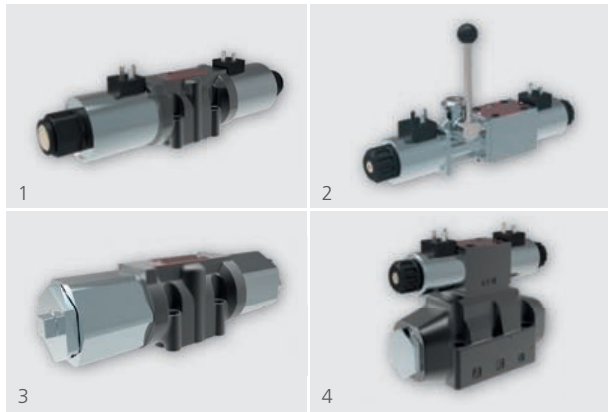


## Directional Control Valves

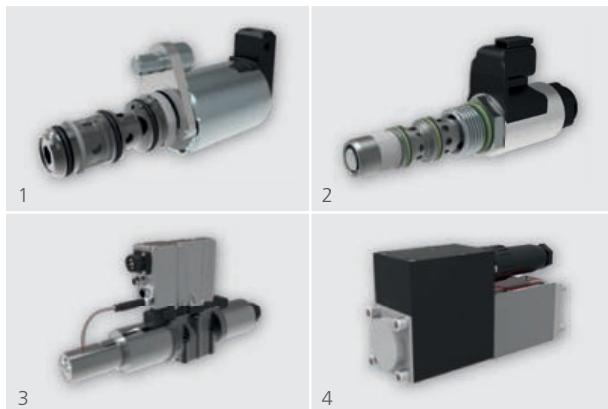


1 RPE4-10; 2 RPER3-06; 3 RPH1-10; 4 RNEH5-16

### Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 350/420 bar (5100/6100 psi)
- › Nominal size: CETOP 02, 03, 05, 07, 08
- › Voltage: 12, 14, 24, 27, 48, 205 V DC  
24, 120, 230 V AC (50/60Hz)
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › UL, CSA certification
- › Special variants on request

## Proportional Valves

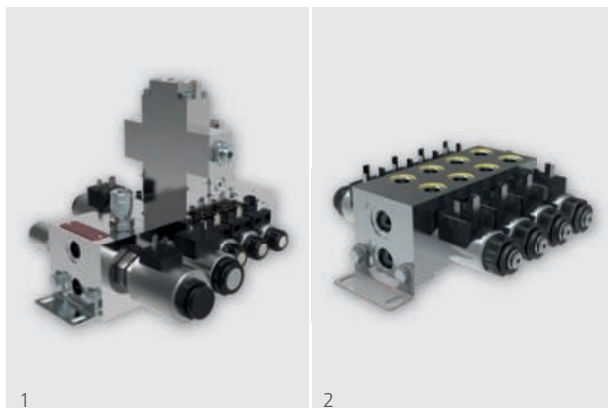


1 PP2P3-W3; 2 SP4P1-B4; 3 PRM9-10; 4 PRL2-06

### Features

- › Nominal flow rate: up to 140 l/min (37 gpm)
- › Operating pressure: up to 350 bar (5100 psi)
- › Function: pressure relief/reducing and flow control
- › Type: CETOP, screw-in and slip-in cartridge
- › Voltage: 12, 14, 24, 27, 48, 205 V DC  
24, 120, 230 V AC (50/60Hz)
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › CANopen connectivity possible / digital or analog on-board electronics / special variants on request

