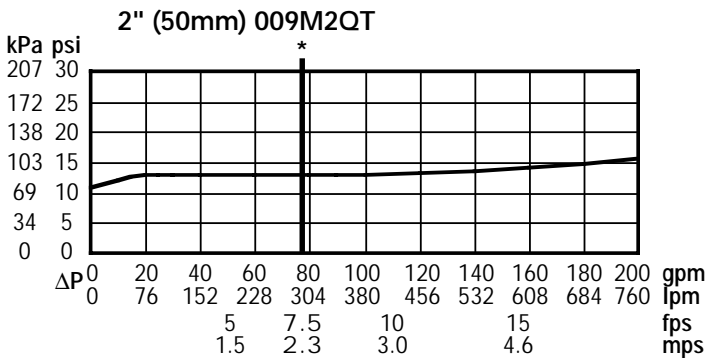
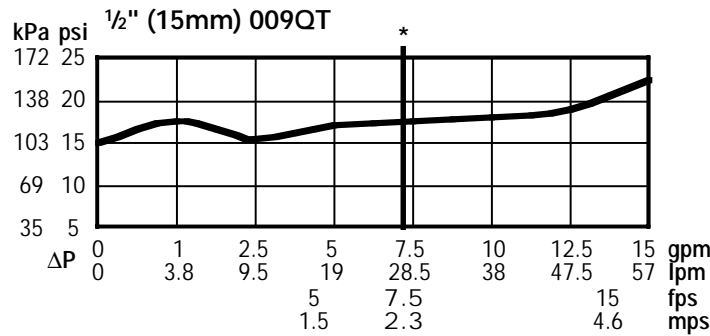
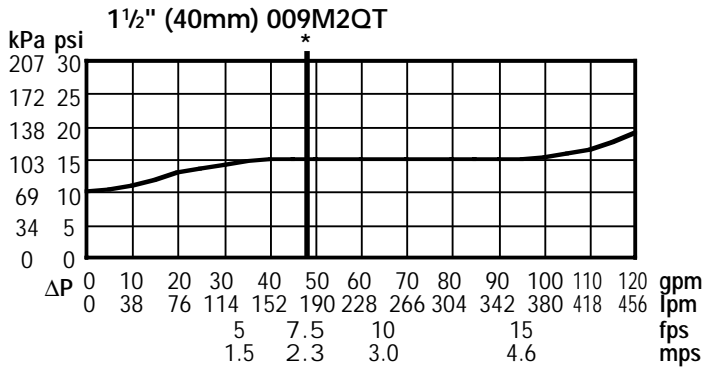
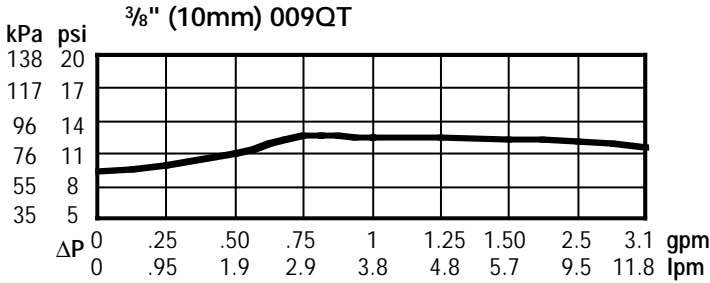
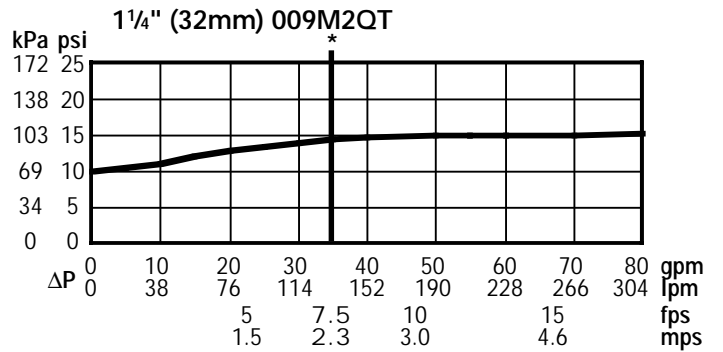
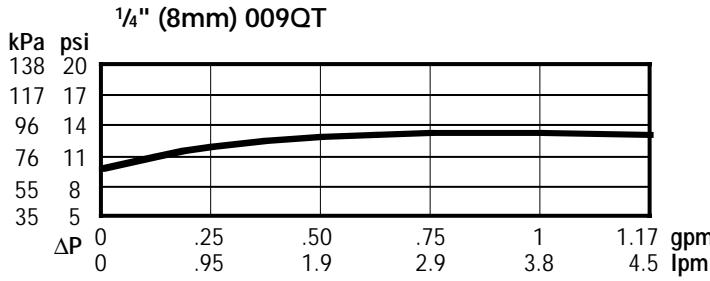
Model	Size DN		Dimensions (approximate)						Weight	
	in.	mm	A		B		C		lbs.	kg.
