

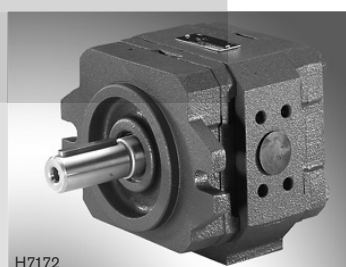
Internal gear pump, fixed displacement

RE 10223/10.05
Replaces: 03.05

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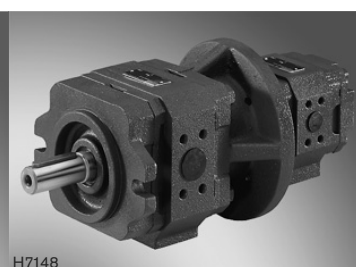
Type PGH

Frame sizes 2, 3, 4 and 5
Component series: 2X
Maximum operating pressure 350 bar
Maximum displacement 250 cm³



H7172

Type PGH... with SAE 2-hole mounting flange



H7148

Double pump type PGH4 + PGH3

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Features

- Fixed displacement
- Low operating noise
- Low flow pulsation
- High efficiency even at low speed and viscosity due to sealing gap compensation
- Suitable for wide viscosity and speed ranges
- All frame sizes and nominal sizes can freely combined with each other
- Can be combined with PGF internal gear pumps, vane pumps and axial piston pumps
- Suitable for operation with HFC fluids (seal version "W")

Information on available spare parts:
www.boschrexroth.com/spc

Ordering code

PG		H	-2X/							*
Series			Further details in clear text							
High pressure pump			= H							
Frame size			Mounting flange centring							
FS2			U2 = SAE 2-hole mounting flange							
FS3			E4 = ¹⁾ ISO 4-hole mounting flange to							
FS4			ISO 3019/2 and							
FS5			VDMA 24560 part 1							
Component series: Component series 20 to 29			Seal material							
(20 to 29: unchanged installation and connection dimensions)			V = FKM seals							
			W = ²⁾ Shaft seal ring made of NBR (other seals made of FKM)							
Size			Suction and pressure port to SAE ³⁾							
Size			Displacement/revolution							
FS2			07 = Pressure port for standard pressure series							
6.3			11 = Pressure port for high pressure series							
8.0			Shaft version							
FS3			E = Cylindrical							
13			R = SAE involute splined shaft							
16			Direction of rotation (viewed to shaft end)							
FS4			R = Clockwise							
20			L = Counter-clockwise							
25										
32										
40										
50										
63										
80										
100										
FS5										
63										
80										
100										
125										
160										
200										
250										

Order example: PGH4-2X/032RE11VU2

Material number: R900932141

Not all variants according to the type code are possible!
Please select the desired pump on the basis of the selection table (pages 12 to 17) or consult Bosch Rexroth.

¹⁾ Only in conjunction with cylindrical shaft (to VDMA), frame sizes 4 and 5 only, clockwise rotation only

²⁾ FS4 and FS5 only for operation with HFC fluid

³⁾ A type of connection **07** or **11** is determined for each size:

07: PGH2-2X/005/006/008...

PGH3-2X/011/013/016...

PGH4-2X/063/080/100...

PGH5-2X/160/200/250...

11: PGH4-2X/020/025/032/040/050...

PGH5-2X/063/080/100/125...

The suction ports are standard pressure series ports (for the dimensions, see page 17).

Multiple pumps

All internal gear pumps of type PGH can be combined; each pump is provided with an output spline. The combination op-

tions and the material numbers of the required combination parts can be found in the following table.

Front pump Rear pump	Material no.			
	PGH2-2X	PGH3-2X	PGH4-2X	PGH5-2X
PGH2-2X/..R	R900886137	R900886137	R900984745	R900984739
PGH3-2X/..R	R900886137	R900886137	R900984745	R900984739
PGH4-2X/..R	–	–	R900984748	R900088542
PGH5-2X/..R	–	–	–	R900088544
PGP2-2X/..J	R900886137	R900886137	R900984745	R900984739
PGP3-3X/..J	–	–	R900088547	R900088541
PGF2-2X/..J	R900886137	R900886137	R900984745	R900984739
PGF3-3X/..J	–	–	R900088547	R900088541
PVV/Q1-1X/..J	–	–	R900088547	R900088541
PVV/Q2-1X/..J	–	–	R900088547	R900088541
PVV/Q4-1X/..J	–	–	–	R900088543
PVV/Q5-1X/..J	–	–	–	R900088543
AZPF..R	R900886137	R900886137	R900984745	R900984739
A10VSO10..U	R900886137	R900886137	R900984745	R900984739
A10VSO18..U	R900886137	R900886137	R900984745	R900984739
A10VO28..S	–	–	R900088547	R900088541
A10VO45..S	–	–	R900984748	R900088542
A10VO71..S	–	–	–	R900088543
A10VO100..S	–	–	–	R900088544
PR4-1X...WA	R901015657	R901015657	–	–

Ordering code

Double = P2
Triple = P3

Series of 1st pump ¹⁾

Size of 1st pump ¹⁾

Series of 2nd pump ¹⁾

Size of 2nd pump ¹⁾

Series of 3rd pump ¹⁾

Size of 3rd pump ¹⁾

Direction of rotation (viewed to shaft end)

Clockwise

= R

Counter-clockwise

= L

Shaft version of 1st pump

Cylindrical

= E

SAE involute splined shaft

= R

Line port of 1st pump

Pressure port of standard pressure series

= 07

Pressure port of high pressure series

= 11

Mounting flange of
1st pump

U2 = ²⁾ SAE 2-hole
mounting flange

E4 = ³⁾ ISO 4-hole
mounting flange
to ISO 3019/2 and
VDMA 24560 part 1

Line connection of 3rd
pump

07 = Pressure port of stan-
dard pressure series

11 = Pressure port of high
pressure series

Shaft version of 3rd pump ⁴⁾

J, R, S, U = SAE involute splined
shaft

Line connection of 2nd pump

07 = Pressure port of standard pressure series

11 = Pressure port of high pressure series

Shaft version of 2nd pump ⁴⁾

J, R, S, U = SAE involute splined shaft

¹⁾ for details, see ordering code on page 2

²⁾ in conjunction with cylindrical and splined shaft

³⁾ only in conjunction with cylindrical shaft (to VDMA);
FS4 and FS5 only, clockwise rotation only

⁴⁾ see table above

Order example

P3GH5/160+GH3/016+GH2/008RE07+R07+R07U2