

The HC6D2W miniBOOSTER



HC6D2W versions: 9 different intensification factors

P_{IN}: 20 – 200 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)

The intensification ratio is related to the inlet pressure at media 2, the values in the table are measured at 1 bar on media 2

Drain connections: Max. 10 bar

Mounting: Inline tube

A model = no dump valve

Description

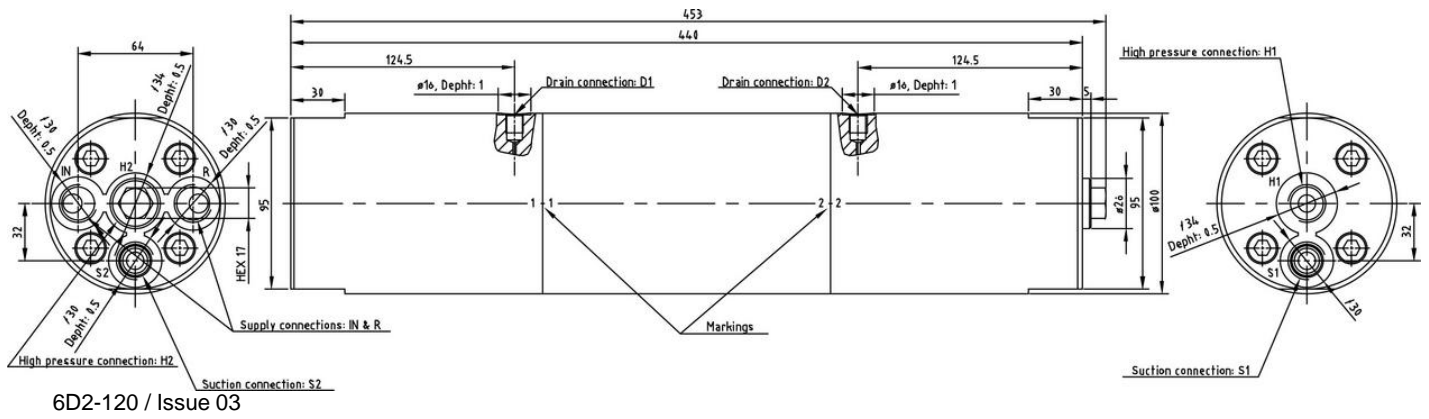
The HC6D2W is a dual media stainless steel 316 L unit which is capable of up to 28 l/ min flow on the high pressure end. Like other miniBOOSTER models, the HC6D2W raises supplied pressure to a higher outlet pressure and automatically compensates for consumption of oil to maintain the high pressure.

Adjustment of the outlet pressure is carried out by varying the supplied pressure. Relative to its flow capability, the HC6D2W is a compact unit weighing 24 kg.

Flow Rates

Intensification factor i	Max. outlet flow l/ min	Max. inlet flow l/ min
1.0	28.1	30
1.2	24.5	30
1.5	21.9	35
2.0	17.0	35
3.0	9.8	40
3.9	8.7	40
5.2	6.5	45
7.1	4.8	45
10.1	3.4	45

