



Rising mains



**A rising main is a system of pipe work and valves that enables water to be delivered for fire fighting purposes to all floors in buildings over 18 metres high. It consists of a vertical pipe with landing valves fitted in cabinets on each floor that act as outlets, enabling the fire service to connect into the water supply.**

A dry riser system can be charged with water by pumping from a fire service appliance via an inlet breeching fitted in a cabinet on the outside of the building at ground level. An air release valve is fitted at the highest point to enable the riser to be fully charged.

## Rising mains



A wet riser system is a pipe kept permanently charged with water that is immediately available for use on any floor on which a landing valve is provided. Wet risers are necessary for buildings over 60 metres high where fire service pumps cannot supply the necessary water pressure via a dry riser. When pumps and tanks are installed to provide sufficient water pressures then there may be a requirement for pressure regulating valves.



## Twin inlet breeching

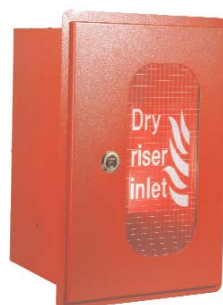
Kidde inlet breechings are manufactured to BS 5041-3. Inlets 65 mm (2½") male instantaneous to BS 336 with integral non-return valves, 25 mm (1") drain valve, and rubber blank caps and chains.

- Suitable for use with a 100 mm (4") rising main
- SG Iron body with Gunmetal fittings
- Flanged outlets either 100 mm BS 4504 NP 16 or 4" BS 10 Table D
- Vertical or horizontal mounting



## Twin inlet cabinets

- Recessed into the external wall of the building
- High quality steel for strength and durability
- Wired glass door panel and cylinder lock
- Attractive red polyester coated finish
- Cabinets for single inlet breechings and foam inlets available on request



## Quadruple inlet breeching

- Suitable for use with a 150 mm (6") rising main
- Spheroidal graphite body
- Flanged outlets either 150 mm BS 4504 NP 16 or 6" BS 10 Table D



## Dry rising mains



## Quadruple inlet cabinet

- Recessed into the external wall of the building
- High quality steel for strength and durability
- Wired glass door panel and cylinder lock
- Attractive red polyester coated finish





## Landing valve

- Gate pattern outlet valve manufactured to BS 5041-2 in Gunmetal
- Body and internals designed for low working pressure
- Compact with excellent flow characteristics
- Flanged inlets either 65 mm BS 4504 NP 16 or 2½" BS10 Table D
- Outlet 2½" female instantaneous to BS 336
- Straps and padlocks, blank plugs and chains are provided

## Air release valve

- Provides automatic release of air from a dry riser when it is being charged with water, and admission of air when it is being drained
- Inlet connection 1" male BSP to BS 2779



## Drain valve

- Fitted at the lowest point of a dry riser in cases where parts of the system are installed below the inlet breeching
- 25 mm (1") drain valve to BS 5154

