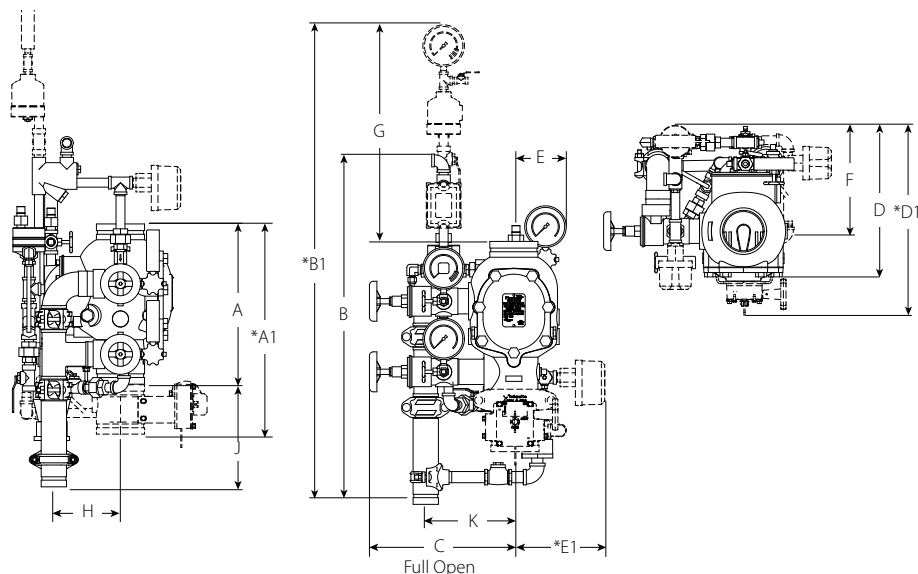


FireLock® Automatic Devices and Accessories

FireLock NXT® Dry System Check Valve

SERIES 768

For Complete Information
Request Publication 30.80



THE 4"/100mm UL LISTED, FM APPROVED CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50mm CONFIGURATIONS CONTAIN ¾"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



Size		Dimensions – Inches/mm														Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	A1 *	B	B1 *	C	D	D1 *	E	E1 *	F	G	H	J	K	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	9.00 228.60	16.43 417.32	27.25 692	39.50 1003	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	21.25 539	3.04 77.21	9.17 232.91	6.98 177.29	16.7 7.6	43.0 19.5
2 50	2.375 60.3	9.00 228.60	16.43 417.32	27.25 692	39.50 1003	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	21.25 539	3.04 77.21	9.17 232.91	6.98 177.29	17.0 7.7	43.3 19.6
2½ 65	2.875 73.0	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
76.1 mm	3.000 76.1	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
3 80	3.500 88.9	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
4 100	4.500 114.3	15.03 381.76	19.78 502.41	33.50 850	45.50 1155	15.00 381	15.75 400	20.50 520	5.25 133	9.00 228	10.75 273	21.00 533	6.25 158.75	9.62 244.34	8.46 214.88	59.0 26.7	95.0 43.0
6 150	6.625 168.3	16.00 406.40	22.00 558.80	34.00 863	46.00 1168	15.50 393	17.00 431	22.00 558	5.25 133	8.50 215	11.50 292	20.50 520	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
165.1 mm	6.500 165.1	16.00 406.40	22.00 558.80	34.00 863	46.00 1168	15.50 393	17.00 431	22.00 558	5.25 133	8.50 215	11.50 292	20.50 520	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
8 200	8.625 219.1	17.50 444.50	22.94 582.67	33.50 850	45.50 1155	16.75 425	20.00 508	25.25 641	6.25 158	8.75 222	12.75 323	18.50 469	6.05 153.67	9.40 238.76	10.21 259.33	122.0 55.3	158.0 71.6

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13psi/90kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from dry-pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg.8-13
- When the system air pressure is released, the decreasing air pressure activates the low pressure actuator and releases the latch mechanism, which allows the clapper to open
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300psi/2065kPa
- Sizes from 1½–8"/40–200mm

* Measurements denoted with an asterisk take optional equipment into account.

