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The HC8 miniBOOSTER



HC8 versions: 5 different intensification factors

P_{IN}: 20 – 200 bar (inlet pressure)

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

A model = no dump valve

B model = with dump valve

G model = direct proportionally controlled

▲ Description of the HC8 miniBOOSTER hydraulic intensifier

The HC8 was developed for applications where intensified pressure up to 2,000 bar are required. Operating like the HC2, the HC8 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 HC8 maintains high pressure by automatically compensating for consumption of oil on the high pressure side. High pressure is directly proportional to inlet pressure. The HC8 is compact in size. The HC8 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 | 7/16-20 UNF |

▲ **Max. tightening torque BSP**

| | IN / R |
|-----------------------|-----------|
| | 1/4" BSP |
| with steel washer | 4.0 da/Nm |
| with aluminium washer | 3.0 da/Nm |
| with cutting edge | 4.0 da/Nm |

▲ **Max. tightening torque UNF**

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

▲ High pressure plate

| 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 |
| 8-281 | 1/2" BSP | 120° | None | - | None | - | None | - | - |
| 8-282 | 3/4" BSP | 0° | None | - | None | - | None | - | - |
| 8-283 | M16 x 1.5 | 60° | None | - | None | - | None | - | - |
| 8-284 | 1/4" BSP | 120° | None | - | None | - | None | - | - |
| 8-285 | 1/4" BSP | 120° | 9/16-18 UNF | 60° | None | - | None | - | - |
| 8-286 | 3/4" BSP | 0° | 9/16-18 UNF | 60° | None | - | None | - | - |
| 8-287 | 1/4" BSP | 120° | 9/16-18 UNF | 60° | 9/16-18 UNF | 60° | None | - | - |
| 8-288 | 9/16-18 UNF | 60° | 9/16-18 UNF | 60° | None | - | None | - | - |
| 8-289 | 1/4" BSP | 120° | M14 x 1.5 | 60° | None | - | None | - | - |
| 8-290 | 1/4" BSP | 120° | M16 x 1.5 | 60° | None | - | None | - | - |
| 8-291 | 1/4" BSP | 120° | M15 x 1.0 | 0° | None | - | None | - | - |
| 8-292 | M16 x 1.5 | 60° | M16 x 1.5 | 60° | None | - | None | - | - |
| 8-293 | 1/2" BSP | 60° | None | - | None | - | None | - | - |
| 8-294 | M16 x 1.5 | 60° | 9/16-18 UNF | 60° | M16 x 1.5 | 60° | None | - | - |
| 8-295 | M16 x 1.5 | 60° | 9/16-18 UNF | 60° | None | - | None | - | - |
| 8-296 | M20 x 1.5 | 60° | None | - | None | - | None | - | - |
| 8-297 | 1/4" BSP | 120° | 9/16-18 UNF | 60° | M14 x 1.5 | 60° | None | - | - |
| 8-298 | 1/4" BSP | 120° | 9/16-18 UNF | 60° | M16 x 1.5 | 60° | None | - | - |
| 8-299 | 3/4-16 UNF | 60° | None | - | None | - | None | - | - |
| 8-300 | M22 x 1.5 | 60° | None | - | None | - | None | - | - |
| 8-320 | M22 x 1.5 | 60° | M22 x 1.5 | 60° | None | - | None | - | - |
| 8-321 | 1/4" BSP | 120° | 1/4" BSP | 120° | None | - | None | - | - |
| 8-322 | M22 x 1.5 | 60° | 9/16-18 UNF | 60° | M22 x 1.5 | 60° | None | - | - |
| 8-323 | 1/4" BSP | 120° | 9/16-18 UNF | 60° | 1/2"-20 UNF | 60° | None | - | - |
| 8-324 | M22 x 1.5 | 60° | 9/16-18 UNF | 60° | None | - | None | - | - |
| 8-325 | 1/4" BSP | 120° | None | - | 9/16-18 UNF | 60° | 9/16-18 UNF | 60° | - |

▲ **Fluids and materials**

Please [see General Specifications](#).

▲ **Ordering a HC8**

Ordering example of a HC8 with $i = 13.0$,
DV incorporated and BSP connections: HC8 - 13.0 - B - 1

Please note!

High pressure plate ordering code - [see table](#)
Other high pressure connections on request.



| Model | Intensification, i | Dump Valve | Connections |
|--------------|--|--|---------------------------------|
| HC8 | — your selection... — see flow rate table | — your selection... — A = (no) / A model B = (yes) / B model G = (proportional) / G model | — your selection... — 1 2 |