

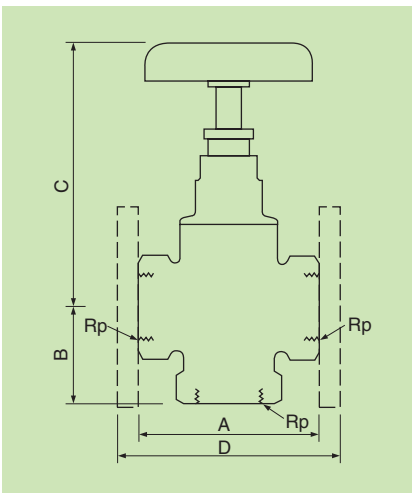
NABIC®

THREE WAY VENT VALVE

APPLICATIONS

The Fig 503 Three Way Valve has been designed for use on vented hot water systems, to ensure there is a permanent connection from the boiler or calorifier to atmosphere. Fitting a Fig 503 allows the use of a single common vent pipe, and permits continued operation of the system whilst maintenance is carried out on an individual unit.

DIMENSIONS



| SIZE DN | Rp BSP | A mm | B mm | C mm | D mm |
|---------|--------|------|------|------|------|
| 20 | 3/4 | 70 | 38 | 92 | - |
| 25 | 1 | 84 | 48 | 145 | - |
| 32 | 1 1/4 | 98 | 65 | 150 | - |
| 40 | 1 1/2 | 114 | 72 | 170 | - |
| 50 | 2 | 140 | 78 | 190 | - |
| 65 | 2 1/2 | 170 | 114 | 220 | 180 |

Fig 503



| | |
|---------------------|------------|
| BODY MATERIAL | : GUNMETAL |
| MAXIMUM PRESSURE | : 7 bar |
| MAXIMUM TEMPERATURE | : 93°C |

CONSTRUCTION

The Fig 503 is of gunmetal construction, with all wetted parts manufactured from dezincification resistant materials. Cassette construction allows for the valve to be inspected and serviced without removal from the system. The internal design keeps loss of water on changeover to a minimum, and is such that boiler isolation is impossible. End connections have female threads to BS 21, and the DN65 size is also available with flanged boiler and vent connections. For other design conditions please consult NABIC technical department.

FEATURES

- BOILER CONNECTION PERMANENTLY OPEN
- MINIMUM WATER LOSS ON CHANGEOVER
- INLINE SERVICING
- DEZINCIFICATION RESISTANT MATERIALS
- CASSETTE CONSTRUCTION

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SIZING

To provide adequate emergency steam relief capability, vented hot water systems require the fitting of a suitably sized vent pipe in addition to a safety relief valve (Fig 542). The following sizes are specified in BS 779, BS 853 & BS 855

