

FireLock™ Alarm Check Valve

Series 751



Series 751 Standard Trim



Series 751 European Trim

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ – 8"/DN40 – DN200

Pressure Class

- 300 psi/2068 kPa/20 Bar for 1 ½ – 6"/DN40 – DN150 Sizes (See Section 5.0 Performance)
- 232 psi/1600 kPa/16 Bar for 8"/DN200 Size (See Section 5.0 Performance)

Valve Configurations

- Bare
- Pre-trimmed
- Vic-Quick Riser: Pre-trimmed and includes:
 - Shut Off Valve (1 ½"/DN40: Series 728 Ball Valve, 2" – 8"/DN50 – DN200: Series 705 *FireLock* Butterfly Valve)
 - Drain Connection Kit
 - Alarm Pressure Switch(s)
- *Fire-Pac* Series 745 (refer to Victaulic [publication 30.23](#))

Pipe Preparation

- Victaulic Original Groove System (OGS)

Application/Media

- For use on fire protection systems only.

2.0 CERTIFICATION/LISTINGS



104e/01



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ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

3.0 SPECIFICATIONS – MATERIAL

Bill of Materials: Base Valve

Body: Ductile iron, ASTM A-536 Grade 65-45-12

Clapper: Aluminum bronze UNS-C95500

Shaft: Stainless steel 17-4PH

Clapper Seal: EPDM

Seat O-Rings: Nitrile

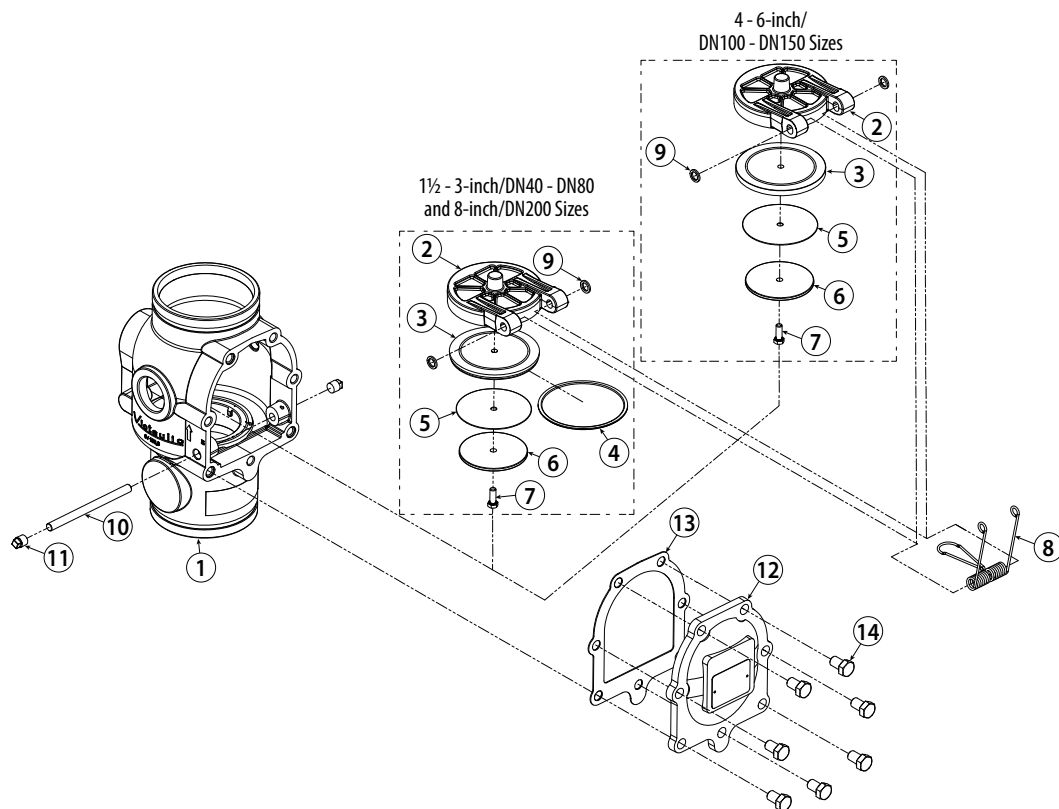
Clapper Spring: Stainless steel (302 Series)

Washers: PTFE

Cover Plate Bolts: Carbon steel, zinc plated

Cover Plate Gasket: Nitrile

Seal Plate: Aluminum Bronze (UNS-C95400)



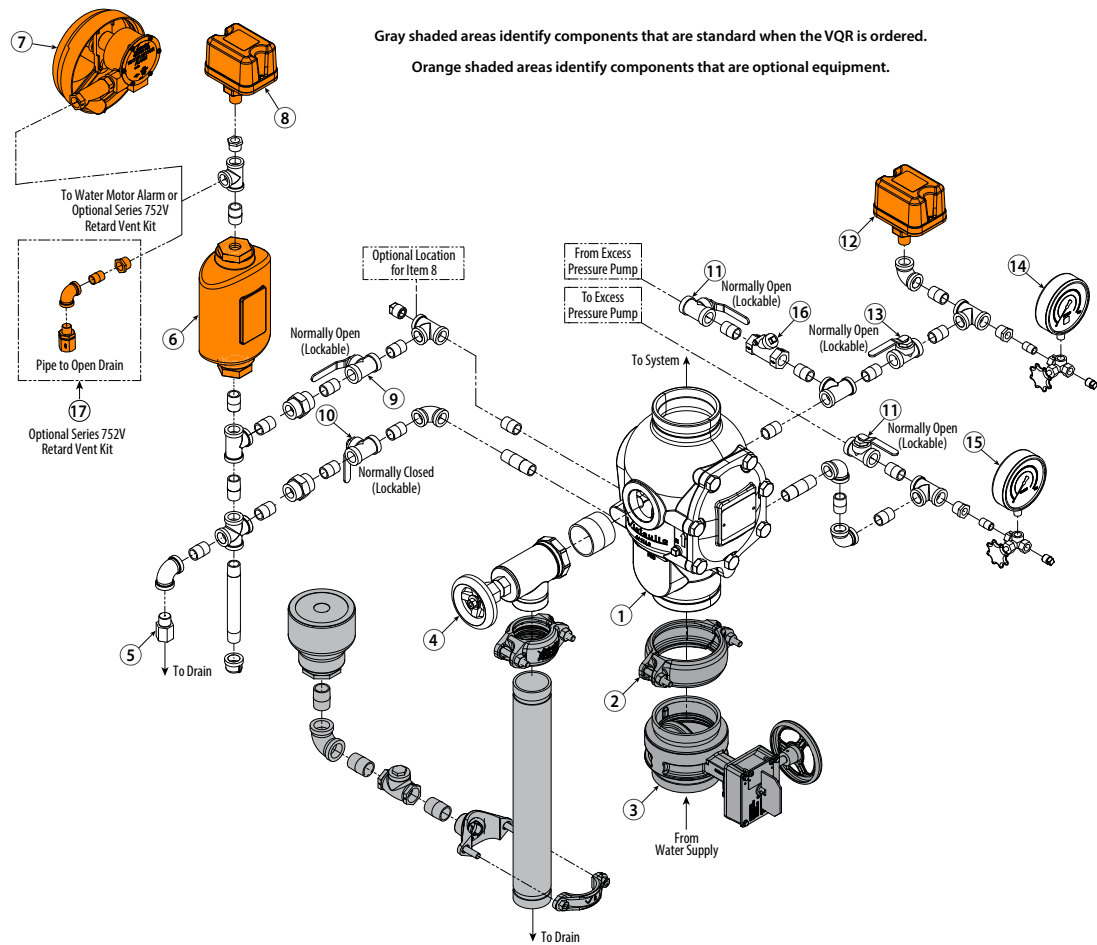
Item	Description	Item	Description
1	Valve Body	8	Clapper Spring
2	Clapper	9	Washer
3	Clapper Seal	10	Shaft
4	Seal Ring	11	Clapper Shaft Retaining Plug
5	Seal Washer*	12	Cover Plate
6	Seal Plate	13	Cover Plate Gasket
7	Screw, Self Sealing	14	Cover Plate Bolts

*Item 5, Seal Washer, is not included with the clapper assembly for 1 1/2 – 2"/DN40 – DN50 valve sizes.

