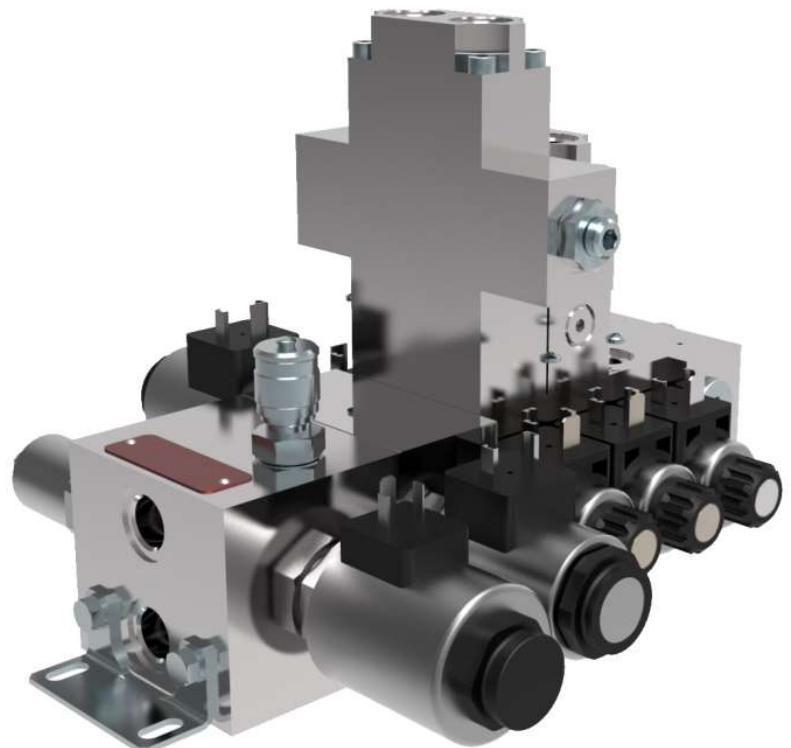
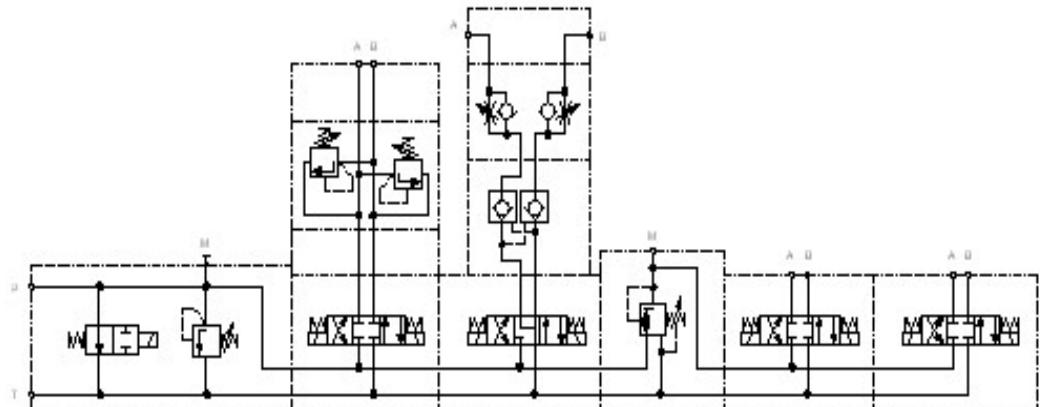