U009QT	1/2	15	16 1/2	419	4 3/4	121	3 1/2	89	5 1/2	2.5
U009M2QT	3/4	20	13 3/4	349	5	127	3 3/4	95	6	2.7
U009M2QT	1	25	17 3/8	441	5 1/2	140	3 1/8	79	12 3/4	5.8
U009M2QT	1 1/4	32	24 1/2	622	7 3/4	197	4	100	26 1/2	12.0
U009M2QT	1 1/2	40	25 1/2	648	7 3/4	197	4 1/4	108	28 3/4	13.0
U009M2QT	2	50	27 3/8	695	7 3/4	197	4 1/4	108	32 3/4	14.9



Model	Size DN		Dimensions (approximate)										Weight	
	in.	mm	A		C		D		D1		R		lbs.	kg.
U009AQT	3/4	20	13 1/8	333	3 1/8	79	4 5/8	117	4 3/4	121	2 3/8	60	12 1/2	5.7
U009M2AQT	1	25	13 1/8	333	3 1/8	79	5 1/8	130	5 3/16	132	2 3/8	60	13 3/8	6.3
U009M2AQT	1 1/2	40	15 3/8	390	4 1/4	108	7 3/4	197	7 3/4	197	3 1/4	83	39 1/4	17.8
U009M2AQT	2	50	19 1/4	489	4 1/4	108	8 3/8	213	8 3/8	213	3 1/4	83	39 1/4	17.8

CAPACITY - 1/4" to 3" 009

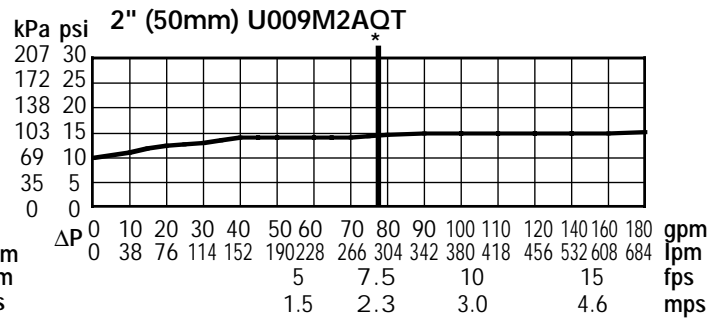
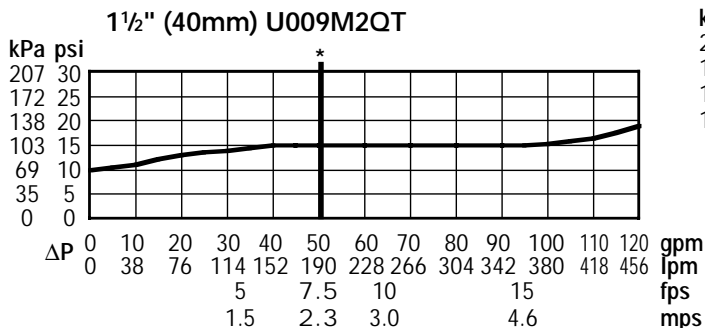
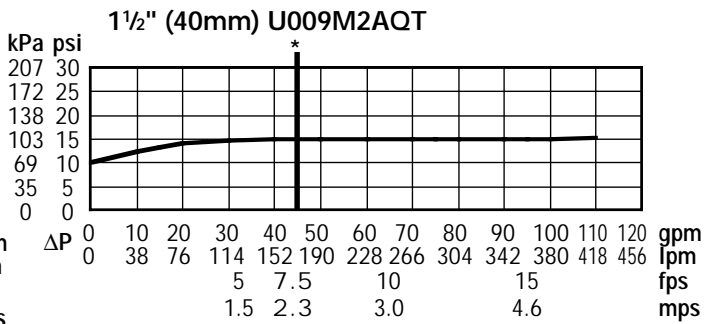
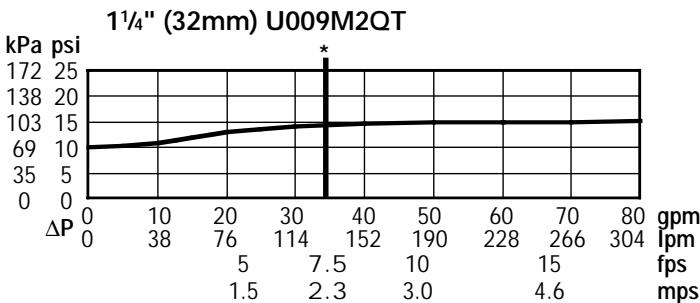
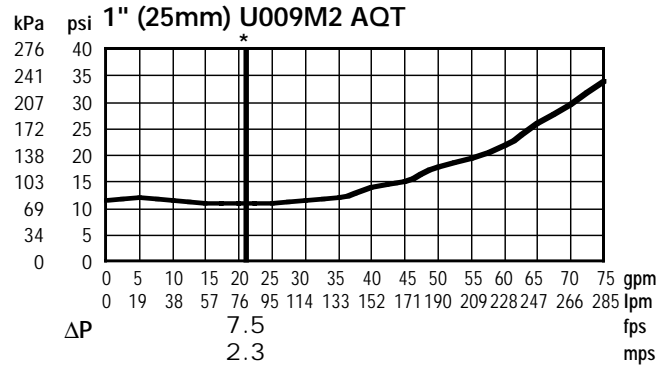
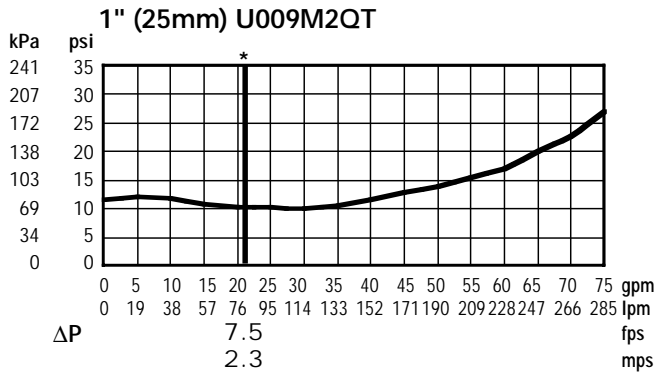
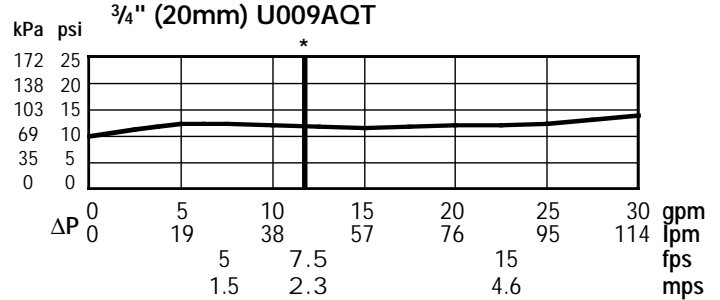
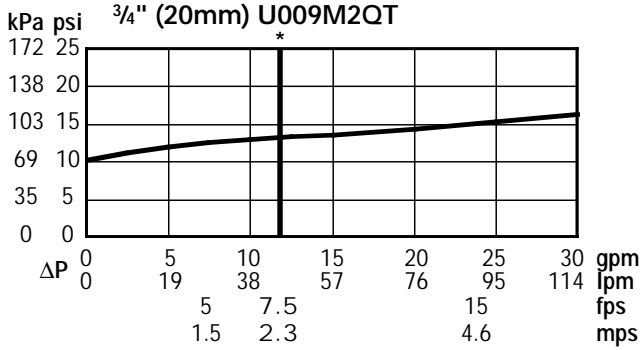
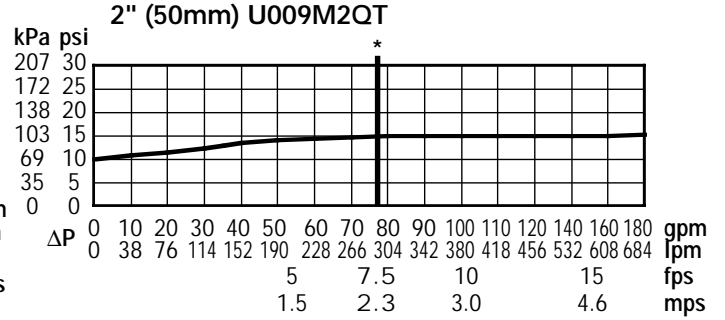
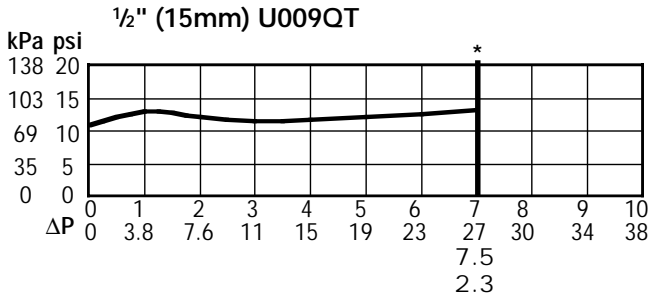
Performance as established by an independent testing laboratory.
