



YUKEN: Hydraulic Equipment

Yuken Hydraulics



FRIENDLY • INTELLIGENT • POWERFUL • HYDRAULICS



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YUKEN PRODUCTS FOR EVERY NEED

As a specialized manufacturer of hydraulic equipment, we Yuken are trying hard to meet our customers' various requirements with a continuous effort to develop new products and improve the existing products.

This catalogue is compiled just to introduce the line up of our products. Therefore, the guide does not present the detailed technical information such as dimensions, specifications and characteristics of each and every product. If you require such information, please request us or our sales representatives for the Engineering Information Catalogue or Product Catalogue prepared separately.



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Fukuroda Factory



Sagami Factory

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HYDRAULIC CONTROLS
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[Affiliated Companies]

UNITED KINGDOM

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Friendly, Intelligent, Powerful

Variable Displacement Piston Pumps

AR Series Variable Displacement Piston Pumps

These AR series pumps have been developed on the basis of the same design concept as A series pumps which are renowned for high efficiency and low noise level. Using an aluminum body, the size of the pump is more compact and the mass is considerably reduced. The noise level has also been reduced.



A Series Variable Displacement Piston Pumps

With the well-known low noise level and a new addition of A70, A90 and A145 pump versions having the maximum pressure upto 28MPa, A series pumps have much more extensive coverage in their line up and specifications. Ten control types are available ranging from pressure compensator control to proportional electro-hydraulic pressure/flow control.



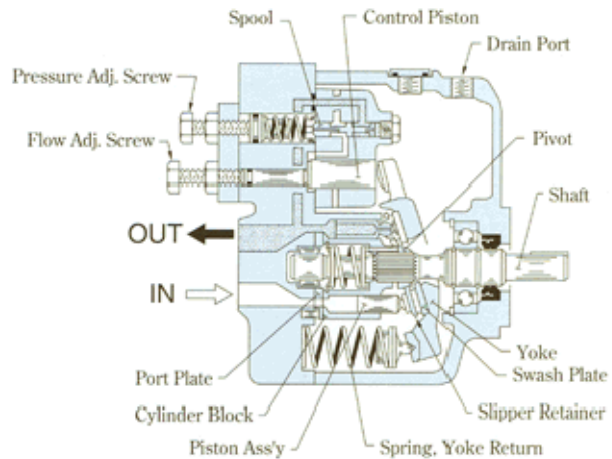
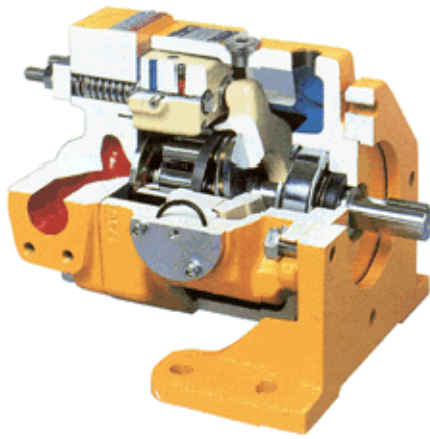
AH Series Variable Displacement Piston Pumps

AH series are variable displacement piston pumps of high pressure, high efficiency, high speed and low noise developed by Yuken's unique design concept and cumulative technologies. They are suitable for use with construction machinery and various industrial machinery ranging from presses to injection moulding machines.



Pump Type	Maximum Operating Pressure MPa	Geometric Displacement cm ³ /rev													
		1	2	5	10	20	50	100	200	300					
"AR" Series Variable Displacement Piston Pumps	16				AR16	AR22									
"A" Series Variable Displacement Piston Pumps	Single Pumps	21		A10	A16										
		16			A22										
		21				A37	A56								
		28						A70	A90	A145					
			28												
Double Pumps	28	Outboard Pump		A16	A22	A37	A56								
		Inboard Pump (Driven End)		A16	A22	A37	A56	A70	A90	A145					
Variable / Fixed Double Pumps	28	Outboard Pump			RV2R1	RV2R2									
		Inboard Pump (Driven End)			A16	A22	A37	A56	A70	A90	A145				
"AH" Series Variable Displacement Piston Pumps	31				AH16	AH37								AH56	

"A" Series Variable Displacement Piston Pumps

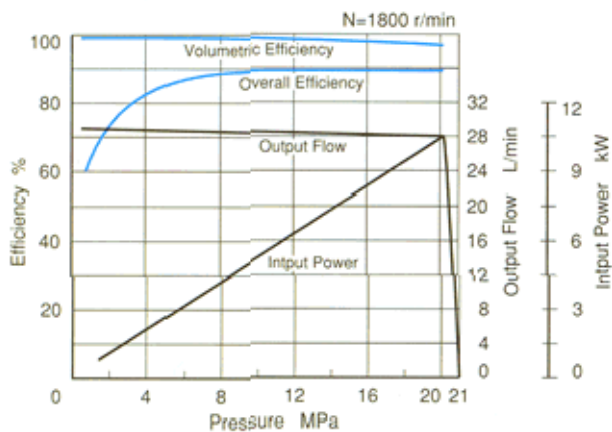


Features

High efficiency

With conditions of 16MPa loaded pressure and 1800 r/min rotating speed, volumetric efficiency is over 98% and overall efficiency is more than 90%.

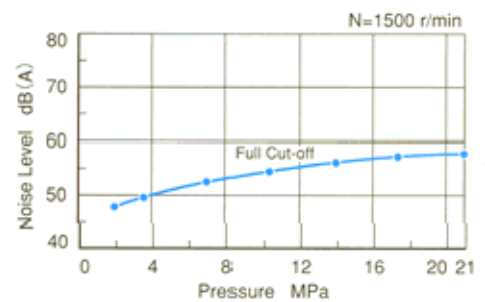
"A16" type performance characteristics



Low noise level

In A16 pump, the noise level is as low as 57.3dB(A) [at 21MPa full cut-off pressure and 1500r/min] measured one metre horizontally away from the pump head cover.