## Bankable System Mini / NG03 RPEK/B

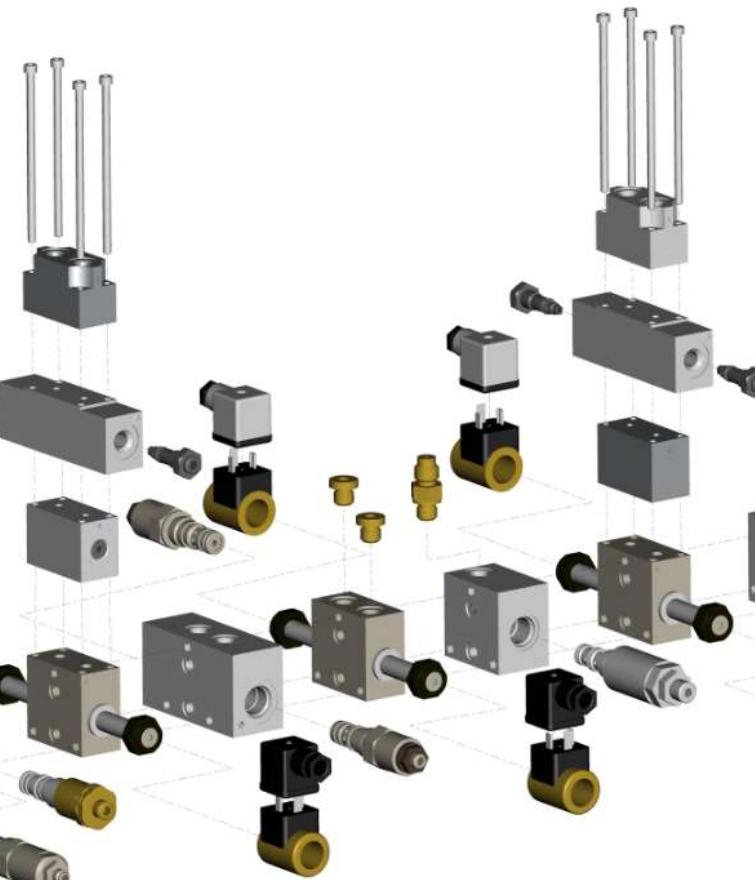
### ADVANTAGES

- › Money and space saving concept
- › No need for Bar Manifold
- › Use in connection with Manifolds
- › Use with Power packs SMA05 or separately
- › Plates RPEK available for ARGO-HYTOS SIC Model codes and CETOP valves
- › Mobile connectors available as DIN, AMP, DT04



Inlet Flow 60 lpm - Section Flow 20 lpm  
**RPEK1-03 and RPEK1-03/B**

## Bankable System Mini / NG03 RPEK/B

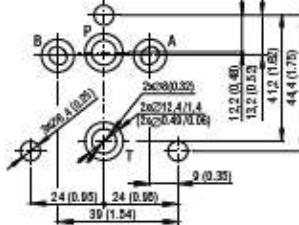


## Bankable modular valve assembly

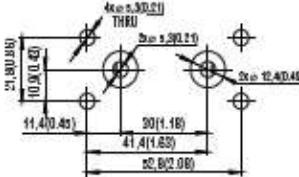
## RPEK1-03/B

Size 03 •  $Q_{min}$  20 l/min (5 GPM) per section,  $Q_{max}$  60 l/min (16 GPM) total inlet •  $p_{max}$  250 bar (3600 PSI)

