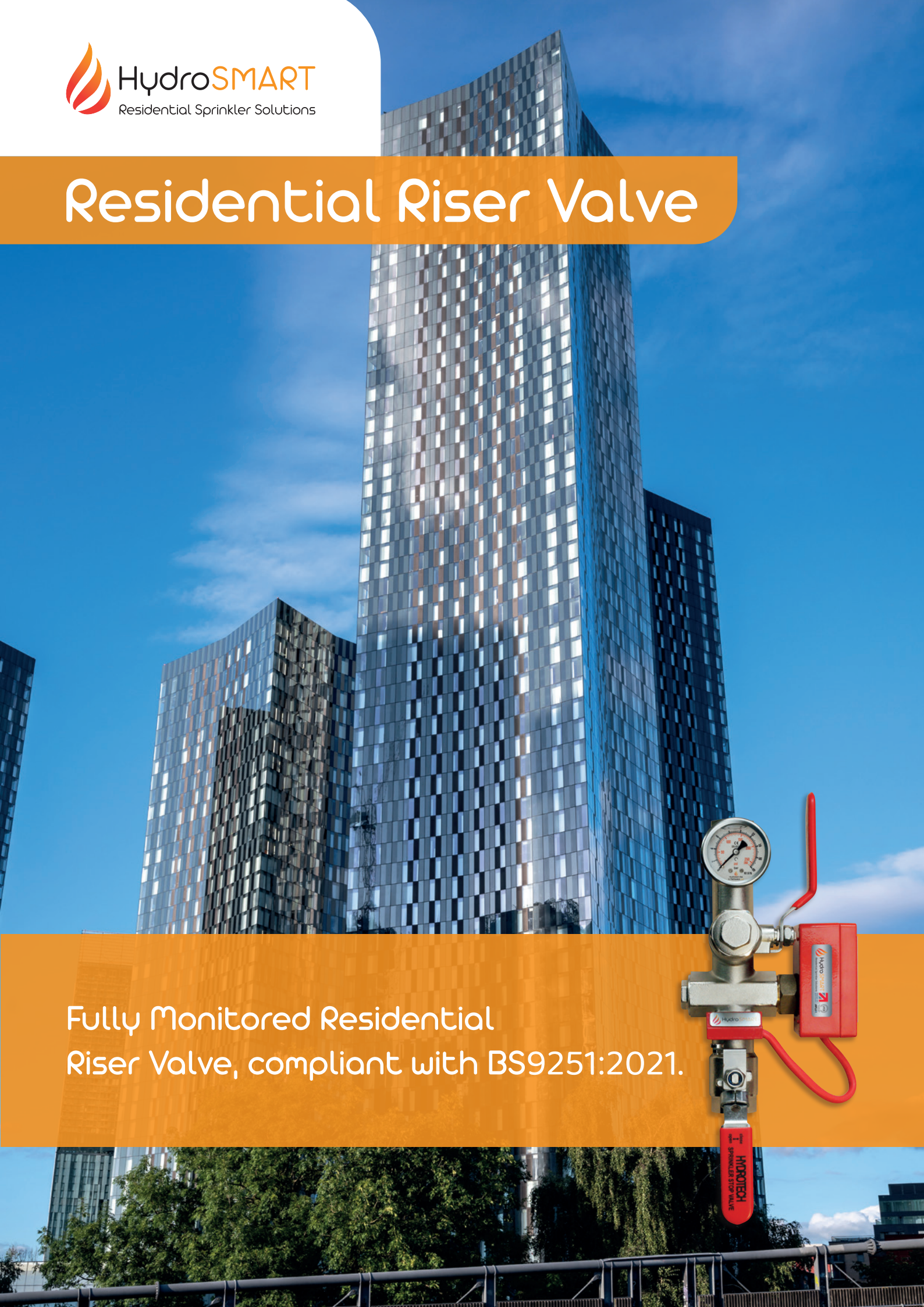
HydroSMART
Residential Sprinkler Solutions

Residential Riser Valve



Fully Monitored Residential Riser Valve, compliant with BS9251:2021.



