



- [Description](#)
- [Flow Rates](#)
- [Dimensions](#)
- [Functions](#)
- [Fluids and materials](#)
- [Ordering](#)

The HC3 - C miniBOOSTER



HC3 versions: 11 different intensification factors

P_{IN}: 20 – 200 bar (inlet pressure)

P_H: 500 bar maximum (outlet pressure)

P_{RETURN}: As low as possible (Return pressure to tank)

Intensification ratios: $P_H = (P_{IN} - P_{Return}) \cdot i$
(Intensification)

Mounting: NG6 (D03) stacking manifold system

Accessories: Pilot operated dump valve available

A model = no dump valve

B model = with dump valve

G model = direct proportionally controlled

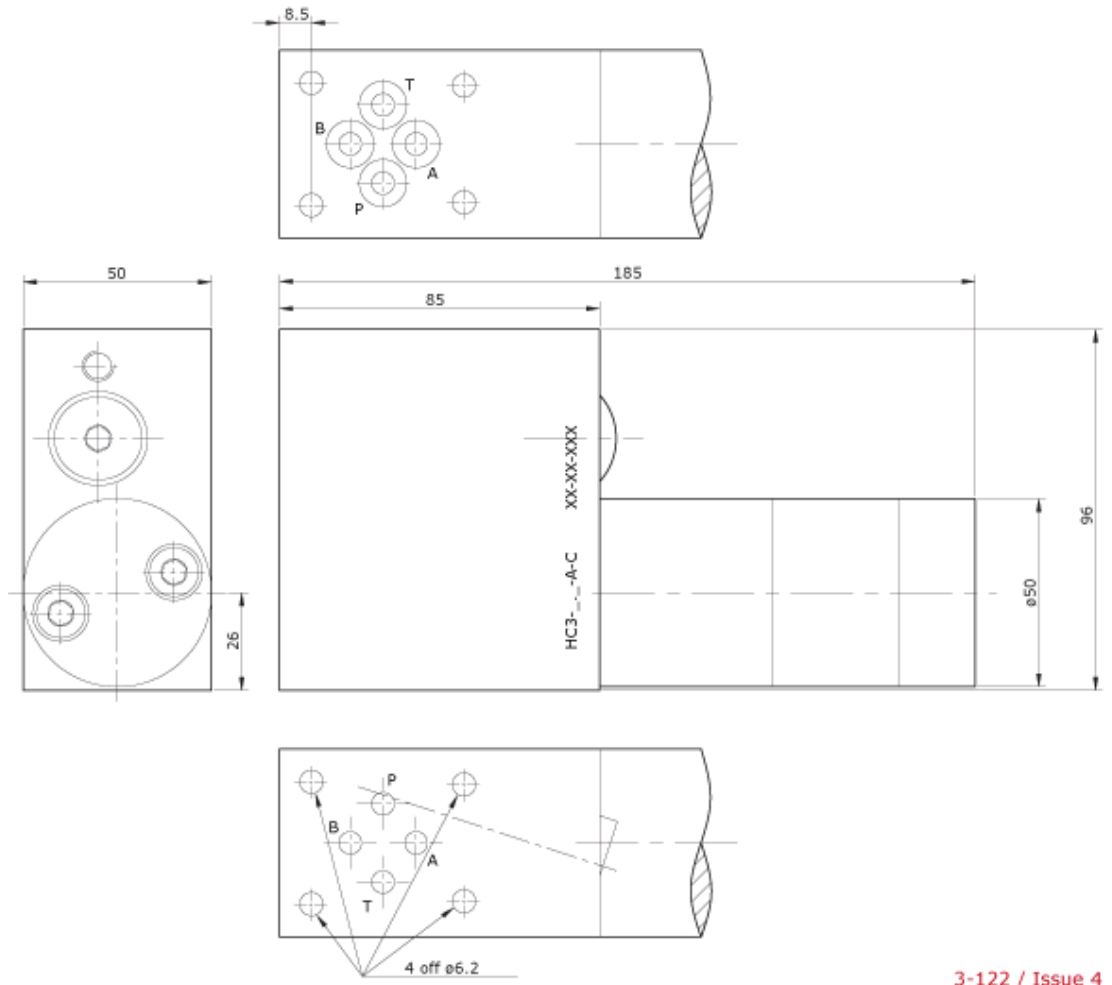
▲ Description of the HC3 - C miniBOOSTER hydraulic intensifier

The HC3 - C, a variant of the HC3, for [applications](#) with larger flow rates, providing a fast response with built-in by-pass up to 50 l/min. It is a compact unit weighing only 4.0 kg, designed for use in NG6 (D03) stacking manifold systems. Maximum outlet pressure is 350 bar in standard versions. An adjustment of the outlet pressure is carried out by varying the supplied pressure.

