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# **HC2DW miniBOOSTER**



HC2DW versions: 8 different intensification factors

P<sub>IN</sub>: Inlet pressure 20-207 bar

 $\mathbf{P}_{\scriptscriptstyle{\mathrm{H}}}$ : 800 bar maximum (outlet pressure)

 $\mathbf{P}_{\text{return}}$ : As low as possible (return pressure to tank)

 $P_{\text{outlet}}$ :  $P_{\text{H}} = (P_{\text{IN}} - P_{\text{Return}}) I$  (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

Material certificate 3.1 on request

### **Description**

The HC2DW is a dual- acting stainless unit which is capable of delivering up to 7.8 l/ min flow on the high- pressure end. Like other miniBOOSTER models, the HC2DW 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 HC2DW is a compact unit weighing 8.0 kg.

## Flow rates

Intensification factor i	Max. outlet flow // min	Max. inlet flow l/ min
2.2	7.8	15.0
2.6	7.0	15.0
3.2	6.2	15.0
4.0	5.0	14.0
5.0	4.0	14.0
6.6	3.2	13.0
9.0	2.2	13.0
13.0	1.5	12.0

**(**+44 (0)1204 699959

enquiries@hyquip.co.uk www.hyquip.co.uk



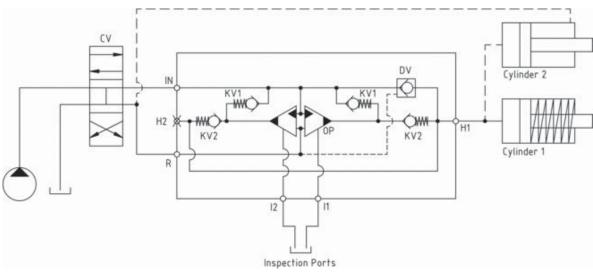
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#### **Functions**

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 trough 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 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**



2DW-105-02

Function diagram 2DW-105-02

#### **Dimensions**

Dimension drawing 2DW-120-04



# **(**+44 (0)1204 699 959

enquiries@hyquip.co.uk www.hyquip.co.uk



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### **Connection types**

Connection	IN/R	Н
1	1/4" BSPP	1/4" BSPP

### Max. tightening torque BSPP

	IN/R	Н
	1/4" BSPP	1/4" BSPP
with stainless steel washer	4.0 da/ Nm	4.0 da/ Nm

#### Fluids and materials

Please see: General specifications

## **Dynamic seals**

Code	Seal material	Outlet pressure
HH	H- PUR	Max 800 bar HP
PP	PEEK	Max 800 bar HP
EE	EPDM	Max 500 bar HP

# Ordering an HC2DW

Ordering example of an HC2DW with i = 4.0, DV incorporated, BSPP connections and H- PUR dynamic seals: HC2DW - 4.0 - B - 1HH for media < 5 cSt (mm²/ s) tested in water HC2DW - 4.0 - B - 1SHH for media > 5 cSt (mm²/s) tested in hydraulic oil

Model	Intensification, i	Dump valve	Connections	Dynamic seals
HC2DW	your selection	your selection	your selection	your selection
	see flow rate table	A = (no) /A model	1	HH
		B = (yes) /B model		PP
		G = (proportional)/G model		EE