"A16" type noise level characteristics



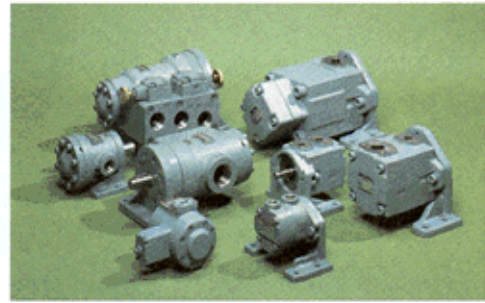
Control Type

Control Type	Graphic Symbols	Performance Characteristics	Control Type	Graphic Symbols	Performance Characteristics
"01" Pressure Compensator Type			"05" Two-Pressure Two-Flow Control Type by System Pres.		
"02" Solenoid-two Pressure Control Type			"06" Two-Pressure Two-Flow Control Type with Solenoid Valve		
"03" Pressure Compensator with Unloading Type			"07" Pilot Pressure Control Type Pressure Compensator		
"04" Proportional Electro-Hydraulic Load Sensing Type			"09" Constant Power Control Type		
"04E" Proportional Electro-Hydraulic Pressure & Flow Control Type			Simple Two-Pressure Two-Flow Control Type		

Friendly, Intelligent, Powerful

Vane Pumps

There is a variety of vane pumps from low-noise low-pulsation, small-capacity models to low-noise high pressure models which are available in wide range.



PV2R Series Vane Pumps

These pumps have been developed especially for low noise operation. To comply with a wide range of applications including the injection moulding machines, PV2R series pumps provide the output flow of such a wide range as from 5.8 to 237cm³/rev.

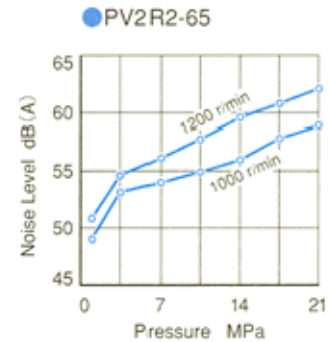
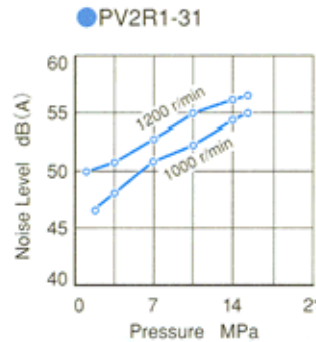
- ModelPV2R1, PV2R2, PV2R3, PV2R4 and Double Pumps.
- Max.Operating Pressure21MPa
- Geometric DisplacementPV2R1 : 5.8~31/PV2R2 : 41.3~64.7
PV2R3 : 76.4~115.6/PV2R4 : 136~237cm³/rev



Noise Level

Measuring condition

- Fluid viscosity : 20mm²/s
- Measurement position : One metre horizontally away from pump head cover
- Background noise : 40dB(A)



PV11R Series Vane Pumps

These pumps are durable against such a high pressure as 40MPa. The excessive wear to the vanes and camring which usually occurs in such high pressure vane pumps has been solved by means of adopting the special methods in both mechanical construction aspects and lubrication systems.

- ModelPV11R10, PV11R20
- Max.Operating Pressure40MPa (Anti-Wear Type Oils)
25MPa (R&O Type Oils)
- Geometric DisplacementPV11R10 : 2.2~12.1cm³/rev
PV11R20 : 15.2~22.1cm³/rev

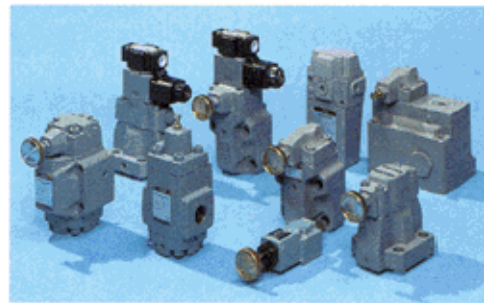


Pump Type	Maximum Operating Pressure MPa	Output Flow L/min at 1200 r/min at No-Load												
		1	2	5	10	20	50	100	200	500	800			
"PVL" Series Single Pumps	5			PVL1										
Single Pumps	7					50T	150T	250F	500F					
Double Pumps	7			Small Volume		(50)	(150)	(250)						
				Large Volume		(50)	(150)	(250)						
Combination Pumps	7			Small Volume		(50)								
				Large Volume		(50)	(150)							
"PV2R" Series Single Pumps	21					PV2R1	PV2R2	PV2R3	PV2R4					
"PV2R" Series Double Pumps	21			Small Volume		(PV2R1)	(PV2R2)	(PV2R3)						
				Large Volume		(PV2R2)	(PV2R3)	(PV2R4)						
"PV11R" Series Single Pumps	40					PV11R10	PV11R20							

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Pressure Control Valves

Various type of pressure control valves are available, from relief valves to pressure switches, to control the pressure at suitable level in the hydraulic system.



