miniBOOSTER

HC3- C miniBOOSTER

HC3 versions: 11 different intensification factors

P_{IN}: 20 – 207 bar (inlet pressure)

P_H: 500 bar maximum (outlet pressure)

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

P_{OUTLET}: $P_H = (P_{IN} – P_{Return})$ i (intensification)

Mounting: NG6 (D03) stacking manifold system

A model = no dump valve
G model = direct proportionally controlled

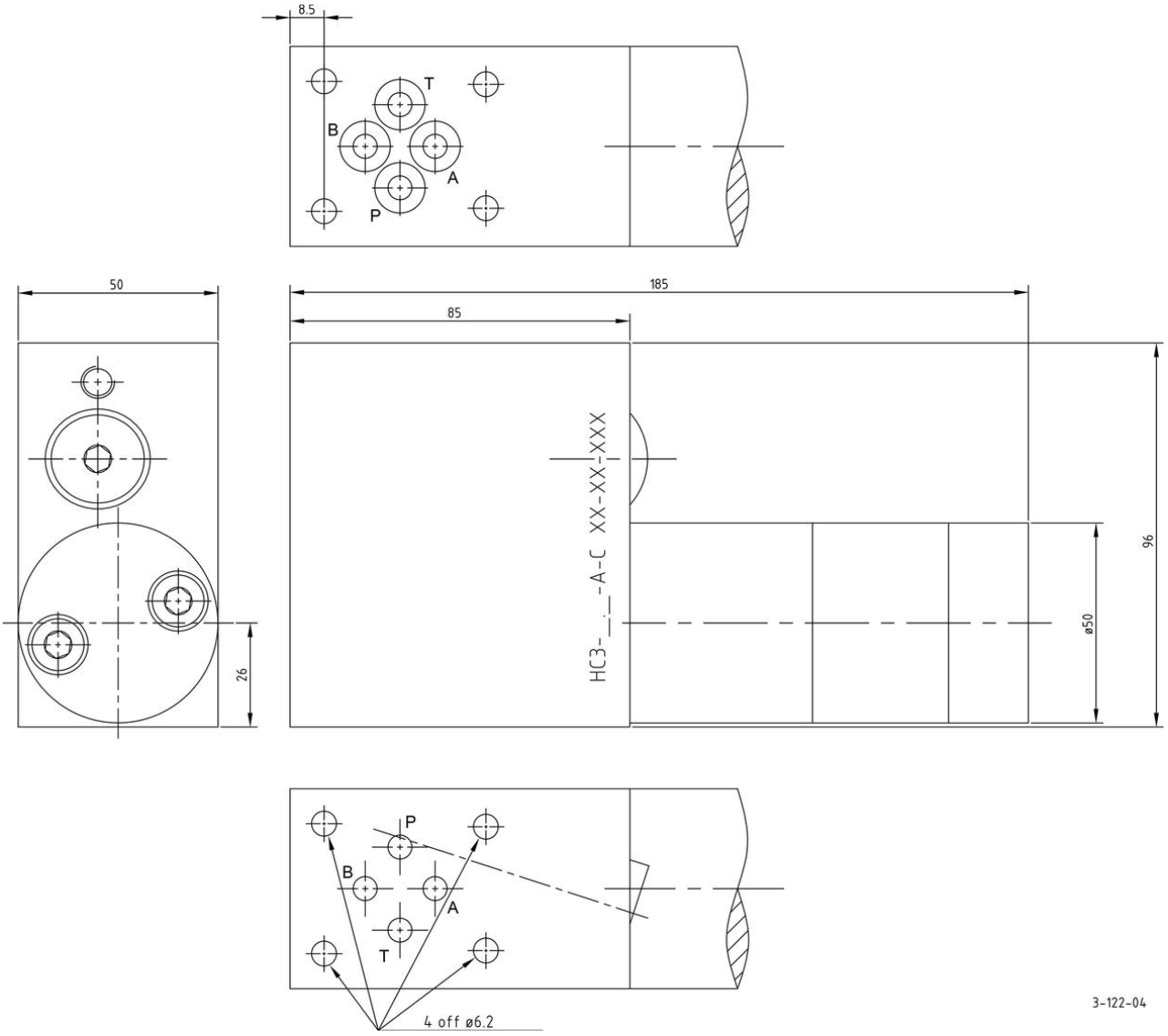
Description

The HC3– C, a variant of the HC3, is used for applications with larger flow rates, providing a fast response with build- 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 500 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