3.2 SPECIFICATIONS – MATERIAL

Standard Trim with Base Valve: cULus, FM, CCC version

Series 751 *FireLock* Alarm Check Valve Trim for Use with Excess Pressure Pump



Item	Description	Item	Description
1	Series 751 <i>FireLock</i> Alarm Check Valve	10	Alarm Test Line Ball Valve (Normally Closed)
2	<i>FireLock</i> Rigid Coupling (Optional/Sold Separately – Comes Standard when VQR Assembly is Ordered)	11	Excess Pressure Pump Isolation Ball Valve (Normally Open)
3	Water Supply Main Control Valve (Optional/Sold Separately – Comes Standard when VQR Assembly is Ordered)	12	Excess Pressure Pump Pressure Switch (Sold Separately/Not Provided by Victaulic)
4	System Main Drain Valve	13	Excess Pressure Pump Pressure Switch Isolation Ball Valve (Normally Open)
5	Alarm Line Drain Restrictor (1/16-inch)	14	System Pressure Gauge (0-300 psi/0-2068 kPa)
6	Series 752 Retard Chamber Assembly (Optional/Sold Separately)	15	Water Supply Pressure Gauge (0-300 psi/0-2068 kPa)
7	Series 760 Water Motor Alarm Assembly (Optional/Sold Separately)	16	Swing Check Valve
8	Alarm Pressure Switch (Optional/Sold Separately)	17	Series 752V Retard Vent Kit ¹ (Optional/Sold Separately)
9	Alarm Line Ball Valve (Normally Open)		

¹ The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

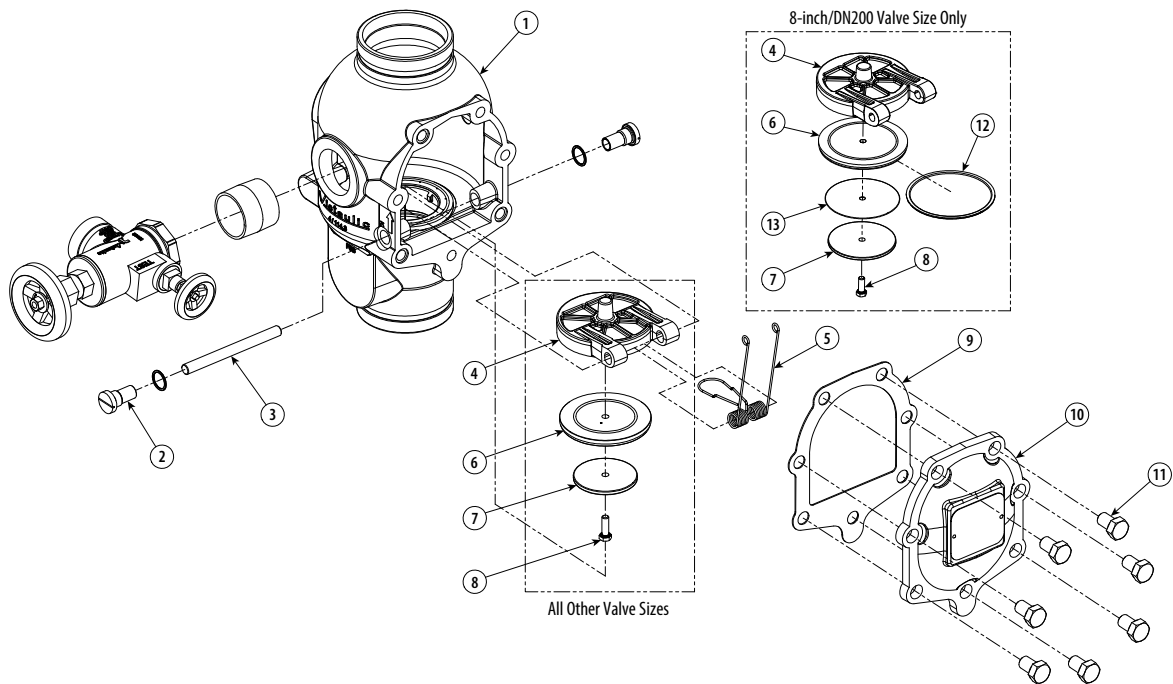
3.3 SPECIFICATIONS – MATERIAL

Standard Trim Package Optional Accessories (specify choice):

- ☐ Series 752 Retard Chamber – Required when the Series 751 FireLock Alarm Check Valve is installed in a variable pressure installation in order to reduce the possibility of false alarms. (Refer to [30.01](#)).
- ☐ Series 752V Retard Vent Kit – Required when an electric pressure switch is installed on the retard chamber without a water motor alarm.
- ☐ Series 760 Water Motor Alarm – The Series 751 FireLock Alarm Check Valve is designed to activate a mechanical alarm when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat. (Refer to [30.32](#)).
- ☐ Alarm pressure switch – The Series 751 FireLock Alarm Check Valve is designed to allow the installation of pressure switches to activate electric alarms and control panels when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat.
- ☐ Waterflow Detectors – Waterflow detectors are available for installation on the riser.
- ☐ Trim kit available for configuration with excess pressure pump.

