Technical Design Specifications

LEAK DEFENSE®

The Leak Defense System (LDS) suite of products is designed to prevent catastrophic damage in any building. With numerous sized shutoff valves and a number of accessories, each building gets tailored protection to fit the specific needs and budget. From Single-Family to Multi-Family to Commercial, Leak Defense has your project covered!









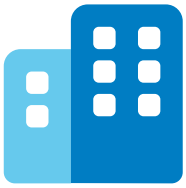
Single-Family Residential

- Valve on main water line monitoring all flow in the home
- Accommodations for irrigation, recirculation pumps, filters/softeners, humidifiers, reverse osmosis systems, ice makers, etc.
- Options for monitoring multiple lines such as hot & cold or dual/multi-supply



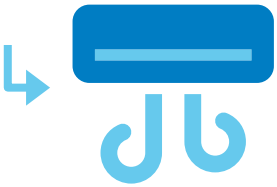
Multi-Family / High-Rise

- Phases of protection with shutoff valves: main water line, zones, stacks, individual units
- Point of Leak Detector only system used to protect units with shared water lines
- Remote monitoring & notification for unit owners and building management



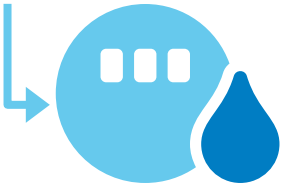
Commercial

- Can monitor HVAC and Domestic water lines
- System can be wired or wireless for ease of installation
- Monitor every system in the building from one phone, tablet, or PC anywhere in the building, or the world



HVAC Water Lines

- Supply & return valves can alarm simultaneously or separately
- Sensing cable to detect exterior leaks around HVAC units, then automatically close supply/return valves and shut off pumps
- Valves can be set to ignore flow for constantly running systems



Domestic Water Lines

- Monitor whole building with automatic water shutoff valves and/or monitor sections
- Accommodations for booster pumps, recirculation pumps, filters/softeners, etc.

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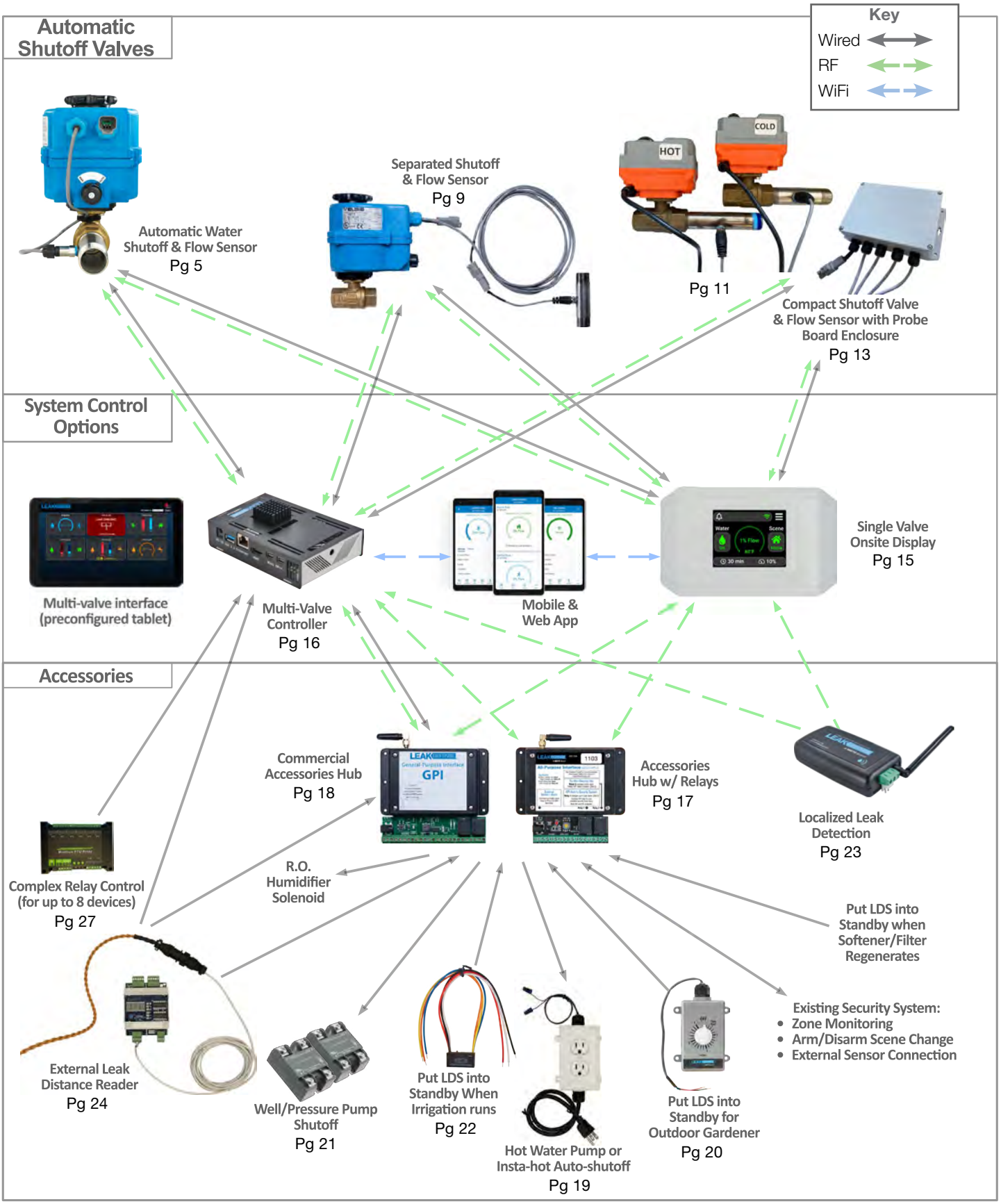
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LDS Architecture



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General Submittal

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

QTY.	PRODUCT CODE	LOCATION

Engineering Specification

Leak Defense System (LDS)

LDS-3-(size)

Flow-Based Leak Detection

- Automatic or manual water shutoff valve with advanced, non-mechanical flow-sensing technology
- Full-port lead-free brass ball valve with stainless steel probe pipe
- Various alarm and alert types
- Shut off a single valve or an entire zone with one touch
- Requires LDS-3-WCP or CCM to interact with the valve







Feature List	
Connection	Input NPT male Output NPT female
Wall Power	NEMA 5-15R 120 VAC
Transformer	NEMA 5-15P IN: 120VAC OUT: 24VAC (10ft cable length)
Non-Continuous Max Power Draw	2.0 amp*
Continuous Idle Power Draw	0.1 amp
Optional Pressure Sensor	Contact Sales
Valve Position Confirmation	Yes
Communication	RF: 433 MHz valve to WCP/CCM** Wired: RS-485 (TIA/EIA-485)
Cable Specification	Belden 2413F (Plenum), 2412F (Riser), 2149A (Outdoor), OSP6F (Underground) or equivalent
Max Water Pressure	600 PSI (@ 176°F)
Max Water Temperature	366°F (@ 96 PSI)
Mid-Range Temp /Pressure	250°F / 400 PSI
Max Ambient Temp	133°F
Torque	133 to 1680 in-lbs 15 to 190 NM (size dependent)
Overload Torque Protection	Yes
Auto/Manual Modes	Yes, no tools required
Ball Valve	Lead-free, full-port, blowout proof
Open/Close Cycle Time	8-15s (depending on size)
Enclosure	Self extinguishing techno-polymer RF transmissive
Anti-Condensation Heater	Yes
Orientation	No restrictions, vertical/horizontal 360°
Input Auto Reset PCB Fuse	Yes
Certification	UL 1951, CSA C22.2 No. 14, 18
Sensitivity	0.005 gpm (for ¾" pipe)

