



extrex⁶ EP

Extra Pressure gear pump solution for thermoplastic applications



Extrusion operations require extremely reliable gear pump systems with high output consistency and a configuration to suit each application. The modular design of extrex[®] gear pumps easily meets the requirements for these diverse applications.

The extrex⁶ EP gear pump is an intermediate pressure solution for applications requiring higher pressure, greater load bearing considerations for low lubricity products. With the new x⁶ class design you have additional benefits compared to the classic gear pump designs. All pumps are available with ST design (flow optimized) and with the 5R design (Retrofit flange design classic pump).

Your Benefits

- + **28 %** more pressure than GP
- + **40 %** more spec. vol. than HP
- + **25 %** more wear resistance
- + **25 %** larger sealing surface

- - **12 %** less energy consumption
- - **40 %** less temperature increase
- - **90 %** less pulsation

Outlet pressure: 440 bar

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| Pump | extrex ⁶ EP |
|-----------------------------|------------------------|
| Throughput (kg/h) | 140 - 12000 |
| Pump size | 25 - 160 |
| Inlet Pressure (bar) | 120 |
| Differential Pressure (bar) | 320 |
| Outlet Pressure (bar) | 440 |

| Application limits | |
|--------------------|------------|
| Viscosity: | 30,000 Pas |
| Temperature: | 350 °C |

| Technical specifications | |
|--------------------------|----------------|
| Housing, cover | Alloy steel |
| Gear shafts | Tool steel |
| Bearings | Tool steel |
| Shaft seals | Alloy steel |
| Pump heating | Electric/fluid |

Pumping media

- Polyolefins
- Polyesters
- Polyamides
- Polycarbonates
- Styrene polymers
- Expandable polystyrene
- ABS/SAN
- Fluor polymers
- TPE
- Other polymers upon request

Options

- Defined tolerance classes
- Wired heating cartridge fully attached to connector
- Liquid heating with interconnection bores
- Pressure/temperature sensor bores in body
- Choice of materials for every application
- Cooling feature for shaft seals
- Special seal types

Accessories

- Adapter flange
- Sensors
- Support carts / base frames
- Drive units
- Control systems
- Complete solutions

| extrex ⁶ EP | | | | classic HP |
|------------------------|------------------|-------------------|-----------|----------------|
| Pump size | Spec. Vol. (ccm) | Throughput (kg/h) | rpm (min) | Ref. pump size |
| 25/25 | 10 | 135 | 325 | - |
| 32/32 | 20 | 238 | 276 | 36 |
| 40/40 | 38 | 402 | 239 | 45 |
| 50/50 | 76 | 693 | 207 | 56 |
| 63/63 | 153 | 1202 | 179 | 70 |
| 80/80 | 308 | 2055 | 152 | 90 |
| 100/100 | 611 | 3578 | 134 | 110 |
| 125/125 | 1210 | 6058 | 114 | 140 |
| 160/160 | 2465 | 10481 | 97 | - |