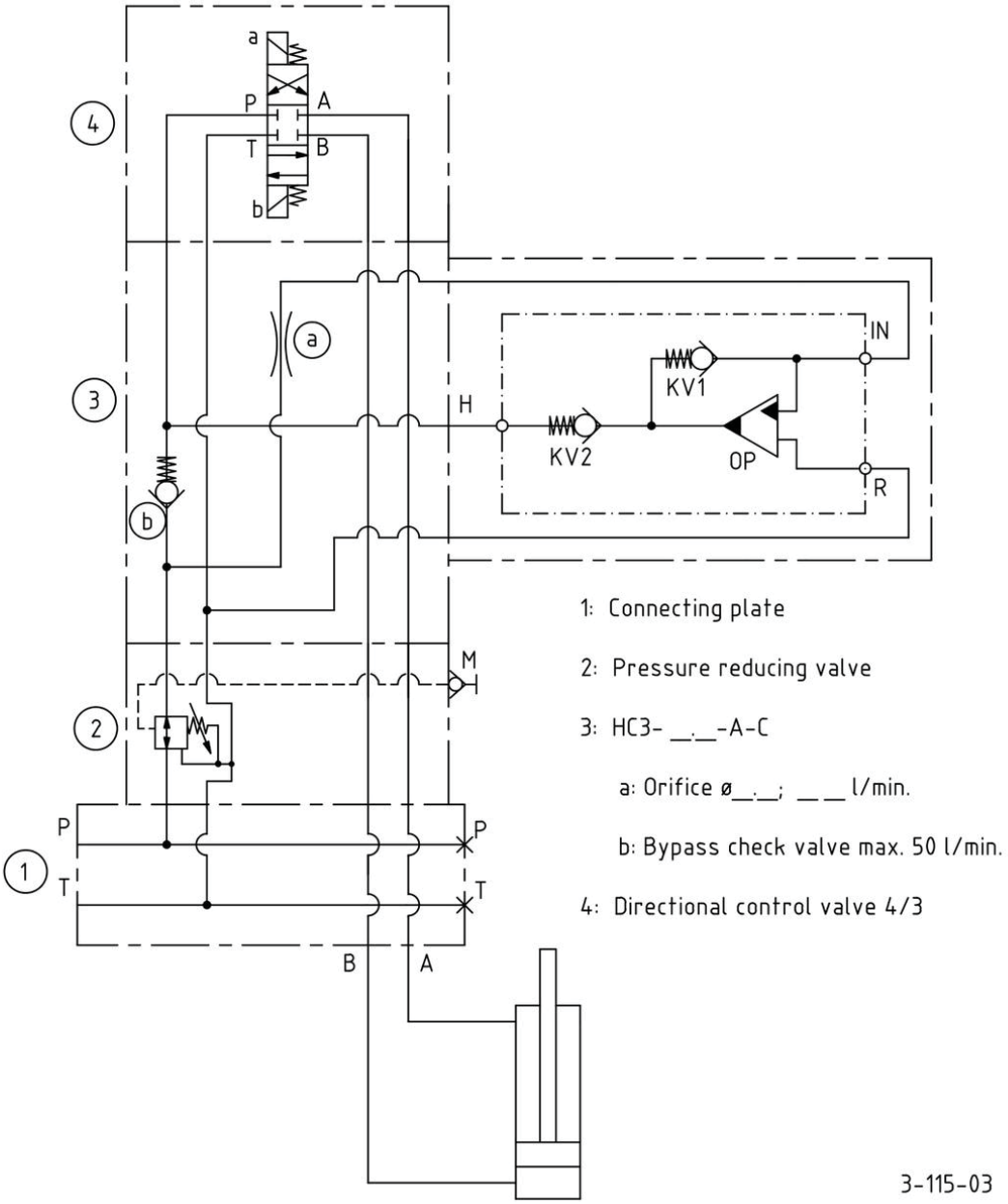
Dimensions



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 a pressure drop on high- pressure side exists 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 an HC3- C

Ordering example of an HC3 - C with i = 4.0: HC3-4.0- A- C

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