IMPORTANT NOTES:

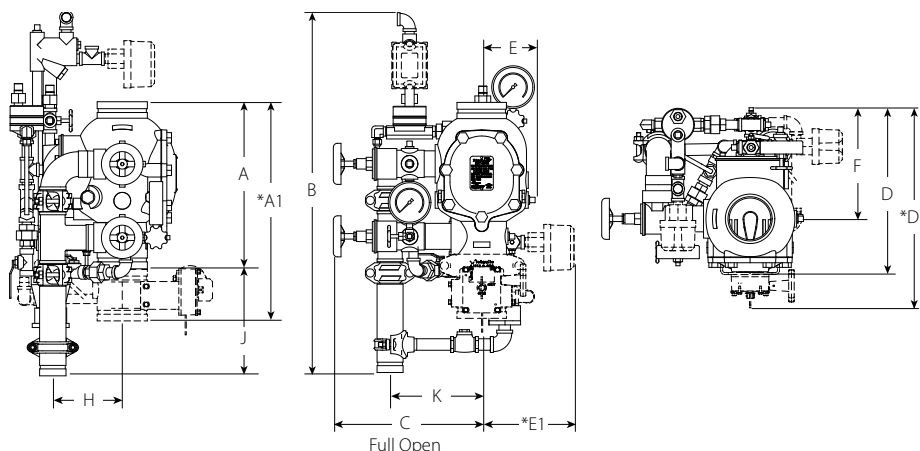
The "A" dimension coupling is not shown in order to clarify dimensional callouts. Components shown as dotted lines denote optional equipment. Optional drain connection kit is shown for reference and takeout dimensions. The drawings shown above reflect the dry valve trim with Series 776 low pressure actuator.

FireLock® Automatic Devices and Accessories

FireLock NXT® Deluge System Check Valve

SERIES 769

For Complete Information
Request Publication **30.81**



THE 4"100 mm DRY PILOT CONFIGURATION IS SHOWN ABOVE
1½–2"40–50 mm CONFIGURATIONS CONTAIN ¾"20 mm DRAIN VALVES.
2½–3"65–80 mm CONFIGURATIONS CONTAIN 1¼"32 mm DRAIN VALVES.
4–8"100–200 mm CONFIGURATIONS CONTAIN 2"50 mm DRAIN VALVES.

Size		Dimensions – Inches/mm													Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm														Without Trim Lbs. kg	With Trim Lbs. kg
		A	A1 *	B	C	D	D1 *	E	E1 *	F	H	J	K			
1½ 40	1.900 48.3	9.00 228.60	16.43 417.32	28.50 723	13.75 349	12.50 317	15.00 381	5.25 133	8.50 215	9.25 234	3.04 77.21	9.17 232.91	6.98 177.29	16.7 7.6	43.0 19.5	
2 50	2.375 60.3	9.00 228.60	16.43 417.32	28.50 723	13.75 349	12.50 317	15.00 381	5.25 133	8.50 215	9.25 234	3.04 77.21	9.17 232.91	6.98 177.29	17.0 7.7	43.3 19.6	
2½ † 65	2.875 73.0	12.61 320.29	16.50 419.10	32.25 819	13.50 342	13.50 342	17.50 444	5.25 133	9.00 228	9.25 234	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5	
76.1 mm	3.000 76.1	12.61 320.29	16.50 419.10	32.25 819	13.50 342	13.50 342	17.50 444	5.25 133	9.00 228	9.25 234	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5	
	3 80	3.500 88.9	12.61 320.29	16.50 419.10	32.25 819	13.50 342	17.50 444	5.25 133	9.00 228	9.25 234	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5	
4 100	4.500 114.3	15.03 381.76	19.78 502.41	33.50 850	15.00 381	15.75 400	20.50 520	5.50 139	9.00 228	10.75 273	6.25 158.75	9.62 244.34	8.46 214.88	59.0 26.7	95.0 43.0	
6 150	6.625 168.3	16.00 406.40	22.00 558.80	33.75 857	15.50 393	16.75 425	22.00 558	6.00 152	8.50 215	11.25 285	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6	
165.1 mm	6.500 165.1	16.00 406.40	22.00 558.80	33.75 857	15.50 393	16.75 425	22.00 558	6.00 152	8.50 215	11.25 285	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6	
	8 200	8.625 219.1	17.50 444.50	22.94 582.67	33.50 850	16.75 425	19.75 501	25.25 641	7.00 177	8.75 222	12.75 323	6.05 153.67	9.40 238.76	10.21 259.33	122.0 55.3	158.0 71.6