Low Noise Type Pilot Operated Relief Valves

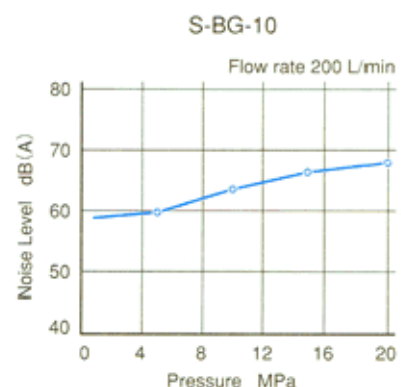
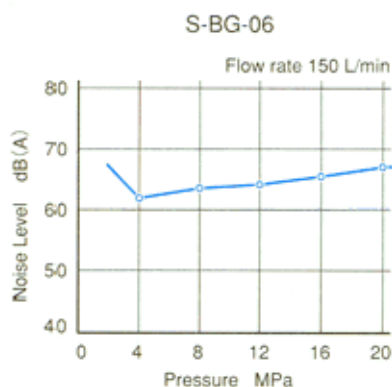
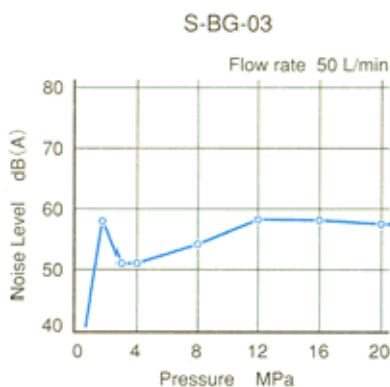
Pilot operated relief valves here have been particularly developed as low noise type. To protect the pumps and control valves from an excessive pressure, the valves are used to control the pressure in the hydraulic system to constant level. The remote control and unloading can be done by using the vent circuit.



Noise Level

Measuring condition

- Fluid viscosity : 35mm²/s
- Measuring position : At one metre back from the valve front.
- Tank line back pressure : 0.1MPa

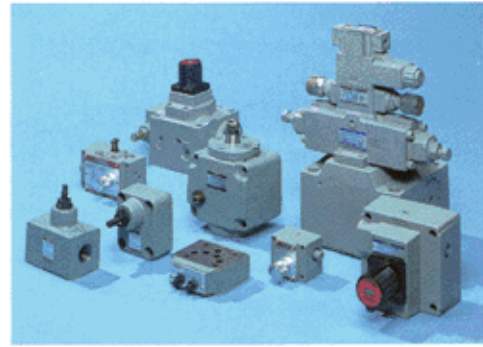


Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min															
		1	2	3	5	10	20	30	50	100	200	300	500	1000	2000		
Remote Control Relief Valves	25	DT/DG-01															
Direct Type Relief Valves	21	DT/DG-02															
Pilot Operated Relief Valves	25						BT/BG 03 06 10 16 24										
Low Noise Type Relief Valves	25						S-BG 03 06 10										
Solenoid Controlled Relief Valves	25						BST/BSG 03 06 10 16										
Low Noise Type Sol. Cont. Relief Valves	25						S-BSG 03 06 10										
Brake Valves	25	UBGR 03 06 10															
H/HC Type Pres. Control Valves	21	HT·HG/HCT·HCG 03 06 10 16															
Pres. Reducing & Check Valves	21	RT·RG/RCT·RCG 03 06 10 16															
Pres. Reducing & Relieving Valves	25	RBG 03 06															
Unloading Relief Valves	21	BUCG 03 06 10															
Pressure Switches	35																

Friendly, Intelligent, Powerful

Flow Control Valves

These valves control the reciprocating and rotating speed of hydraulic actuators. A variety of flow control valves including pressure and/or temperature-compensated flow control valves is available.

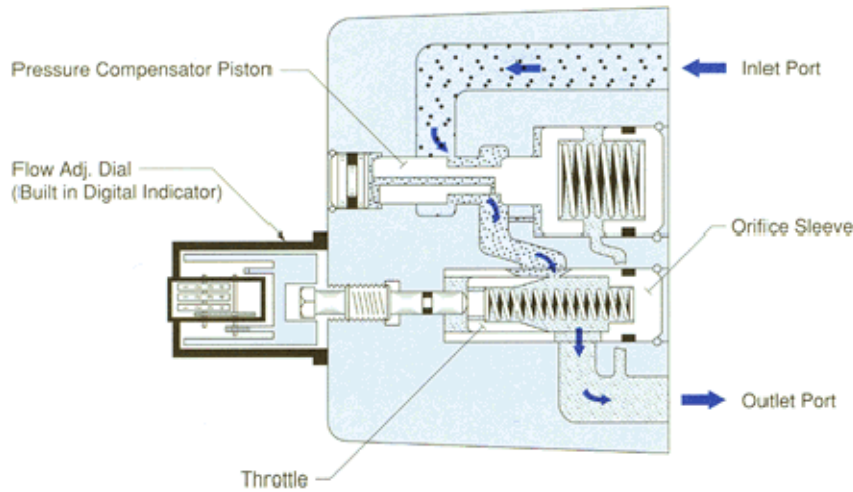


Flow Control Valves/Flow Control and Check Valves

These valves are pressure and temperature compensating type valves and maintain a constant flow rate independent of change in system pressure (load) and temperature (viscosity of the fluid). They control the speed of the actuator precisely. The valves with an integral check valve allow a controlled flow and reverse free flow. Repeated resetting can be made easily with a digital readout.