Connection plate diagram for horizontal integration



Connection plate diagram for vertical integration



## Technical Data

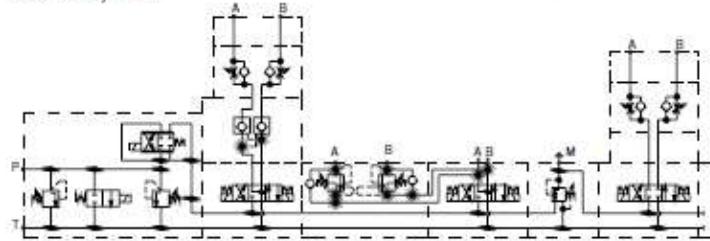
| Nominal size  | size 03     |   |
|---|-------------|---|
| Max. pressure   | bar (PSI)   | 250 (3630)                                  |
| Max. flow channel P, T  | l/min (GPM) | 60 (15.9)                                   |
| Max. flow 1 section directional control valve                   | l/min (GPM) | 20 (5.3)                                    |
| Max. no. of integrated plates (horizontal)                      |             | 8 (end inlet), 16 (center inlet)            |
| Fluid temperature (NBR)   | °C (°F)     | -30 ... +80 (+100) [-22 ... +176 (+212)]    |
| Fluid temperature (FPM)   | °C (°F)     | -20 ... +80 (+120) [-4 ... +176 (+248)]     |
| Max. ambient temperature  | °C (°F)     | +50 (+122)                                  |
| Solenoid control voltage  | V DC        | 12, 24                                      |
| The fluid value in brackets applies to valves without solenoids |             |   |
| General information   | Datasheet   | Type  |
|   | GI 0050     | Products and operating conditions           |
| Sectional directional control valve RPEK1-03                    | HA 4027     | Product description and features            |
| Pilot operated check valve VJRS-03/M                            | HA 5027     | Product description and features            |
| Mounting interface  | SMT 0019    | Size 03, Directional control valve RPEK1-03 |
| Valve chambers  | SMT 0019    | A2 (C-B-2), A3 (C-B-3), QC2, Q3             |
| Spare parts   | SP 8010     |   |

## Content

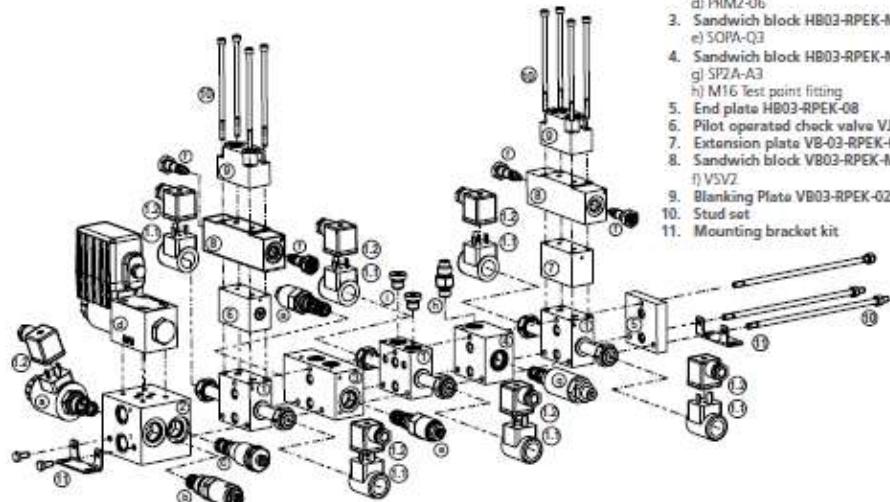
| Content  | Page    |
|--|---------|
| Example of block kits  | 2       |
| Sectional directional control valve RPEK1-03 (catalog HA 4027) | 3 - 6   |
| Inlet block and plate, end plate                               | 7 - 13  |
| Block with valve for horizontal integration                    | 14 - 19 |
| Block with valve for vertical integration                      | 20 - 26 |
| Pilot operated check valve VJRS-03/M (catalog HA 5027)         | 21 - 22 |

## Example modular block

The modular assembly shown below is connected to the hydraulic circuit via P, T ports in the inlet block HBO3-RPEK-MZ (on the left side). The inlet block is provided with four built-in valves. The pressure relief valve protects the entire assembly and connected actuators from pressure overload. The unloading valve allows full flow bypass when actuators are stopped. The single solenoid operated proportional directional control valve enables smooth flow regulation throughout the entire modular assembly. The three-way pressure compensator maintains a constant pressure drop on the control edges of proportional valve and makes the flow regulation independent of the load change. The modular assembly has three circuits (sections) for operation of three actuators, consisting of 5 modular blocks. The directional control valve RPEK1-03 is a basic part of each circuit and enables a control of moving direction. In the first circuit two valves are vertically integrated. The pilot operated check valve assures a position of the loaded actuator at disconnected pressure source. The double throttle valve with bypass check valve enables a flow adjusting independently in channels A and B. In the second circuit the horizontally integrated overcenter valve enables safety motion control of a negative acting load. In the third circuit the preconnected pressure reducing valve maintains the constant pressure. The double throttle valve with bypass check valve enables a flow adjusting. The output work ports A, B for connecting to actuators are on the upper surface of the blocks. The modular assembly is closed (on the right side) with end plate HBO-RPEK-08 or RPEK-body RPEK1 0303211/Z1 can alternatively be used.

