



WHO WE ARE

Brevini Fluid Power is an Italian owned business founded in 2003 by the union of companies from the fluid power sector with over forty years of experience. It is a main hub for made in Italy businesses in the mechatronics sector which includes, besides Brevini Fluid Power in Reggio Emilia, OT Oil Technology in Parma, as well as BPE Electronics in Novellara, VPS Brevini in Bologna and Brevini Fluid Power Yancheng in China.

Brevini Fluid Power positions itself among major producers of hydraulic components in Italy and Europe. The network made up of 14 branches in Italy, France, England, Holland, Germany, Finland, China, India, Singapore, Thailand and USA is combined with the capillary network of distributors to ensure a presence worldwide on seven product lines. The tied partnership with hundreds of clients throughout the world for over ten years clearly shows the commitment of Brevini Fluid Power.

Together to make a difference

Brevini Fluid Power Company has launched an industrial plan based on synergies which constitute the common practice of the entire Brevini Group, a hub that also includes Brevini Power Transmission and Brevini Wind. The Brevini Group offers ten lines of products and has a turnover of Euro 430 million with 2,400 employees and production units in Italy, Germany, China, United States and Brazil.

PROPORTIONAL DIRECTIONAL VALVES

Proportional directional valves

Proportional directional valves

Available in 3 full complete series:

HPV41 compensated flow up to 130 l/min and pressure up to 400 bar

HPV77 compensated flow up to 200 l/min and pressure up to 380 bar

HPV310 compensated flow up to 550 l/min and pressure up to 350 bar

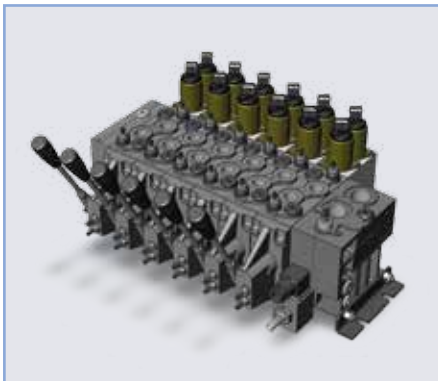
Which in turn are being operated by advanced electrical actuators with different kind of reference signal:

Voltage control signal (open and closed loop control)

0 ÷ 10 Vdc - 0.5 x Udc - 0 ÷ 20 mA

Current control signal (open loop control)

PWM (pulse width modulation)



HPV41

Rated flow
Inlet section Up to 160 l/min

Rated flow
A/B ports Up to 130 l/min

Max. Pressure 400 bar

Port size P/T 3/4" BSPP

Port size A/B 1/2" BSPP

Port size LS,CD and aux. 1/4" BSPP

Max. No. of sections 10

Oil temperature -25°C ÷ + 80°C

Ambient temperature -30°C ÷ + 60°C



HPV77

Rated flow
Inlet section Up to 250 l/min

Rated flow
A/B ports Up to 190 l/min

Max. Pressure 380 bar

Port size P/T 1" BSPP

Port size A/B 3/4" BSPP

Port size LS,CD and aux. 1/4" BSPP

Max. No. of sections 10

Oil temperature -25°C ÷ + 80°C

Ambient temperature -30°C ÷ + 60°C



HPV310

Rated flow
Inlet section Up to 600 l/min

Rated flow
A/B ports Up to 550 l/min

Max. Pressure 350 bar

Port size P 1" 1/4 SAE flanges

Port size T 1" 1/2 SAE flanges

Port size A/B 1" 1/4 SAE flanges

Port size LS,CD and aux. 1/4" BSPP

Max. No. of sections 6

Oil temperature -25°C ÷ + 80°C

Ambient temperature -30°C ÷ + 60°C

ATEX VERSION Atex Directive 94/9/CE



Comply with:

  0575  II 2 GD Ex mb IIC T4 Ex mb tb IIIC T135°C IP67 X

$T_{amb}: -35\text{ °C} \div +60\text{ °C}$ $T_{fluid}: -20\text{ °C} \div +80\text{ °C}$
DNV-MUNO 10 ATEX 4798