Specifically designed for the Residential and Domestic sprinkler market

Hydrotech Fire & Mechanical's new monitored Residential Riser Valve has been specifically designed for the Residential and Domestic sprinkler market, compliant with BS9251:2021.

Utilising many years of industry experience and expertise, with the installer at the forefront of the design process. Our new Residential Riser Valve is fully monitored and therefore suitable for use on category 2, 3 and 4 installations. The valve includes key advantages, which reduce installation time and cost on site.

Our unique **HydroSMART** reed switch design monitors the open position of the valve and will send a tamper signal to the **HydroSMART** Inim sprinkler monitoring panel or any other fire panel.

Hydrotech Residential Riser Valves are subject to rigorous QC testing processes, ensuring industry leading quality products for installation and commissioning.

Hydrotech Residential Riser Valves are only supplied with Flow Switches which are LPCB approved in line with EN 12259-5, ensuring full compliance with BS9251:2021.

Product Features

- BS9251:2021 compliant
- Compact design
- Reduced joints to minimise risk of leaks
- Continuity of design throughout all sizes 1", 1.25", 1.5" & 2"
- Full bore test port for each valve size
- Unique HydroSMART reed switch design, removing the requirement for a separate monitoring box
- HydroSMART reed switch has IP68 rating
- Glycerine filled 18 bar pressure gauge with NLC
- Dual ports enable the flow switch to be mounted on either side
- Lockable inlet ball valve handle
- No-loss connector (NLC) for pressure gauge removal without draining the system
- Influx SPFS, Influx SPFSi or Potter flow switch options available, all LPCB approved in line with EN 12259-5
- HydroSMART reed switch supplied with fire rated cable
- Fully compatible with approved CPVC fire sprinkler systems

Valve Body	DN25	DN32	DN40	DN50
Inlet Connection	G1"	G1.25"	G1.5"	G2"
Outlet Connection	G1"	G1.25"	G1.5"	G2"
Test Point Connection	G1"	G1.25"	G1.5"	G2"
Medium	Water			
Medium Temperature	4-100°C			
Ambient Temperature	4-60°C			
Max Pressure Rating	12bar			
Inlet Valve Internal Bore	DN25	DN32	DN40	DN50
Test Point Valve Internal Bore	DN25	DN32	DN40	DN50