3.4 SPECIFICATIONS – MATERIAL

Bill of Materials: European Base Valve
Series 751 FireLock Alarm Check Valve

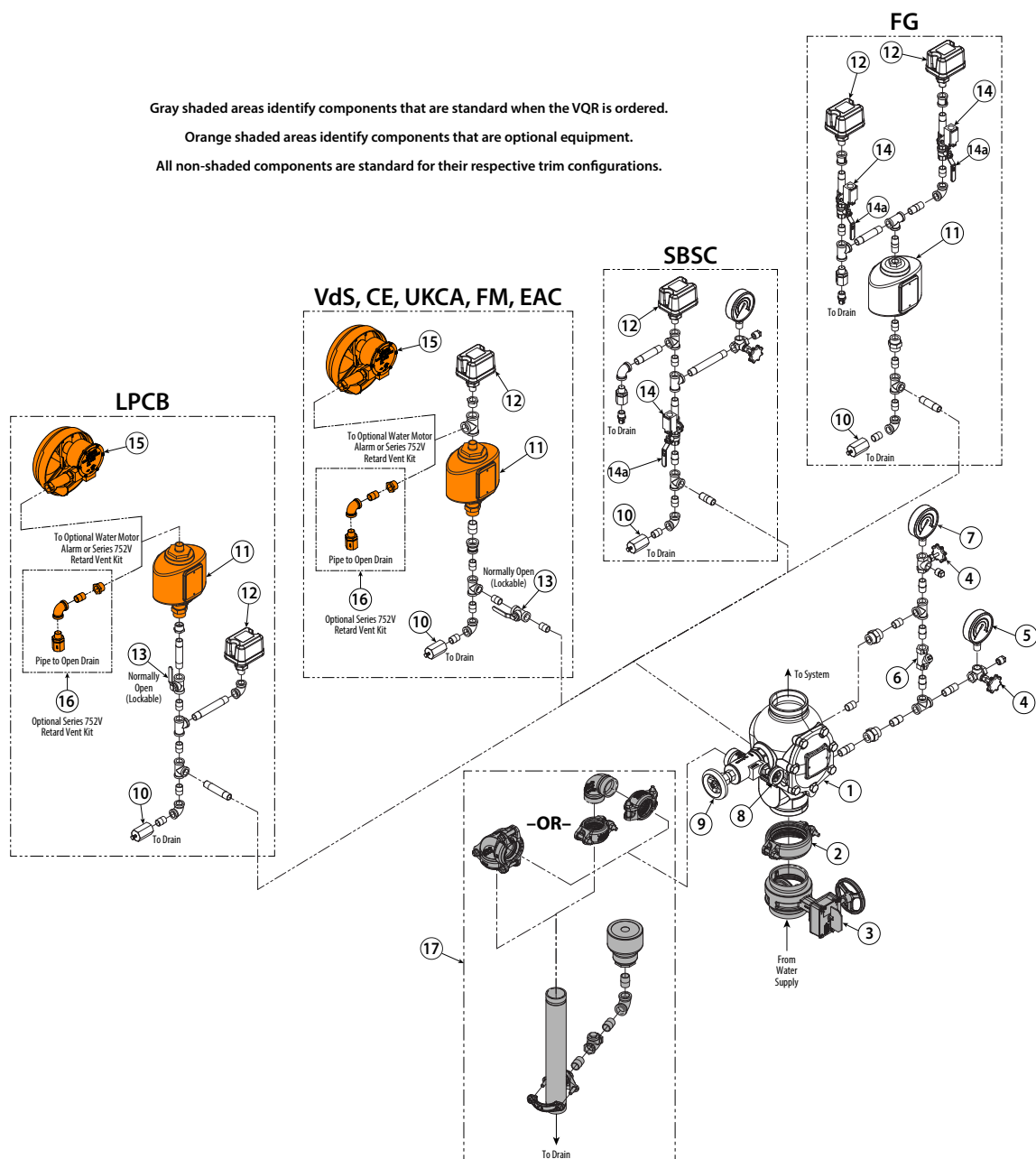


Item	Description	Item	Description
1	Valve Body	8	Screw, Self Sealing
2	Clapper Shaft Retaining Bushing	9	Cover Plate Gasket
3	Shaft	10	Cover Plate
4	Clapper	11	Cover Plate Bolt
5	Clapper Spring	12	Seal Ring
6	Clapper Seal	13	Seal Washer
7	Seal Plate		

3.5 SPECIFICATIONS – MATERIAL

European Trim with European Base Valve: VdS, CE, UKCA, FM, EAC, LPCB, SBSC, FG

Series 751 *FireLock* Alarm Check Valve with Vertical Trim



Item	Description	Item	Description
1	Series 751 <i>FireLock</i> European Alarm Check Valve	10	Restricted Orifice/Alarm Line Drain
2	<i>FireLock</i> Rigid Coupling ¹	11	Series 752 VdS Retarding Chamber
3	Water Supply Main Control Valve ¹	12	Alarm Pressure Switch
4	Gauge Valve	13	Alarm Line Ball Valve
5	Water Supply Pressure Gauge	14	Alarm Line Monitoring Limit Switch Assembly
6	Swing Check Valve	14a	Alarm Line Monitoring Ball Valve
7	System Pressure Gauge	15	Series 760 Water Motor Alarm
8	System Test Valve	16	Series 752V Retard Vent Kit ²
9	System Main Drain Valve	17	Drain Connection Kit ³

¹ Items 2 and 3 are provided standard when the SBSC and FG trim are ordered. For the SBSC and FG trim, an additional coupling and water supply main control valve are available as an option for installation above the Series 751 *FireLock* European Alarm Check Valve (system side).

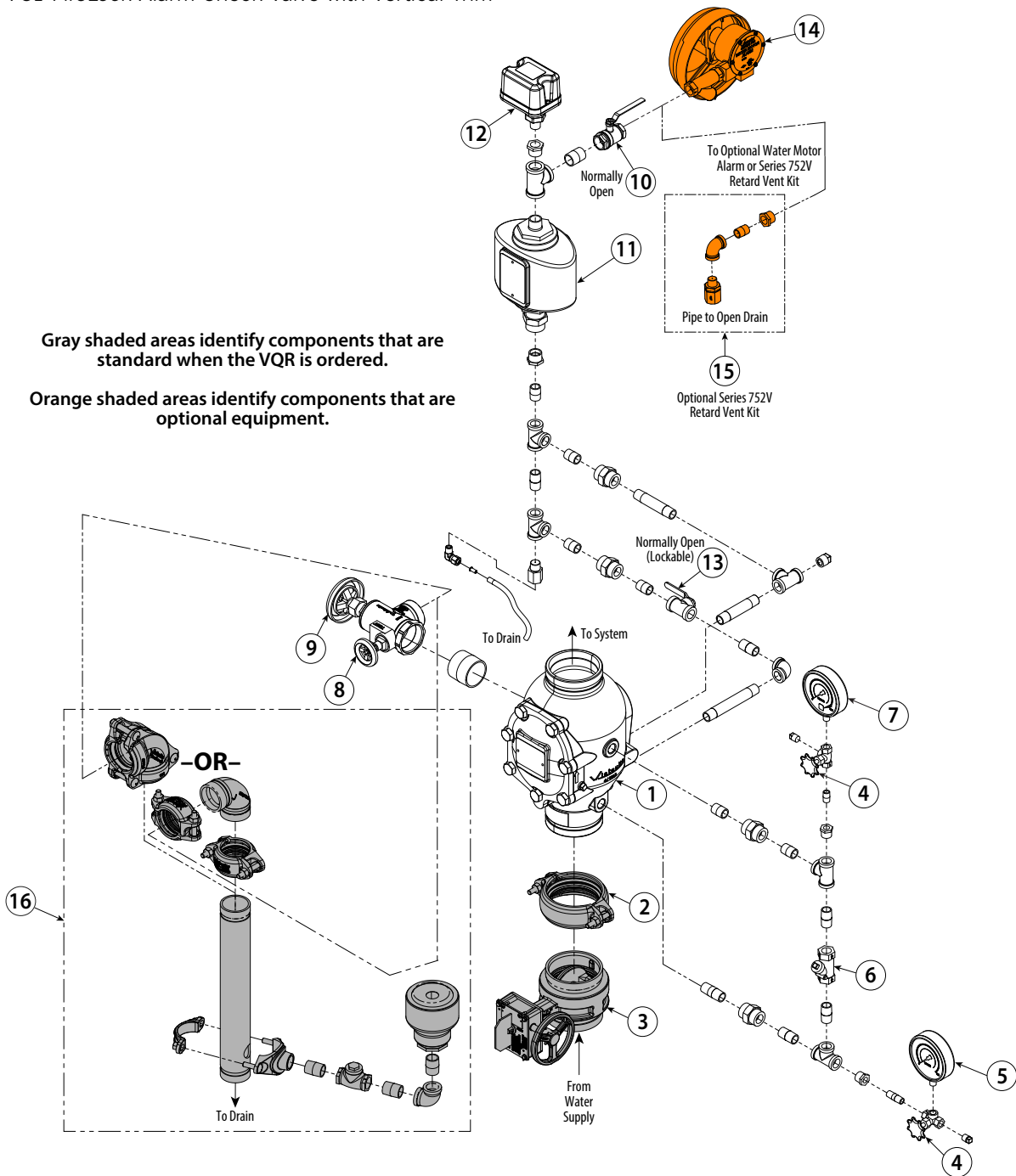
² The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

