

HC6D miniBOOSTER



HC6D versions: 9 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)

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

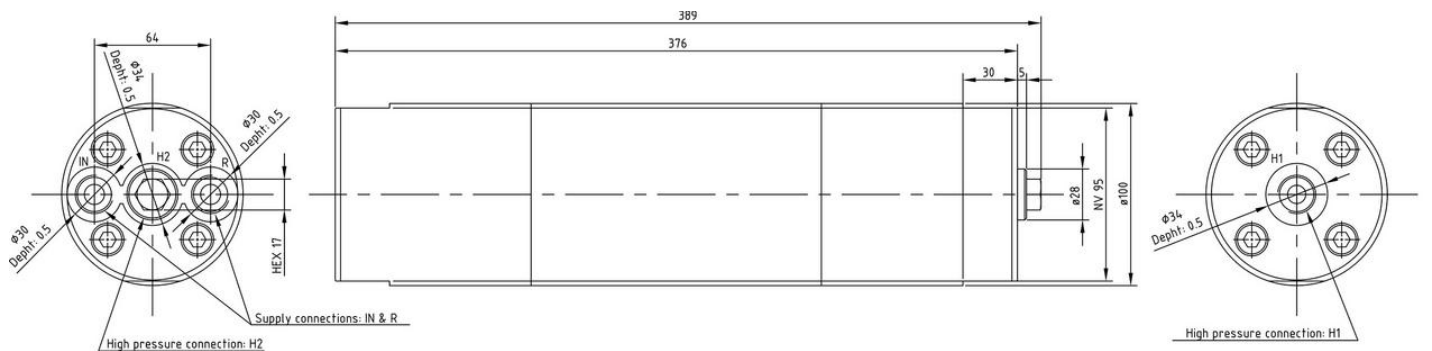
Description

The HC6D is a high- flow dual- acting unit which is capable of delivering up to 56.0 l/ min flow on the high- pressure end. Like other miniBOOSTER models, the HC6D raises supplied pressure to a higher outlet 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. Relative to its flow capability, the HC6D is a compact unit weighing 20 kg.

Flow rates

Intensification factor <i>i</i>	Max. outlet flow l/ min	Max. inlet flow l/ min
1.2	56.0	70.0
1.5	48.0	70.0
2.0	41.0	70.0
2.5	34.0	70.0
3.3	27.5	70.0
4.0	22.5	70.0
4.9	17.5	70.0
6.3	13.7	70.0
8.2	11.2	70.0

Dimensions



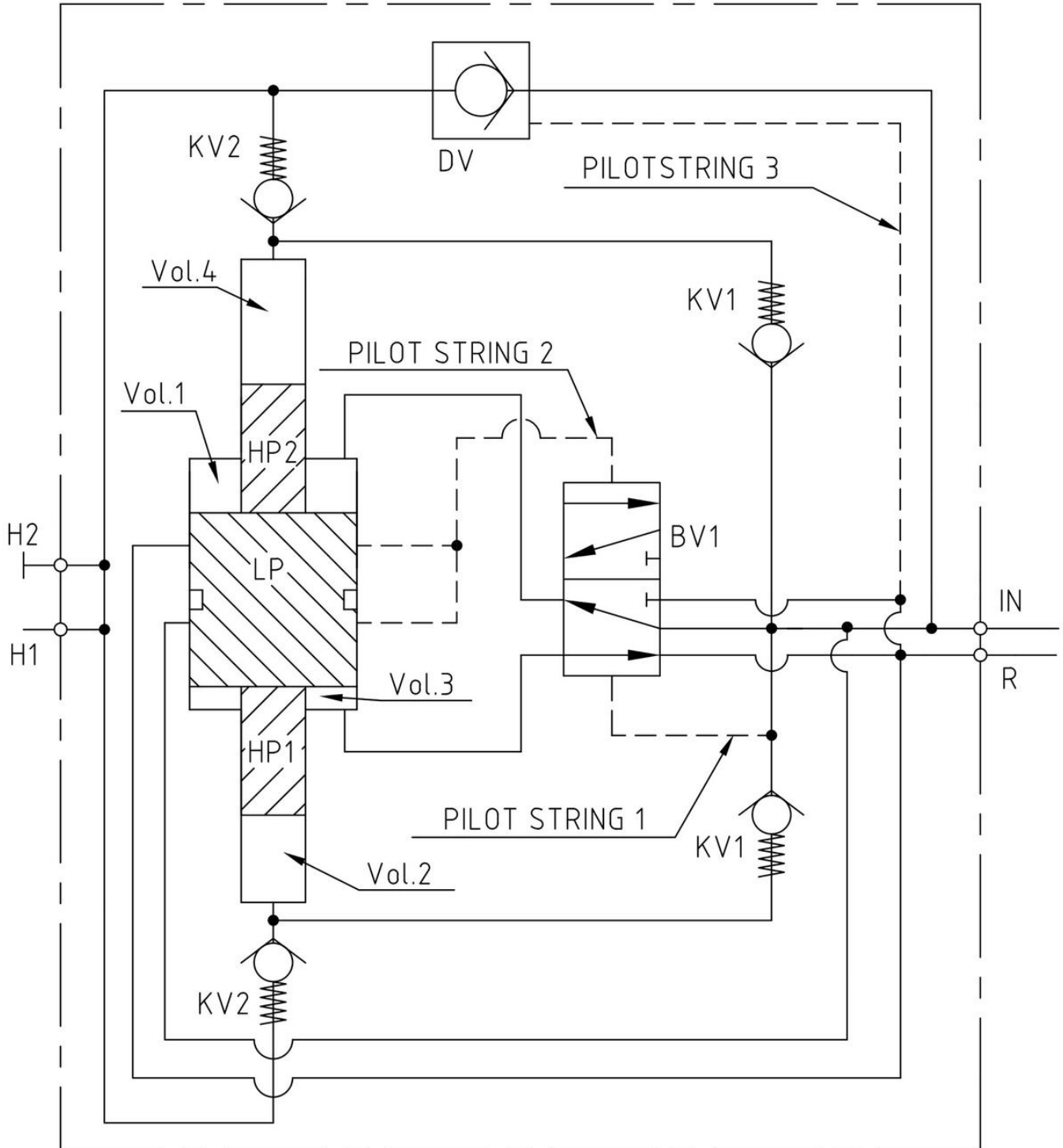
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Functions

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 2x KV1, 2x 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 units OP1 and OP2 by turns. The unit will automatically stall when end pressure on high- pressure side H is reached. If a pressure drop on the high- pressure side exists due to consumption or leakage, the OP1 and OP2 units will automatically operate to maintain the end pressure. It is possible to change the high- pressure connection H to the opposite end of the booster.

Function diagram



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Connection types

Connection	IN / R	H
1	1/2" BSPP	1/2" BSPP

Max. tightening torque BSPP

	IN / R	H
	1/2" BSPP	1/2" BSPP
with steel washer	13.0 da/ Nm	13.0 da/ Nm
with aluminium washer	7.0 da/ Nm	–
with cutting edge	13.0 da/ Nm	13.0 da/ Nm

Fluids and materials

Please see: General specifications

Ordering an HC6D

Ordering example of an HC6D with $i = 4.0$, DV incorporated and BSPP connections: HC6D - 4.0 - B - 1

Model	Intensification, i	Dump valve	Connections
HC6D	your selection...	your selection...	your selection...
	see flow rate table	A = (no) / A model	1
		B = (yes) / B model	
		G = (proportional) / G model	