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water supplies from deluge pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"40–200 mm

* Measurements denoted with an asterisk take optional equipment into account.

† European trim configurations are not available in 2½"/65 mm pipe sizes.

IMPORTANT NOTES:

The drawings shown above reflect the dry pilot trim with Series 776 low pressure actuator.

Available wet pilot or dry pilot with the Series 776 low pressure actuator.

In addition, these dimensions can be applied to hydraulic (wet pilot) release and electric release trim.

Components shown as dotted lines denote optional equipment.

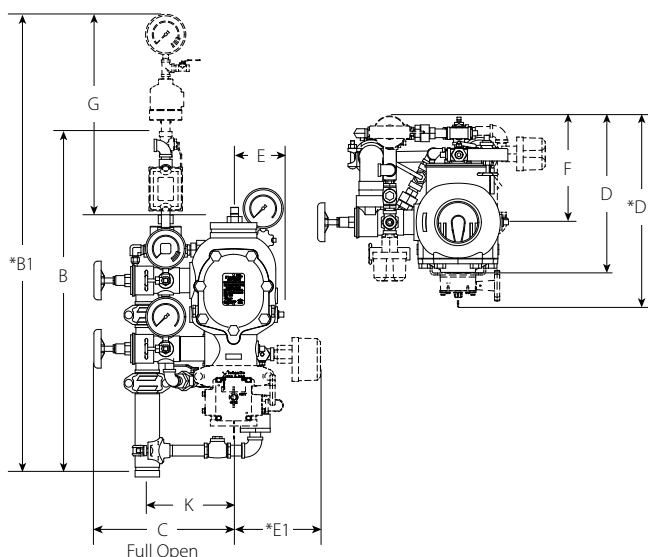
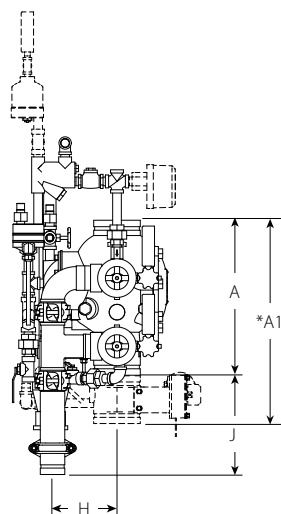
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

SERIES 769 WITH SERIES 776 LOW-PRESSURE ACTUATORS

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication 30.84.
For Systems Approved by LPCB, Request Publication 30.85



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE

1½–2"/40–50mm CONFIGURATIONS CONTAIN ¼"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