*Only during valve movement & full water flow
**Wireless Control Panel / Commercial Control Module

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LDS Dimensions

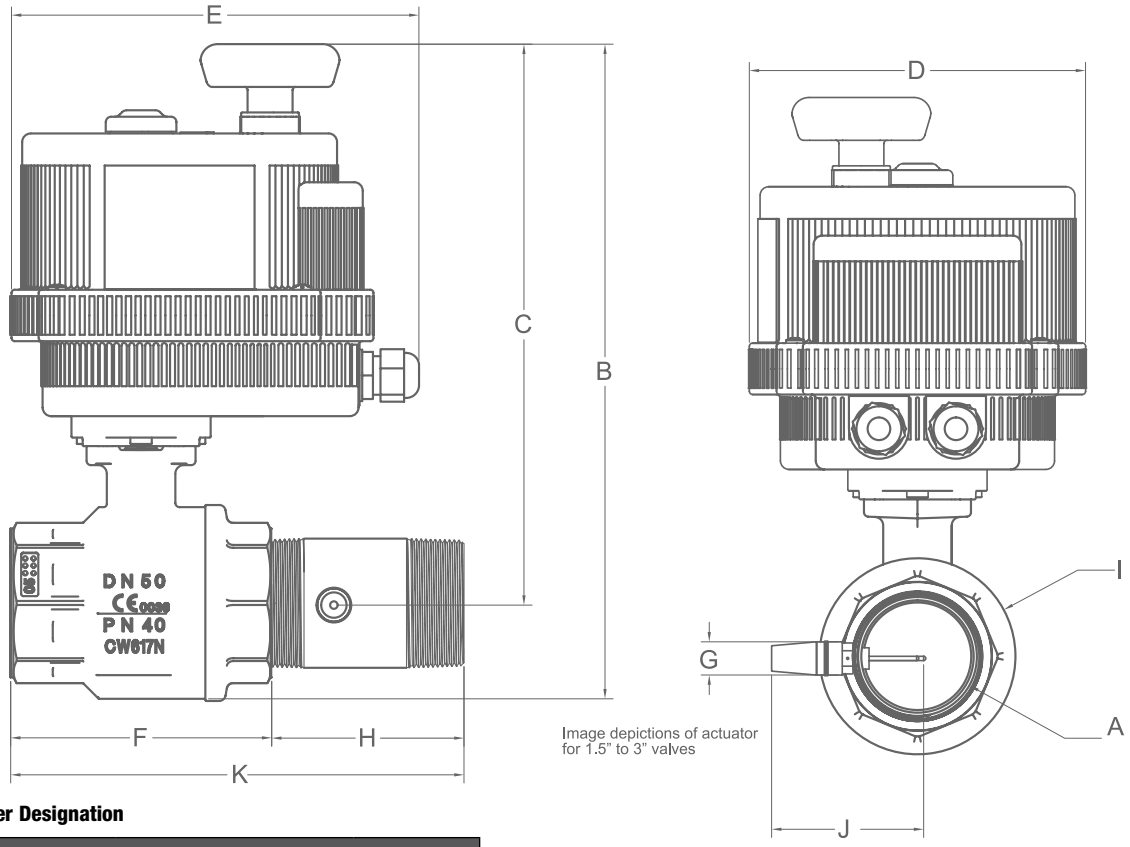


Image depictions of actuator for 1.5" to 3" valves

Model Number Designation

LDS	-3	-###
Product Line	**Release Version**	**Pipe Size**
LDS = Leak Defense System	3 = Standard Wireless 3H = Hard-Wired to Controller	075 = 0.75" 100 = 1.00" 125 = 1.25" 150 = 1.50" 200 = 2.00" 250 = 2.50" 300 = 3.00" 400 = 4.00"

PN	DIN	A*	B	C	D	E	F	G	H**	I	J	K	Weight
LDS-3-075	DN20	.750 (19.1)	7.72 (196)	6.93 (176)	4.84 (123)	6.41 (163)	3.00 (76.2)	.600 (15.2)	3.50 (88.9)	1.57 (39.9)	2.40 (61.0)	6.50 (165)	4.60 (2.09)
LDS-3-100	DN25	1.00 (25.4)	8.33 (212)	7.36 (187)	4.84 (123)	6.41 (163)	3.35 (85.1)	.600 (15.2)	3.50 (88.9)	1.93 (49.0)	2.40 (61.0)	6.85 (174)	5.35 (2.43)
LDS-3-125	DN32	1.25 (31.8)	8.63 (219)	7.50 (191)	4.84 (123)	6.41 (163)	3.66 (93.0)	.600 (15.2)	3.50 (88.9)	2.30 (58.4)	2.40 (61.0)	7.16 (182)	6.15 (2.79)
LDS-3-150	DN40	1.50 (38.1)	9.56 (243)	8.14 (207)	4.84 (123)	6.41 (163)	4.15 (105)	.600 (15.2)	3.50 (88.9)	2.87 (72.9)	2.90 (73.7)	7.65 (194)	7.60 (3.45)
LDS-3-200	DN50	2.00 (50.8)	12.0 (305)	10.2 (259)	6.18 (157)	7.50 (191)	4.80 (122)	.600 (15.2)	3.50 (88.9)	3.60 (91.4)	2.90 (73.7)	8.30 (211)	12.1 (5.49)
LDS-3-250	DN65	2.50 (63.5)	14.2 (361)	12.0 (305)	7.28 (185)	7.87 (200)	6.10 (155)	.600 (15.2)	3.50 (88.9)	4.51 (115)	2.90 (73.7)	9.60 (244)	18.7 (8.48)
LDS-3-300	DN80	3.00 (76.2)	15.0 (381)	12.4 (315)	7.28 (185)	7.87 (200)	6.89 (175)	.600 (15.2)	3.50 (88.9)	5.35 (136)	2.90 (73.7)	10.4 (264)	27.1 (12.3)
LDS-3-400	DN100	4.00 (101.6)	16.8 (427)	13.57 (345)	8.31 (211)	9.33 (237)	7.84 (199)	.600 (15.2)	3.50 (88.9)	6.46 (164)	2.90 (73.7)	11.4 (288)	40.4 (18.3)

**A is Nominal **H is Average Length **All Fittings are NPT **in (mm) **lb (kg)

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Engineering Specification

Leak Defense System (LDS) - Dual

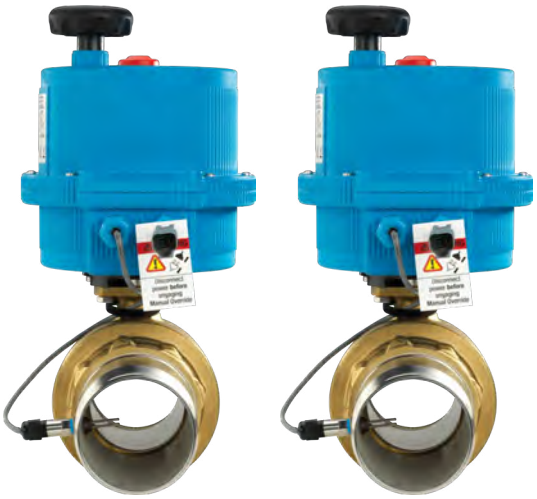
LDS-3-(size)-D

Dual (Hot & Cold) Flow-Based Leak Detection

- Automatic or manual water shutoff valve with advanced, non-mechanical flow-sensing technology
- Full-port lead-free brass ball valve with stainless steel probe pipe
- Various alarm and alert types
- Shut off a single valve or an entire zone with one touch
- Requires LDS-3-WCP or CCM to interact with the valve
- Probe Board Enclosure (PBE, see page 13) also required