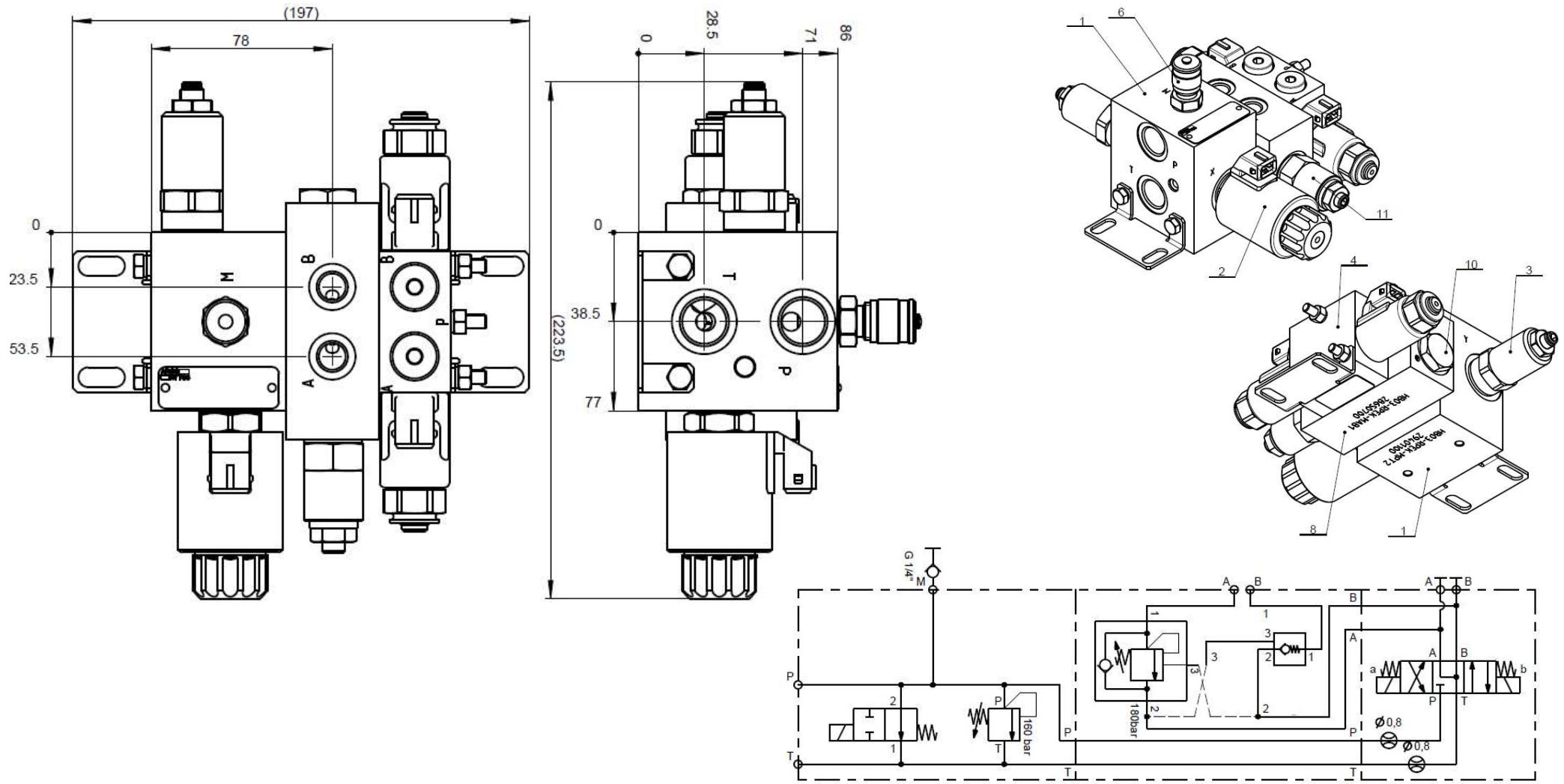


1. RPEK1-03
  - 1.1. Coils
  - 1.2. Electrical connector
  - i) Plug G 1/4 (SAE 6)
2. Inlet block HBO3-RPEK-MZ
  - a) SD21-E2
  - b) SR1A-B2
  - c) TV2-063
  - d) PRM2-06
3. Sandwich block HBO3-RPEK-MAB1
  - e) SOPA-Q3
  - g) SP2A-A3
  - h) M16 Test point fitting
4. Sandwich block HBO3-RPEK-MP1
  - j) VSV2
5. End plate HBO3-RPEK-08
6. Pilot operated check valve VJRS-03
