

# HC3- PVG32 miniBOOSTER



**HC3 - PVG32 versions:** 11 different intensification factors

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

$P_H$ : 800 bar maximum (outlet pressure)

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

$P_{OUTLET}$ :  $P_H = (P_{IN} - P_{Return}) i$  (intensification)

**Mounting:** PVG32; PVB, basic valve: 157B6849  
Spool: 157B7000

**Accessories:** Pilot- operated dump valve incorporated

**B model** = with dump valve

Material certificate on request.

## Description

The HC3- PVG32 is a compact unit weighing only 4.0 kg. It is ideal for use in a variety of applications where building and maintaining high pressure is required. The HC3- PVG32 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.

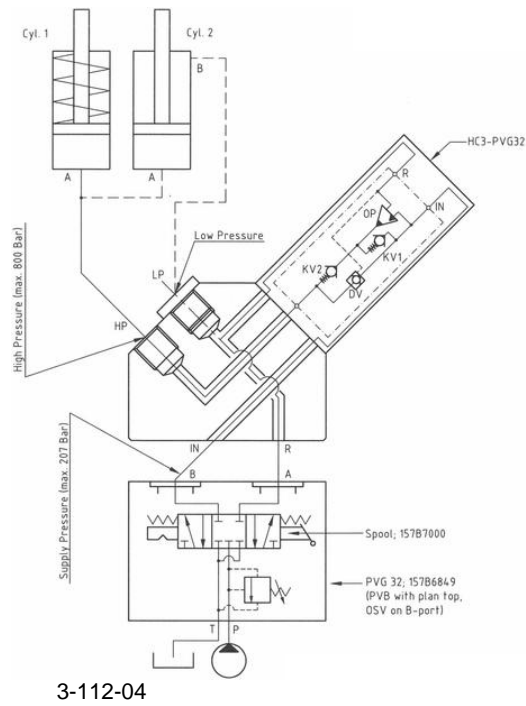
## Flow rates


Intensification factor $i$	Max. outlet flow l/ min	Max. inlet flow l/ min
1.2	1.2	8.0
1.5	1.0	8.0
2.0	2.0	12.0
2.8	2.2	13.0
3.2	2.5	15.0
4.0	2.0	14.0
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

## Functions


The basic operation is illustrated in the function diagram. The oil is fed through the proportional valve PVG32 to the P- port in the HC3- PVG32 flowing freely through check valves KV1, KV2 and DV to the high- pressure side HP. In this condition maximum flow through the booster is achieved giving a fast- forward function. When pump pressure is reached on the high- pressure side HP, valves KV1, KV2 and DV will close. The end pressure will be achieved by the oscillating pump unit OP. The unit will automatically stall when end pressure on the high- pressure side is reached. If a pressure drop on the high- pressure side exists due to consumption or leakage, the OP valve will automatically operate to maintain the end pressure.

## Function diagram



 Function diagram 3-112-04

## Dimensions

 Dimension drawing 3-126-04

## Fluids and materials

Please see: General specifications

## Ordering an HC3- PVG32

Ordering example of an HC3 - PVG32 with  $i = 4.0$ , DV incorporated: HC3 - 4.0 - B - PVG32

Model		Intensification, $i$		Dump valve		Connection
HC3	-	your selection... see flow rate table	-	B B = (yes) / B- model	-	PVG32