 *Typical maximum system flow rate (7.5 feet/sec., 2.3 meters/sec.)



CAPACITY - 1/2" to 2" U009

Performance as established by an independent testing laboratory.

*Typical maximum system flow rate (7.5 feet/sec., 2.3 meters/sec.)



For Technical Assistance Call Your Authorized Watts Agent.

			Telephone #	Fax #
	HEADQUARTERS: Watts Regulator Company	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848
North East	Vernon Bitzer Associates, Inc.	138 Railroad Dr., Northhampton Ind. Pk., Ivyland, PA 18974	215 953-1400	215 953-1250
	E. W. Leonard, Inc.	Ray Palmer Rd., P.O. Box 371, Moodus, CT 06469	860 873-8691	860 873-8693
	Edwards, Platt & Deely, Inc.	271 Royal Ave., Hawthorne, NJ 07506	973 427-2898	973 427-4246
	Edwards, Platt & Deely, Inc.	368 Wyandanch Ave., North Babylon, NY 11703	631 253-0600	631 253-0303
	J. B. O'Connor Company, Inc.	P.O. Box 12927, Pittsburgh, PA 15241	724 745-5300	724 745-7420
	The Joyce Agency, Inc.	8442 Alban Rd., Springfield, VA 22150	703 866-3111	703 866-2332
	W. P. Haney Co., Inc.	51 Norfolk Ave., South Easton, MA 02375	508 238-2030	508 238-8353
	WMS Sales, Inc. (Main office)	9580 County Rd., Clarence Center, NY 14032	716 741-9575	716 741-4810
	WMS Sales, Inc.	47 Carousel Lane, Baldwinville, NY 13027	315 635-6596	315 635-6891
	WMS Sales, Inc.	18 McMillen Place, Delmar, NY 12054	518 475-1017	518 475-9583
WMS Sales, Inc.	56 Winchester Dr., Fairport, NY 14450	716 223-7980	716 223-7980	
South East	Billingsley & Associates, Inc.	5609-D Salmen St., Harahan, LA 70123	504 733-7624	504 733-6904
	Billingsley & Associates, Inc.	478 Cheyenne Lane, Madison, MS 39110	601 856-7565	601 856-8390
	Francisco J. Ortiz & Co., Inc.	Charlyn Industrial Pk., Road 190 KM1.9 - Lot #8, Carolina, Puerto Rico 00983	787 769-0085	787 750-5120
	Mid-America Marketing, Inc.	2776 B.M. Montgomery St., Birmingham, AL 35209	205 879-3469	205 870-5027
	Mid-America Marketing, Inc.	1364 Foster Avenue, Nashville, TN 37210	615 259-9944	615 259-5111
	Mid-America Marketing, Inc.	5466 Old Hwy. 78, Memphis, TN 38118	901 795-0045	901 795-0394
	RMI	Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223	804 643-7355	804 643-7380
	Smith & Stevenson Co., Inc.	4935 Chastain Ave., Charlotte, NC 28217	704 525-3388	704 525-6749
	Spotswood Associates, Inc.	6235 Atlantic Blvd., Norcross, GA 30071	770 447-1227	770 263-6899
	Spotswood Associates, Inc.	P.O. Box 9346, Savannah, GA 31412	912 447-5114	912 447-5627
Target Marketing Enterprises, Inc.	118 West Grant St., Building M, Orlando, FL 32806	407 245-7838	407 245-7833	
South Central	Hugh M. Cunningham, Inc.	13755 Benchmark, Dallas, TX 75234	972 888-3800	972 888-3838
	Hugh M. Cunningham, Inc.	475 West 38th St, Houston, TX 77018	713 695-0495	713 692-8991
	Mack McClain & Associates	5030 Northrup Ave., St. Louis, MO 63110	314 771-3699	314 771-3535
	Mack McClain & Associates, Inc.	1537 Ohio St., Des Moines, IA 50314	515 288-0184	515 288-5049
	Mack McClain & Associates, Inc.	15090 West 116th St., Olathe, KS 66062	913 339-6677	913 339-9518
Pro-Spec, Inc.	P.O. Box 472226, Tulsa, OK 74147-2226	918 461-0066	918 461-0105	
North Central	Associated Independent Marketing	1606 Commerce Dr., Sun Prairie, WI 53590	608 837-5005	608 837-2368