³ Item 17 can be configured with a Victaulic *FireLock* No. 101 Installation-Ready™ 90° Elbow or two *FireLock* Rigid Couplings and a 90° Elbow.

3.6 SPECIFICATIONS – MATERIAL

European Trim with Base Valve: APSAD

Series 751 *FireLock* Alarm Check Valve with Vertical Trim



Item	Description	Item	Description
1	Series 751 <i>FireLock</i> Alarm Check Valve ¹	9	System Main Drain Valve
2	<i>FireLock</i> Rigid Coupling	10	Alarm Line Water Motor Alarm Ball Valve (Normally Open)
3	Water Supply Main Control Valve	11	Series 752 VdS Retarding Chamber
4	Gauge Valve	12	Alarm Pressure Switch
5	Water Supply Pressure Gauge	13	Alarm Line Auxiliary Test Ball Valve (Normally Closed)
6	Swing Check Valve	14	Series 760 Water Motor Alarm
7	System Pressure Gauge	15	Series 752V Retarding Vent Kit ²
8	System Test Valve	16	Drain Connection Kit

¹ The APSAD version uses the base valve configuration. Refer to page 2 for an exploded view of components.

² The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

3.7 SPECIFICATIONS – MATERIAL

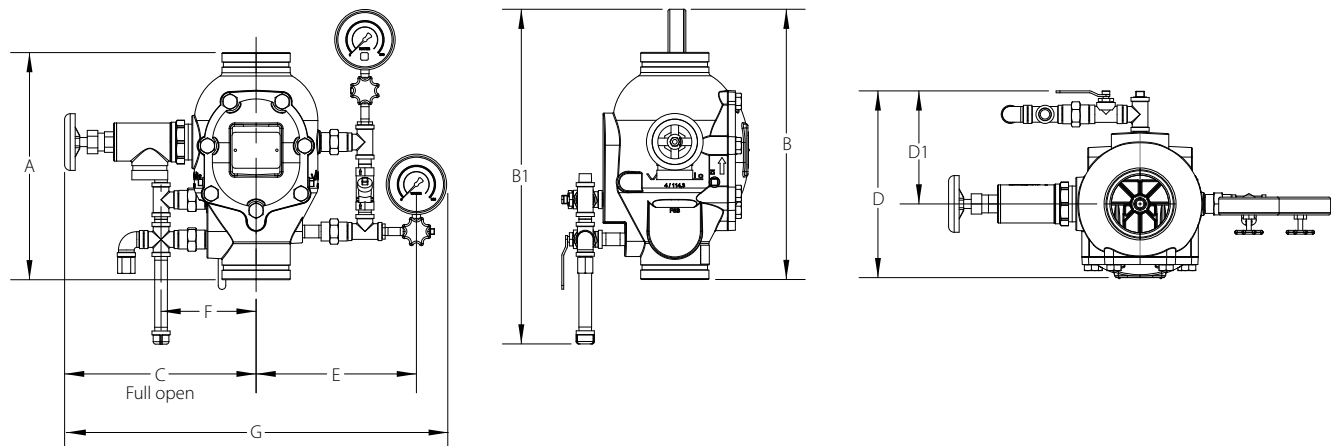
European Trim Package Optional Accessories (specify choice):

- ☐ Series 752 Retard Chamber – Required when the Series 751 FireLock Alarm Check Valve is installed in a variable pressure installation in order to reduce the possibility of false alarms. (Refer to [30.01](#)).
- ☐ Series 752V Retard Vent Kit – Required when an electric pressure switch is installed on the retard chamber without a water motor alarm.
- ☐ Series 760 Water Motor Alarm – The Series 751 FireLock Alarm Check Valve is designed to activate a mechanical alarm when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat. (Refer to [30.32](#)).
- ☐ Waterflow Detectors – Waterflow detectors are available for installation on the riser.

4.0 DIMENSIONS

Standard Trim Dimensions with Base Valve: cULus, FM, CCC Version

Standard trim and trim for use with excess pressure pump (without drain connection kit and water supply main control valve options).



NOTES

- The "A" dimension is the actual takeout dimension of the valve body.
- For systems with the optional Series 752 Retard Chamber Assembly, add 12 inches/305 mm to the "B" dimension to account for the additional height.