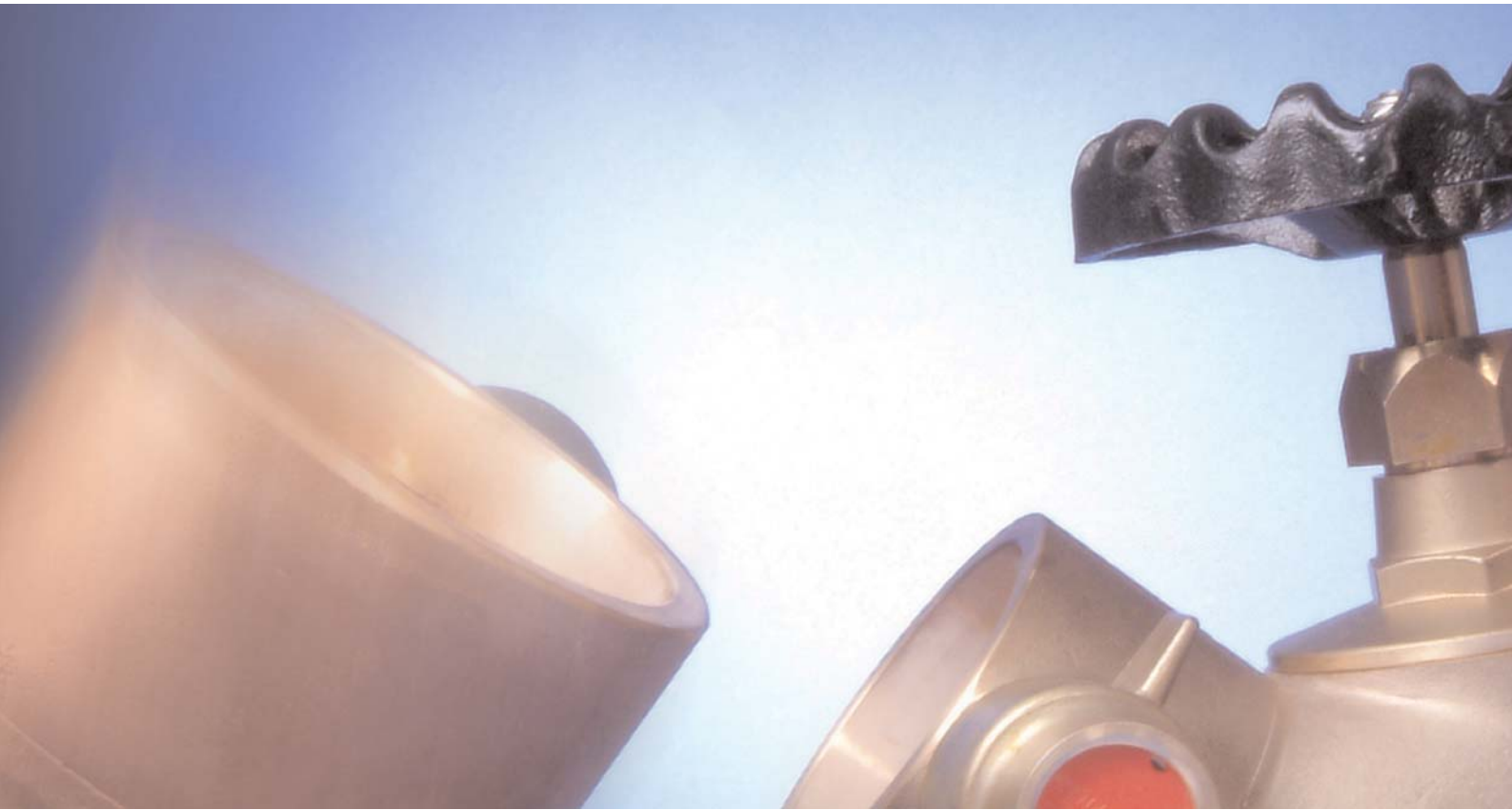


## Dry rising mains



## Outlet cabinet

- High quality steel for strength and durability
- Painted steel box with a door with a breakable wired glass panel and cylinder lock



## Landings valves

- Globe pattern valves available in horizontal, oblique, bib-nose or right-angle configurations
- Manufactured to BS 5041-1 and BS 5154 with Gunmetal bodies and major working parts in manganese bronze
- Body and internals designed for low working pressure
- Compact with excellent flow characteristics
- Flanged inlets either 65 mm BS 4504 NP 16 or 2½" BS10 Table D
- Outlets 2½" female instantaneous to BS 336

- 1 *Horizontal valve*
- 2 *Oblique valve*
- 3 *Bib-nosed valve*
- 4 *Right-angle valve*





# Wet rising mains



## Pressure regulating valves

- Ensure uniform downstream pressure regardless of fluctuation in supply pressure
- Rapid response to varying downstream conditions
- Manufactured to BS 5041-1 in Gunmetal
- Horizontal, oblique, bib-nose or right-angle configurations available
- Inlet pressure up to 20 bar

