



Filters . Accumulators

Gas Charging Block Type : BC

Technical Data

Port size : 25mm [1.00 inch]
 Max. Pressure (PS) : 400 bar [5800 psi]
 Test Pressure (PT) : 1.43 x PS (as per CE/PED)
 1.3 x PS (as per ASME)
 Temperature range : -20°C to +80°C (Standard)
 -4°F to +176°F (Standard)
 Material of Construction
 Body : Carbon Steel externally phosphated.
 Ball : Stainless Steel.
 Bowl : POM / Nitrile.
 Others on request.

Standard Connections

Port A (Accumulator) : 1" BSP(F)
 Port B (Bottles) : 1" BSP(F)
 Port M (Pr. Gauge) : 1/4" BSP(F)
 Port PC (Gas Valve) : 5/8" UNF(M)
 Shut-off Valve R : Dn25

Spare Parts

Valve with gaskets : Part # Y65018
 Check Valve : Part # W65017
 Gas Fill Valve : Part # ASSY17
 Safety Valve : Various
 Burst Disc : Various
 Gasket set : Part # Y65019

Description / Application

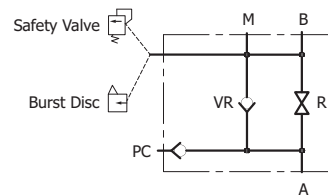
The BC Gas Charging Block is used in order to make safer and more practical the connection of one or more additional nitrogen bottles with a "transfert" version accumulator.

The BC charging block performs the following functions.

- Connect Accumulators with Nitrogen Bottles.
- Ensure free flow of nitrogen gas between accumulators and bottles.
- Retain Nitrogen pressure in the bottles while the accumulator is disconnected and stripped for servicing.
- Enable charge, adjust & release pressure from the Accumulators and backup bottles.
- Enable continuous / online measuring of the system pressure .
- Provides safety to the Accumulator and/or gas bottles from over pressure.
- May be used for pressure intensification when installed in conjunction with piston accumulator.



Hydraulic Symbol



Installation / Porting

The BC block is installed on the gas side in between the Transfert Accumulator and Nitrogen back-up bottles.

Accumulator line is connected to port A while the Nitrogen Bottle Line to port B. If desired suitable pressure gauge is mounted on port M.

Nitrogen charging is done using suitable charging kit mounted on Gas Fill Valve PC.

The shut-off valve R remains open during the operation in order to ensure free flow of nitrogen between the backup bottles and accumulator and visa versa. This valve is to be closed only during checking OR for accumulator maintenance.

Internal Check Valve VR guarantees the flow of nitrogen from accumulator to the bottles even when the valve R is wrongly closed.

For protection against over pressure, if required, suitable gas safety relief valve OR a burst disc can be connected on port SV. The valve outlet may be adequately vented as required OR left to atmosphere ensuring the outflow is directed away from personnel / equipment.

Technical specifications subject to change.

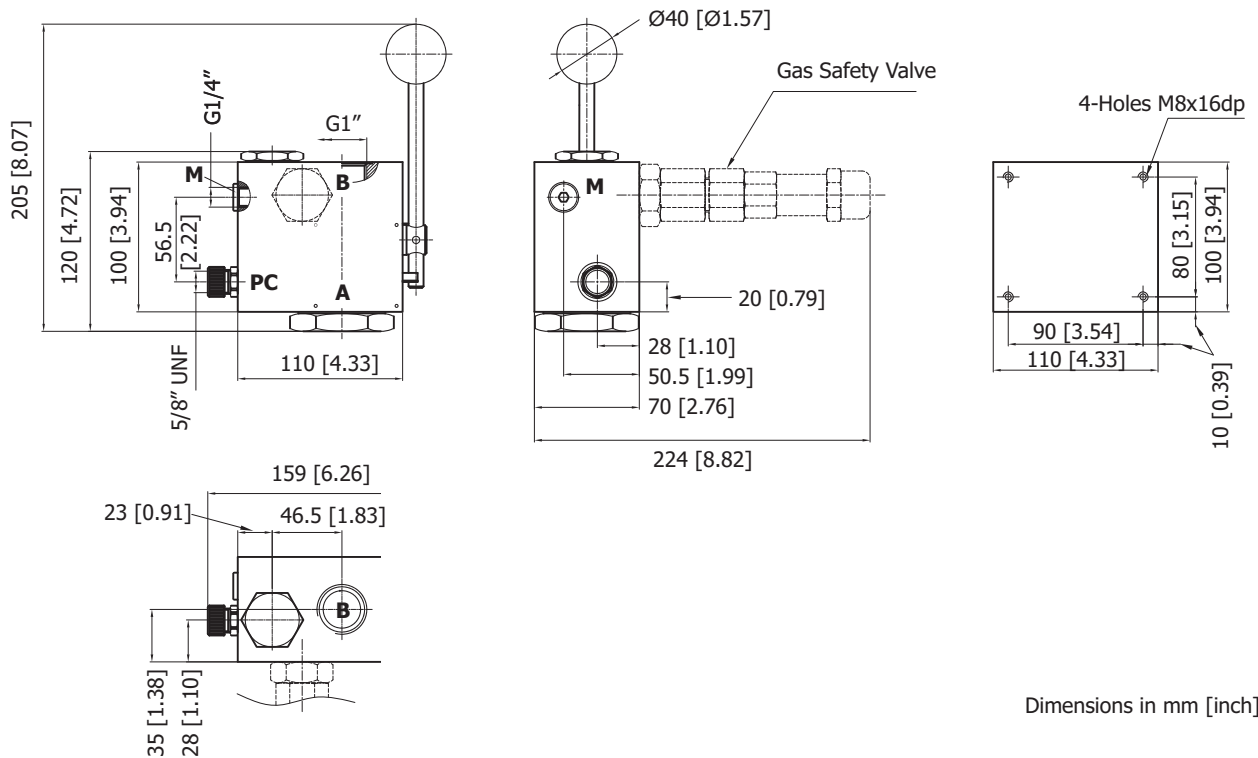
Ordering Code

1 2a 2b 3 4 5 6 7
BC25 - A - 0 - G06F - G06F - C - P - 0

| | | | |
|----|---------------------------------------|--|---|
| 1 | Type | Charging Block Size 25 | = BC25 |
| 2a | Safety Valve / Burst Disc | Without Relief Valve - factory certified Relief Valve - CE/PED certified Burst Disc - CE/PED certified | = A (standard) = B = D = R |
| 2b | Relief Valve/Disc Set Pressure | Without Valve Preset relief pressure (in bar) | = 0 (standard) = ... (as applicable) |
| 3 | Connection - Accumulator side | 1" BSP(F) 3/4" BSP(F) Others | = G06F (standard) = G05F = ... (as applicable) |
| 4 | Connection - Bottle side | 1" BSP(F) 3/4" BSP(F) Others | = G06F (standard) = G05F = ... (as applicable) |
| 5 | Body | Carbon Steel Stainless Steel | = C (standard) = X |
| 6 | Sealing | POM + NBR/Nitrile POM + Viton | = P (standard) = V |
| 7 | Certification | Factory certified | = 0 (standard) |

* Before ordering, check for availability.

Dimensions



Dimensions in mm [inch]

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