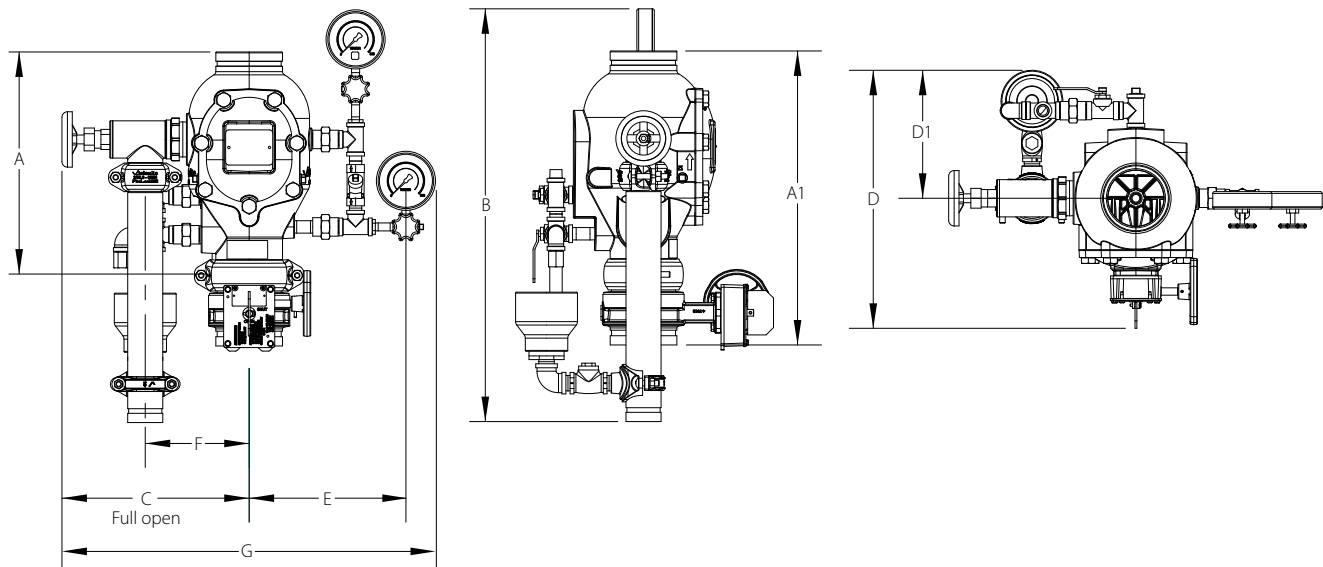
Size		Dimensions									Approx. Weight Each	
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	B1 inches mm	C inches mm	D inches mm	D1 inches mm	E inches mm	F inches mm	G inches mm	Without Trim lbs kg	With Trim lbs kg
1½ DN40	1.900 48.3	9.00 229	10.75 271	17.88 453	10.00 254	11.25 284	8.00 201	9.88 250	6.38 160	21.00 534	13.0 5.9	31.0 14.0
2 DN50	2.375 60.3	9.00 229	10.75 271	17.88 453	10.00 254	11.38 287	8.13 204	9.88 250	6.38 160	21.00 534	13.0 5.9	31.0 14.0
2½	2.875 73.0	12.63 321	12.50 317	19.25 488	11.25 285	11.50 290	7.13 179	11.00 279	7.13 178	22.88 579	32.0 14.5	53.0 24.0
DN65	3.000 76.1	12.63 321	12.50 317	19.25 488	11.25 285	11.50 290	7.13 179	11.00 279	7.13 178	22.88 579	33.0 15.0	54.0 24.5
3 DN80	3.500 88.9	12.63 321	12.50 317	19.25 488	11.25 285	11.50 290	7.13 179	11.00 279	7.13 178	22.88 579	33.0 15.0	54.0 24.5
4 DN100	4.500 114.3	15.13 382	18.00 455	22.25 563	14.13 358	12.38 314	7.50 190	10.63 270	6.38 160	26.75 678	55.0 25.0	77.0 35.0
	6.500 165.1	16.00 407	18.63 473	22.75 575	14.50 368	14.38 363	8.75 222	11.38 289	6.38 160	27.88 707	74.0 33.5	96.0 43.5
6 DN150	6.625 168.3	16.00 407	18.63 473	22.75 575	14.50 368	14.38 363	8.75 222	11.38 289	6.38 160	27.88 707	77.0 35.0	99.0 45.0
8 DN200	8.625 219.1	17.50 445	18.50 468	22.25 564	15.88 403	16.88 429	9.75 248	12.25 311	6.38 160	30.13 764	120.0 54.5	140.0 63.5

4.0 DIMENSIONS (CONTINUED)

Standard Trim Dimensions with Base Valve: cULus, FM, CCC Version

Standard trim and trim for use with excess pressure pump (with drain connection kit and water supply main control valve options).

A 4-inch/DN100 Series 751 *FireLock* Alarm Check Valve with optional drain connection kit and water supply main control valve is shown below.



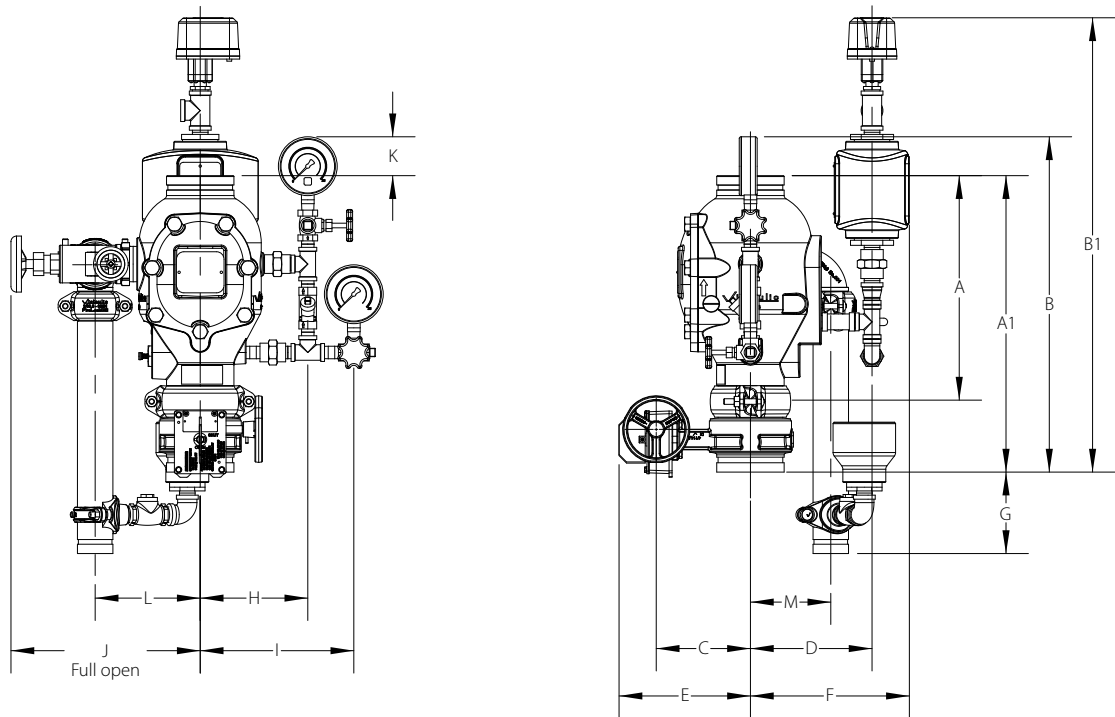
NOTES

- The "A" dimension is the actual takeout dimension of the valve body.
- The "A1" dimension is the actual takeout dimension of the valve body with optional water supply main control valve.
- For systems with the optional Series 752 Retard Chamber Assembly, add 12 inches/305 mm to the "B" dimension to account for the additional height. The "D" and "D1" dimensions are not fixed measurements. The drip cup of the drain connection kit option can be rotated to provide more clearance at the back of the trim.
- Components shown as dotted lines denote optional equipment.
- The recommended drain connection kit option is shown for reference and takeout dimensions.

Size		Dimensions									Approx. Weight Each	
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	A1 inches mm	B inches mm	C inches mm	D inches mm	D1 inches mm	E inches mm	F inches mm	G inches mm	Without Trim lbs kg	With Trim lbs kg
1 1/2 DN40	1.900 48.3	9.00 229	16.38 416	21.88 555	10.00 254	14.13 359	9.00 227	9.88 250	4.38 109	21.00 534	13.0 5.9	46.0 21.0
2 DN50	2.375 60.3	9.00 229	13.63 343	21.88 555	10.00 254	15.63 394	9.00 227	9.88 250	4.75 120	21.00 534	13.0 5.9	46.0 21.0
2 1/2	2.875 73.0	12.63 321	16.63 420	25.88 657	11.25 285	15.63 395	8.38 211	11.00 279	6.25 158	22.88 579	32.0 14.5	75.0 34.0
DN65	3.000 76.1	12.63 321	16.63 420	25.88 657	11.25 285	15.63 395	8.38 211	11.00 279	6.25 158	22.88 579	33.0 15.0	77.0 35.0
3 DN80	3.500 88.9	12.63 321	16.63 420	25.88 657	11.25 285	15.63 395	8.38 211	11.00 279	6.25 158	22.88 579	33.0 15.0	77.0 35.0
4 DN100	4.500 114.3	15.13 382	20.00 507	28.00 710	14.13 358	17.50 443	8.63 219	10.63 270	7.13 179	26.75 678	55.0 25.0	110.0 50.0
	6.500 165.1	16.00 407	22.13 562	27.50 696	14.50 368	19.50 495	8.63 219	11.38 289	7.50 189	27.88 707	74.0 33.5	145.0 66.0
6 DN150	6.625 168.3	16.00 407	22.13 562	27.50 696	14.50 368	19.50 495	8.63 219	11.38 289	7.50 189	27.88 707	77.0 35.0	145.0 66.0
8 DN200	8.625 219.1	17.50 445	23.13 585	27.50 696	15.88 403	22.13 562	10.13 255	12.25 311	8.88 224	30.13 764	120.0 54.5	210.0 95.5