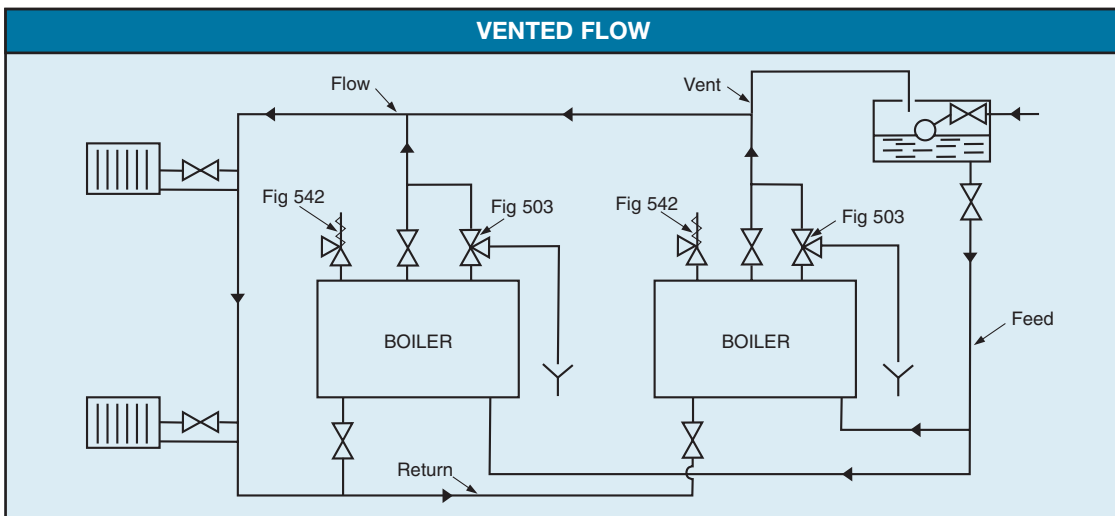
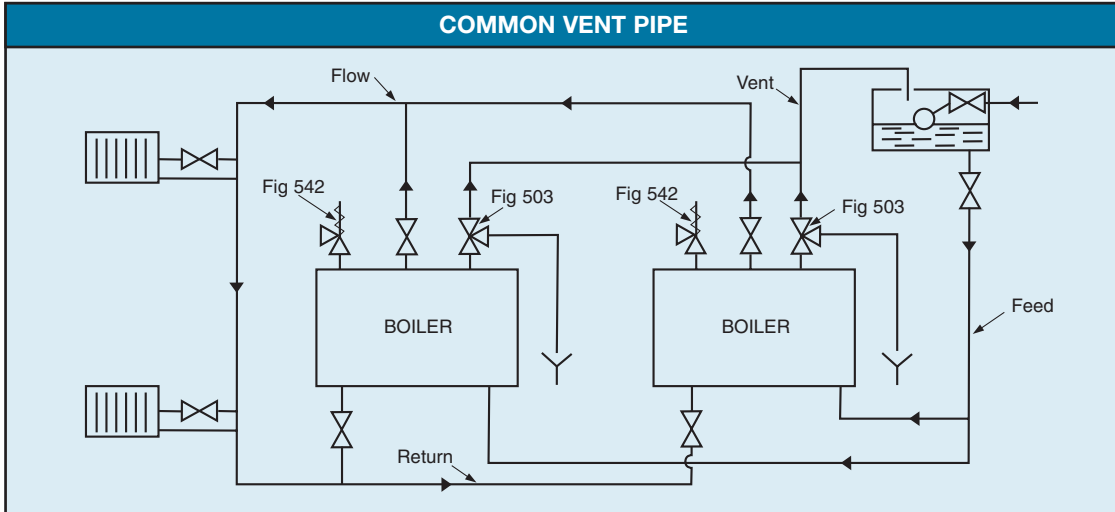
| VENT PIPE | | | | | | |
|-----------|------|------|------|------|------|-----------|
| SIZE | DN20 | DN25 | DN32 | DN40 | DN50 | DN65 |
| kW | 44 | 60 | 150 | 300 | 600 | above 600 |

To convert to Btu/hr multiply by 3400.

* The minimum size of vent pipe permitted by the above BS specifications is 25mm.

The rating given for the DN20 size is only for applications outside the scope of these standards.

INSTALLATION



NB: In both types of installation, there must be no isolating valve fitted between the Fig 503 and the boiler, vent pipe or drain.

UNVENTED SYSTEMS

Fitting a Fig 503 to an unvented system provides a useful air vent facility. This permits maintenance of the boiler, with continued operation of a multi-boiler system, or without having to drain down a single boiler system. The level of safety is also increased, and unnecessary operation of the safety valve is prevented. The Fig 503 should be installed as for the vented flow system, with a diaphragm expansion vessel replacing the feed tank and vent pipe. High capacity Fig 500 High Lift Safety Valves are for unvented heating systems. Fig 500T Combined Pressure & Temperature Relief Valves should be fitted to unvented supply systems.

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