

HOSES SAFE™ PRESSURE REGULATING VALVE

Datasheet

The Knowsley SK Ltd "HoseSafe" pressure regulating hydrant valve is for use on oil, gas and petro-chemical sites, oil rig platforms or wet rising mains in buildings.



PRODUCT DETAILS

The HoseSafe™ Pressure Regulating Valve is designed to maintain a safe constant outlet pressure irrespective of varying inlet pressure and is suitable for use on sites even where high or low ambient temperatures are experienced. The valve

utilises the cast / forged body design of the established Knowsley SK range of wet riser landing valves with the addition of a spring cartridge or element to provide the pressure regulating facility.

We know fire. We know safety. We know you.

Established in 1896, Knowsley SK Ltd. has an enviable reputation for manufacturing quality fire fighting equipment and systems for high value asset protection that can be relied upon when danger strikes.

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FEATURES

- The HoseSafe™ valve can be used on fire mains with a working pressure as high as 20 barg.
- Normal factory set outlet pressure: 4.5 barg (adjustable on site between 3 and 8 barg).
- Manufactured from high quality materials enabling use with fresh, brackish or seawater
- CE marked under European Machinery directive 2006/42/EC

SPECIFICATION

Maximum rated inlet pressure

20 barg. (290 psig)

Outlet pressure

Factory set to client requirements:

3 to 8 barg, (44 to 116 psig).

Adjustable at site.

Temperature Range

Exceeds the requirements of BS 5041:1987

Part 1 (0°C to 38°C)

INTENDED USE

The Knowsley SK HoseSafe™ Pressure Regulating Valve is a single stage pressure regulating valve.

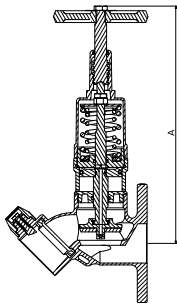
HoseSafe™ is intended to reduce the pressure of firefighting water from a firemain to a lower pressure suitable to supply hand-held nozzles via flexible hoses. HoseSafe™ is for use on oil, gas and petro-chemical sites, oil rig platforms or wet rising mains in buildings.

HoseSafe™ can be used on fire mains with a working pressure as high as 20 barg.

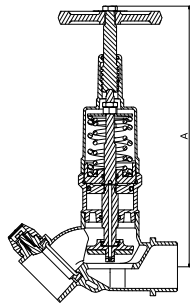
HoseSafe™ can be used with fresh, brackish or seawater.

VALVE CONFIGURATIONS

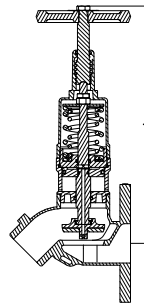
BIBNOSE



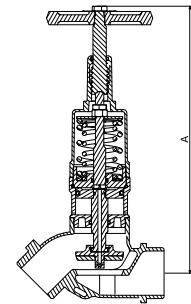
MODEL 3120



MODEL 3121

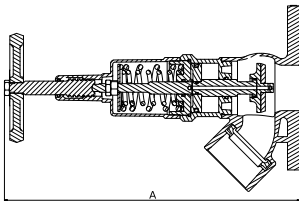


MODEL 3123

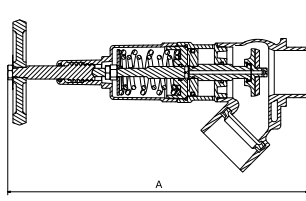


MODEL 3124

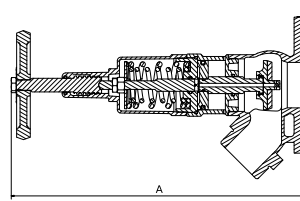
OBLIQUE



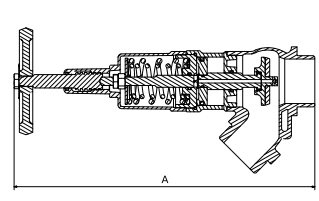
MODEL 3130



MODEL 3131



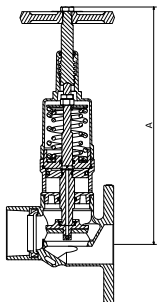
MODEL 3133



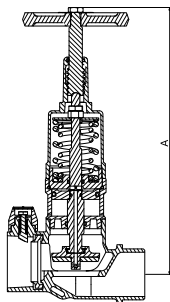
MODEL 3134

*Oblique valves are FM approved.

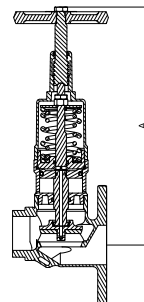
HORIZONTAL*



MODEL 3140*



MODEL 3141*



MODEL 3143*



MODEL 3144*

*Horizontal valves are not FM approved.