4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions with European Base Valve: VdS, CE, UKCA, FM, EAC Version



Size		Dimensions															Weight	
Nominal	Actual Outside Diameter	A ²	A1	B	B1	C	D	E	F	G	H	I	J	K	L	M	Approx. Each	
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs	kg
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
3	3.500	12.61	16.51	17.22	28.88	5.50	7.71	7.47	10.21	9.80	6.72	9.76	11.41	0.67	6.21	5.11	79.0	
DN80	88.9	321	420	438	734	140	196	190	260	249	171	248	290	18	158	130	36.0	
4	4.500	15.03	19.94	22.53	30.50	6.31	8.15	8.80	10.65	5.45	7.21	10.29	14.08	2.60	7.04	5.38	105.0	
DN100	114.3	382	507	573	775	161	208	224	271	139	184	262	358	67	179	137	47.5	
6	6.625	16.00	22.12	24.74	32.25	8.22	9.39	10.85	11.89	2.93	7.59	10.67	14.46	2.54	7.42	5.38	140.0	
DN150	168.3	407	562	629	820	209	239	276	303	75	193	272	368	65	189	137	63.5	
8	8.625	17.50	23.02	24.09	31.08	9.47	10.40	12.07	12.90	4.18	9.33	12.41	15.83	0.83	8.79	5.88	210.0	
DN200	219.1	445	585	612	790	241	265	307	328	107	237	316	403	22	224	150	95.5	

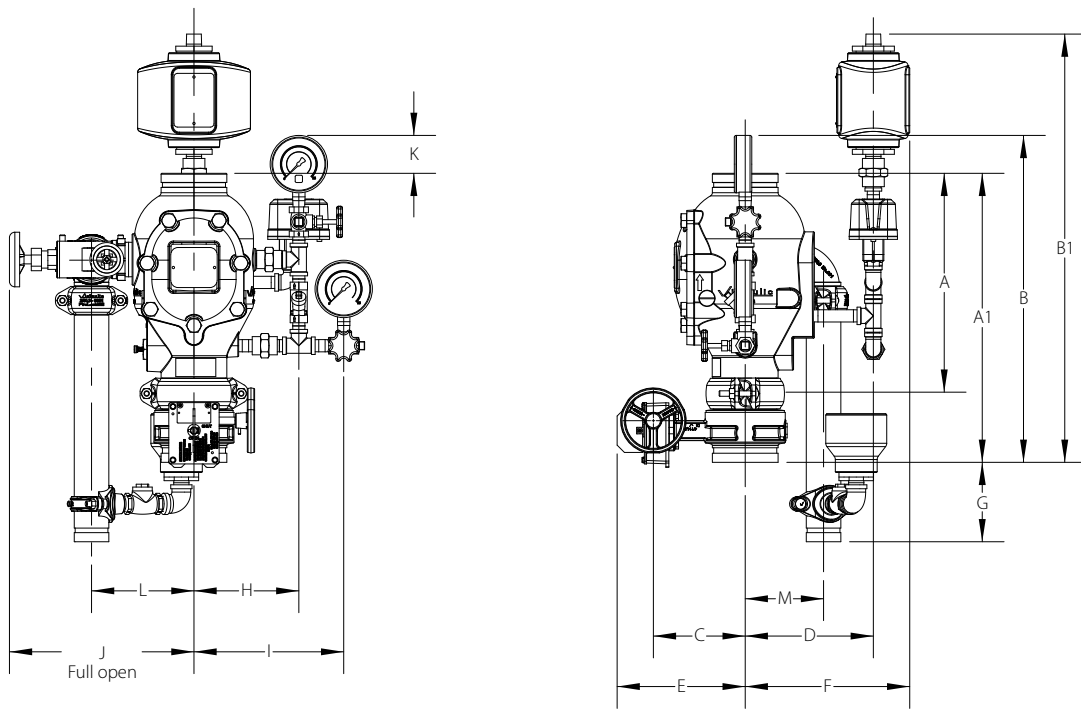
² The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

NOTE

- Overall height "B" is the greatest height if the optional Series 752 VdS Retarding Chamber Assembly is not installed.

4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions with European Base Valve: LPCB



Size		Dimensions															Weight	
Nominal	Actual Outside Diameter	A ²	A1	B	B1	C	D	E	F	G	H	I	J	K	L	M	Approx. Each	
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs	
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
3	3.500	12.61	16.51	17.22	27.87	5.50	8.36	7.47	10.86	9.80	6.72	9.76	11.41	0.67	6.21	5.11	93.0	
DN80	88.9	321	420	438	708	140	213	190	276	249	171	248	290	18	158	130	42.0	
4	4.500	15.03	19.94	22.53	29.49	6.31	8.80	8.80	11.67	5.45	7.21	10.29	14.08	2.60	7.04	5.38	125.0	
DN100	114.3	382	507	573	749	161	224	224	297	139	184	262	358	67	179	137	56.5	
	6.500	16.00	22.12	24.74	31.24	8.22	10.04	10.85	12.54	2.93	7.59	10.67	14.46	2.54	7.42	5.38	165.0	
	165.1	407	562	629	794	209	256	276	319	75	193	272	368	65	189	137	75.0	
8	8.625	17.50	23.02	24.09	30.79	9.47	11.04	12.07	13.56	4.18	9.33	12.41	15.83	0.83	8.79	5.88	225.0	
DN200	219.1	445	585	612	783	241	281	307	345	107	237	316	403	22	224	150	102.0	