Flow Control Valves



Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min																
		1	2	3	5	10	20	30	50	100	200	300	500	1000	2000	3000	5000	
Flow Control (& Check) Valves	21				01			02			03	06	10					
Flow Control & Relief Valves	25										03	06	10					
Pilot Operated Flow Control Valves	21							02			03	06	10					
Pilot Operated Flow Cont. & Check Valves	21							02			03	06	10					
Restrictors	25									03	06	10	16					(Rated Flow)
One Way Restrictors	25									03	06	10	16					(Rated Flow)
Throttle (& Check) Modules	25									01	03							
Deceleration (& Check) Valves	21									03	06	10						
Feed Control Valves	14								01	03	04							
Needle Valves	35																	

Friendly, Intelligent, Powerful

Directional Control Valves

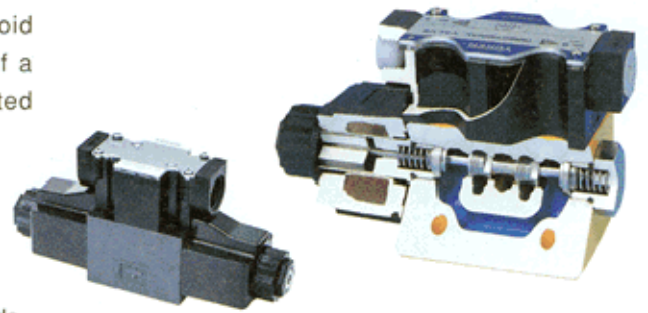
These valves control the flow direction in the hydraulic circuit. The various directional valves ranging from the solenoid operated directional valves to the check valves conforming to JOHS Standard—The Japan Oil Hydraulics Standard—are available to meet the variety in customers' needs.



Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min										
		1	2	5	10	20	50	100	200	500	1000	2000
Solenoid Operated Directional Valves	25	DSG-005										
	31.5	DSG-01										
Solenoid Controlled Pilot Operated Directional Valves	21	DSHG-01										
	25	DSHG-03										
	31.5	DSHG 04 06 10										
	21	DSHF 10 16 24 32 (Rated Flow)										
"G" Series Shockless Type Directional Valves	25	G-DSG 01 03										
		G-DSHG 04 06										
Poppet Type Solenoid Operated Directional Valves	31.5	DSLГ-01										
Multi Purpose Control Valves	25	DSLHG 04 06 10										
Solenoid Operated Poppet Type Two-Way Valves	14	CDS※-03										
Shut-off Type Solenoid Operated Directional Valves	25	DSPC/DSPG 01 03										
Pilot Operated Directional Valves	31.5	DHG 04 06 10										
Manually Operated Directional Valves	21	Threaded connection (DMT) 03 06 10										
	31.5	Sub-plate mounting (DMG) 01 03 04 06 10										
Mechanically Operated Directional Valves	7	Rotary type (DR _G ^T -02) 02										
	25	Cam operated (DC _G ^T) 01 03										
Check Valves	25	In-line (CIT) 02 03 06 10 (Rated Flow)										
		Right angle (CRT/CRG) 03 06 10 (Rated Flow)										
		Right angle, Flanged connection (CRF) 10 16 24 (Rated Flow)										
Pilot Operated Check Valves	25	Threaded connection (CP※ ^T) 03 06 10 (Rated Flow)										
		Sub-plate mounting (CP※ ^G) 10 16 (Rated Flow)										

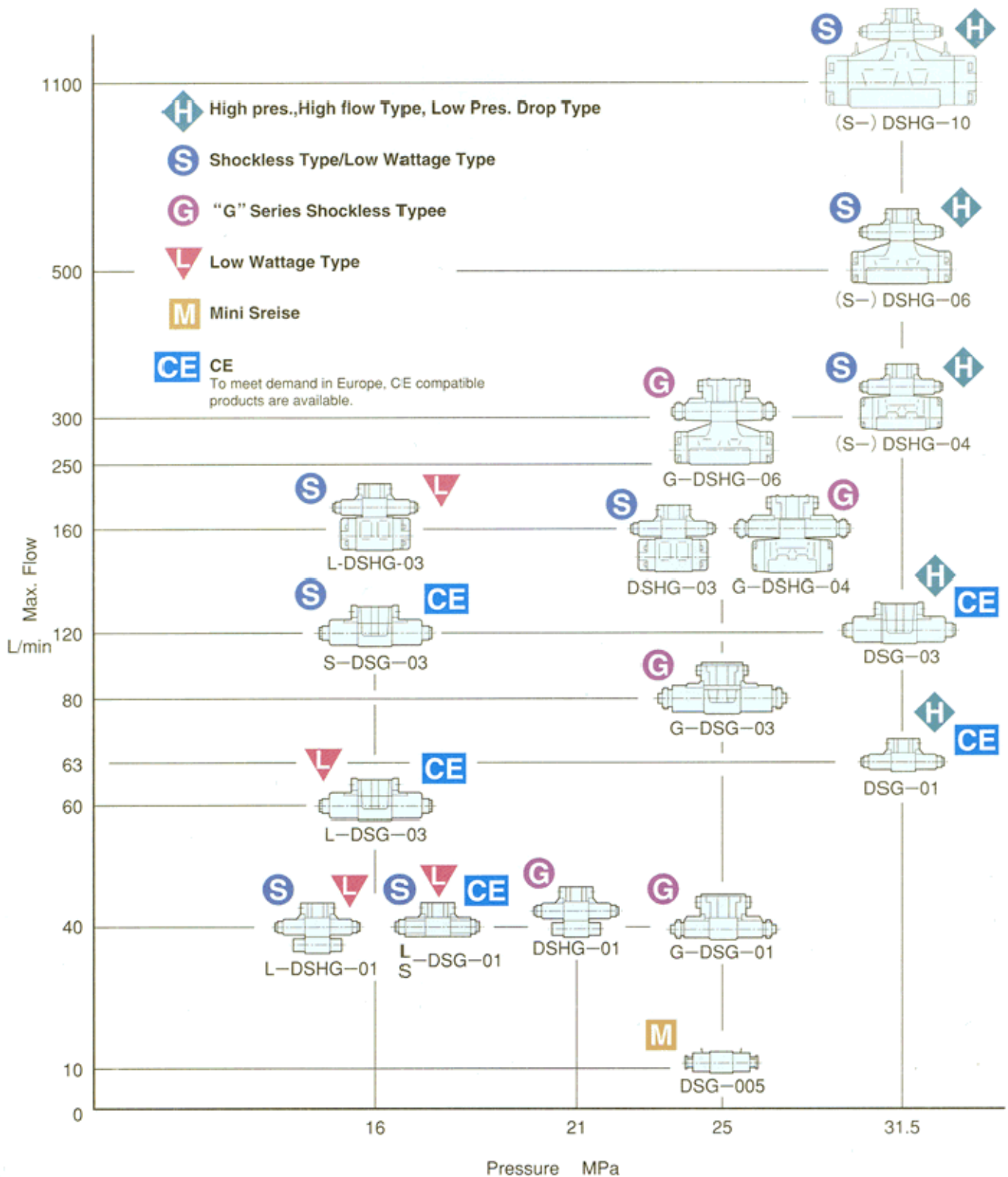
Solenoid Operated Directional Valves / Solenoid Controlled Pilot Operated Directional Valves