## Valves in Sandwich Plate Design

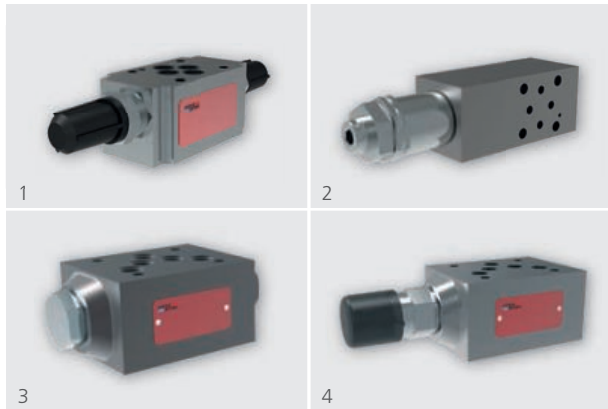


1 System Solutions; 2 RPEK

### Features

- › Nominal flow rate: up to 20 l/min (5 gpm) - per section
- › Operating pressure: up to 250 bar (3600 psi)
- › Port sizes: G $\frac{1}{4}$ , SAE6
- › Voltage: 12, 14, 24, 27 V DC
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › Compact design, modular and space saving solution
- › Special variants on request

## Modular Valves: CETOP

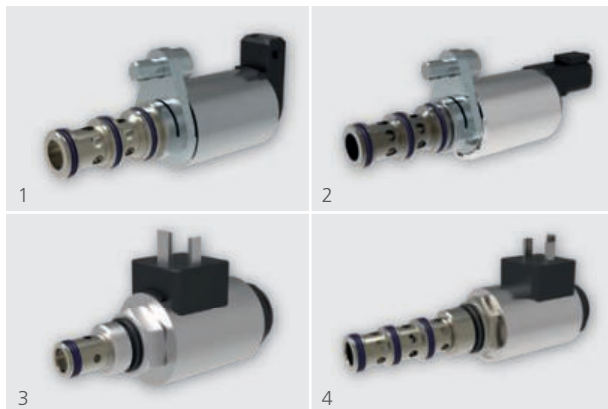


1 2VS3-06; 2 VPP2-04; 3 VRJ3-10; 4 VSO3-10

### Features

- › Nominal flow rate: up to 100 l/min (26 gpm)
  - › Operating pressure: up to 350 bar (5100 psi)
  - › Nominal size: CETOP 02, 03, 05
  - › Function: pressure relief/reducing, check and flow control
- 
- › Surface protection (ISO 9227): up to 520 h
  - › Various adjusting options

## Screw-in Directional Valves



1 PD2E-W3; 2 PD2E-W3A; 3 SD2E-A2; 4 SD2E-B4

### Features

- › Nominal flow rate: up to 150 l/min (40 gpm)
- › Operating pressure: up to 420 bar (6100 psi)
- › Type: screw-in and slip-in cartridge
- › Voltage: 12, 14, 24, 27 V DC
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h

## Pressure, Flow, Check and Motion Control Valves

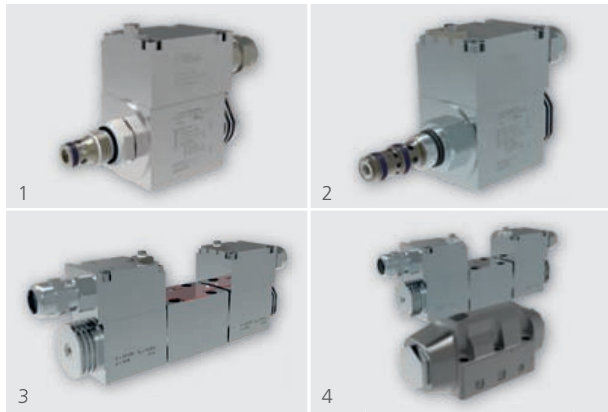


1 SD2H-LA3; 2 SO5A-BP3; 3 SP4A-B3; 4 SR1A-B2

### Features

- › Nominal flow rate: up to 150 l/min (40 gpm)
  - › Operating pressure: up to 350/420 bar (5100/6100 psi)
  - › Function: pressure relief/reducing and flow control, check and motion control
- 
- › Surface protection (ISO 9227): up to 520 h
  - › Various adjusting options