▲ Flow Rates

Intensification factor i	Max. outlet flow l/min	Max. inlet flow l/min
1.2	1.2	8.0
1.5	1.0	8.0
2.0	2.0	12.0
2.8	2.2	13.0
3.2	2.5	15.0
4.0	2.0	14.0
5.0	1.6	14.0
6.6	1.3	13.0
9.0	0.9	13.0
13.0	0.6	12.0
20.0	0.3	12.0

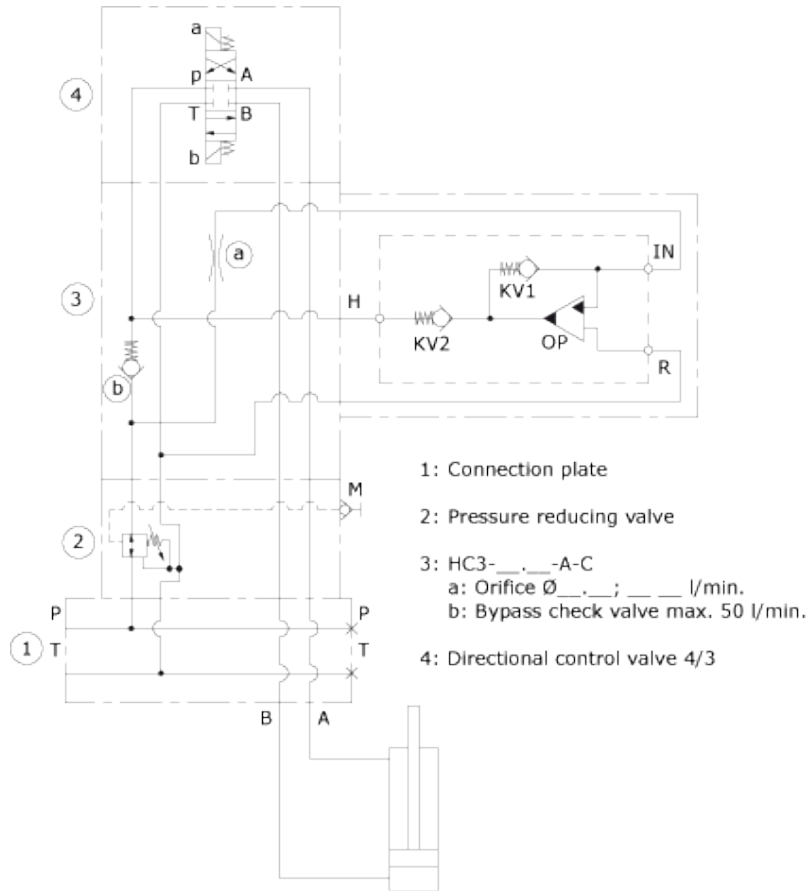
▲ Dimensions



▲ **Functions**

When pump pressure is reached on the A port, check valve (b) will close and the oil will flow via the Orifice (a) to the oscillating pump unit OP. The end pressure will be achieved by the oscillating pump OP. The unit will automatically stall when end pressure on high-pressure side is reached. If there is a pressure drop on the high-pressure side due to consumption or leakage, the OP valve will automatically operate to maintain the end pressure.

Function Diagram



▲ **Fluids and materials**

Please see [General Specifications](#).

▲ **Ordering a HC3 - C**

Ordering example of a HC3 - C with $i = 4.0$,
DV incorporated: HC3 - 4.0 - B - C

Model	Intensification, i	Dump Valve	Model
HC3	your selection...	your selection...	C
	see flow rate table	A = (no) / A model	
		B = (yes) / B model	
		G = (proportional) / G model	

ISO 9001
BUREAU VERITAS
Certification

