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The HC8W miniBOOSTER



HC8W versions: 5 different intensification factors

P_{IN}: Inlet pressure 20-200 bar

P_H: 2,000 bar maximum (outlet pressure)

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

Intensification ratios: $P_H = (P_{IN} - P_{RETURN}) \cdot i$
 (Intensification)

Mounting: Inline tube

Accessories: Pilot operated dump valve incorporated
 Pressure gauge/transducer connection available

▲ Description of the HC8W miniBOOSTER hydraulic intensifier

The HC8W is a high pressure stainless steel unit delivering pressure up to 2.000 bar. Operating like the HC2W, the HC8W is a unique, self contained device which boosts inlet pressure by up to a 20:1 ratio without the use of external power.

In addition, the HC8W maintains high pressure by automatically compensating for consumption of media on the high pressure side. High pressure is directly proportional to inlet pressure. The HC8W is compact in size. The HC8W works at inlet pressure from 20 to 200 bar. On standard versions maximum outlet pressure is 2,000 bar. Higher pressure is available on special request.

▲ Flow Rates

Intensification factor i	Max. outlet flow l/min	Max. inlet flow l/min
5.0	1.6	14.0
6.6	1.3	13.0
9.0	0.9	13.0
13.0	0.6	12.0
20.0	0.3	12.0

▲ **Connection types**

Connection	IN / R
1	1/4" BSP
2	9/16-18 UNF

▲ **Max. tightening torque BSP**

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

▲ **Max. tightening torque UNF**

	IN / R
	7/16-18" UNF
with o-ring	2.0 da/Nm

▲ **High pressure plates**

Ordering Code	Port 1: HP-Connection		Port 2: PG-Connections		Port 3: Other Connections		Port 4: Other Connections	
	HP plate	Thread Cone	Thread	Cone	Thread	Cone	Thread	Cone
8W-281	1/2" BSP	120°	None	-	None	-	None	-
8W-282	3/4" BSP	0°	None	-	None	-	None	-
8W-283	M16 x 1.5	60°	None	-	None	-	None	-
8W-284	1/4" BSP	120°	None	-	None	-	None	-
8W-285	1/4" BSP	120°	9/16-18 UNF	60°	None	-	None	-
8W-286	3/4" BSP	0°	9/16-18 UNF	60°	None	-	None	-
8W-287	1/4" BSP	120°	9/16-18 UNF	60°	9/16-18 UNF	60°	None	-
8W-288	9/16-18 UNF	60°	9/16-18 UNF	60°	None	-	None	-
8W-289	1/4" BSP	120°	M14 x 1.5	60°	None	-	None	-
8W-290	1/4" BSP	120°	M16 x 1.5	60°	None	-	None	-
8W-291	1/4" BSP	120°	M15 x 1.0	0°	None	-	None	-
8W-292	M16 x 1.5	60°	M16 x 1.5	60°	None	-	None	-
8W-293	1/2" BSP	60°	None	-	None	-	None	-
8W-294	M16 x 1.5	60°	9/16-18 UNF	60°	M16 x 1.5	60°	None	-
8W-295	M16 x 1.5	60°	9/16-18 UNF	60°	None	-	None	-
8W-296	M20 x 1.5	60°	None	-	None	-	None	-
8W-297	1/4" BSP	120°	9/16-18 UNF	60°	M14 x 1.5	60°	None	-
8W-298	1/4" BSP	120°	9/16-18 UNF	60°	M16 x 1.5	60°	None	-
8W-299	3/4-16 UNF	60°	None	-	None	-	None	-
8W-300	M22 x 1.5	60°	None	-	None	-	None	-
8W-320	M22 x 1.5	60°	M22 x 1.5	60°	None	-	None	-
8W-321	1/4" BSP	120°	1/4" BSP	120°	None	-	None	-
8W-322	M22 x 1.5	60°	9/16-18 UNF	60°	M22 x 1.5	60°	None	-
8W-323	1/4" BSP	120°	9/16-18 UNF	60°	1/2"-20 UNF	60°	None	-
8W-324	M22 x 1.5	60°	9/16-18 UNF	60°	None	-	None	-
8W-325	1/4" BSP	120°	None	-	9/16-18 UNF	60°	9/16-18 UNF	60°

▲ **Fluids and materials**

Please [see General Specifications](#).

▲ **Ordering a HC8W**

Ordering example of a HC8W with $i = 13,0$

DV incorporated and BSP connections:

HC8W - 13.0 - B - 1 For media $< 5 \text{ cSt (mm}^2/\text{s)}$ tested in water

HC8W - 13.0 - B - 1S For media $> 5 \text{ cSt (mm}^2/\text{s)}$ tested in hydraulic oil

Please note!

High pressure plate ordering code - see table

Other high pressure connections on request.



Model	Intensification, i	Dump Valve	Connections
HC8W	— your selection... — see flow rate table	— your selection... — A = (no) / A model B = (yes) / B model G = (proportional) / G model	— your selection... — 1 2