- 5 *Horizontal PRV*
- 6 *Oblique PRV*
- 7 *Bib-nosed PRV*
- 8 *Right-angle PRV*



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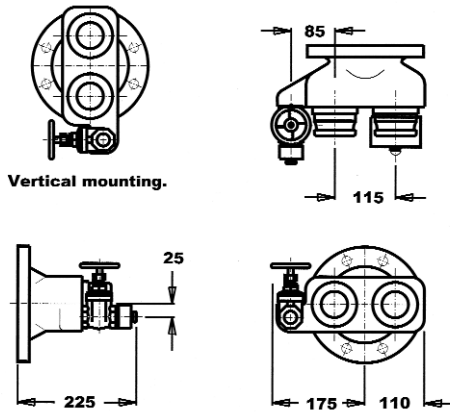


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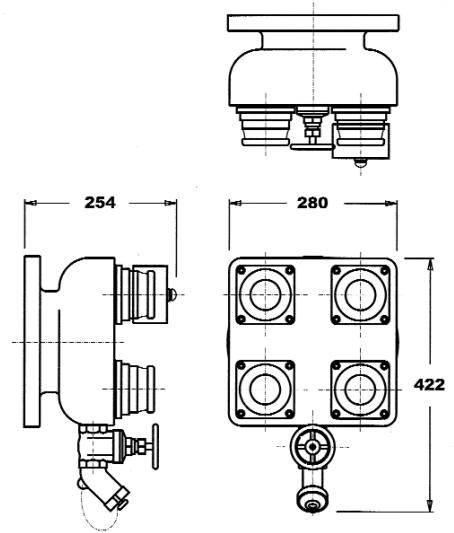


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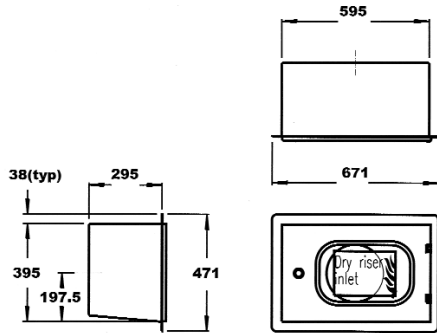
### Twin inlet breaching



