

**C02 Primary Reducing Valves For Beer  
& Soft Drinks**

The 11-010 Series is a primary reducing valve designed for use with carbon dioxide gas and is suitable for cylinder pressures up to 2 000 p.s.i.g.. It is supplied fitted with BS 341, Part 1, No. 8 cylinder connectors to enable connection to C02 cylinders. It **MUST NOT** be used with other gases or gas mixtures with pressures in excess of 2 000 p.s.i.g. or connected to cylinders with outlet connectors to BS 341 Part 1, No. 3 by adaptors, hoses or any other means.

**Technical Data**

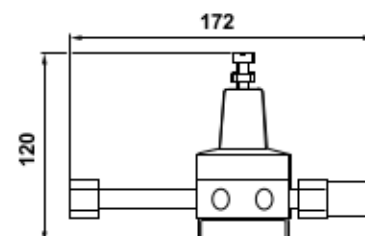
Safe Working Pressure (SWP): 2 000 p.s.i.g.  
 Safe Operating Limit (SOL): 2 200 p.s.i.g.  
 Minimum Design Test Pressure: 3 300 p.s.i.g.  
 Regulated Outlet Pressure Range: Typically 0-60 p.s.i.g., or to customers requirements.  
 Flow Capacity: Will supply in excess of 12 secondary reducing valves with negligible decrease in outlet pressure.

Operating Temperature Range: -4°C to +50°C  
 Inlet Connection: BS 341 Part 1 No. 8 (female)  
 Relief Valves: 2 preset and tamperproof devices are normally fitted and permanently attached to a body in accordance with the Codes of Practice.  
 Norgren relief valves when fitted or used in conjunction with Norgren primary reducing valves conform to the relief criteria required by the appropriate Code of Practice.  
 Colour Coding: A code tag conforming to BS 5430 Part 1:1989 is attached to indicate year of inspection (to BLRA Code of Practice).

No standard arrangement of external components exist and configurations are to customer requirements shown overleaf.



**Typical Envelope Dimensions (mm)**





## Arrangement Selection

Choose from: Number of ports (positions at 60° increments) maximum number 6.

**Inlet Ports (2 max.)**


Long cylinder connection


Short cylinder connection

Short cylinder connector plus hose

H.P. hose direct connection

Plus one port any position for H.P. contents gauge if required.

Scale type 

Indicator type 

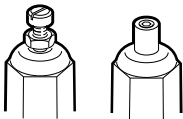
**Other general options are:**

Bracket mounting

Bonnet type

Slotted adjusting screw.

Hex. head socket adjusting screw in sub-flush bonnet (chimney type).



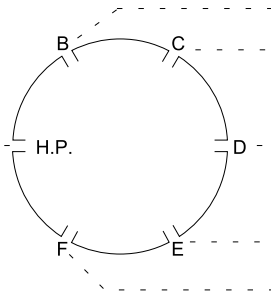
Spring adjustment range 0 – 60 p.s.i. nominal. Brewery type.  
0 – 100 p.s.i. nominal. Soft drinks type.

**Outlet Ports (5 max. or 4 max. if contents gauge used)**

Options:

1. Relief Valves\* 2 off  
Choose setting; pressures from 15 p.s.i. to 60 p.s.i. available in increments of 5 p.s.i. and 90 p.s.i. to 120 p.s.i. in increments of 10 p.s.i.
2. Gauge  
Scale type  
Indicator type
3. Outlet Fitting  
Female compression  $\frac{3}{8}$ " or  $\frac{5}{16}$ " O/D tube.  
Female push-in  $\frac{3}{8}$ " or  $\frac{5}{16}$ " O/D tube.  
Straight Stem for  $\frac{3}{8}$ " O/D tube fitting.  
Fir tree  $\frac{1}{4}$ " or  $\frac{3}{8}$ " O/D.  
Other specialist fittings are available.

\* See Relief Valve sheet for fuller details.



## Tandem Units

Tandem units can be used for a single gas supply to be utilised for separate beer and soft drinks dispense, or where two separate outlet pressures are required to different products from one source, but the pressures are unaffected and independent from each other.

In this combination the inlet or primary pressure is common to both linked primary reducing valves.

## Arrangement Selection

The same options as for the standard 11-010 apply and usually two different colour bonnets are offered for the two reducing valves to ease identification and prevent confusion.

## Warning

Norgren pressure reducing valves and other equipment for dispensing soft drinks or beer by pressure, must not be used on gases other than carbon dioxide, nitrogen, compressed air, or mixtures of such gases.

Operating pressures shown must not under any circumstances be exceeded and Secondary outlet pressures must conform to the respective Codes of Practice for the particular dispense systems they serve.

Safety relief devices as called for within such Codes of Practice must also be included in every system.

Equipment must be installed by authorised personnel in accordance with the information supplied with the equipment and to the requirements of the respective Codes of Practice. Instruction in the safe use of equipment must be given to the user by authorised personnel.