## Explosion Proof Valves

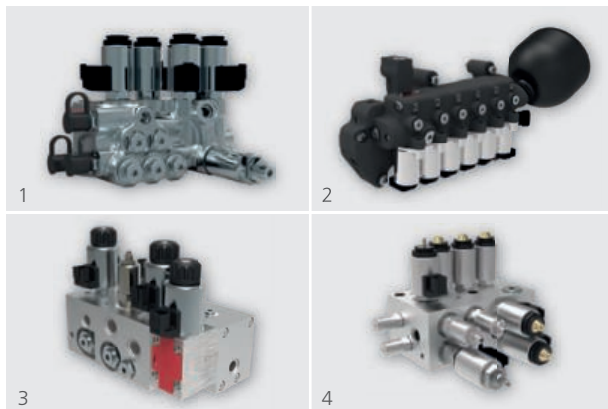


1 SD1EX-A2; 2 SD1EX-A3; 3 RPEX3-06; 4 RNEXH5-16

### Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 350 bar (5100 psi)
- › Type: CETOP and screw-in cartridge
- › Function: directional, proportional, flow and pressure control valve
- › Voltage: 12, 24, 48, 110 V DC  
110, 230 V AC (50/60Hz)
- › Acc. to directive ATEX 34/2014/EC
- › Temperature class: T4, T5, T6
- › Group: I, II (mining, dust and gas)
- › Various manual overrides

## Hydraulic Integrated Circuits

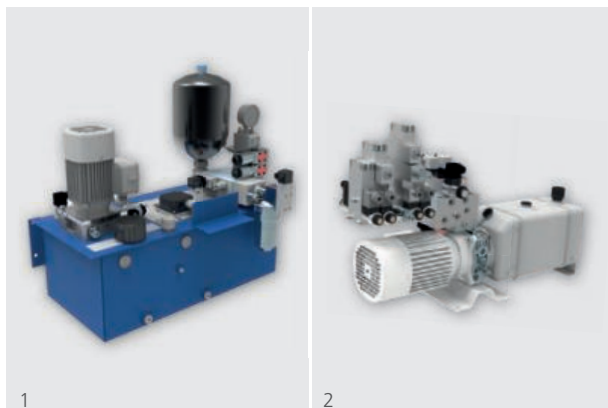


System Solution Blocks

### Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 420 bar (6100 psi)
- › Customized systems and subsystems
- › Best solution and efficiency oriented design
- › Surface protection (ISO 9227): up to 520 h

## Hydraulic Power Units

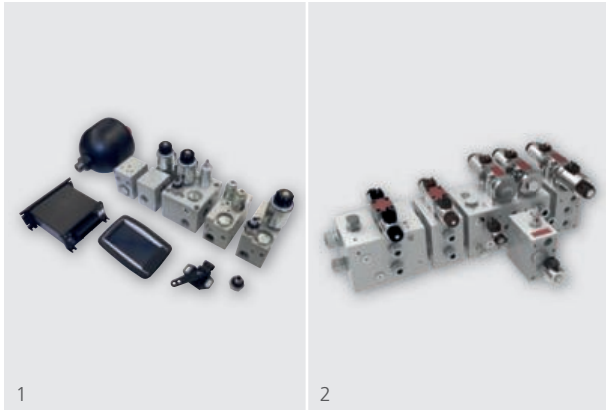


1 Power Pack; 2 SMA 05 Power Pack

### Features

- › Nominal flow rate: up to 50 l/min (13 gpm)
- › Operating pressure: up to 250 bar (3600 psi)
- › Tank capacity: up to 250 liters (66 gallons)
- › Electric Motor Types: 1~110 V (50/60 Hz)  
1~230 V (50/60 Hz)  
3~400/460 V (50/60 Hz)  
12/24 V DC
- › Special variants on request

## Application Solutions with Controls



1 MHPS; 2 Modular Load Sensing System

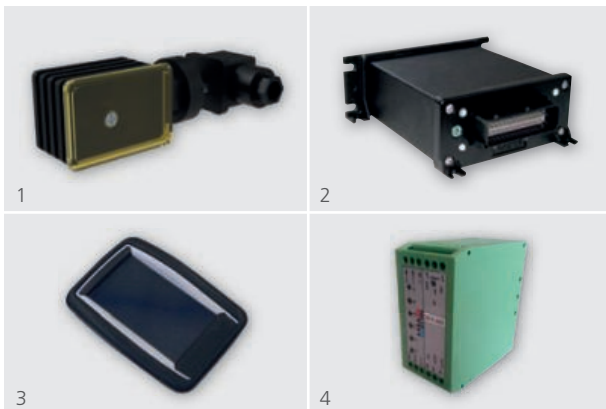
### Modular Hydro-Pneumatic Suspension System (MHPS)