Dimensions

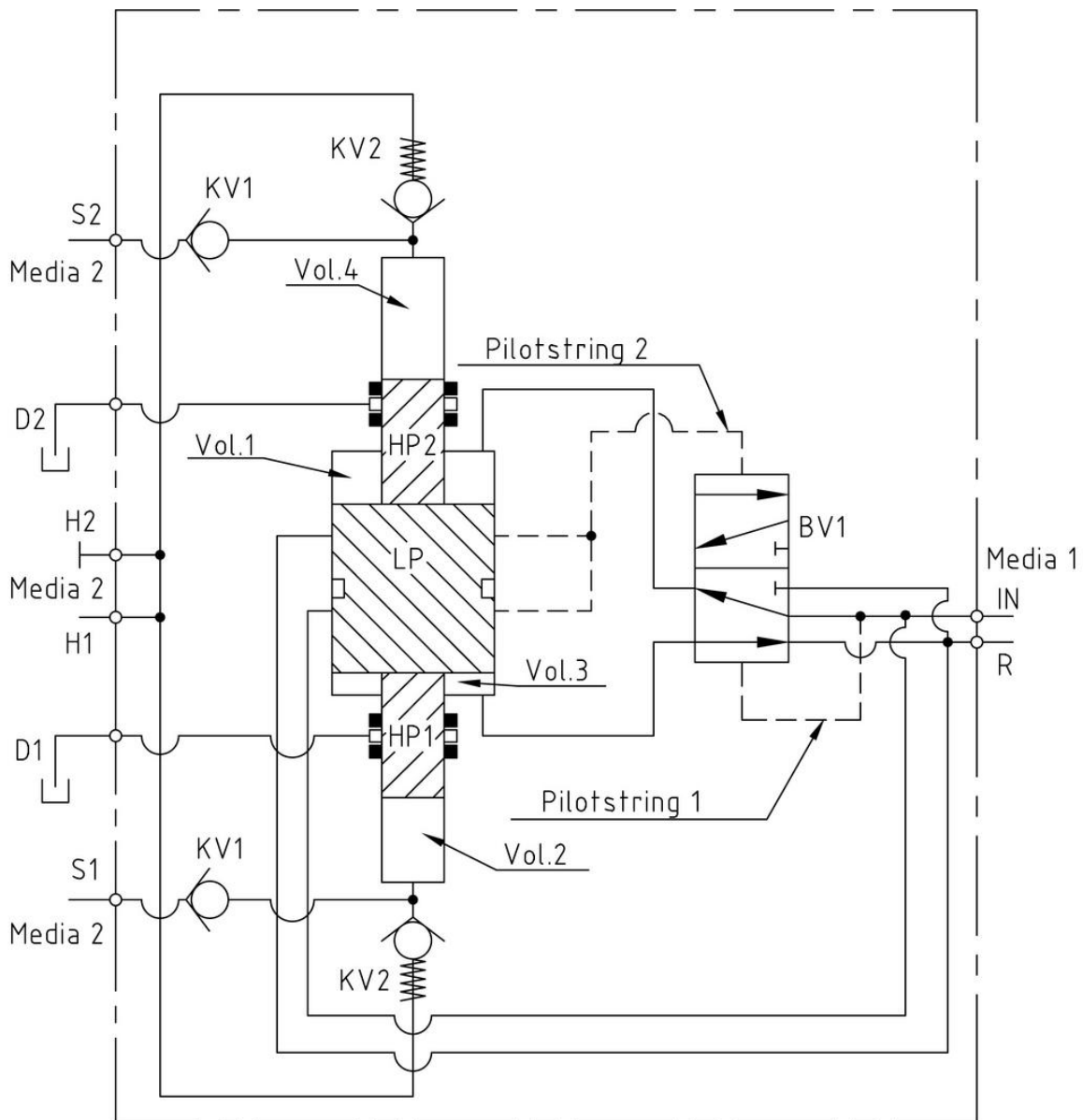


Functions

The basic operation is illustrated in the function diagram. Media 1 is fed through the IN port flowing freely through the bistable valve BV1 driving the LP pistons. From the suction inlet IN Media 2 is drawn through the check valves 2 x KV1, and pumped through the 2 x KV2 to the high-pressure side H. In this condition maximum flow through the booster is achieved giving a fast forward function.

The unit will automatically stall when end pressure on high- pressure side H is reached. If there is a pressure drop on the high pressure side due to consumption or leakage, the HP1 and HP2 units will automatically operate to maintain the end pressure.

Function Diagram



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miniBOOSTER Hydraulics A/S, Fynsgade 3, DK - 6400 Sønderborg, Tel: + 45 7442 9292
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Connection types

Connection	IN / R	H1, S1, H2 & S2	D1 & D2
1	1/2" BSP	1/2" BSP	1/8" BSP

Max. tightening torque BSP

	IN / R	H	D1 & D2
	1/2" BSP	1/2" BSP	1/8" BSP
with steel washer	13.0 da/ Nm	13.0 da/ Nm	2.0 da/ Nm
with cutting edge	13.0 da/ Nm	13.0 da/ Nm	2.0 da/ Nm

Fluids

Media 1: Recognized hydraulic fluids, glycol solutions (Min > 5%)

Media 2: Hydraulic fluids, glycol, water, sea water

Please note! For other media, such as methanol, please contact miniBOOSTER

Dynamic Seals

Code	Media 1 & 2	Outlet pressure
HH	H- PUR / H- PUR	Max 800 bar HP
HP	H- PUR / PEEK	Max 800 bar HP
EE	EPDM / EPDM	Max 500 bar HP
EP	EPDM / PEEK	Max 800 bar HP
PP	PEEK / PEEK	Max 800 bar HP

Materials

- Body & internal components: Stainless steel 316 W.1.4404
- Dynamic seals, H- pur (see table)

Ordering a HC6D2W

Ordering example of a HC6D2W with $i = 3.9$, with BSP connections: HC6D2W - 3.9 - A - 1HH

Model	Intensification, i	Dump Valve	Connections	Dynamic Seals
HC6D2W	your selection...	your selection...	your selection...	your selection...
	see flow rate table	A = (no) / A model	1	see seal table