This is our full range of solenoid operated and solenoid controlled pilot operated directional valves consisting of a solenoid operated directional valve and a pilot operated directional valve.



WIDE RANGE OF MODELS

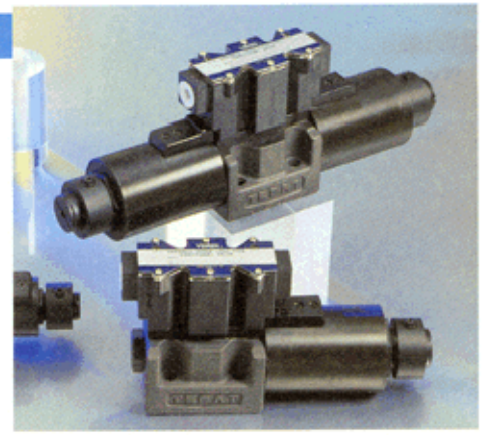
Choose the optimum valve from a large selection to meet your needs.



"G" Series Shockless Type Solenoid Operated Directional Valves

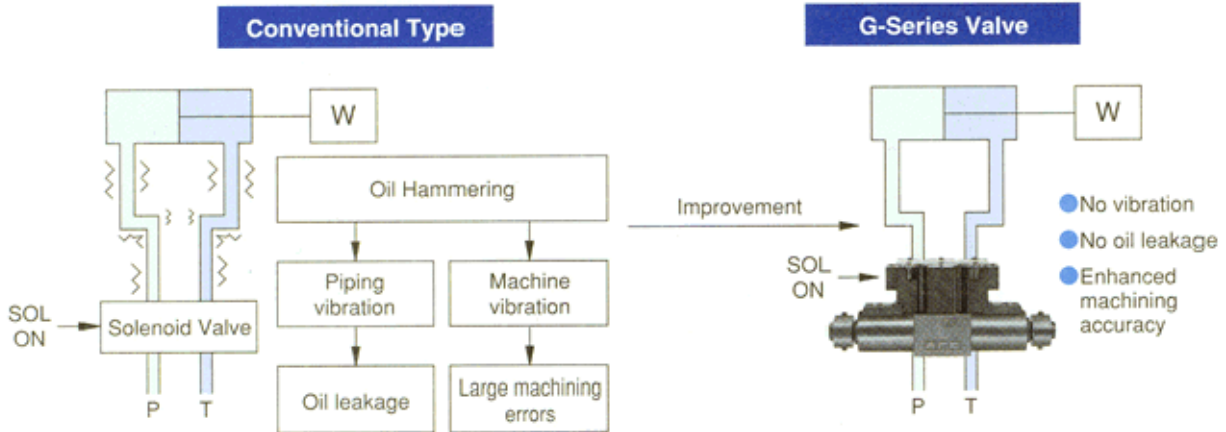
The G series solenoid operated directional valve reduces any shocks that may arise when starting machinery or shifting the spool.

These valves with better accurate control improve the reliability of the machinery and there is less pipe leakage.

