

 **walvoil**  
FLUID POWER EMOTION

 **walvoil**

 **hydro  
control**

 **Galtech**



# OVERVIEW

IN BRIEF

A member of



Il modo migliore per prevedere il futuro è crearlo  
*The best way to predict the future is to create it*



Walvoil S.p.A. • Headquarters  
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Galtech Site  
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Walvoil S.p.A. • Test Dept.  
Reggio Emilia • Italy



Walvoil S.p.A. • Electronics  
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Walvoil Fluid Power Corp.  
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Walvoil Fluid Power Corp.  
Hydrocontrol Business Unit  
Red Wing • MN, USA



Galtech Canada Inc.  
Terrebonne • Canada



Walvoil Fluid Power Korea  
Pyeongtaek, Gyeonggi •  
Korea



Walvoil Fluid Power (India)  
Attibele, Bangalore • India



Walvoil Fluid Power (Dongguan)  
Dongguan City • China

## I valori che condividiamo con i nostri stakeholders *The values we share with our stakeholders*

Dal 2015 Walvoil rappresenta la 'Valves Division' di Interpump Group, e racchiude in sé le esperienze ed i brand Walvoil, Hydro-control e Galtech.

Tra i principali produttori mondiali di offerte integrate di prodotti oleodinamici, elettronica e sistemi meccatronici completi, Walvoil continua a progettare il futuro del movimento in stretta relazione con i propri clienti e partner, che operano in settori e in mercati diversi.

Grazie ad una consolidata presenza italiana e ad una rete di filiali e sedi commerciali nel mondo in costante evoluzione, mosse dalle stesse attitudini – creatività, innovazione e passione –, coltiviamo la nostra responsabilità nel creare e condividere valore con tutti i nostri stakeholders.

*Since 2015 Walvoil has been representing the Interpump Group's Valves Division merging both the experiences and Walvoil, Hydrocontrol and Galtech brands.*

*Among the main manufacturers of integrated hydraulic products, electronics and complete mechatronics systems, Walvoil keeps on projecting the future of motion in close touch with its customers and its partners from different sectors and markets.*

*Thanks to a strong presence in Italy and to a capillary network of branches and sales offices in continuous development worldwide, with our same attitudes - creativity, innovation, passion -, we are able to create and share value with all our stakeholders.*



**Dall'Italia, una realtà in crescita**  
***From Italy a growing reality worldwide***

## Al servizio del cliente, al servizio della comunità *Serving our customers, serving the communities we live in*

Forte di un nutrito numero di talenti e di competenze, nella propria quotidianità di Ricerca e Sviluppo di nuovi prodotti, Walvoil persegue traguardi ambiziosi in tema di incremento delle funzionalità, efficienza energetica, integrazione digitale, riduzione costi, protezione delle persone e dell'ambiente e di 'predictive maintenance'.

Temi in linea non solo con i bisogni delle imprese, ma anche e soprattutto delle comunità che abitiamo.

Cuore pulsante di queste attività è il Test Department Walvoil, che da sempre interagisce con i principali centri di ricerca italiani ed esteri.

### Il Test Department Walvoil al servizio dei clienti in tutto il mondo



**Integrazione, efficienza, semplicità, flessibilità, sicurezza, interconnessione, 'tailor-made'** le linee guida delle proposte Walvoil dedicate al macchinario mobile.

### Agricoltura - Agriculture

### Macchine Edili & Movimento Terra Construction & Earth Moving Machines



**Al servizio del cliente, al servizio della comunità**  
*Serving our customers, serving the communities we live in*

*Talented and competent R&D people support Walvoil to pursue ambitious goals in developing its products: increasing functionality, energy efficiency, digital integration, cost reduction, protection of people and environment and 'predictive maintenance'.*

*Themes not only coherent with the needs of business, but also and above all, of the communities we live in.*

*Walvoil Test Department, interacting with the major Italian and foreign Research Centers, is the pulsating heart of these activities.*

**Walvoil Test Department serving customers worldwide**



**Machine integrated, Efficiency, Safety, Flexibility, User friendliness, Interconnection, tailor-made** are the guidelines around which Walvoil develops its system proposals dedicated to mobile equipment.

**Sollevamento & Trasporto - Material Handling**

**Veicoli Industriali - Industrial vehicles**



## Prodotti e sistemi per applicazioni mobili Products and systems for mobile equipment

### Directional valves and Remote controls

Monoblock and sectional valves, products designed for special applications, Open Center circuit configurations, Load Sensing and Full Flow Sharing to meet all the needs, from the simplest to the most sophisticated, in all application areas.

The hydraulic pilot control valves allow to manage and regulate flow rates with lower operating forces. Made with cast iron or aluminium body they can be equipped with Walvoil handles range.