Feature List	
Connection	Input NPT male Output NPT female
Wall Power	NEMA 5-15R 120 VAC
Transformer	NEMA 5-15P IN: 120VAC OUT: 24VAC (10ft cable length)
Non-Continuous Max Power Draw	2.0 amp*
Continuous Idle Power Draw	0.1 amp
Optional Pressure Sensor	Contact Sales
Valve Position Confirmation	Yes
Communication	RF: 433 MHz valve to WCP/CCM**
	Wired: RS-485 (TIA/EIA-485)
Cable Specification	Belden 2413F (Plenum), 2412F (Riser), 2149A (Outdoor), OSP6F (Underground) or equivalent
Max Water Pressure	600 PSI (@ 176°F)
Max Water Temperature	366°F (@ 96 PSI)
Mid-Range Temp /Pressure	250°F / 400 PSI
Max Ambient Temp	133°F
Torque	133 to 1680 in-lbs 15 to 190 NM (size dependent)
Overload Torque Protection	Yes
Auto/Manual Modes	Yes, no tools required
Ball Valve	Lead-free, full-port, blowout proof
Open/Close Cycle Time	8-15s (depending on size)
Enclosure	Self extinguishing techno-polymer RF transmissive
Anti-Condensation Heater	Yes
Orientation	No restrictions, vertical/horizontal 360°
Input Auto Reset PCB Fuse	Yes
Certification	UL 1951, CSA C22.2 No. 14, 18
Valve-to-Valve Distance	Max 20' between valves, 10' between valve and PBE
Sensitivity	0.005 gpm (for ¾" pipe)

*Only during valve movement & full water flow
**Wireless Control Panel / Commercial Control Module







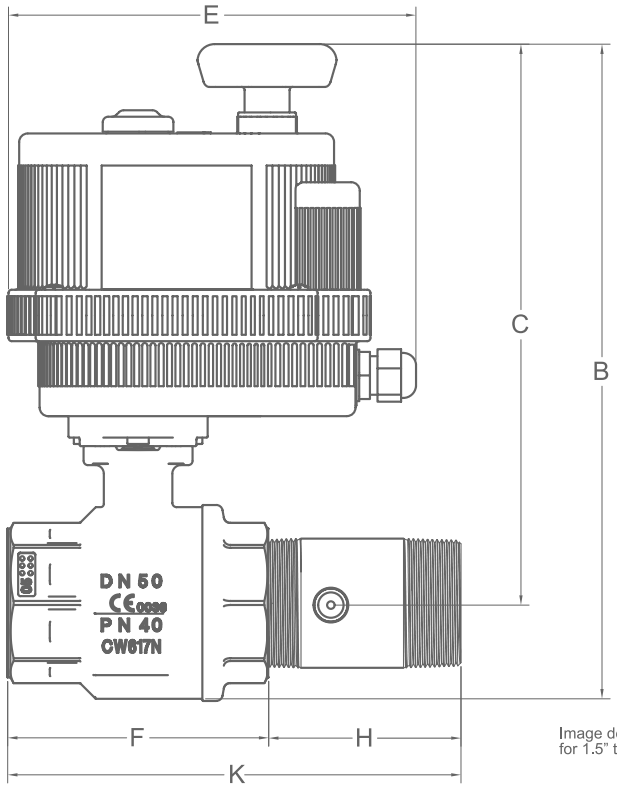
Probe Board Enclosure (PBE, see page 13)

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LDS Dual Dimensions



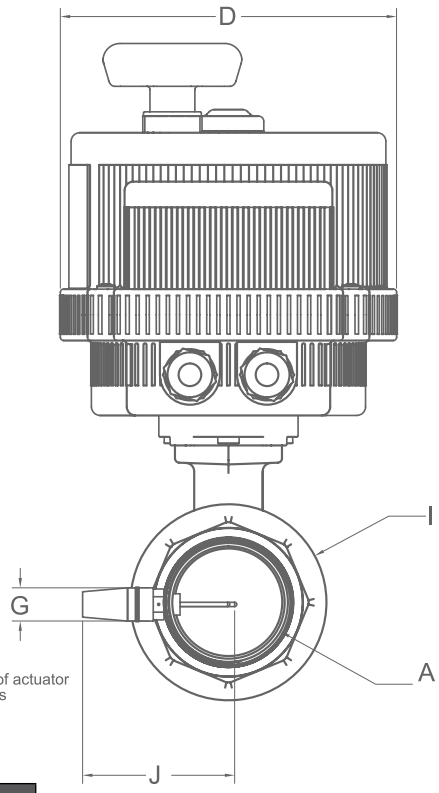


Image depictions of actuator for 1.5" to 3" valves

Model Number Designation

LDS	-3	-###	-D
Product Line	**Release Version**	**Pipe Size**	**Sub-type**
LDS = Leak Defense System	3 = Standard Wireless 3H = Hard-Wired to Controller	075 = 0.75" 100 = 1.00" 125 = 1.25" 150 = 1.50" 200 = 2.00" 250 = 2.50" 300 = 3.00" 400 = 4.00"	D = Dual Leak Defense System

PN	DIN	A*	B	C	D	E	F	G	H**	I	J	K	Weight
LDS-3-075	DN20	.750 (19.1)	7.72 (196)	6.93 (176)	4.84 (123)	6.41 (163)	3.00 (76.2)	.600 (15.2)	3.50 (88.9)	1.57 (39.9)	2.40 (61.0)	6.50 (165)	4.60 (2.09)
LDS-3-100	DN25	1.00 (25.4)	8.33 (212)	7.36 (187)	4.84 (123)	6.41 (163)	3.35 (85.1)	.600 (15.2)	3.50 (88.9)	1.93 (49.0)	2.40 (61.0)	6.85 (174)	5.35 (2.43)
LDS-3-125	DN32	1.25 (31.8)	8.63 (219)	7.50 (191)	4.84 (123)	6.41 (163)	3.66 (93.0)	.600 (15.2)	3.50 (88.9)	2.30 (58.4)	2.40 (61.0)	7.16 (182)	6.15 (2.79)
LDS-3-150	DN40	1.50 (38.1)	9.56 (243)	8.14 (207)	4.84 (123)	6.41 (163)	4.15 (105)	.600 (15.2)	3.50 (88.9)	2.87 (72.9)	2.90 (73.7)	7.65 (194)	7.60 (3.45)
LDS-3-200	DN50	2.00 (50.8)	12.0 (305)	10.2 (259)	6.18 (157)	7.50 (191)	4.80 (122)	.600 (15.2)	3.50 (88.9)	3.60 (91.4)	2.90 (73.7)	8.30 (211)	12.1 (5.49)
LDS-3-250	DN65	2.50 (63.5)	14.2 (361)	12.0 (305)	7.28 (185)	7.87 (200)	6.10 (155)	.600 (15.2)	3.50 (88.9)	4.51 (115)	2.90 (73.7)	9.60 (244)	18.7 (8.48)
LDS-3-300	DN80	3.00 (76.2)	15.0 (381)	12.4 (315)	7.28 (185)	7.87 (200)	6.89 (175)	.600 (15.2)	3.50 (88.9)	5.35 (136)	2.90 (73.7)	10.4 (264)	27.1 (12.3)
LDS-3-400	DN100	4.00 (101.6)	16.8 (427)	13.57 (345)	8.31 (211)	9.33 (237)	7.84 (199)	.600 (15.2)	3.50 (88.9)	6.46 (164)	2.90 (73.7)	11.4 (288)	40.4 (18.3)