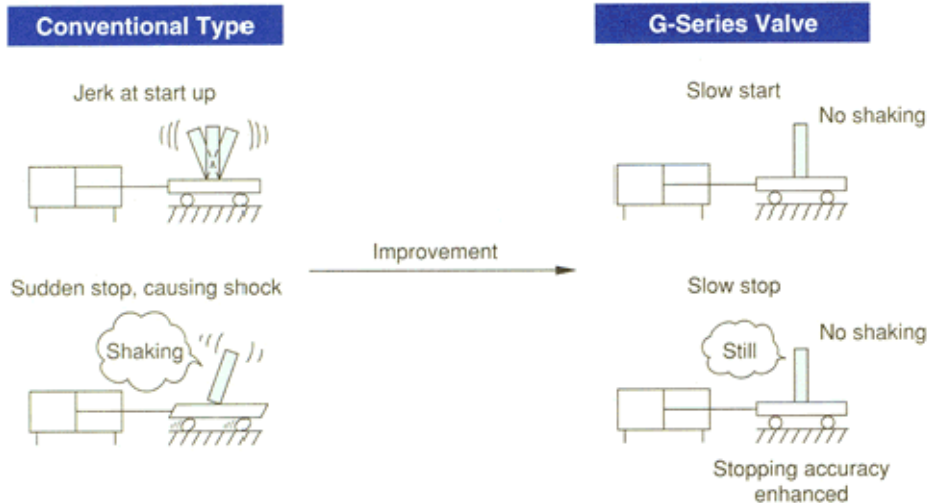


● Your valuable machines are protected from vibration and shocks

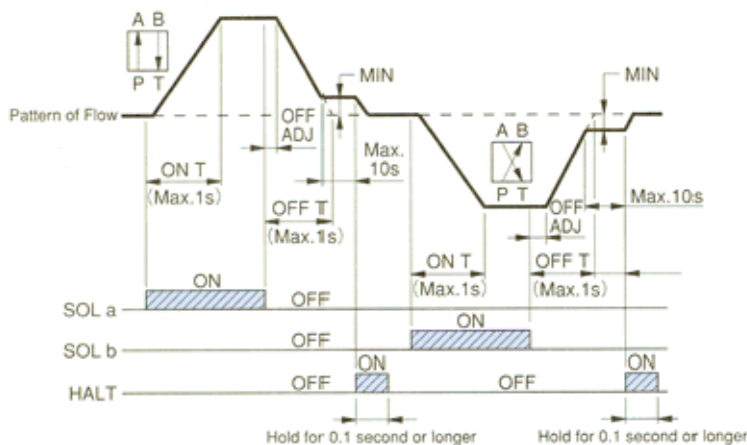
■ Shocks caused by acceleration and deceleration are reduced.



■ Oil hammering during spool shifting is reduced.



■ Relationships between SOL signals and flow patterns

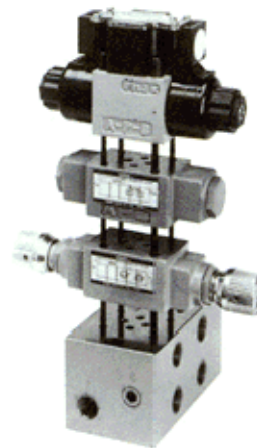
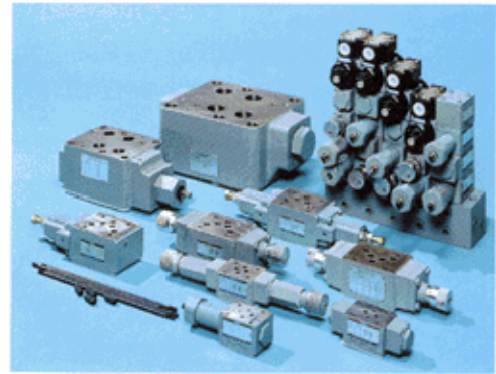


Friendly, Intelligent, Powerful

Modular Valves

YUKEN MODULAR VALVES are designed to simplify hydraulic systems, to eliminate the use of pipe connections and thus to save space, time and costs. The modular valves have standardized interfaces (ISO 4401, CETOP, NFPA) and thickness in accordance with each valve size. Any hydraulic circuit can be composed by stacking the modular valves in the correct sequence one upon another and bolting the various stacks to a common manifold base.

- Modular valves remarkably minimize the installing area and space.
- No expert skill is required to assemble, and furthermore, a supplement and a change to the circuit can easily and quickly be carried out.
- Problems such as oil leaks, vibration and noise resulting from pipes and tubes are minimized because pipes and tubes are not necessary.
- Checks and maintenance of these valves can be performed with ease because of the method of installation.



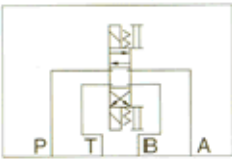
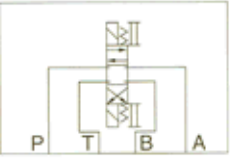




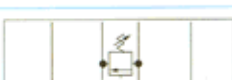
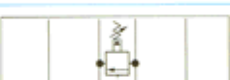
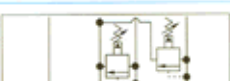







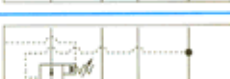










Stacking Example

Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min									
		1	2	5	10	20	50	100	200	500	1000
005 Series Modular Valves	25	[Flow range indicated by shaded area]									
01 Series Modular Valves	31.5	[Flow range indicated by shaded area]									
03 Series Modular Valves	25	[Flow range indicated by shaded area]									
06 Series Modular Valves	25	[Flow range indicated by shaded area]									
10 Series Modular Valves	25	[Flow range indicated by shaded area]									

★ Max Flow for Throttle and Check Modular Valves.

List of 005/01/03 Series Modular Valves (Pressure Controls)

● Pressure Controls

Name	Graphic Symbols	Model Numbers	Graphic Symbols	Model Numbers
		"005/01" Series		"03" Series
Solenoid Operated Directional Valves		DSG-005 DSG-01		DSG-03
Relief Modular Valves		MBP-01		MBP-03
		MBA-01		MBA-03
		MBB-01		MBB-03
	—	—		MBW-03
Reducing Modular Valves		MRP-01		MRP-03
		MRA-01		MRA-03
		MRB-01		MRB-03
Reducing Modular Valves for Low Pressure Setting	—	—		MRLP-03
	—	—		MRLA-03
	—	—		MRLB-03
Brake Modular Valves		MBR-01	—	—
Sequence Modular Valves		MHP-01		MHP-03
Counterbalance Modular Valves		MHA-01		MHA-03
	—	—		MHB-03
Pressure Switch Modular Valves		MJP-01-M	—	—
		MJA-01-M		
		MJB-01-M		

List of 005/01/03 Series Modular Valves (Flow Controls, Directional Controls, Others)