3100 SERIES HOSESAFE™ PRESSURE REGULATING VALVE

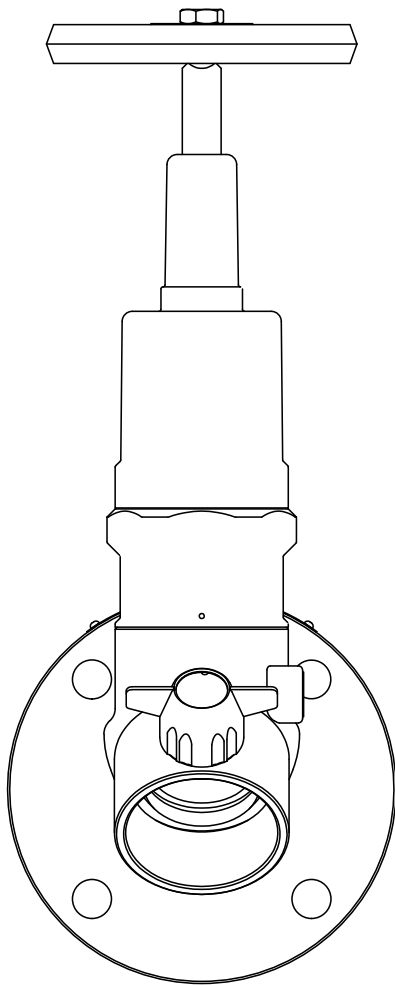
VALVE DATA

Model	Orientation	Available Inlet size / types	Outlet size / types	Open (mm) A	Closed (mm) A	Weight (Kgs)	Maximum Rated Working Pressure
3120	Bibnose	3" or 4", 150lb or 300lb ANSI flange FF	2½" instantaneous female to BS336	383	359	13.5 (3" flange) 15 (4" flange)	290 PSI (20 Barg)
3121	Bibnose	2½" male threaded NPT or BS or NST	2½" instantaneous female to BS336	383	359	10	290 PSI (20 Barg)
3123	Bibnose	3" or 4", 150lb or 300lb ANSI flange FF	2½" male threaded NPT or BSP or NST	383	359	13 (3" flange) 14.5 (4" flange)	290 PSI (20 Barg)
3124	Bibnose	2½" male threaded NPT or BS or NST	2½" male threaded NPT or BSP or NST	383	359	10	290 PSI (20 Barg)
3130	Oblique	3" or 4", 150lb or 300lb ANSI flange FF	2½" instantaneous female to BS336	413	389	12 (3" flange) 16 (4" flange)	290 PSI (20 Barg)
3131	Oblique	2½" male threaded NPT or BS or NST	2½" instantaneous female to BS336	435	411	10	290 PSI (20 Barg)
3133	Oblique	3" or 4", 150lb or 300lb ANSI flange FF	2½" male threaded NPT or BSP or NST	413	389	13.5 (3" flange) 15 (4" flange)	290 PSI (20 Barg)
3134	Oblique	2½" male threaded NPT or BS or NST	2½" male threaded NPT or BSP or NST	429	405	10	290 PSI (20 Barg)
3140*	Horizontal	3" or 4", 150lb or 300lb ANSI flange FF	2½" instantaneous female to BS336	383	359	11.5 (3" flange) 13 (4" flange)	290 PSI (20 Barg)
3141*	Horizontal	2½" male threaded NPT or BS or NST	2½" instantaneous female to BS336	383	359	10	290 PSI (20 Barg)
3143*	Horizontal	3" or 4", 150lb or 300lb ANSI flange FF	2½" male threaded NPT or BSP or NST	383	359	11 (3" flange) 12.5 (4" flange)	290 PSI (20 Barg)
3144*	Horizontal	2½" male threaded NPT or BS or NST	2½" male threaded NPT or BSP or NST	383	359	9.5	290 PSI (20 Barg)

- Oblique valves are FM approved.
- Bibnose valves are not FM approved.
- Horizontal valves are not FM approved.

IDENTIFICATION

Each valve hand wheel is fitted with an aluminium identification disc stating; year of manufacture, model number, nominal size & max pressure.



PRODUCT MATERIALS

All Hydrant Valves are manufactured from the following high grade materials:

- Body:** Gunmetal BS EN 1982 CC491K-GS
- Housing:** Brass BS2872 CZ121
- Compensation Chamber:** Gunmetal BS EN 1982 CC491K-GS
- Spindle:** Brass Rod BS 2874 CZ121 / CZ114
- Clack Assy:** Gunmetal BS EN 1982 CC491K-GS / RUBBER
- Instantaneous Washer:** Rubber 45-50SH
- 'O' rings:** EPDM
- Circlips:** 316 S/S

SPARES INFORMATION

Please contact our dedicated spares department at spares@knowsleysk.co.uk for the components listed below.

The following spare parts are common to all models:

- O Rings
- Clack With Rubber
- Circlips

The following spare parts are only for models with 2 1/2" instantaneous female outlets:

- Winged Cam Assembly
- Instantaneous Washer

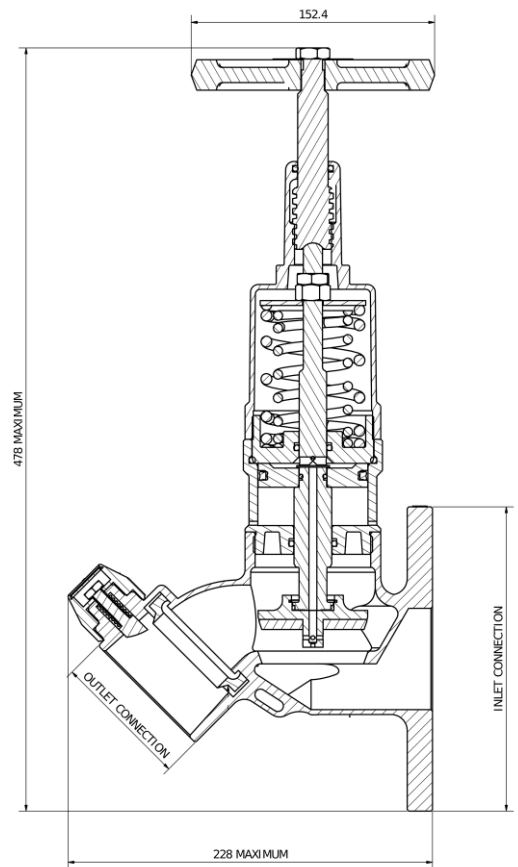


Figure 1 Bibnose valve 3120 Series with 3-inch FF 150# inlet and 2.5-inch female instantaneous BS336 outlet

