

KDDPA Portable High Pressure Power Packs are designed for maximum pressure up to 665 bars at 7 bar air pressure. Whether intended to be used as a mobile unit or installed in a permanent position the Portable Power Pack has been developed to provide a ready to use pressure testing rig. Easy to use, powered by any fixed or portable compressed air source to 8 bar for static pressure testing and burst tests.

Our robust systems are made in stainless steel as a standard and can be used in indoor and outdoor pressure tests.



KDDPA High Pressure Systems advantages:

- Precise pressure regulation by pneumatic high sensitive air pressure regulator with high flow rate.
- Easy to use. Air and water connection on the left side, high pressure connection on the right side.
- Robust, compact design with carrying handles, low noise emission.
- ATEX II, Cat 2, GD T5 approval (pump only)
- Available with or without a liquid reservoir
- Maintenance free (only the lubricator has to be filled with pneumatic oil)
- Wetted parts and housing made in stainless steel (AISI 316, housing AISI 304)
- Eight ratios ranging from 14 bar to 665 bar, volume outputs from 0.6 to 14 litres/minute
- Pump seal material silicone rubber; viton as option.
- 10µ Water filter as a standard.
- Automatic stall against closed outlet with no air consumption, automatic restart.
- Hydraulic pressure continuously variable by regulating the air pressure.

The Pressure Test Power Packs are fitted with the following components as a standard:

- High quality, efficient FRL unit for low pressure losses, including lubricator and gauge
- High sensitive air pressure regulator with high flow rate including gauge
- Air ball valve
- Water filter 1/2" including 10µ filter element
- Water hose quick connector
- High pressure stainless steel gauge 100 mm diameter filled with glycerine
- High precision stainless steel needle valve for pressure release
- High pressure block made in AISI 316 stainless steel



Modular Options

- Electronic pressure transducer 0-10V or 4-20 mA with display (version 1EL) including 5 m cable
- Optional Electronic proportional regulator (version 2EL) including 5 m cable
- Automatic pressure release with 2/2 directional valve
- Liquid reservoir including float valve and return filter
- Ball valve or directional valve for water cut off
- Emergency Stop with pneumatic quick pressure release
- Low air pressure running PTMR pump available with lower starting pressure
- Big pump PTM with double flow rate
- Pressure transducer in water supply pipework
- Water by-pass for high speed filling of test specimen
- Duo-power-pack with two pumps and desk housing
- Hoses, fittings and adapters
- Venting valve for test specimen
- Pulsation damper
- Version for pumping hydraulic oil



Simple to operate:

- 1. Connect air supply.
- 2. Connect liquid supply if no reservoir.
- 3. Connect to test specimen.
- 4. Perform Pressure Test.
- 5. Release pressure.
- 6. End of Test.





The KDDPA modular system:

Part Number	Pump	Size of Water Filter 10µ	Water inlet Pressure Transducer	Manuel high sensitive air pressure regulator	Electronic high sensitive pressure regulator	Size of FRL unit	High pressure distributor	Gauge 100 mm diameter	High Pressure Transducer 4-20 mA	Reservoir 25 – 50 litres	Pressure release needle valve
KDDPA01-PTJ	PTJ	5"	×	✓	×	3/8"	✓	✓	×	×	✓
KDDPA01-1EL-PTJ	PTJ	5"	×	✓	×	3/8"	✓	✓	✓	×	✓
KDDPA01-2EL-PTJ	PTJ	5"	×	×	✓	1/2"	✓	✓	✓	×	✓
KDDPA01-PTJR	PTJR	5"	×	✓	×	1/2"	✓	✓	×	×	✓
KDDPA01-1EL-PTJR	PTJR	5"	×	✓	×	1/2"	✓	✓	✓	×	✓
KDDPA01-2EL-PTJR	PTJR	5"	×	×	✓	1/2"	✓	✓	✓	×	✓
KDDPA02-PTJ	PTJ	5"	×	✓	×	3/8"	✓	✓	×	✓	✓
KDDPA02-1EL-PTJ	PTJ	5"	×	✓	×	3/8"	✓	✓	✓	✓	✓
KDDPA02-2EL-PTJ	PTJ	5"	×	×	✓	1/2"	✓	✓	✓	✓	✓
KDDPA02-PTJR	PTJR	5"	×	✓	×	1/2"	✓	✓	×	✓	✓
KDDPA02-1EL-PTJR	PTJR	5"	×	✓	×	1/2"	✓	✓	✓	✓	✓
KDDPA02-2EL-PTJR	PTJR	5"	×	×	✓	1/2"	✓	✓	✓	✓	✓
KDDPA03-PTM	PTM	5"	x	✓	x	1/2"	✓	✓	×	×	✓
KDDPA03-1EL-PTM	PTM	5"	×	✓	×	1/2"	✓	✓	✓	×	✓
KDDPA03-2EL-PTM	PTM	5"	×	×	✓	1/2"	✓	✓	✓	×	✓
KDDPA04-PTM	PTM	5"	×	✓	×	1/2"	✓	✓	×	✓	✓
KDDPA04-1EL-PTM	PTM	5"	×	✓	×	1/2"	✓	✓	✓	✓	✓
KDDPA04-2EL-PTM	PTM	5"	×	×	✓	1/2"	✓	✓	✓	✓	✓
KDDPA05-PTJ	PTJ	10"	×	✓	×	3/8"	×	×	×	×	×
KDDPA05-3EL-PTJ	PTJ	10"	×	×	✓	1/2"	×	×	×	×	×
KDDPA05-4EL-PTJ	PTJ	10"	✓	×	✓	1/2"	×	×	×	×	×
KDDPA05-4EL-PTJR	PTJR	10"	✓	×	✓	1/2"	×	×	×	×	×



Applications:

PRESSURE TESTING: Static and burst testing of hoses, valves, tubing, testing of fire extinguishers, gas bottles, pressure vessels, hydraulic circuits and components, aircraft and automobile braking systems, pipeline testing, wellheads.