  II GD c T4/T135°C or T6/T85°C

$T_{amb}: -20\text{ °C} \div +50\text{ °C},$ $T_{fluid}: -20\text{ °C} \div +80\text{ °C}$ or
 $T_{amb}: -20\text{ °C} \div +40\text{ °C},$ $T_{fluid}: -20\text{ °C} \div +40\text{ °C}$

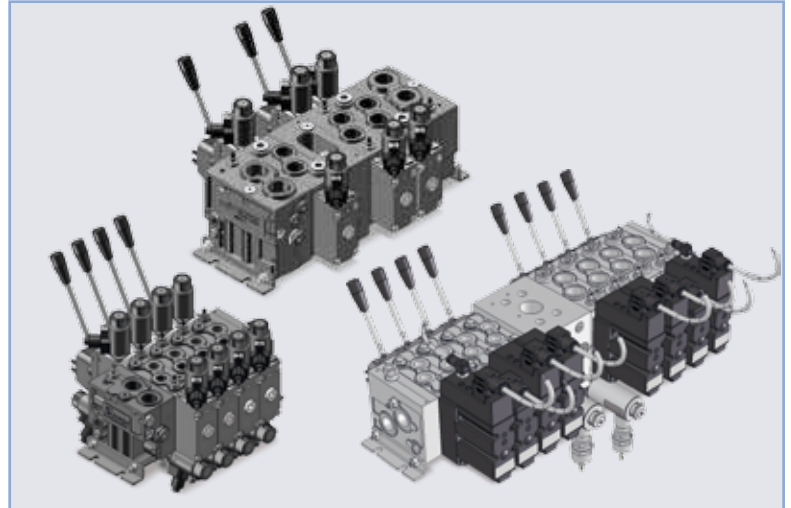
Voltage control signal (open and closed loop control)

$0 \div 10\text{ Vdc} - 0.5 \times U_{dc} - 0 \div 20\text{ mA}$

Current control signal (open loop control)

PWM (pulse width modulation)

All our electrical actuators comply with the very stringent safety and health requirements laid down in Atex 94/9/EC Directive.



Joysticks

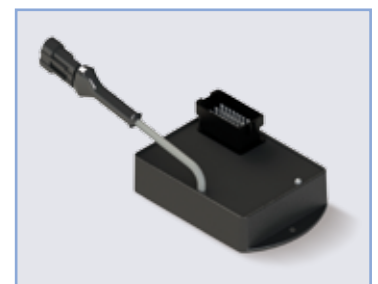
Single and double axis (double axis configurable up to 4 proportional)

All our joysticks range as a part of an integrated system solution are under constant development in close cooperation with our customers and can be tailored to specific end-user requirements to meet most operator input needs. These devices have been designed and built with particular adaptation to the HPV valves and are used in construction, drilling, agriculture, forestry, utility, offshore, civil engineering, marine and material handling. Our Joysticks are available in current control (PWM), voltages and potentiometric configuration both for Hi-Performance and light duty applications.



Electronics

- Direct piloting of up to 6 solenoid valves (ON/OFF and proportional)
- Output for venting valve (CAT3/PLd on request)
- Same power supply for 12/24 Vdc systems
- Customizable via RS-232 serial port for all commercial joysticks and diagnostic tools
- Up to 3 customizable digital inputs
- CAN Connection
- A custom software can be used to change for every movement: the PWM frequency, the minimum and maximum currents, the proportional solenoid valve opening and closing ramps



MAV SERIES

Innovation for growth

The innovation in Brevini Fluid Power comes from the precise decisions of shareholders. Investments in Research & Development total 6-7% of the annual turnover, as well as investments in training of human resources through the TMS Technical and Management School, including the Werther Campaldi Project.

The field of applications of the components (pumps, motors, power packs, valves, electronic control systems, special manifold and subplates) and systems manufactured by Brevini Fluid Power includes:



INDUSTRIALS



TRANSPORTATION
LIFTING
LOGISTICS



CONSTRUCTIONS
EARTH-MOVING



MARINE
HARBOUR



MINES, QUARRIES
AND SITES



AGRICULTURE



ECOLOGY



PUBLIC WORKS

Brevini Fluid Power employs 730 people worldwide and has a turnover from businesses abroad that will reach Euro 150 million in a few years, totalling 70%.



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