**A is Nominal **H is Average Length **All Fittings are NPT **in (mm) **lb (kg)

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Engineering Specification

Leak Defense Split System (LDS)

LDS-3-(size)-B(length)

Split System

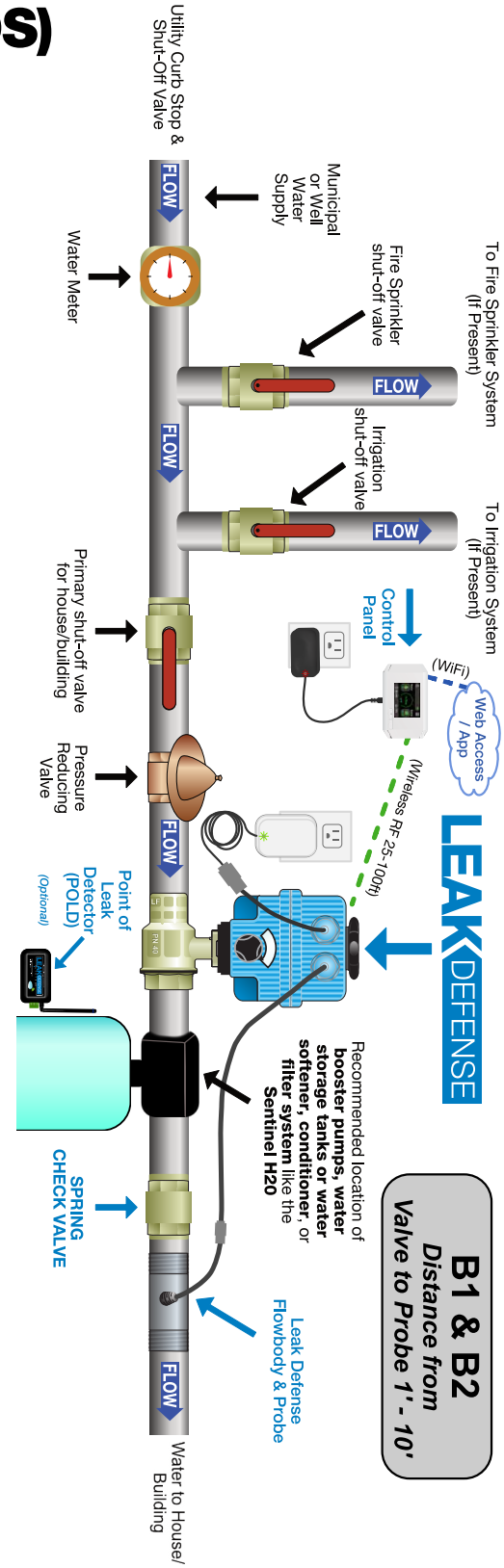




- Flow sensor installed separate from valve to monitor house while bypassing regenerating filter or softener*
- 5'(B1) or 10'(B2) between probe and valve, custom options (B3) available if required (>10' to 75')
- Requires LDS-3-WCP or CCM to interact with the valve

** Recommend Point of Leak Detector and rope around filtration tanks*

Feature List	
Connection	Input NPT male Output NPT female
Wall Power	NEMA 5-15R 120 VAC
Transformer	NEMA 5-15P IN: 120VAC OUT: 24VAC (10ft cable length)
Non-Continuous Max Power Draw	2.0 amp**
Continuous Idle Power Draw	0.1 amp
Optional Pressure Sensor	Contact Sales
Valve Position Confirmation	Yes
Communication	RF: 433 MHz valve to WCP/CCM***
	Wired: RS-485 (TIA/EIA-485)
Cable Specification	Belden 2413F (Plenum), 2412F (Riser), 2149A (Outdoor), OSP6F (Underground) or equivalent
Max Water Pressure	600 PSI (@ 176°F)
Max Water Temperature	366°F (@ 96 PSI)
Mid-Range Temp /Pressure	250°F / 400 PSI
Max Ambient Temp	133°F
Torque	133 to 1680 in-lbs 15 to 190 NM (size dependent)
Overload Torque Protection	Yes
Auto/Manual Modes	Yes
Ball Valve	Lead-free, full-port, blowout proof
Open/Close Cycle Time	8-15s (depending on size)
Enclosure	Self extinguishing techno-polymer RF transmissive
Anti-Condensation Heater	Yes
Orientation	No restrictions, vertical/horizontal 360°
Input Auto Reset PCB Fuse	Yes
Certification	UL 1951, CSA C22.2 No. 14, 18
Sensitivity	0.005 gpm (for ¾" pipe)



**Only during valve movement & full water flow

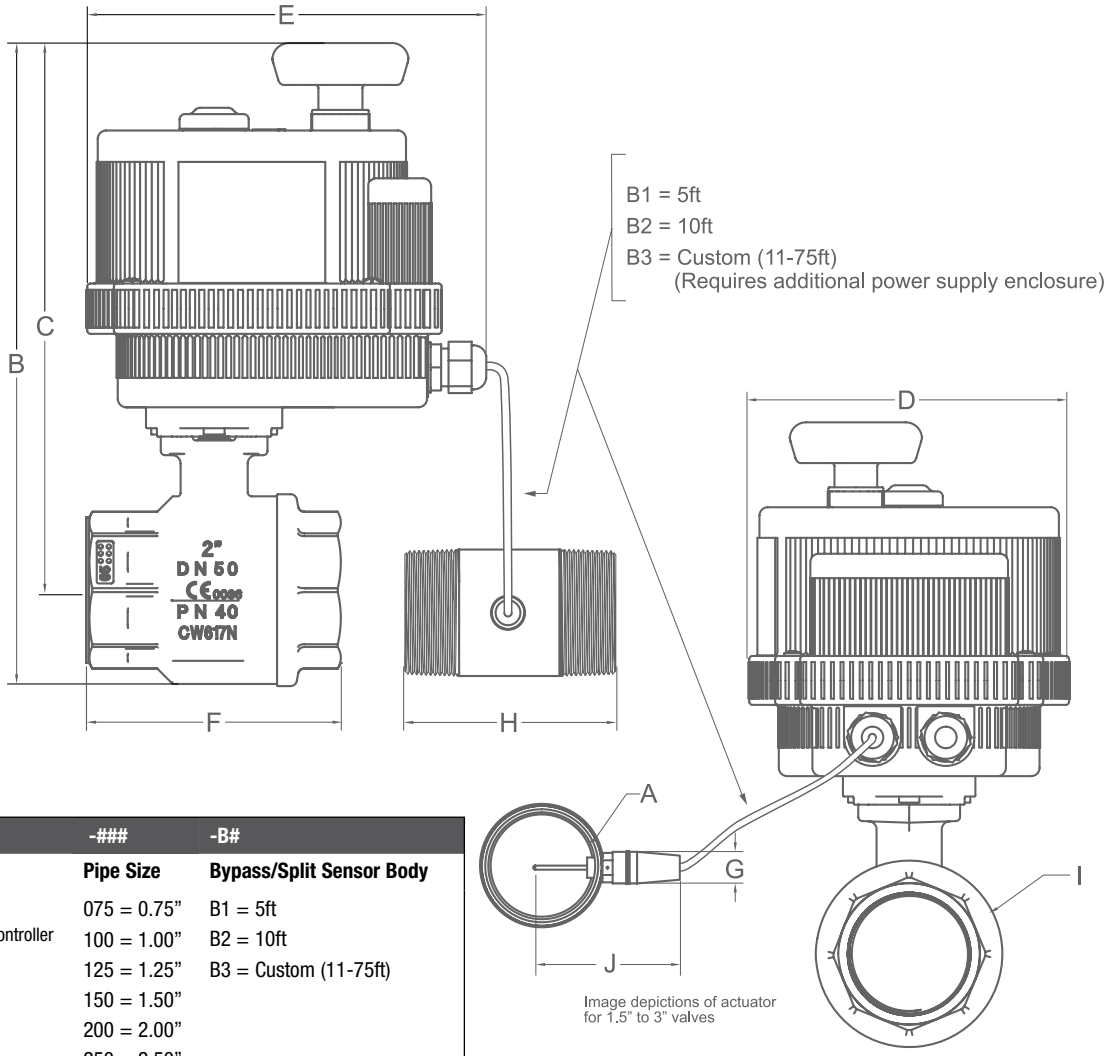
***Wireless Control Panel / Commercial Control Module

