

HC4 miniBOOSTER



HC4 versions: 10 different intensification factors

 P_{IN} : 20 – 207 bar (inlet pressure)

P_H: 800 bar maximum (outlet pressure)

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

 $\mathbf{P}_{\text{outlet}}$: $\mathbf{P}_{\text{H}} = (\mathbf{P}_{\text{IN}} - \mathbf{P}_{\text{Return}})$ i (intensification)

Mounting: Inline tube

Accessories: Pilot- operated dump valve available

A model = no dump valve B model = with dump valve

G model = direct proportionally controlled

Description

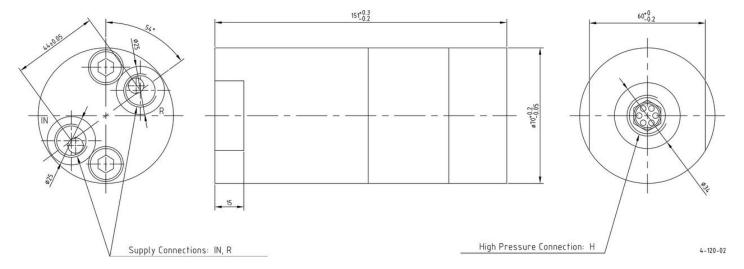
The HC4 is ideal for use in applications where a higher volume of high- pressure fluid is required. The HC4 is a compact unit weighing only 3.7 kg, but it delivers up to 7.0 liters/ min. outlet flow. Like the HC2, it raises supplied pressure and automatically compensates for consumption of oil to maintain the high pressure. Adjustment of the outlet pressure is carried out by varying the supplied pressure.

Flow rates

Max. outlet flow I/ min	Max. inlet flow I/ min
1.5	25.0
1.4	25.0
1.2	25.0
7.0	35.0
6.0	35.0
5.0	35.0
4.0	35.0
3.5	35.0
2.5	35.0
2.0	35.0
	// min 1.5 1.4 1.2 7.0 6.0 5.0 4.0 3.5 2.5



Dimensions



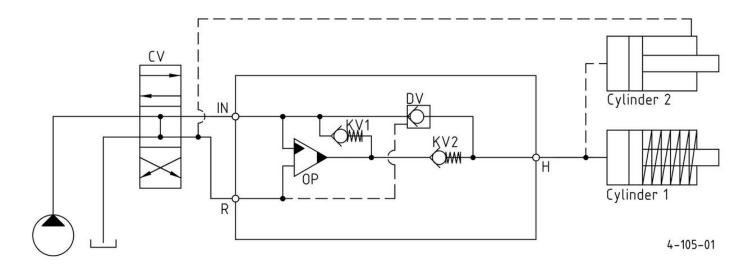
Functions

The basic operation is illustrated in the function diagram. Oil is fed through the directional valve CV to the IN port, flowing freely through the check valves KV1, KV2 and DV to the high- pressure side H. In this condition maximum flow through the booster is achieved giving a fast-forward function.

When pump pressure is reached on the high- pressure side H, valves KV1, KV2 and DV will close. The end pressure will be achieved by the oscillating pump unit OP. The unit will automatically stall when end pressure on the high- pressure side H is reached. If a pressure drop on the high- pressure side exists due to consumption or leakage, the OP valve will automatically operate to maintain the end pressure.



Function diagram



Connection types

Connection	IN / R	Н
1	3/8" BSPP	1/2" BSPP
2	9/16-18 UNF	3/4-16 UNF

Max. tightening torque BSPP

	IN/R	Н
	3/8" BSPP	1/2" BSPP
with steel washer	6.0 da Nm	13.0 da Nm
with aluminium washer	4.0 da Nm	_
with cutting edge	6.0 da Nm	13.0 da Nm

Max. tightening torque UNF

	IN/R	Н
	9/16-18" UNF	3/4-16" UNF
with o- ring	3.5 da Nm	6.0 da Nm

Fluids and materials

Please see: General specifications

Ordering an HC4

Ordering example of an HC4 with i = 4.3, DV incorporated and BSPP connections: HC4 - 4.3 - B - 1

Model	Intensification, i	Dump valve	Connections
HC4	your selection	your selection	your selection
	see flow rate table	A = (no) / A model	1
		B = (yes) / B model	2
		G = (proportional) / G model	

