



High Flow Directional Control Solenoid Valve

POWER VALVE

www.powervalveusa.com

www.taihuei.com.tw

Company History

POWER VALVE is the brand name for Tai Huei industrial solenoid valves, sold worldwide under the Tai Huei name and also OEM private labels. Tai Huei was established in 1984 in Taiwan R.O.C. We are the premier Taiwan manufacturer of high quality industrial grade solenoid operated directional control valves. Over the many years of perfecting our designs and processes, we have become experts in the field, specializing only in hydraulic and pneumatic solenoid operated directional control valves, with our main emphasis on the hydraulic market requirements. Our expenditures on research and development have translated into a high quality product line and this is the reason for our acceptance by all Pacific Rim industrial markets, and also the various industrial markets worldwide.

We offer our valves in all voltages and frequencies found worldwide. Because of our reputation for quality, due to our care and expertise, in 1999, we received the CE KEMA Registered Quality B.V., known throughout Europe for meeting recognized standards of quality relating to hydraulic solenoid valves. Our production machinery is fully automated and state of the art. For these reasons we can produce a valve that exceeds the expectations of our customers, and in fact, our manufacturing output is over 500,000pc of D03 and D05 valves per year.

We invite your inquiry for standard or special requirements. In all likelihood, we have already produced the valve you are looking for. Please call or email your local representative, or directly to our factory sales office in Taiwan. We will respond promptly and with all serious consideration.

Statement of Model NO.

HD-3C2 - G02-DL - F - AC220V-50Hz

COIL FREQUENCY : 50Hz / 60Hz

COIL VOLTAGE :

DC12V~ DC24V

AC9V~AC380V

RF110V ; RF220V

DESIGN NO.

WIRING : CONNECTOR

LW : JUNCTION BOX WITH
INDICATING LIGHT

DL : DIN (Plug) TYPE WITH
INDICATING LIGHT

NOMINAL SIZE :

G02 : 1/4"(D03)(NG06)

G03 : 3/8"(D05)(NG10)

SPOOL TYPE : (See list of spool function)

**HIGH FLOW DIRECTIONAL
CONTROL SOLENOID VALVE**



Features of The Power Valve Solenoid Valve

- We conform to the international standard ISO-4401-03 allowing use on the industry standard manifolds and subplates.
- Our valves are CE certified.
- DIN plug connector standard with directed pilot light conforming to DIN-43650.
- Seamless coils for waterproof service, and high temperature service, allowing for the fastest possible heat dissipation, without issue.
- Larger flow paths in the main body to raise the flow and pressure.
- Lower pressure drop standard.
- Increased back pressure allowable due to internal design.
- Wet armature design allows smooth and noise free solenoid operation.
- State of the art CNC precision lathe assures manufacturing accuracy of the spool.



List of Spool Function

We offer over 100 types of spool functions in our stock, listing the standard and more common types for your reference (please see the back cover). For special requirements, please contact the factory sales office, or your local representative.

Specifications

Valve Size	Max. Flow Rate	Max. Pressure	Allowable Backpressure	Conversion Frequencies Operation
HD-G02	16 GPM (60 l/min)	5000 PSI (350 kgf/cm ²)	1000~2285 PSI (70~160 kgf/cm ²)	AC Type:240 CPM RF Type:120 CPM
HD-G03	27 GPM (100 l/min)	5000 PSI (350 kgf/cm ²)	1000~2285 PSI (70~160 kgf/cm ²)	AC Type:240 CPM RF Type:120 CPM

NOTE : Max. flow, model, voltage & R port back pressure will be varied according to different circuits.

Features of Coil

Voltage(V)	AC		DC		RF	
	AC 110V	AC 220V	DC 12V	DC 24V	RF 110V	RF 220F
Rated Voltage±10%	AC 110V	AC 220V	DC 12V	DC 24V	RF 110V	RF 220F
Holding Current±10%	0.83A	0.41A	3.8A	1.9A	0.54A	0.27A
Start Current±10%	4.55A	2.51A				

▶▶▶ LIST OF SPOOL FUNCTION

Spring Offset 2 Position	Graphic Symbol	Spring Offset 3 Position	Graphic Symbol	Spring Offset 3 Position	Graphic Symbol	Spring Offset 2 Position	Graphic Symbol	Spring Offset 2 Position	Graphic Symbol
2A2		3C2		2D2		2B2A		2B2B	
2A3		3C3		2D3		2B3A		2B3B	
2A14		3C4		2D4		2B4A		2B4B	
2A2L		3C40		2D40		2B40A		2B40B	
2A3L		3C5		2D7		2B5A		2B5B	
2A14L		3C6		2D2A		2B5A		2B5B	
2B2		3C60		2D3A		2B60A		2B60B	
2B3		3C7		2D4A		2B7A		2B7B	
2B8		3C8		2D40A		2B8A		2B8B	
2B29		3C9		2D5A		2B9A		2B9B	
2B2L		3C10		2D6A		2B10A		2B10B	
2B3L		3C11		2D60A		2B11A		2B11B	
2B8L		3C12		2D7A		2B12A		2B12B	
2B29L		3C25		2D9A		2B25A		2B25B	
		3C29		2D10A		2B29A		2B29B	
		3C48		2D11A		2B48A		2B48B	
		3C94		2D12A					

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