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LDS Split-System Dimensions



Model Number Designation

LDS	-3	-###	-B#
Product Line	**Release Version**	**Pipe Size**	**Bypass/Split Sensor Body**
LDS = Leak Defense System	3 = Standard Wireless 3H = Hard-Wired to Controller	075 = 0.75" 100 = 1.00" 125 = 1.25" 150 = 1.50" 200 = 2.00" 250 = 2.50" 300 = 3.00" 400 = 4.00"	B1 = 5ft B2 = 10ft B3 = Custom (11-75ft)

PN	DIN	A*	B	C	D	E	F	G	H	I	J	Weight
LDS-3-075	DN20	.750 (19.1)	7.72 (196)	6.93 (176)	4.84 (123)	6.41 (163)	3.00 (76.2)	.600 (15.2)	3.00 (76.2)	1.57 (39.9)	2.40 (61.0)	4.60 (2.09)
LDS-3-100	DN25	1.00 (25.4)	8.33 (212)	7.36 (187)	4.84 (123)	6.41 (163)	3.35 (85.1)	.600 (15.2)	3.35 (85.1)	1.93 (49.0)	2.40 (61.0)	5.35 (2.43)
LDS-3-125	DN32	1.25 (31.8)	8.63 (219)	7.50 (191)	4.84 (123)	6.41 (163)	3.66 (93.0)	.600 (15.2)	3.66 (93.0)	2.30 (58.4)	2.40 (61.0)	6.15 (2.79)
LDS-3-150	DN40	1.50 (38.1)	9.56 (243)	8.14 (207)	4.84 (123)	6.41 (163)	4.15 (105)	.600 (15.2)	4.15 (105)	2.87 (72.9)	2.90 (73.7)	7.60 (3.45)
LDS-3-200	DN50	2.00 (50.8)	12.0 (305)	10.2 (259)	6.18 (157)	7.50 (191)	4.80 (122)	.600 (15.2)	4.80 (122)	3.47 (91.4)	2.90 (73.7)	12.1 (5.49)
LDS-3-250	DN65	2.50 (63.5)	14.2 (361)	12.0 (305)	7.28 (185)	7.87 (200)	6.10 (155)	.600 (15.2)	6.10 (155)	4.51 (115)	2.90 (73.7)	18.7 (8.48)
LDS-3-300	DN80	3.00 (76.2)	15.0 (381)	12.4 (315)	7.28 (185)	7.87 (200)	6.89 (175)	.600 (15.2)	6.89 (175)	5.35 (136)	2.90 (73.7)	27.1 (12.3)
LDS-3-400	DN100	4.00 (101.6)	16.8 (427)	13.57 (345)	8.31 (211)	9.33 (237)	7.84 (199)	.600 (15.2)	7.87 (200)	6.46 (164)	2.90 (73.7)	40.4 (18.3)

*A is Nominal All Fittings are NPT Dimensions: in (mm) Weight: lb (kg)

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Engineering Specification

Leak Defense System (LDS) - Compact

CLDS-C(single/dual)-(size)

Compact Valve(s)



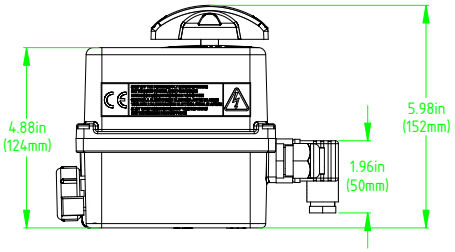
- Typical dual application anti-scald hot/cold paired shutdown
- Compact actuator form factor allows installation in tight spaces (i.e. within 3.6" or larger stud walls)
- Full-port lead-free brass ball valve with stainless steel probe pipe
- Requires LDS-3-WCP or CCM to interact with the valve
- Probe Board Enclosure (PBE, see next page) required to house valve board

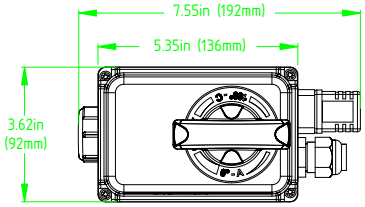
Feature List	
Connection	Input NPT male Output NPT female
Wall Power	NEMA 5-15R 120VAC
Transformer	NEMA 5-15P IN: 120VAC OUT: 24VAC (10ft or specify length)
Non-Continuous Max Power Draw	1 amp ea.*
Continuous Idle Power Draw	0.2 amps
Optional Pressure Sensor	Contact Sales
Valve Position Confirmation	Yes
Communication	Wireless: 433MHz valves to WCP/CCM**
	Wired: RS-485 (TIA/EIA-485)
Cable Specification	Belden 2413F (Plenum), 2412F (Riser), 2149A (Outdoor), OSP6F (Underground) or equivalent
Max Water Pressure	600 PSI (@ 176°F)
Max Water Temperature	366°F (@ 96 PSI)
Mid-Range Temp /Pressure	250°F / 400 PSI
Ambient Temperature Range	-10°C to +55°C (14°F to 131°F)
Torque	20 Nm (177 in-lbs)
Overload Torque Protection	Yes
Auto/Manual Modes	Yes
Ball Valve	Lead-free, full-port, blowout proof
Open/Close Cycle Time	6-20s (depending on size)
Enclosure	Polyamide 6 (PA6) Nylon IP66 Rating
Valve-to-Valve Distance	Max 20' between valves, 10' between valve and PBE
Sensitivity	0.005 gpm (for ¾" pipe)

