



HPR Series



Reliable, fully customized solutions for demanding laboratories

Tennad high-pressure reactors combine safety, reliability, flexibility and ease of use. Each system can be precisely configured for a wide range of process conditions and applications.

APPLICATIONS

- Chemical synthesis
- Catalysis research
- Green chemistry
- Electrochemistry
- Nanotechnology
- Hydrogenation
- Corrosion Tests
- Component Tests
- Screening
- Optimization
- Recycling
- Raw materials
- Solvothermal
- Hydrothermal
- Polymers
- Aging Tests

TECHNICAL DATA

400 bar * **250°C** *

Maximum pressure Maximum temperature

Basic config. : Impeller + Rupture disc + Manometer

*Custom configurations available beyond 400 bar and 250°C

AVAILABLE OPTIONS

- Touchscreen Control
- Temperature sensor
- Digital pressure sensor
- Heater
- Gas inlet
- Sampling port

Configure your Pressure Reactors

Select the reactor volume, pressure rating, materials and instrumentation required for your laboratory workflow.

Tennad HPR series

The Tennad HPR series is designed for safe, efficient and reliable laboratory use.

Its configurable architecture supports routine research, analytical workflows and scientific teaching applications, with operation up to 400 bar and 250 °C*.

REFERENCE EXAMPLE

HPR - R0500 - T200 - P030 - Z702 - PT1 - M63 - G2 - E2 - V7 - V1 - H1 - I1 - T1

HPR -												
Series												
R0500	T200	P030	Z702	PT1	M63	G2	E2	V7	V1	H1	I1	T1
Reactor Volume	Reactor Temperature	Reactor Pressure	Reactor Material	Temperature sensor	Pressure	Gas Inlet	Gas outlet	Sample loop	Sample loop volume	Heater	Impeller	Touchscreen Control
R0100 : 95ml R0200 : 200ml R0300 : 300ml R0400 : 400ml R0500 : 500ml R1000 : 1L R1500 : 1.5L R2000 : 2L*	T050 : 50°C T100 : 100°C T150 : 150°C T200 : 200°C* T250 : 250°C	P010 : 10 bar P020 : 20 bar P030 : 30 bar P050 : 50 bar P100 : 100 bar P200 : 200 bar P250 : 250 bar P300 : 300 bar P350 : 350 bar P400 : 400 bar*	S316 : Stainless S316 H276 : Hastelloy 276 A400 : Alloy 400 N200 : Nickel 200 N201 : Nickel 201 Moly : Molybdenum Z702 : Zirconium 702 T520 : Tantalum R05200 T040 : Titanium Grade 2 (T40) TA6V : Titanium Grade 5 (Ti-6Al-4V)	PT1 : PT100 PT0 : Without**	Manometer (S316) M40 : Ø40mm M50 : Ø50mm M63 : Ø63mm P1 : Digital pressure sensor M00 : Without**	G1 : S316 Inlet G2 : Hastelloy 276 G7 : Zirconium 702 G0 : Without	E1 : S316 Event E2 : Hastelloy 276 E7 : Zirconium 702 E0 : Without	V6 : S316 Valve V2 : Hastelloy 276 V7 : Zirconium 702	V1 : 1.00 mL V2 : 1.50 mL V3 : 2.00 mL* V0 : Without sample vessel	H1 : Heater H0 : Without	I1 : Propeller I2 : Flat-blade turbine I3 : Anchor impeller	T1 : APX70 T0 : Without

** "Without" : delivered with S316 plug delivered with S316 plug

*Other volume, pressure, temperature, and material configurations are available upon request