● Flow Controls

Name	Graphic Symbols				Model Numbers
	P	T	B	A	
Flow Control Modular Valves					MFP-01 MFP-03
Flow Control and Check Modular Valves					MFA-01-X MFA-03-X
					MFA-01-Y MFA-03-Y
					MFB-01-X MFB-03-X
					MFB-01-Y MFB-03-Y
					MFW-01-X MFW-03-X
					MFW-01-Y MFW-03-Y
Temperature Compensated Throttle and Check Modular Valves					MSTA-01-X MSTA-03-X
					MSTB-01-X MSTB-03-X
					MSTW-01-X MSTW-03-X
Throttle Modular Valves					MSP-01 MSP-03
Throttle and Check Modular Valves					MSCP-01 MSCP-03
					MSA-01-X MSA-03-X
					MSA-01-Y MSA-03-Y
					MSB-01-X MSB-03-X
					MSB-01-Y MSB-03-Y
					MSW-005-X MSW-01-X MSW-03-X
					MSW-005-Y MSW-01-Y MSW-03-Y
					MSW-01-XY
					MSW-01-YX

● Directional Controls

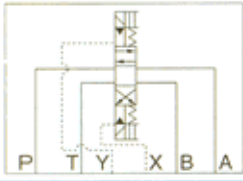



Name	Graphic Symbols				Model Numbers
	P	T	B	A	
Check Modular Valves					MCP-01 MCP-03
					MCA-03
					MCB-03
					MCT-01 MCT-03
Anti-Cavitation Modular Valves					MAC-01 MAC-03
					MPA-01 MPA-03
Pilot Operated Check Modular Valves					MPB-005 MPB-01 MPB-03
					MPW-005 MPW-01 MPW-03

● Modular Plates and Mounting Bolts

Name	Graphic Symbols				Model Numbers
	P	T	B	A	
End Plates					MDC-01-A MDC-03-A
					MDC-01-B MDC-03-B
Connecting Plates					MDS-01-PA
					MDS-01-PB
					MDC-01-AT
					MDS-03
Base Plates					MMC-005 MMC-01 MMC-03
Bolt Kits					MBK-005 MBK-01 MBK-03

List of 06/10 Series Modular Valves (Pressure Controls, Flow Controls, Directional Controls)



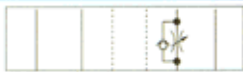

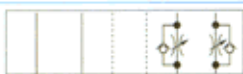

● Pressure Controls

Name	Graphic Symbols	Model Numbers
Solenoid Controlled Pilot Operated Directional Valves		DSHG-06 DSHG-10
Reducing Modular Valves		MRP-06 MRP-10
		MRA-06 MRA-10
		MRB-06 MRB-10



005 Series

● Flow Controls

Name	Graphic Symbols	Model Numbers
Throttle and Check Modular Valves		MSA-06-X MSA-10-X
		MSA-06-Y MSA-10-Y
		MSB-06-X MSB-10-X
		MSB-06-Y MSB-10-Y
		MSW-06-X MSW-10-X
		MSW-06-Y MSW-10-Y

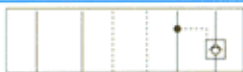
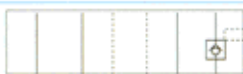
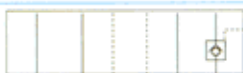



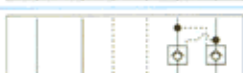


01 Series
MSW-01



03 Series
MPW-03

● Directional Controls

Name	Graphic Symbols	Model Numbers
Pilot Operated Check Modular Valves		MPA-06 MPA-10
		MPA-06*-*-X MPA-10*-*-X
		MPA-06*-*-Y MPA-10*-*-Y
		MPB-06 MPB-10
		MPB-06*-*-X MPB-10*-*-X
		MPB-06*-*-Y MPB-10*-*-Y
		MPW-06 MPW-10
Mounting Bolt Kits	—	MBK-06 MBK-10



06 Series
MPW-06



10 Series
MSW-10

Friendly, Intelligent, Powerful

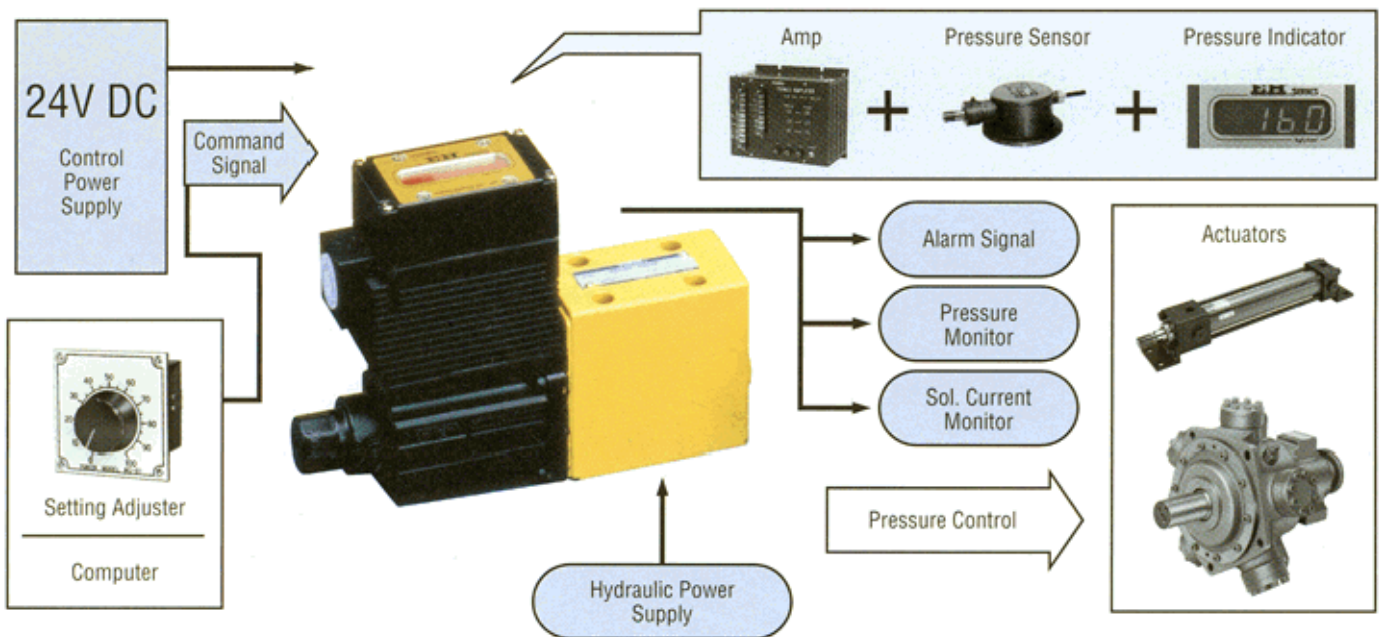
Proportional Electro — Hydraulic Controls