18bar glycerin filled pressure gauge

No-loss connector (NLC) for pressure gauge removal

Full bore test port valve for each size of valve supplied

Dual ports for flow switch installation options

HydroSMART IP68 reed switch, for inlet ball valve monitoring

Durable magnet component for reed switch activation

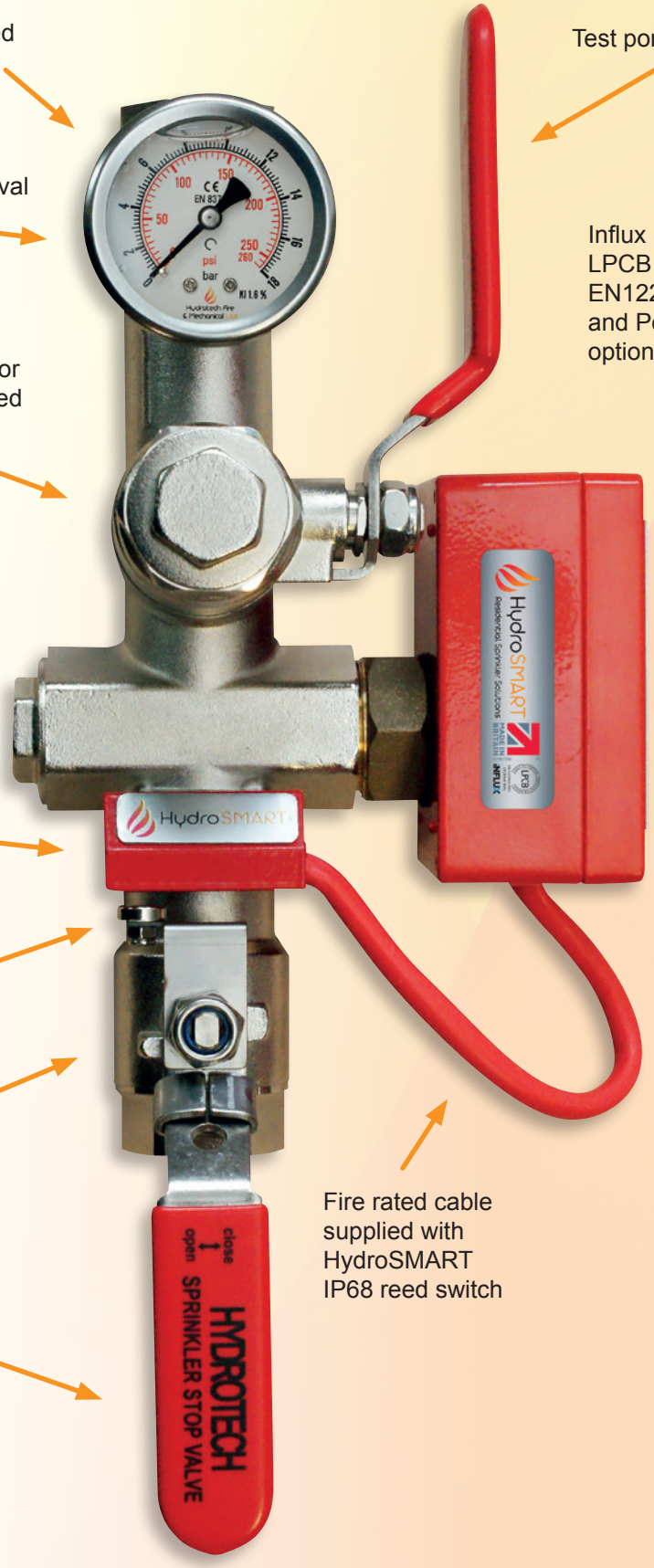
Full bore inlet ball valve for each size of valve supplied

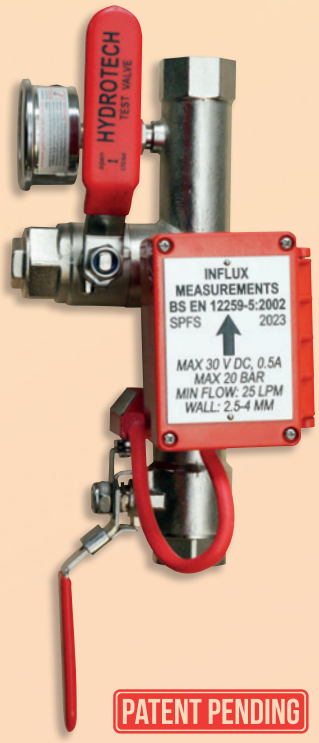
Lockable inlet ball valve handle

Test port handle

Influx SPFS flow switch, LPCB approved in line with EN12259-5 (Influx SPFSi and Potter flow switch options also available)

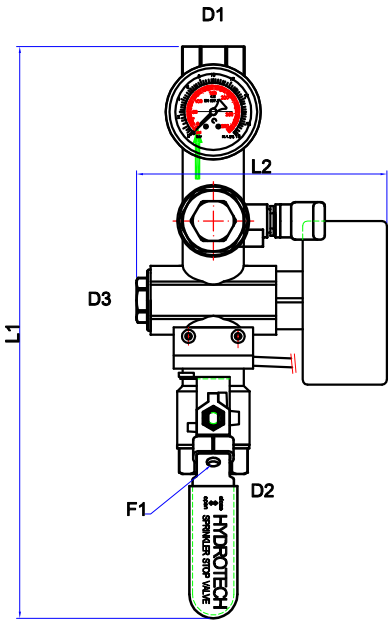
Fire rated cable supplied with HydroSMART IP68 reed switch

