

1. HIGH PRESSURE - HPX MODELS

These pumps are mainly applied in special applications where high pressure is requested from 600 bar to 1400 bar.

One of the major application field of relevance and prestige is the oil and the chemical one. The pumps are installed on machines named ROV operating electronically sub-sea for pipe scraping, off-shore platform maintenance or refinery plants; besides for the repair and hydro forming of pipes sub-sea, installed in special machinery.

Another relevant application is in the cutting of any material: food, vegetable, fruits, plastic, metals and steels, wood.

MODELS

HPX 812
HPX 810
HPX 808
HPX 1408

TYPES

Base

CHARACTERISTICS

Feeding	in put
Adjustment	adjustable safety valve (not available in the HPX 1408)
Secondary fluid	fresh water, salt water, glycole, chemicals
Water temperature	cold and warm water (up to 70°C)
Oil temperature	max 70 °C
Risk	none, safety valve installed
Construction	brass, aluminium bronze, stainless steel, special gaskets
Plungers material	stainless steel
Dimensions	280x130x115 mm
Weight	18 kg
Inlet and outlet oil nipple	½" BSP F
Inlet water nipple	½" BSP F
Outlet water nipple	SSK-¼" BSP F

ADVANTAGES

- full power and trust
- technologically unbeatable
- provided of safety devices
- easy and practice to use and to connect
- very small dimensions
- oil inlet port available on the body side
- installation in any desired position
- low noise and low vibrations
- running in any environment conditions
- immersion in the water, salt water highly corrosive, sub-sea
- nearly no maintenance required
- no-comparable working life thanks to the oil self lubrication
- for its own nature, anti explosive, anti spark, anti electric shock

HPX PERFORMANCE

MODEL	HPX 812	HPX 810	HPX 808	HPX 1408
Max oil inlet flow at P1 (l/m)	23	23	23	23
Flow ratio factor Q2/Q1	0.3	0.2	0.1	0.05
Max outlet flow at P2 (l/m)	6.9	4.6	2.3	1.15

To calculate the flow, multiply the oil flow by the flow ratio factor (e.g. $23 \times 0,3 = 6,9$)

MODEL	HPX 812	HPX 810	HPX 808	HPX 1408
Max oil inlet pressure (bar)	250	200	130	140
Pressure ratio factor P2/P1	2.8	4	6.3	10
Max outlet pressure (bar)	700	800	819	1400

To calculate the pressure multiply the oil pressure by the pressure ratio factor (e.g. $250 \times 2,8 = 700$)