- › Improving suspension performance
- › Easy and fast adaptation to application
- › Electronic control unit, touch display and accumulators

### Modular Load Sensing System

- › Designed for the complex and variable demands of mobile hydraulics needs
- › Standard modules easily adaptable to specific applications
- › Load sensing control of each working section

## Electronic Controllers



1 EL6; 2 ECU; 3 TD; 4 EL3

### Features

- › Amplifier for direct assembly on the valves
- › Digital or analog amplifier electronics
- › Plug-in or rail mounting amplifiers
- › Easy-to-use adjustments
- › User friendly software

## Hydraulic Drives

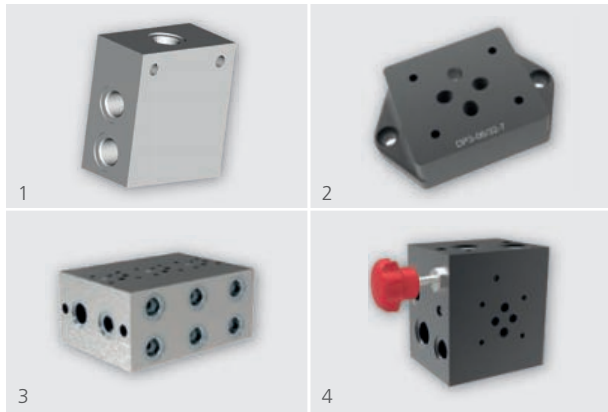


1 GP2L; 2 GP3

### Features

- › Displacement: up to 0.18-100 cm<sup>3</sup>/rev (cc/rev)
- › Operating pressure: up to 320 bar (5100 psi)
- › International standard flanges acc. to SAE, ISO, DIN, GOST
- › High quality aluminum alloys
- › High volumetric efficiency up to 98%
- › Lifetime 3000 working hours

## Connecting Plates, Manifolds

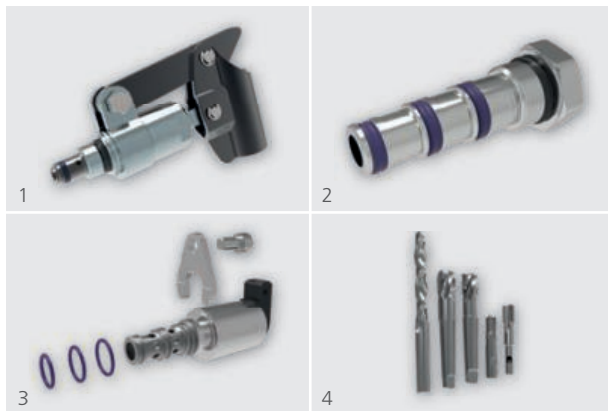


1 SB; 2 DP; 3 PD; 4 ZB

### Features

- › Operating pressure: up to 320 bar (5100 psi)
- › Base plates
- › Serial plates
- › Sandwich plates
- › Sub-plates
- › Blanking plates
- › Surface protection (ISO 9227): up to 520 h

## Accessories



1 RCS; 2 SCP; 3 SP; 4 SMT

### Features

- › Hand pumps
- › Cavity plugs
- › Spare parts
- › Stud and nut kits for vertical stacking assemblies
- › Cavity Form Tools
- › Surface protection (ISO 9227): up to 520 h

## Pressure Switches and Transducers



1 PSCD; 2 TSE1; 3 TS4; 4 TSE2-D

### Features

- › Mechanical and electrical
- › Precise set point adjustment
- › Basic flange type expandable using connecting or modular plate
- › UL, CSA certification