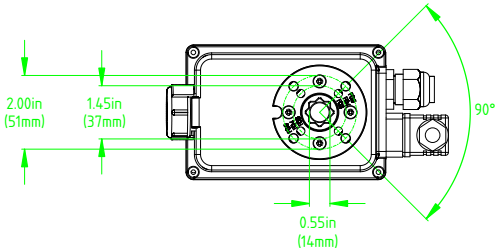
*Only during valve movement & full water flow

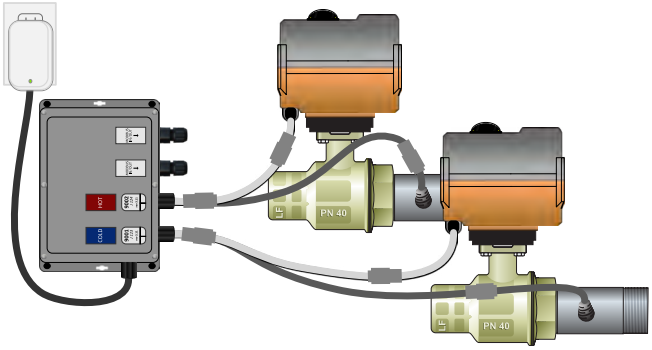
**Wireless Control Panel / Commercial Control Module

Single or Dual







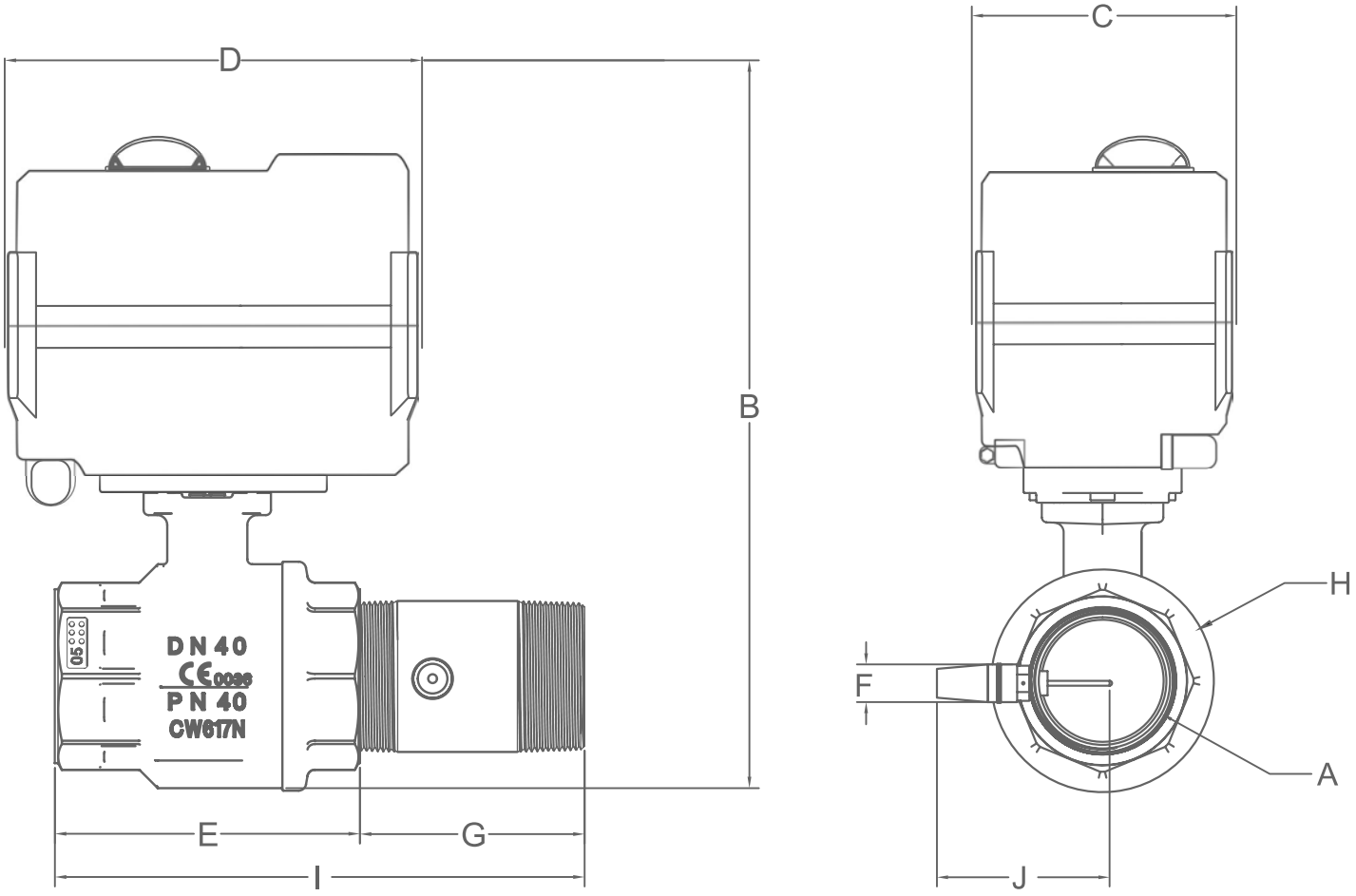


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LDS-Compact Dimensions



Model Number Designation

CLDS	-3	-C	-###
Product Line	**Release Version**	**Compact Valve**	**Pipe Size**
CLDS = Commercial Leak Defense System	3 = Standard Wireless 3H = Hard-Wired to Controller	CS = Single Valve CD = Dual Valve	075 = 0.75” 100 = 1.00” 125 = 1.25” 150 = 1.50”

PN	A*	B	C	D	E	F	G	H**	I	J	Weight
LDS-3-075	.750 (19.1)	8.21(209)	3.62 (92)	7.55 (192)	3.00 (76.2)	0.60 (15.2)	3.50 (88.9)	1.57 (39.9)	6.50 (165)	2.40 (61.0)	3.27 (1.48)
LDS-3-100	1.00 (25.4)	8.82 (224)	3.62 (92)	7.55 (192)	3.35 (85.1)	0.60 (15.2)	3.50 (88.9)	1.93 (49.0)	6.85 (174)	2.40 (61.0)	4.02 (1.82)
LDS-3-125	1.25 (31.8)	9.12 (232)	3.62 (92)	7.55 (192)	3.66 (93.0)	0.60 (15.2)	3.50 (88.9)	2.30 (58.4)	7.16 (182)	2.40 (61.0)	4.82 (2.18)
LDS-3-150	1.50 (38.1)	10.05 (256)	3.62 (92)	7.55 (192)	4.15 (105)	0.60 (15.2)	3.50 (88.9)	2.87 (72.9)	7.65 (194)	2.90 (73.7)	4.31 (1.95)