GENERAL HYDRAULICS: Power source for hydraulic rams and cylinders, scissor lifts, jacks, hydraulic presses, clamping systems, bolt cutters, bolt tensioners, axle lifts, ramps, mobile power supplies.

PROCESS INDUSTRY: Isostatic presses, component life tests, chemical injection, etching machines, spraying equipment, lamination processes, and impregnation machines.

CONSTRUCTION AND MINING: Grit blasting equipment, rock breakers, pressure cutters/washers, rock drills, injection equipment.

Technical Data

Part Number	Ratio	Air Inlet Pressure Pump bar	Minimum hydraulic Pressure	Maximum hydraulic Pressure	Displacement cc / Stroke	Max.flow rate	Hydraulic conection
KDDPAxx-PTJ14A	2,2:1	7	2,8	14	48	10,0	1/2" BSP
KDDPAxx-PTJ29A	4,4:1	7	5,5	29	48	14,0	1/2" BSP
KDDPAxx-PTJ73A	11:1	7	14	73	19	5,0	1/2" BSP
KDDPAxx-PTJ126A	19:1	7	26	126	10	3,2	1/2" BSP
KDDPAxx-PTJ185A	28:1	7	35	185	7,5	2,4	1/2" BSP
KDDPAxx-PTJ290A	45:1	7	54	290	4,5	1,4	1/2" BSP
KDDPAxx-PTJ465A	70:1	7	87	465	3,0	0,9	1/2" BSP
KDDPAxx-PTJ665A	100:1	7	124	655	2,1	0,6	1/2" BSP
KDDPAxx-PTJR14A	2,2:1	7	0,8	14	48	10,0	1/2" BSP
KDDPAxx-PTJR29A	4,4:1	7	1,7	29	48	14,0	1/2" BSP
KDDPAxx-PTJR73A	11:1	7	4,3	73	19	5,0	1/2" BSP
KDDPAxx-PTJR126A	19:1	7	7,5	126	10	3,2	1/2" BSP
KDDPAxx-PTJR185A	28:1	7	11	185	7,5	2,4	1/2" BSP
KDDPAxx-PTJR290A	45:1	7	17	290	4,5	1,4	1/2" BSP
KDDPAxx-PTJR465A	70:1	7	27	465	3,0	0,9	1/2" BSP
KDDPAxx-PTJ665A	100:1	7	38	655	2,1	0,6	1/2" BSP

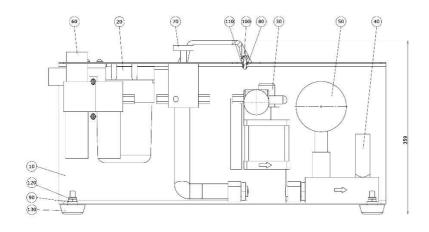
Ambient temperature -2 to 60° C, Pump air consumption 0.5 m³/min, lubricated air, Setting of the lubricator 0.5 drops per minute

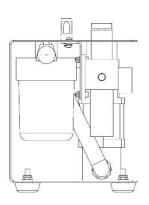


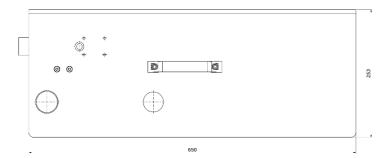
KDDPA

Portable High Pressure Power Pack

Dimensions mm (Version KDDPA01-PTJ)





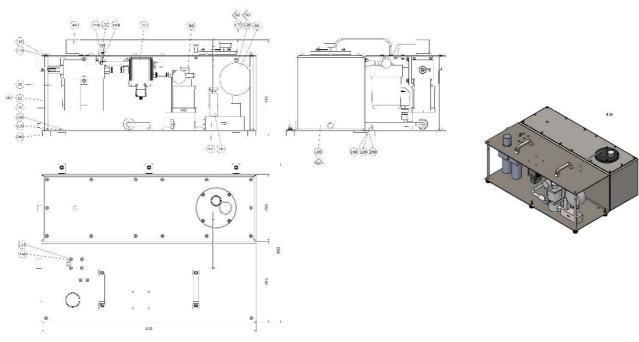


Bill of materials (Version KDDPA01-PTJ)

Nr.	Description	QTY	Туре	Material
10	Housing	1	KDDPA01-001	AISI 304
20	Water Filter	1	RF008	Plastic
30	High Pressure Pumpe	1	PTJ	AISI 316 (wetted parts)
40	High Pressure Distributor	1	PTJ-hyd-assy.no gauge	AISI 316
50	High Pressure Gauge	1	M100	AISI 316 (wetted parts)
60	FTL Unit	1	3/8"	
70	High sensitive air pressure regulator	1	HDFR1/4	



Dimensions mm (Version KDDPA02-2EL-PTJ)



Bill of materials (Version KDDPA02-2EL-PTJ)

Nr.	Description	QTY	Туре	Material	
10	Housing	1	KDDPA01-001	AISI 304	
20	Struts	2		AISI 304	
30	Water Filter	1	RF008	Plastic	
40	FTL Unit	1			
50	Electronic proportional regulator	1	1/2"		
60	High Pressure Pumpe	1	PTJ	AISI 316 (wetted parts)	
70	High Pressure Distributor	1	PTJ-hyd-assy.no gauge	AISI 316	
80	Pressure Transducer	1		AISI 316 (wetted parts)	
90	High Pressure Gauge	1	M100	AISI 316 (wetted parts)	
100	Tank	1		AISI 316	



Hydraulic Circuit