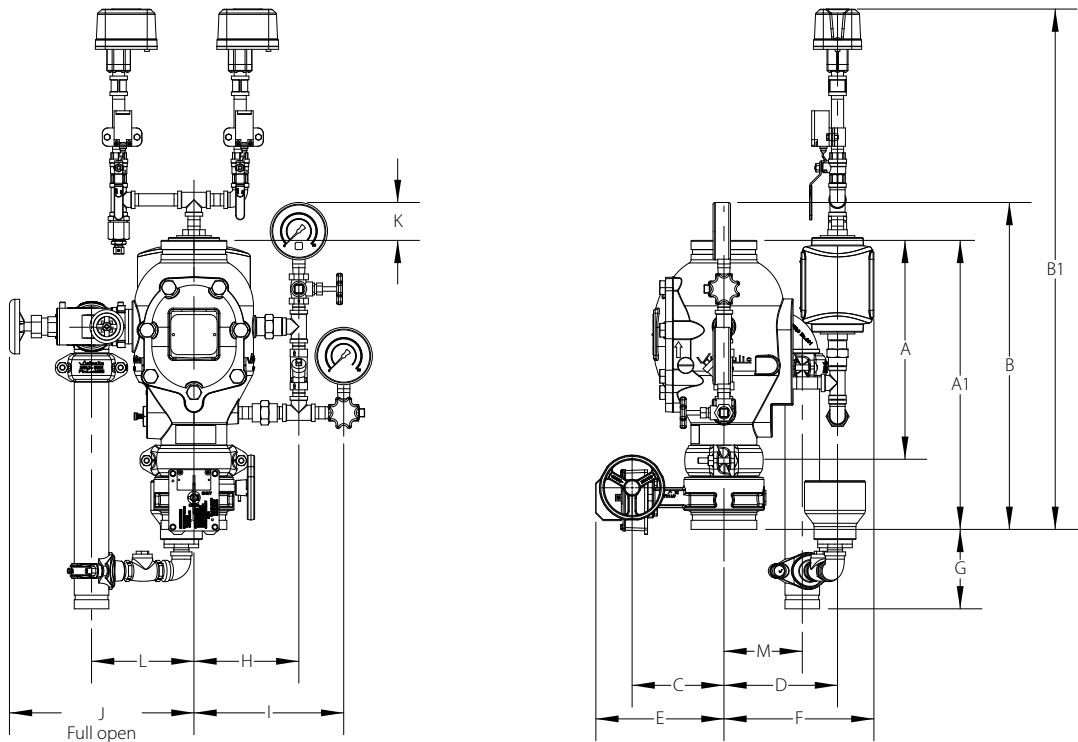
² The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

NOTE

- Overall height "B" is the greatest height if the optional Series 752 VdS Retarding Chamber Assembly is not installed.

4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions with European Base Valve: FG



Size		Dimensions															Weight
Nominal	Actual Outside Diameter	A ²	A1	B	B1	C	D	E	F	G	H	I	J	K	L	M	Approx. Each
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
3	3.500	12.61	16.51	17.22	34.20	5.50	7.36	7.47	9.86	9.80	6.72	9.76	11.41	0.67	6.21	5.11	96.0
DN80	88.9	321	420	438	869	140	188	190	251	249	171	248	290	18	158	130	43.5
4	4.500	15.03	19.94	22.53	35.81	6.31	7.80	8.80	10.31	5.45	7.21	10.29	14.08	2.60	7.04	5.38	130.0
DN100	114.3	382	507	573	910	161	199	224	262	139	184	262	358	67	179	137	59.0
6	6.625	16.00	22.12	24.74	37.57	8.22	10.04	10.85	11.54	2.93	7.59	10.67	14.46	2.54	7.42	5.38	165.0
DN150	168.3	407	562	629	955	209	256	276	294	75	193	272	368	65	189	137	75.0
8	8.625	17.50	23.02	24.09	37.12	9.47	10.05	12.07	12.55	4.18	9.33	12.41	15.83	0.83	8.79	5.88	230.0
DN200	219.1	445	585	612	943	241	256	307	319	107	237	316	403	22	224	150	104.5

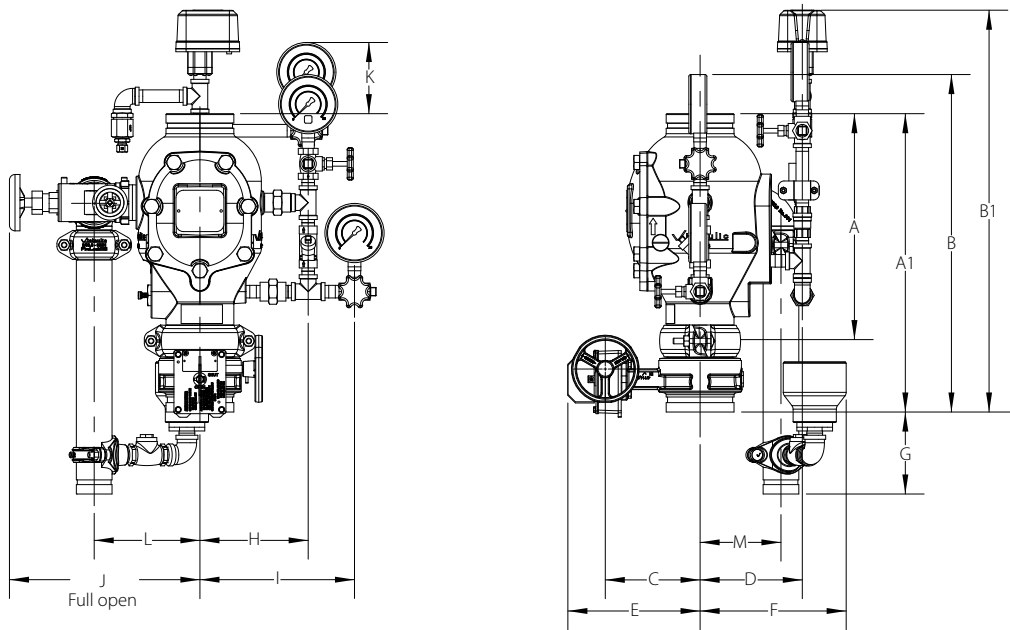
² The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

NOTE

- For FG trim, an additional coupling and water supply main control valve are available as an option for installation above the Series 751 FireLock European Alarm Check Valve (system side). The addition of this option will not affect the B1 dimension shown.

4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions with European Base Valve: SBSC



Size		Dimensions															Weight
Nominal	Actual Outside Diameter	A ²	A1	B	B1	C	D	E	F	G	H	I	J	K	L	M	Approx. Each
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
3	3.500	12.61	16.51	17.22	25.19	5.50	6.36	7.47	9.33	9.80	6.72	9.76	11.41	6.50	6.21	5.11	85.0
DN80	88.9	321	420	438	640	140	162	190	237	249	171	248	290	165	158	130	38.5
4	4.500	15.03	19.94	22.53	26.81	6.31	6.80	8.80	9.72	5.45	7.21	10.29	14.08	4.72	7.04	5.38	115.0
DN100	114.3	382	507	573	681	161	173	224	247	139	184	262	358	120	179	137	52.0
6	6.625	16.00	22.12	24.74	28.56	8.22	8.04	10.85	9.72	2.93	7.59	10.67	14.46	4.22	7.42	5.38	155.0
DN150	168.3	407	562	629	726	209	205	276	247	75	193	272	368	108	189	137	70.5
8	8.625	17.50	23.02	24.09	28.12	9.47	9.05	12.07	10.22	4.18	9.33	12.41	15.83	2.71	8.79	5.88	220.0
DN200	219.1	445	585	612	715	241	230	307	260	107	237	316	403	69	224	150	100.0