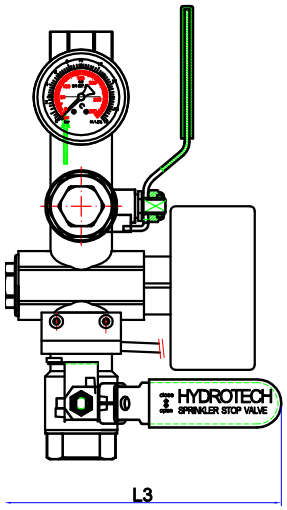


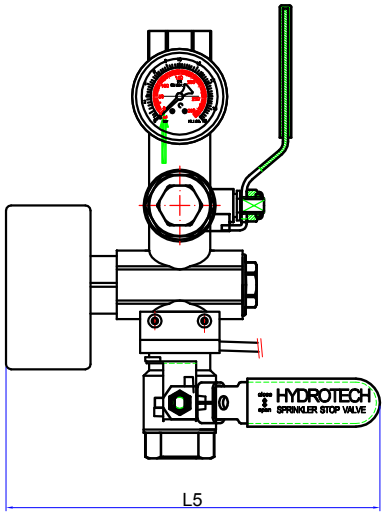


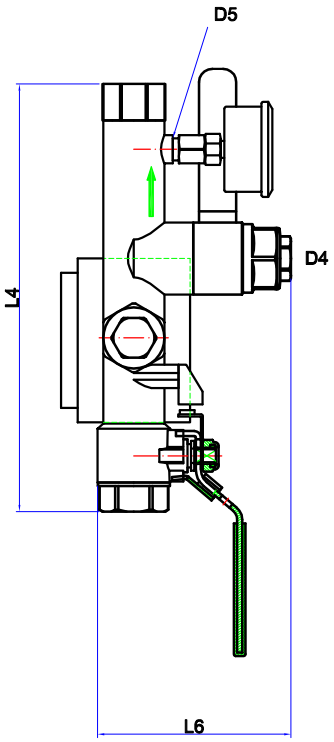
PATENT PENDING

HydroSMART
Residential Sprinkler Solutions









Type	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5	F1
DN25	345	152.5	167.5	258.5	227.5	117	G1”	G1”	G1”	G1”	G¼”	Ø8
DN32	360	167	174.5	280	234	140	G1.25”	G1.25”	G1.25”	G1”	G¼”	Ø8
DN40	370	192	186.5	298.5	245.5	167.5	G1.5”	G1.5”	G1.5”	G1”	G¼”	Ø8
DN50	420	197	225.5	316.5	283.5	191	G2”	G2”	G2”	G1”	G¼”	Ø8

Pressure Gauge	
Pressure Range	0-18 bar
Accuracy	1.6%FS
Standard	EN837.1
Pressure Scale	Min. Scale 0.2bar
Pressure Gauge Connection	G1/4”
Medium Temperature	4-100°C

No Loss Connector	
Max Working Pressure	18 bar
Medium Temperature	4-100°C
Process Connections	G1/4”

Pressure Loss Data	Pressure Loss			
	DN25	DN32	DN40	DN50
Flow rate 12 cubic meters per hour	0.58bar	0.4bar	0.13bar	0.03bar
Flow rate 10 cubic meters per hour	0.4bar	0.3bar	0.09bar	0.02bar
Flow rate 9 cubic meters per hour	0.35bar	0.22bar	0.07bar	0.01bar
Flow rate 6 cubic meters per hour	0.14bar	0.1bar	0.05bar	0bar

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