	Dave Watson Associates	1325 West Beecher, Adrian, MI 49221	517 263-8988	517 263-2328
	Disney-McLane, Inc.	428 McGregor, Cincinnati, OH 45206	513 861-1682	513 487-5337
	Mid-Continent Marketing Services Ltd.	1724 Armitage Ct., Addison, IL 60101	630 953-1211	630 953-1067
	Marketing Affiliates	107 Cypress St. SW, Reynoldsburg, OH 43068	740 927-6880	740 927-4545
Marketing Affiliates	4920 Commerce Parkway, Warrensville Hts., OH 44128	740 927-6880	740 927-4545	
South West	Delco Sales, Inc.	2267 Yates Ave., Los Angeles, CA 90040	323 890-9250	323 724-5227
	Phoenix Marketing, Ltd.	3322 Columbia Dr. N.E., Albuquerque, NM 87107	505 883-7100	505 883-7101
	P I R Sales, Inc.	3050 North San Marcos Place, Chandler, AZ 85225	480 892-6000	480 892-6096
	R. C. Hartnett & Associates	30852 Huntwood Ave., Hayward, CA 94544	510 471-7200	510 471-4441
North West	Delco Sales, Inc.	111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819	808 842-7900	808 842-9265
	Fanning & Associates, Inc.	6765 Franklin St., Denver, CO 80229-7111	303 289-4191	303 286-9069
	Hollabaugh Brothers & Associates	1260 6th Ave. South, Seattle, WA 98134-1308	206 467-0346	206 467-8368
	Hollabaugh Brothers & Associates	3028 S.E. 17th Ave., Portland, OR 97202	503 238-0313	503 235-2824
	R. E. Fitzpatrick Sales, Inc.	16 East 8th Ave., Midvale, UT 84047	801 566-7156	801 566-4979
	Soderholm & Associates, Inc.	7150 143rd Ave. N.W., Anoka, MN 55303	612 427-9635	612 427-5665
CANADA	Watts Industries (Canada) Inc. (Watts Regulator Co. Division)	5435 North Service Road, Burlington, Ontario L7L 5H7	905 332-4090	905 332-7068
	Hydro-Mechanical Sales Ltd.	3700 Joseph Howe Dr., Ste. 1 Halifax, Nova Scotia B3L 4H7	902 443-2274	902 443-2275
	Hydro-Mechanical Sales Ltd.	297 Collishaw St., Ste. 7 (shipping) Moncton, New Brunswick E1C 9R2	506 859-1107	506 859-2424
	Hydro-Mechanical Sales Ltd.	85 Tolt Rd., St. Phillips, Newfoundland A1B 3M7	709 895-0090	709 895-0091
	Le Groupe B.G.T. Inc.	2800 Rue Dalton Ste. 3, Parc Colbert, St-Foy, Quebec G1P 3S4	418 657-2800	418 657-2700
	Le Groupe B.G.T. Inc.	140 Rue Merizzi, Ville St. Laurent, Quebec H4T 1S4	514 341-9010	514 341-4464
	Walmar Mechanical Sales	24 Gurdwara Rd., Nepean, Ontario K2E 8B5	613 225-9774	613 225-0673
	Mar-Win Agencies Ltd.	1123 Empress St., Winnipeg, Manitoba R3E 3H1	204 775-8194	204 786-8016
	Mech-Mart	107 Hamilton Rd., P.O. Box 69, New Hamburg, Ontario N0B 2G0	519 662-2460	519 662-2491
	Northern Mechanical Sales	P.O. Box 280 (mailing) 163 Pine St. (shipping), Garson, Ontario P3L 1S6	705 693-2715	705 693-4394
	RAM Mechanical Marketing	373 Quebec St., Regina, Saskatchewan S4R 1K5	306 525-1986	306 525-0809
	RAM Mechanical Marketing	#13 - 1100 7th Ave. N., Saskatoon, Saskatchewan S7K 2V9	306 244-6622	306 244-0807
	Con-Cur West Marketing Inc.	7870 Express Street, Burnaby, B.C. V5A 1T4	604 420-6070	604 420-9022
	D.C. Sales, Ltd.	10-6130 4th St. S.E., Calgary, Alberta T2H 2A6	403 253-6808	403 259-8331
	D.C. Sales, Ltd.	11420 142 Street, Edmonton, Alberta T5M 1V1	780 496-9495	780 496-9621
0012	EXPORT Hdqtrs.: Watts Regulator Co.	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848