Size		Dimensions – Inches/mm														Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	A1 *	B	B1 *	C	D	D1 *	E	E1 *	F	G	H	J	K	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	9.00 228.60	16.43 417.32	28.25 717	40.50 1028	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	22.25 565	3.04 77.21	9.17 232.91	6.98 177.29	16.7 7.6	43.0 19.5
2 50	2.375 60.3	9.00 228.60	16.43 417.32	28.25 717	40.50 1028	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	22.25 565	3.04 77.21	9.17 232.91	6.98 177.29	17.0 7.7	43.3 19.6
2½ 65	2.875 73.0	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
76.1 mm	3.000 76.1	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
3 80	3.500 88.9	12.61 320.29	16.50 419.10	32.25 819	44.25 1123	13.50 342	16.00 406	17.50 444	5.25 133	9.00 228	9.25 234	21.25 539	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
4 100	4.500 114.3	15.03 381.76	19.78 502.41	33.25 844	45.50 1155	15.00 381	15.75 400	20.50 520	5.50 139	9.00 228	10.75 273	20.75 527	6.25 158.75	9.62 244.34	8.46 214.88	59.0 26.7	95.0 43.0
6 150	6.625 168.3	16.00 406.40	22.00 558.80	33.50 850	45.75 1162	15.50 393	17.00 431	22.00 558	6.00 152	8.50 215	11.50 292	20.00 508	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
165.1 mm	6.500 165.1	16.00 406.40	22.00 558.80	33.50 850	45.75 1162	15.50 393	17.00 431	22.00 558	6.00 152	8.50 215	11.50 292	20.00 508	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
8 200	8.625 219.1	17.50 444.50	22.94 582.67	33.50 850	45.50 1155	16.75 425	20.00 508	25.25 641	7.00 177	8.75 222	12.75 323	18.50 469	6.05 153.67	9.40 238.76	10.21 259.33	122.0 55.3	158.0 71.6

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"/40–200 mm

* Measurements denoted with an asterisk take optional equipment into account.

IMPORTANT NOTES:

The drawings shown above reflect single-interlocked, pneumatic release trim with Series 776 Low-Pressure Actuator.

Available in the following trim configurations:

- Non-interlock
 - Pneumatic release
 - Electric release
- Single-interlock
 - Pneumatic release
 - Electric release
- Double-interlock
 - Pneumatic/electric release
 - Electric/pneumatic/electric release
 - Pneumatic/pneumatic release

Components shown as dotted lines denote optional equipment.

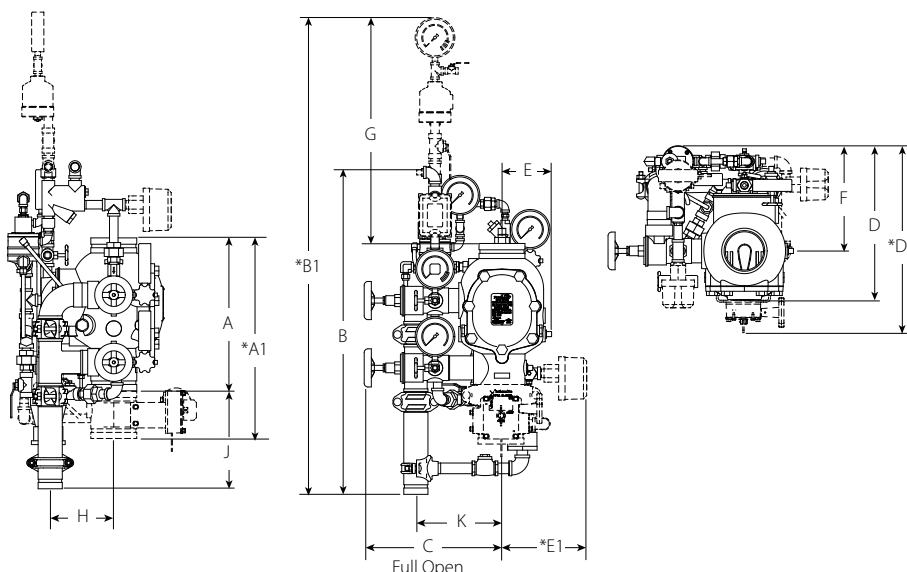
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

SERIES 769 WITH SERIES 767 ELECTRIC/PNEUMATIC ACTUATORS

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication **30.84**.
For Systems Approved by LPCB, Request Publication **30.85**



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50 mm CONFIGURATIONS CONTAIN ¾"/20 mm DRAIN VALVES.
2½–3"/65–80 mm CONFIGURATIONS CONTAIN 1¼"/32 mm DRAIN VALVES.
4–8"/100–200 mm CONFIGURATIONS CONTAIN 2"/50 mm DRAIN VALVES.