**A is Nominal **H is Average Length All Fittings are NPT in (mm) lb (kg)

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Engineering Specification

Probe Board Enclosure for LDS-C_

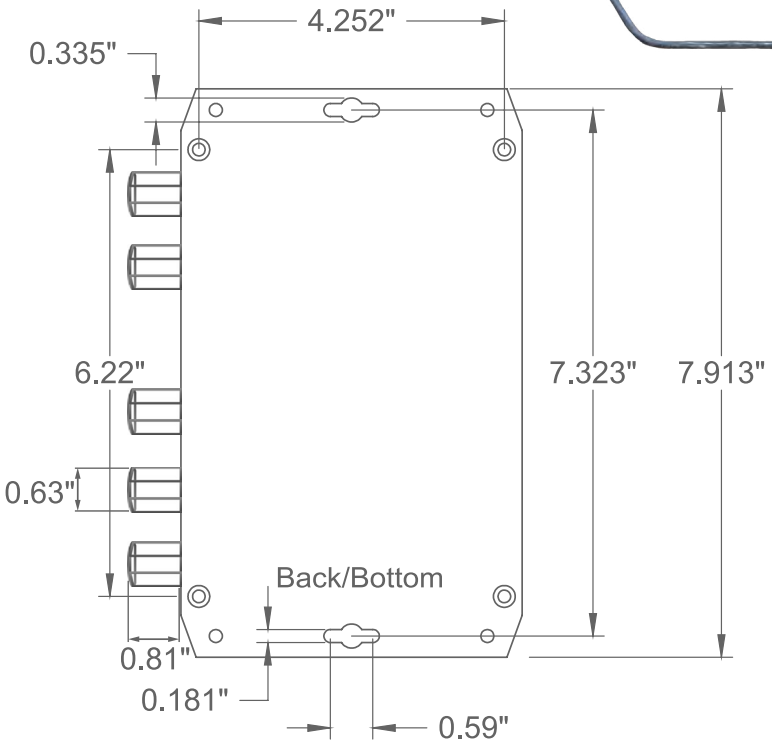
CLDS-C_(single/dual)-PBE Probe Board Enclosure

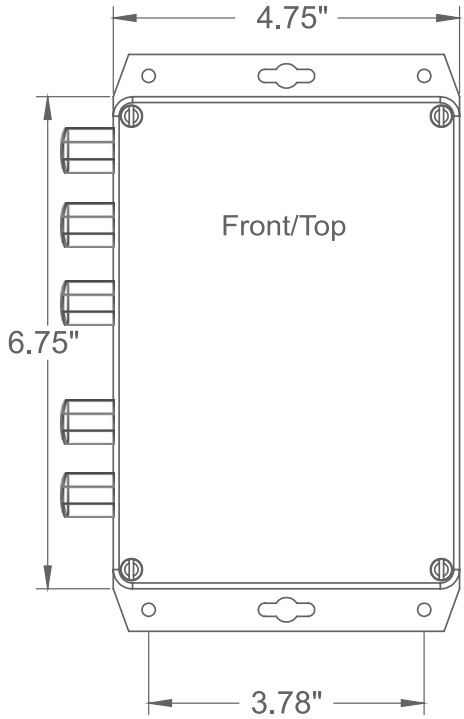
- Houses relocated probe boards that are normally installed inside standard sized actuators
- External Probe Board Enclosure required for Compact Valve(s) (CLDS-C_-###)





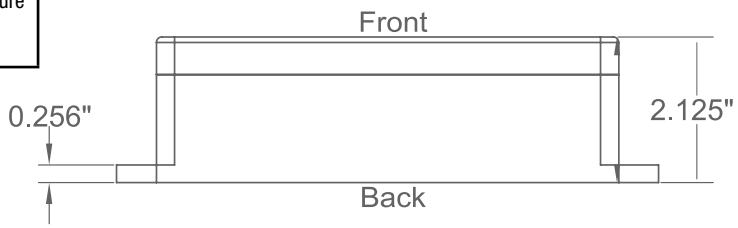
To Compact Valves (CLDS-C)





Model Number Designation

CLDS	-C	-PBE
Product Line	**Compact Valve**	**Product**
CLDS = Commercial Leak Defense System	CS = Single Valve CD = Dual Valve	PBE = Probe Board Enclosure



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Engineering Specification

Spring Check Valve (SCV)

Spring Check 100012LF-(Size)

Back Flow Prevention



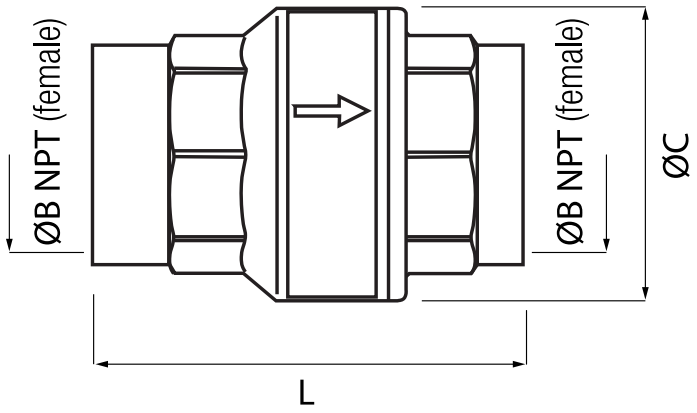
- The primary purpose of the Spring Check Valve is to eliminate reverse water flow/bounce detection which is common with irrigation tee-offs, flexible piping, and properties without pressure reducing valves.
- If spring check is installed we recommend an expansion tank should be installed.
- Install Spring Check Valve prior to Leak Defense System and after well/booster pump and bladder tanks.

Call tech support for alternative recommendations if this is not possible. (866) 410-1134

Feature List	
Pressure Rating	1/4" up to 2" 400 WOG 2 1/2" - 4" 175 WOG
Low Cracking Pressure	1/2 PSI
Temperature Range	-4° F to 210° F
Connection Type	ANSI B1.20.1
Thread Type	FNPT
Body Material	Lead-free brass
Spring Material	AISI 302
Seat Material	NBR
Support Material	POM
Disk Material	Polyphenylene sulfide (PPS)

Model Number Designation

Spring Check 100012LF	Size
Product Name	**Spring Check Valve Size**
Spring Check 100012LF = Spring Check Valve 100012 LF	3/4 = 3/4" 1 = 1" 1.25 = 1 1/4" 1.5 = 1 1/2" 2 = 2" 2.5 = 2 1/2" 3 = 3" 4 = 4"



SIZE ØB	L	ØC	Weight Lbs
3/4"	2.48	1.65	0.49
1"	2.85	1.93	0.72
1 1/4"	3.13	2.4	1.19
1 1/2"	3.31	2.87	1.59
2"	3.62	3.44	2.3
2 1/2"	4.37	4.39	4.8
3"	4.86	5.24	6.83
4"	5.45	6.42	11.68

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Engineering Specification

Wireless Control Panel

LDS-3-WCP

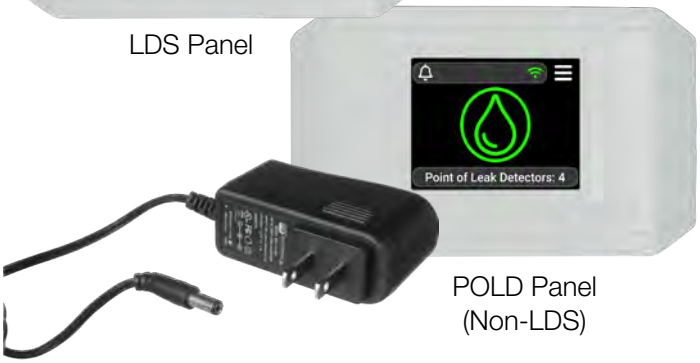
Single LDS Valve/POLD Control

- Local monitoring & control for a single Leak Defense Valve or POLD Only System
- Central hub for all Wireless connections to LDS, POLD(s)*, and API(s)**
- Connect to WiFi for remote monitoring and control via the app
- 2 panels can be wired together by Sentinel to allow for simultaneous shutoff of two valves (hot/cold)

