



Sales partner



HC2D2HW miniBOOSTER



HC2D2HW versions: 4 different intensification factors

 $P_{\text{\tiny IN}}$: 20 – 207 bar (inlet pressure)

P_H: 1,380 bar maximum (outlet pressure)

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

$$\begin{split} & \textbf{P}_{\text{outLET}} \textbf{:} \ \textbf{P}_{\text{H}} = (P_{_{\text{IN}}} - P_{_{\text{Return}}}) \ \text{i} \ \text{(intensification)} \end{split}$$
 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. 5 bar

Mounting: Inline tube

A model = no dump valve

Material certificate 3.1 on request

Description

HC2D2HW is a dual media unit which is capable of delivering up to 1.6 l/ min flow on the high- pressure end. Like other miniBOOSTER models, the HC2D2HW raises supplied pressure to a higher outlet pressure and automatically compensates for consumption of oil to maintain

Adjustment of the outlet pressure is carried out by varying the supplied pressure. Relative to its flow capability, the HC2D2HW is a compact unit weighing 8.0 kg.

Flow rates

Intensification factor i	Max. outlet flow I/ min	Max. inlet flow I/ min
4.0	1.6	7.0
5.6	1.3	8.0
8.0	1.0	8.0
12.0	0.6	8.0

Functions

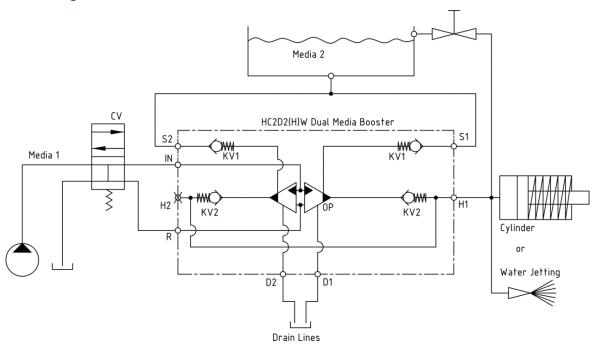
The basic operation is illustrated in the function diagram. Media 1 is fed through the IN port flowing freely through the bistable valve BV1 driving the LP pistons. From the suction inlet IN Media 2 is drawn through the check valves 2 x KV1, and pumped through the 2 x KV2 to the high-pressure side H. 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 a pressure drop on the high- pressure side exists due to consumption or leakage, the HP1 and HP2 units will automatically operate to maintain the end pressure.



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Function diagram



Connection types

Connection	IN/R	H1 & H2	S1 & S2	D1 & D2	
1	1/4" BSPP	M22 x 1 5	3/8" BSPP	1/8" BSPP	

Max. tightening torque BSPP

Function diagram 2D2W-105-00

	IN / R	S1 & S2	D1 & D2
Stainless	1/4" BSPP	3/8" BSPP	1/8" BSPP
with steel washer	4.0 da/ Nm	6.0 da/ Nm	2.0 da/ Nm
with cutting edge	4.0 da/ Nm	6.0 da/ Nm	2.0 da/ Nm

High- pressure adapters

Ordering code	Male connection 1	Female connection 2	Max. pressure
7W-431	M22 x 1.5	Plug	2,000 bar
7W-432	M22 x 1.5	9/16-18 UNF	2,000 bar
7W-433	M22 x 1.5	1/4" BSPP	2,000 bar
7W-436	M22 x 1.5	M16 x 1.5	2,000 bar
7W-444	M22 x 1.5	1/2" BSPP	2,000 bar

High- pressure adapter ordering codes and specifications can be seen from the table in the PDF- file below:



High- pressure adapters: 7W-900-01

Dynamic seals

Code	Media 1 & 2	Outlet pressure
HP	H- PUR / PEEK	Max 1,380 bar HP
EP	EPDM / PEEK	Max 1,380 bar HP
PP	PEEK / PEEK	Max 1,380 bar HP

Fluids

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

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





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For other media, such as methanol - contact HYQUIP.

Materials

- Body and internal components: Stainless steel 316 W.1.4404 Material certificate 3.1 on request
- Dynamic seals, see table

Ordering an HC2D2HW

Ordering example of an HC2D2HW with i = 4.0, with BSPP connections, H1 and H2 M22 x 1.5 and H_PUR/ PEEK seals:

HC2D2HW - 4.0 - A - 1HP

High- pressure adapter ordering code - see table

Model	Intensification, i	Dump valve	Connections	Dynamic seals
HC2D2HW	your selection	your selection	your selection	your selection
	see flow rate table	A = (no) / A model	1	see seal table