Size		Dimensions – Inches/mm														Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	A1 *	B	B1 *	C	D	D1 *	E	E1 *	F	G	H	J	K	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	9.00 228.60	16.43 417.32	28.00 711	42.75 1085	13.75 349	16.00 406	15.00 381	5.25 133	8.50 215	9.50 241	24.50 622	3.04 77.21	9.17 232.91	6.98 177.29	16.7 7.6	43.0 19.5
2 50	2.375 60.3	9.00 228.60	16.43 417.32	28.00 711	42.75 1085	13.75 349	16.00 406	15.00 381	5.25 133	8.50 215	9.50 241	24.50 622	3.04 77.21	9.17 232.91	6.98 177.29	17.0 7.7	43.3 19.6
2½ 65	2.875 73.0	12.61 320.29	16.50 419.10	31.25 793	45.75 1162	13.50 342	16.25 412	18.00 457	5.25 133	9.00 228	9.75 247	22.75 577	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
76.1 mm	3.000 76.1	12.61 320.29	16.50 419.10	31.25 793	45.75 1162	13.50 342	16.25 412	18.00 457	5.25 133	9.00 228	9.75 247	22.75 577	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
3 80	3.500 88.9	12.61 320.29	16.50 419.10	31.25 793	45.75 1162	13.50 342	16.25 412	18.00 457	5.25 133	9.00 228	9.75 247	22.75 577	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
4 100	4.500 114.3	15.03 381.76	19.78 502.41	32.75 831	47.50 1206	15.00 381	16.25 412	20.75 527	5.50 139	9.00 228	11.25 285	22.75 577	6.25 158.75	9.62 244.34	8.46 214.88	59.0 26.7	95.0 43.0
6 150	6.625 168.3	16.00 406.40	22.00 558.80	32.75 831	47.50 1206	15.50 393	17.25 438	22.25 565	6.00 152	8.50 215	11.50 292	21.75 552	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
165.1 mm	6.500 165.1	16.00 406.40	22.00 558.80	32.75 831	47.50 1206	15.50 393	17.25 438	22.25 565	6.00 152	8.50 215	11.50 292	21.75 552	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
8 200	8.625 219.1	17.50 444.50	22.94 582.67	32.50 825	47.00 1193	16.75 425	20.00 508	25.50 647	7.00 177	8.75 222	13.00 330	20.25 514	6.05 153.67	9.40 238.76	10.21 259.33	122.0 55.3	158.0 71.6

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Full trim packages for non-interlocked, single-interlocked and double-interlocked systems are available
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"/40–200 mm

* Measurements denoted with an asterisk take optional equipment into account.

IMPORTANT NOTES:

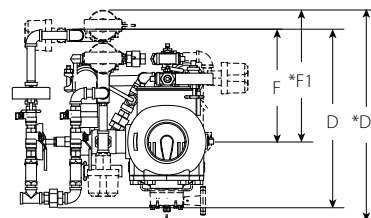
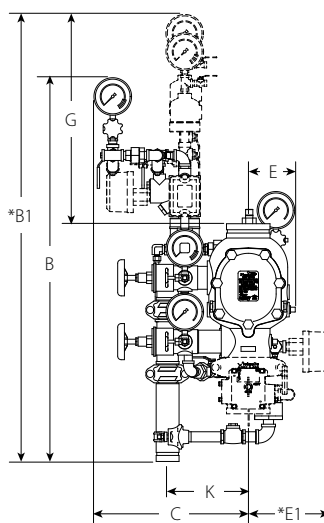
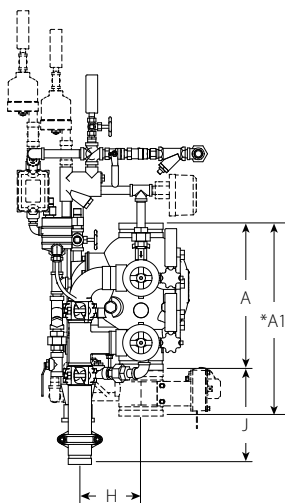
Components shown as dotted lines denote optional equipment.
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