**Point of Leak Detector **All-Purpose Interface*



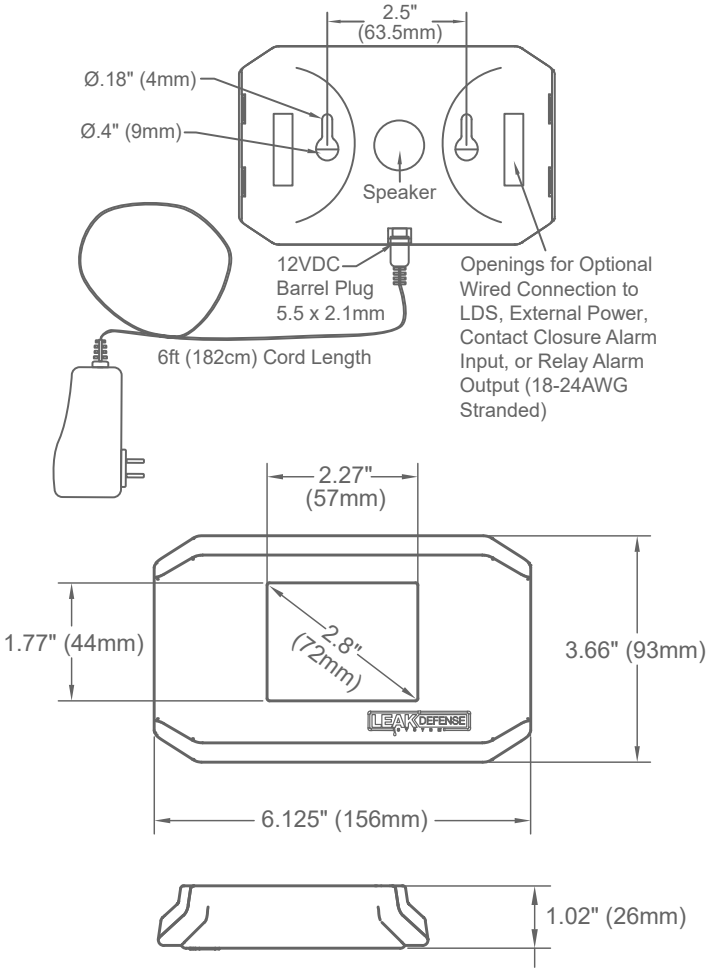
LDS Panel



POLD Panel
(Non-LDS)

Feature List

Wall Power	NEMA 5-15R 120VAC
Transformer	NEMA 1-15P IN: 120VAC OUT: 12VDC (6ft cable length)
Non-Continuous Max Power Draw	0.5 amp
Continuous Idle Power Draw	0.2 amp
Power Terminal	Barrel plug or terminal hard-wired
Input Auto Reset PCB Fuse	Longer life, no maintenance
Inputs	Common alarm customer input to shut valve off
Dry Contact Alarm Output Relays	1 - N/O (50 mA)
User Interface	Color LCD touch screen
Audible Alarm	Yes
Communication	RF: 433 MHz to valves and accessories
WiFi Connection	2.4 GHz b.g.n. (No 5GHz Support)
Internet Capable	Yes - w/ Web & Mobile app (iOS & Android)
Mounting	Wall/panel mounting
Number of Valves Monitored	1
Number of POLDs	150, within RF range of WCP
Number of Unique POLD Zones	15



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Engineering Specification

Commercial Control Module (CCMv2)

CLDS-CCM

Multiple Valve/POLD Control

- Large residential homes, commercial buildings, multi-family housing
- Reduce quantity of control panels needed
- Manage up to 15 single or 15 pairs of valves with one CCM
- Flexible display options, even use existing devices



Commercial Control Module – Compact (CCM-C)

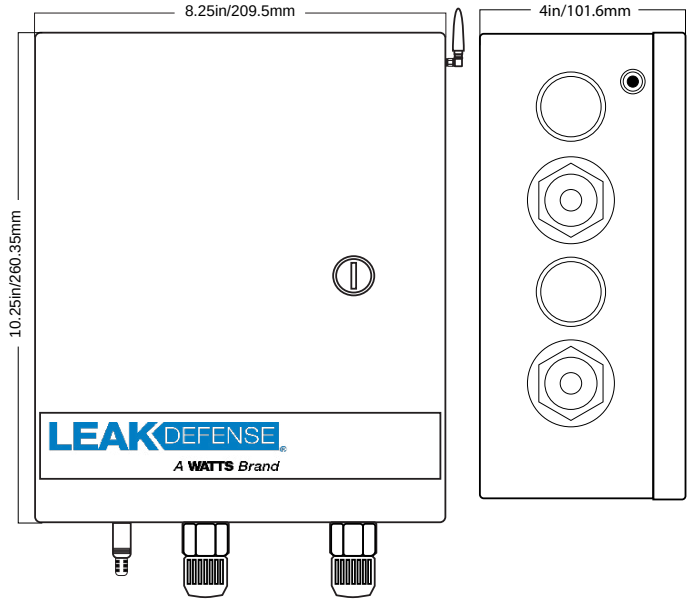


Preconfigured Control Tablet (Optional)



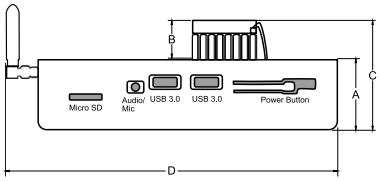
Commercial Control Module – Industrial (CCM-I)

Feature List	
Wired Networking	Gigabit ethernet LAN interface - RJ45
WiFi Connection	Supports 2.4 GHz & 5 GHz
Wall Power	NEMA 5-15R 120VAC
Power Supply	NEMA 5-15P IN: 120VAC OUT 12VDC 3A
LED	Bi-color power status
Cooling Fan	Yes
Communication	Wireless: 433 MHz ~100'-200' to valves and accessories Wired: RS-485 (TIA/EIA-485) Up to 3,000'
Cable Specification	Belden 2413F (Plenum), 2412F (Riser), 2149A (Outdoor), OSP6F (Underground) or equivalent, RS-485
Number of Valves	Max Wired: 15 single or 15 paired* Max Wireless: 4 single or 8 paired
Number of External Moisture Sensors	Max 30 FSC** Zones or POLDs*** per Valve or Valve Pair
Local Display	Customer provided phone, tablet, or computer (Sentinel can provide tablet)
Connection Types	Direct interface connection over CCM Access Point Local WiFi/Ethernet network Web app, and/or mobile app
Operating Temp	0° C to 60°C

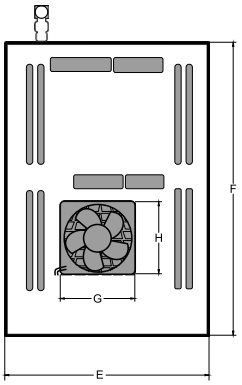


CLDS-CCM-I

*Wired and Wireless can be combined up to a total of 15 single or 15 paired
**Fluid Sensing Cable
***Point of Leak Detector



CLDS-CCM



A	B	C	D	E	F	G	H
1.2 (30.5)	0.9 (22.9)	2.1 (53.3)	5.9 (149.9)	3.5 (88.9)	5.1 (129.5)	1.25 (31.75)	1 (25.4)

in (mm)

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