7. Extension plate VB-03-RPEK-01
8. Sandwich block VB03-RPEK-MD

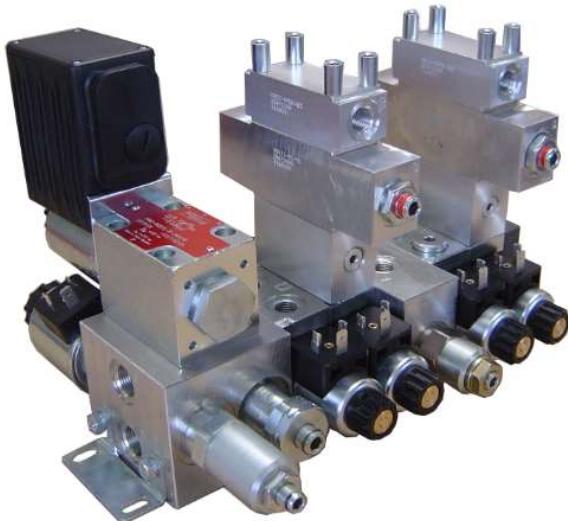


# Bankable System Mini / NG03

## RPEK/B



## Bankable System Mini / NG03 RPEK/B



**Application examples  
RPEK / Sandwich valves**

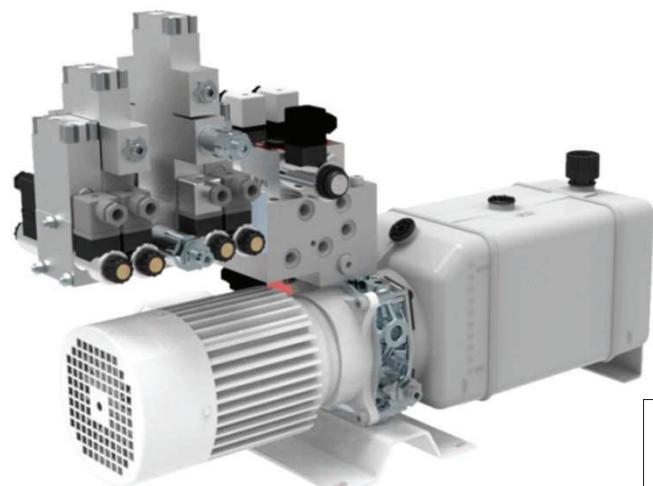
## Bankable System Mini / NG03 RPEK/B



### Communal Machines

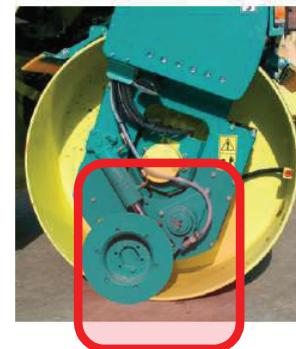


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