Directional valves type	Q (up to) l/min - US gpm	P (up to) bar - psi	Sections (up to)
Monoblock types	160 - 42	350 - 5100	8
Sectional types	700 - 185	350 - 5100	12
Types for special applications	350 - 92.5	350 - 5100	12
Press. pre-compensated types	200 - 53	420 - 6100	10
Flow Sharing types	350 - 92	420 - 6100	12



Remote controls	Controlled ports (up to)	Feed units	P (up to) bar - psi	Inlets (up to)	Outlets (up to)
Hydraulic types	24	Feed units	350 - 5100	3	4
Pneumatic types	16				
Flexible cable types	10				

### Pumps & Motors

A wide range of gear pumps and motors in both aluminium and cast iron, which can be configured with standard and special flanges and shafts.

Walvoil gear pumps can be easily combined into multiple units with different displacements and groups.



Types	Displacement (from - to) cm <sup>3</sup> /giro - in <sup>3</sup> /rev	P (up to) bar - psi	V (up to) rpm
Ext. gear pumps	0.89 → 77.2 - 0.05 → 4.7	300 - 4350	6000
Ext. gear motors	0.89 → 77.2 - 0.05 → 4.7	300 - 4350	6000
Ext. gear flow dividers	1.18 → 31.5 - 0.07 → 1.59	250 - 3600	4800
Fan Drive systems	4 → 31.5 - 0.24 → 1.92	270 - 3900	3500

## Prodotti e sistemi per applicazioni mobili Products and systems for mobile equipment

### Compact hydraulics

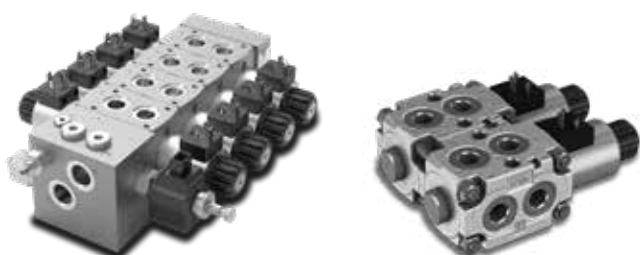
Walvoil compact hydraulics consist of the range of SAE cartridge valves and Parts in Body, fully customizable HICs, manual and electric diverter valves and bankable solenoid valves.



SAE cavity cartridges	Q (up to) l/min - US gpm	P (up to) bar - psi
Pressure control valves	180 - 48	350 - 5100
Motion control valves	150 - 40	350 - 5100
Flow control valves	150 - 40	350 - 5100
Directional control valves	150 - 40	380 - 5500
Logic valves	190 - 50.2	350 - 5100



Hydraulic valves (Parts in Body)	Q (up to) l/min - US gpm	P (up to) bar - psi
Pressure control valves	250 - 66	350 - 5100
Motion control valves	250 - 66	400 - 5800
Flow control valves	450 - 119	350 - 5100
Directional control valves	160 - 42.3	350 - 5100
Logic valves	250 - 66	350 - 5100



Bankable solenoid valves	Q (up to) l/min - US gpm	P (up to) bar - psi	Sections (up to)
On/Off types	60 - 16	315 - 4600	8
Proportional type	80 - 21	300 - 4350	8

Diverter valves	Q (up to) l/min - US gpm	P (up to) bar - psi	Sections (up to)
Monoblock types	350 - 92.5	350 - 5100	12
Sectional types	80 - 21	315 - 4600	10

### Electronic components & PHC systems

Walvoil offers a wide range of electronic devices: proportional joysticks, control units, multifunctional handles and complete systems from the experience gained with important OEM in their field of application.



PHC electronic systems	Proportional functions (up to)	Digital outputs (up to)
Analog types	4	-
CANbus types	6	3



Electronic joysticks	Signal range / Interface	Proportional functions (up to)	On/Off functions (up to)
Analog types	0.5 V → 4.5 V 50% → 75% Vbattery	6	10
CANbus types	CANopen - CANopen Safety SAEJ1939 - ISOBUS	6	10

Handles	Proportional functions (up to)	On/Off functions (up to)
Nr. 10 types	4	10



ECUs & Software	Interface	Inputs (up to)	Outputs (up to)
ECUs	RS232, 9600, 8, n, 1 CANopen - SAEJ1939 - ISOBUS, Ethernet BroadR-Reach, LIN	Analog = 32 Digital = 12	Prop. = 48 On/Off = 6
PHC Studio Suite	It is an integrated development environment (IDE) and includes the latest release of PHC STUDIO (3.0) and the new WST pro (Advanced Walvoil Service Tool)		

**Walvoil nel mondo - Walvoil worldwide**

**Sede principale, Filiali e Uffici di rappresentanza**  
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It is Power

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