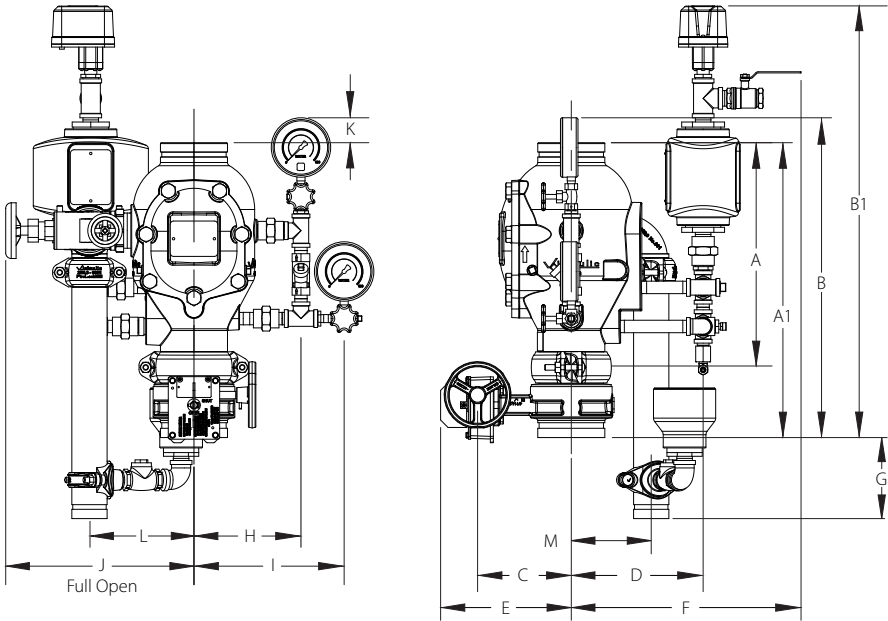
² The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

NOTE

- For SBSC trim, an additional coupling and water supply main control valve are available as an option for installation above the Series 751 FireLock European Alarm Check Valve (system side). The addition of this option will not affect the B1 dimension shown.

4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions with Base Valve: APSAD



Size		Dimensions															Weight	
Nominal	Actual Outside Diameter	A ²	A1	B	B1	C	D	E	F	G	H	I	J	K	L	M	Approx. Each	
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs	
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
3	3.500	12.61	16.51	16.50	27.50	5.50	7.75	10.38	14.38	9.80	6.75	9.25	11.41	-	6.21	5.11	91.0	
DN80	88.9	321	420	417	698	140	195	262	363	249	170	233	290	-	158	130	41.5	
4	4.500	15.03	19.94	21.63	29.13	6.31	9.00	11.13	15.50	5.45	7.25	10.13	14.08	1.75	7.04	5.38	125.0	
DN100	114.3	382	507	547	738	161	226	281	393	139	184	257	358	43	179	137	56.5	
6	6.625	16.00	22.12	24.13	30.75	8.22	9.13	13.13	15.75	2.93	7.63	10.50	14.46	2.00	7.42	5.38	165.0	
DN150	168.3	407	562	611	781	209	232	333	400	75	193	267	368	51	189	137	75.0	
8	8.625	17.50	23.02	23.38	30.25	9.47	10.13	14.38	16.75	4.18	9.38	12.25	15.83	0.38	8.79	5.88	225.0	
DN200	219.1	445	585	592	766	241	257	364	425	107	237	311	403	7	224	150	102.0	

² The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

5.0 PERFORMANCE

Frictional Resistance

The chart below expresses the frictional resistance of Series 751 *FireLock* Alarm Check Valve in equivalent feet or meters of straight pipe.

Size		Equivalent Length of Pipe				
Nominal inches DN	Actual Outside Diameter inches DN	cULus	FM	CCC	VdS, CE, UKCA, FM, EAC, LPCB, SBSC, FG (European Trim)	APSA
		feet meters	feet meters	meters feet	meters feet	meters feet
1 ½ DN40	1.900 48.3	3.00 0.910	3.00 0.910	– –	– –	– –
2 DN50	2.875 60.3	9.00 2.740	9.00 2.740	– –	– –	– –
2 ½ DN65	2.875 73.0	8.00 2.438	8.00 2.438	– –	– –	– –
3 DN80	3.000 76.1	8.00 2.438	8.00 2.438	– –	– –	– –
4 DN100	3.500 88.9	17.00 5.182	17.00 5.182	5.182 17.00	5.182 17.00	5.182 17.00
6 DN150	4.500 114.3	21.00 6.401	21.00 6.401	6.401 21.00	6.401 21.00	6.401 21.00
8 DN200	6.500 165.1	22.00 6.706	22.00 6.706	6.706 22.00	6.706 22.00	– –
	6.625 168.3	22.00 6.706	22.00 6.706	6.706 22.00	6.706 22.00	6.706 22.00
	8.625 219.1	50.00 15.240	50.00 15.240	15.240 50.00	15.240 50.00	15.240 50.00

Maximum Working Pressure

Size		Maximum Working Pressure				
Nominal inches DN	Actual Outside Diameter inches DN	cULus	FM	CCC	VdS, CE, UKCA, FM, EAC, LPCB, SBSC, FG (European Trim)	APSA
		psi kPa Bar	psi kPa Bar	psi kPa Bar	psi kPa Bar	psi kPa Bar
1 ½ DN40	1.900 48.3	300 2068 21	300 2068 21	–	–	–
2 DN50	2.375 60.3	300 2068 21	300 2068 21	–	–	–
2 ½ DN65	2.875 73.0	300 2068 21	300 2068 21	–	–	–
3 DN80	3.000 76.1	300 2068 21	300 2068 21	–	–	–
4 DN100	3.500 88.9	300 2068 21	300 2068 21	232 1600 16	232 1600 16	300 2068 21
6 DN150	4.500 114.3	300 2068 21	300 2068 21	232 1600 16	232 1600 16	300 2068 21
8 DN200	6.500 165.1	300 2068 21	300 2068 21	232 1600 16	232 1600 16	–
	6.625 168.3	300 2068 21	300 2068 21	232 1600 16	232 1600 16	300 2068 21
	8.625 219.1	232 1600 16	232 1600 16	232 1600 16	232 1600 16	232 1600 16

6.0 NOTIFICATIONS

! WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA) standards, or equivalent local and national fire protection standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCES

[10.64: Style 009V, 009N, and 109 FireLock™ Installation-Ready™ Rigid Couplings](#)

[10.81: Firelock™ Butterfly Valve with Weatherproof Actuator Series 705](#)

[30.31: Firelock™ Retard Chamber Series 752](#)

[30.32: Firelock™ Water Motor Alarm Series 760](#)

[I-751: Firelock™ Alarm Check Valve Series 751 Installation, Maintenance, and Testing Manual](#)

[I-751.PST: Firelock™ Alarm Check Valve Series 751 Installation Poster](#)

[I-751.Europe: Firelock™ European Alarm Check Valve Stations Series 751 Installation, Maintenance, and Testing Manual](#)

[I-751-VDS-ADD: Firelock™ European Alarm Check Valve Station \(VDS\) Series 751 Wall Chart for Placing the System in Service](#)

[I-751.APSAD: Firelock™ Alarm Check Valve Stations Series 751 Installation, Maintenance, and Testing Manual](#)

[I-751.APSAD.PST: Firelock™ Alarm Check Valve Stations Series 751 Wall Chart for Placing the System in Service](#)

[I-760: Firelock™ Water Motor Alarm Series 760 Installation Manual](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at victaulic.com.

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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