SERIES 769 WITH SERIES 798 DOUBLE-PNEUMATIC ACTUATORS

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication **30.84**.
For Systems Approved by LPCB, Request Publication **30.85**



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE

1½–2"/40–50mm CONFIGURATIONS CONTAIN ¼"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



Size		Dimensions – Inches/mm															Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	A1 *	B	B1 *	C	D	D1 *	E	E1 *	F	F1	G	H	J	K	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	9.00 228.60	16.43 417.32	36.00 914	42.50 1079	15.75 400	19.00 482	21.00 533	5.25 133	8.50 215	10.75 273	12.75 323	24.25 615	3.04 77.21	9.17 232.91	6.98 177.29	16.7 7.6	43.0 19.5
2 50	2.375 60.3	9.00 228.60	16.43 417.32	36.00 914	42.50 1079	15.75 400	19.00 482	21.00 533	5.25 133	8.50 215	10.75 273	12.75 323	24.25 615	3.04 77.21	9.17 232.91	6.98 177.29	17.0 7.7	43.3 19.6
2½ 65	2.875 73.0	12.61 320.29	16.50 419.10	39.25 996	45.75 1162	15.75 400	19.00 482	21.00 533	5.25 133	9.00 228	10.75 273	12.75 323	22.50 571	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
76.1 mm	3.000 76.1	12.61 320.29	16.50 419.10	39.25 996	45.75 1162	15.75 400	19.00 482	21.00 533	5.25 133	9.00 228	10.75 273	12.75 323	22.50 571	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
3 80	3.500 88.9	12.61 320.29	16.50 419.10	39.25 996	45.75 1162	15.75 400	19.00 482	21.00 533	5.25 133	9.00 228	10.75 273	12.75 323	22.50 571	3.90 99.06	10.50 266.70	6.93 176.02	41.0 18.7	65.0 29.5
4 100	4.500 114.3	15.03 381.76	19.78 502.41	40.50 1028	47.00 1193	16.75 425	19.00 482	24.00 609	5.50 139	9.00 228	12.25 311	14.25 361	22.25 565	6.25 158.75	9.62 244.34	8.46 214.88	59.0 26.7	95.0 43.0
6 150	6.625 168.3	16.00 406.40	22.00 558.80	40.75 1035	47.25 1200	17.00 431	19.00 482	25.25 641	6.00 152	8.50 215	12.75 323	14.75 374	21.50 546	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
165.1 mm	6.500 165.1	16.00 406.40	22.00 558.80	40.75 1035	47.25 1200	17.00 431	19.00 482	25.25 641	6.00 152	8.50 215	12.75 323	14.75 374	21.50 546	6.20 157.48	9.62 244.34	8.84 224.53	80.0 36.2	116.0 52.6
8 200	8.625 219.1	17.50 444.50	22.94 582.67	40.50 1028	47.00 1193	18.25 463	21.50 546	28.75 730	7.00 177	8.75 222	14.25 361	16.25 412	20.00 508	6.05 153.67	9.40 238.76	10.21 259.33	122.0 55.3	158.0 71.6

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Full trim packages for non-interlocked, single-interlocked and double-interlocked systems are available
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"/40–200 mm

* Measurements denoted with an asterisk take optional equipment into account.

IMPORTANT NOTES:

Components shown as dotted lines denote optional equipment.

Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock European Alarm Check Valve Station

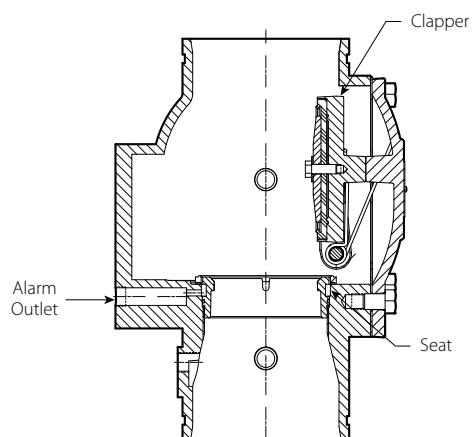
SERIES 751

For Complete Information
Request Publication 30.01



- Prevents the reverse flow of water from the system piping to the water supply
- The bypass line allows pressure surges to enter the system without causing false alarms
- Can be installed in vertical positions only
- Excess pressure pump trim option available upon request
- For available accessories, see pg. 8-16
- Pressure rated up to 232 psi/16 bar
- Available in 3", 4", 6" 165.1mm (not VdS Approved) and 8" sizes

Size		Dimensions – Inches/mm										Aprx. Wgt. Each	
Nominal Size In./mm	Actual Outside Diameter In./mm	E to E A	Height B	Width C	Depth D	E	F	G	H	J		Without Trim Lbs./kg	With Trim Lbs./kg
1 1/2 40	1.900 48.3	9.00 228.60	18.50 470	21.00 533	12.50 318	10.00 254	11.00 279	9.00 229	5.00 127	5.00 127		14.2 6.4	31.0 14.1
2 50	2.375 60.3	9.00 228.60	18.50 470	21.00 533	12.50 318	10.00 254	11.00 279	9.00 229	5.00 127	5.00 127		14.6 6.6	31.0 14.1
2 1/2 65	2.875 73.0	12.61 320.29	22.50 572	23.50 597	13.50 343	11.25 286	12.00 305	9.00 229	5.00 127	5.00 127		34.4 15.6	52.0 23.6
76.1 mm	3.000 76.1	12.61 320.29	22.50 572	23.50 597	13.50 343	11.25 286	12.00 305	9.00 229	5.00 127	5.00 127		34.4 15.6	52.0 23.6
3 80	3.500 88.9	12.61 320.29	22.50 572	23.50 597	13.50 343	11.25 286	12.00 305	9.00 229	5.00 127	5.00 127		35.3 16.0	52.0 23.6
4 100	4.500 114.3	15.03 381.76	23.50 597	29.00 737	14.00 356	13.50 343	15.00 381	10.00 254	5.80 147	5.80 147		49.0 22.2	80.0 36.3
6 150	6.625 168.3	16.00 406.40	24.00 610	30.11 765	17.28 439	14.25 362	16.00 406	10.00 254	5.88 149	6.02 153		69.0 31.3	91.0 41.3
165.1 mm	6.500 165.1	16.00 406.40	24.00 610	30.11 765	17.28 439	14.25 362	16.00 406	10.00 254	5.88 149	6.02 153		69.0 31.3	95.0 43.1
8 200	8.625 219.1	17.50 444.50	26.00 660	30.00 762	18.00 457	15.25 387	16.00 406	10.00 254	16.00 406	10.00 254		142 64.4	182 82.6
4 100	4.500 114.3	15.64 397.26	23.50 597	29.00 737	14.00 355	11.50 292	15.00 381	10.00 254	5.80 147	5.80 147		59.0 26.8	90.0 40.8
6 150	6.625 168.3	16.94 430.28	24.00 610	30.11 765	17.28 439	14.00 356	16.00 406	10.00 254	5.88 149	6.02 153		79.0 35.8	106.0 48.1
165.1 mm	6.500 165.1	16.94 430.28	24.00 610	30.11 765	17.28 439	14.00 356	16.00 406	10.00 254	5.88 149	6.02 153		79.0 35.8	110.0 49.9
8 200	8.625 219.1	19.27 489.46	26.00 660	20.00 508	18.00 457	16.00 406	14.00 356	10.00 254	16.00 406	10.00 254		155 70	195 88.5



Exaggerated for clarity