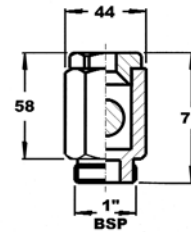
### Quadruple inlet breaching



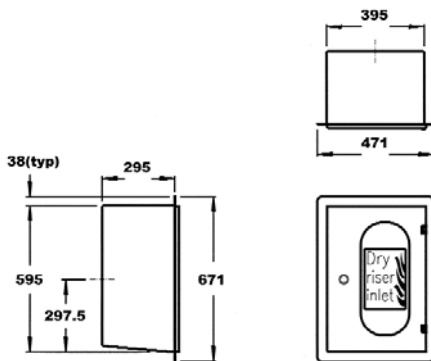
### Horizontal twin inlet cabinet



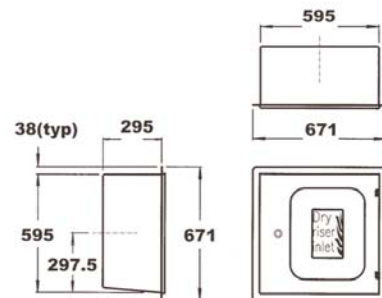
### Air release valve



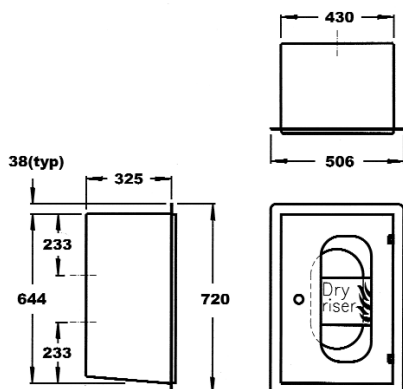
### Vertical twin inlet cabinet



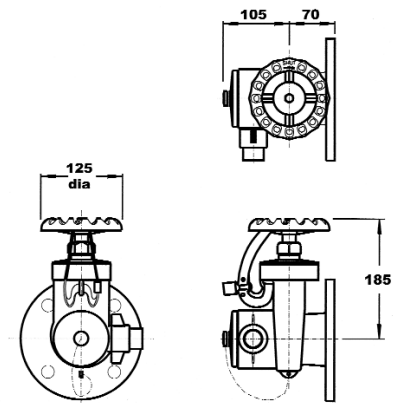
### Quadruple inlet cabinet



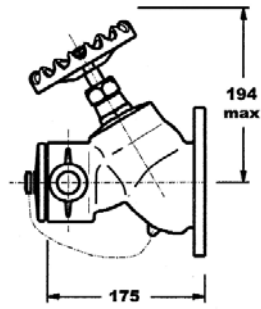
### Outlet cabinet



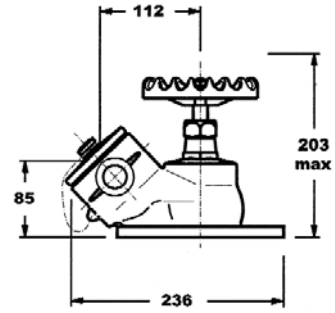
### Landing valve



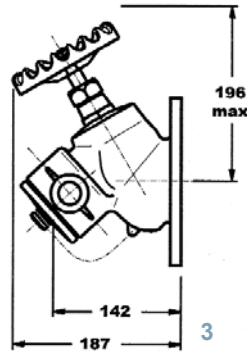
## Landing valves



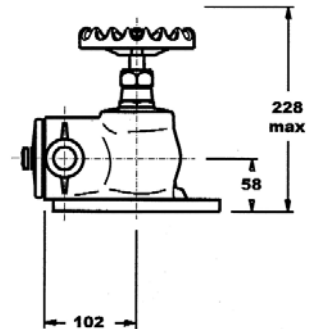
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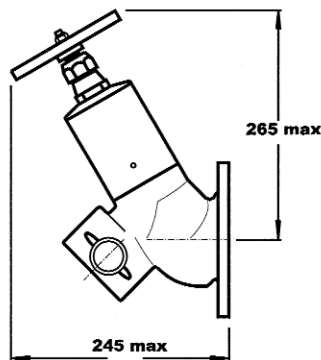
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- 1 Horizontal valve
- 2 Oblique valve
- 3 Bib-nosed valve
- 4 Right-angle valve

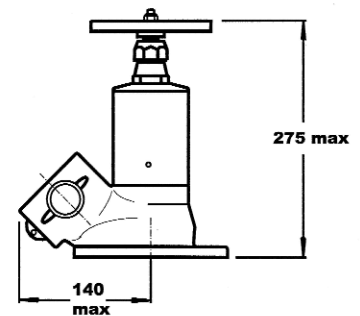
## Technical data



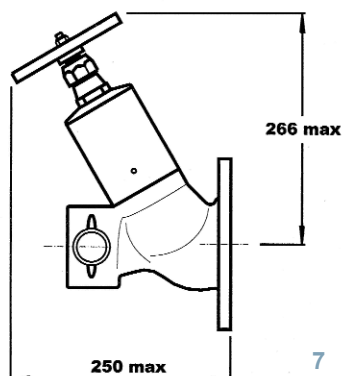
## Pressure release valves



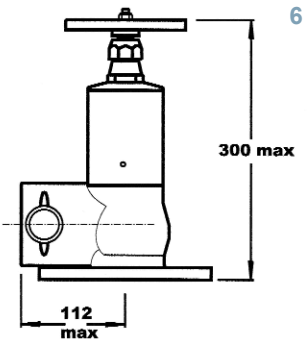
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- 5 Horizontal PRV
- 6 Oblique PRV
- 7 Bib-nosed PRV
- 8 Right-angle PRV



Kidde operates a continuous programme of product development. The right is therefore reserved to modify any specifications without prior notice and Kidde should be contacted to ensure that the current issue of all technical data sheets are used.

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