EH Series Proportional Electro-Hydraulic Control Valves

These EH Series are compound products of hydraulic equipment using the latest electronic and sensor technology based on the reputable E Series proportional electro hydraulic controls. We have realized epochmaking easily usable hydraulic equipment with high precision and reliability by unifying amplifier, sensor, digital data indicator which are required for proportional or servo control system into valves, and making them compact.



- Just preparing the power source(DC) for controls and command signals in addition to hydraulic source, you can easily structure proportional control system or servo system. Amplifiers exclusively used for the system or electric control panels separately installed are unnecessary.
- By using built-in sensors;
 - (1) Pressure, orifice openness which can be converted to flow rate can be detected and controlled remotely.
 - (2) As well as a compound amplifier, closed loop system can be structured.
 - (3) Sensor output signals or deviation signals at structuring closed loop system can be monitored.
- Such disadvantages as seen in ordinary hydraulic systems in which hydraulic components, sensors and amplifiers are interconnected with each other but installed separately are eliminated.



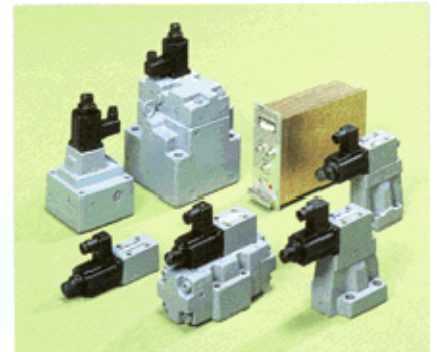
Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min											
		1	2	3	5	10	20	30	50	100	200	300	500
Pilot Relief Valves	24.5	EHDG-01											
Relief Valves	24.5	EHBG 03 06 10											
Reducing & Relieving Valves	24.5	EHRBG 06 10											
Flow Control (& Check) Valves	24.5	EHFG/EHFCG 03 06											
Flow Control & Relief Valves	24.5	EHFBG 03 06 10											
Directional & Flow Cont. Valves	24.5	EHDFG 01 03											
High Response Type Directional & Flow Cont. Valves	15.7	EHDFG 04 06											

Note) Setting adjusters are also available.



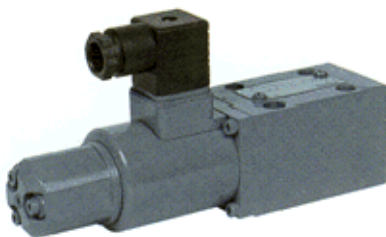
Series Proportional Electro — Hydraulic Control Valves

The proportional valves are able to control the system pressure or flow proportionally through a controlled input current from the amplifier.

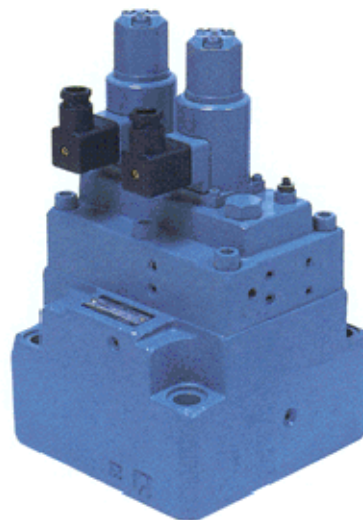


Valve Type	Maximum Operating Pressure MPa	Max. Flow L/min												
		1	2	3	5	10	20	30	50	100	200	300	500	1000
Pilot Relief Valves	24.5	EDG-01												
Relief Valves	24.5	EBG 03 06 10												
Reducing & Relieving Valves	24.5	ERBG 06 10												
Flow Control (& Check) Valves	20.6	EFG/EFCG (40 Ω Series) 02 03 06 10												
	24.5	EFG/EFCG (10 Ω Series) 03 06												
Flow Control & Relief Valves	24.5	EFBG (40 Ω - 10 Ω Series) 03 06 10												
		EFBG (10 Ω - 10 Ω Series) 03 06 10												
		EFBG (High Flow Series) 03 06												
Directional & Flow Cont. Valves	24.5	EDFHHG 03 04 06												

Note) Power amplifiers and setting adjusters are also available.



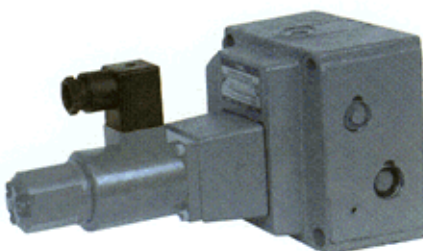
Pilot Relief Valve



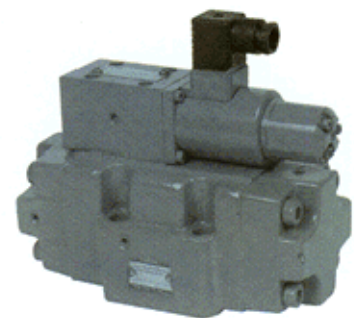
Flow Control & Relief Valve



Relief Valve



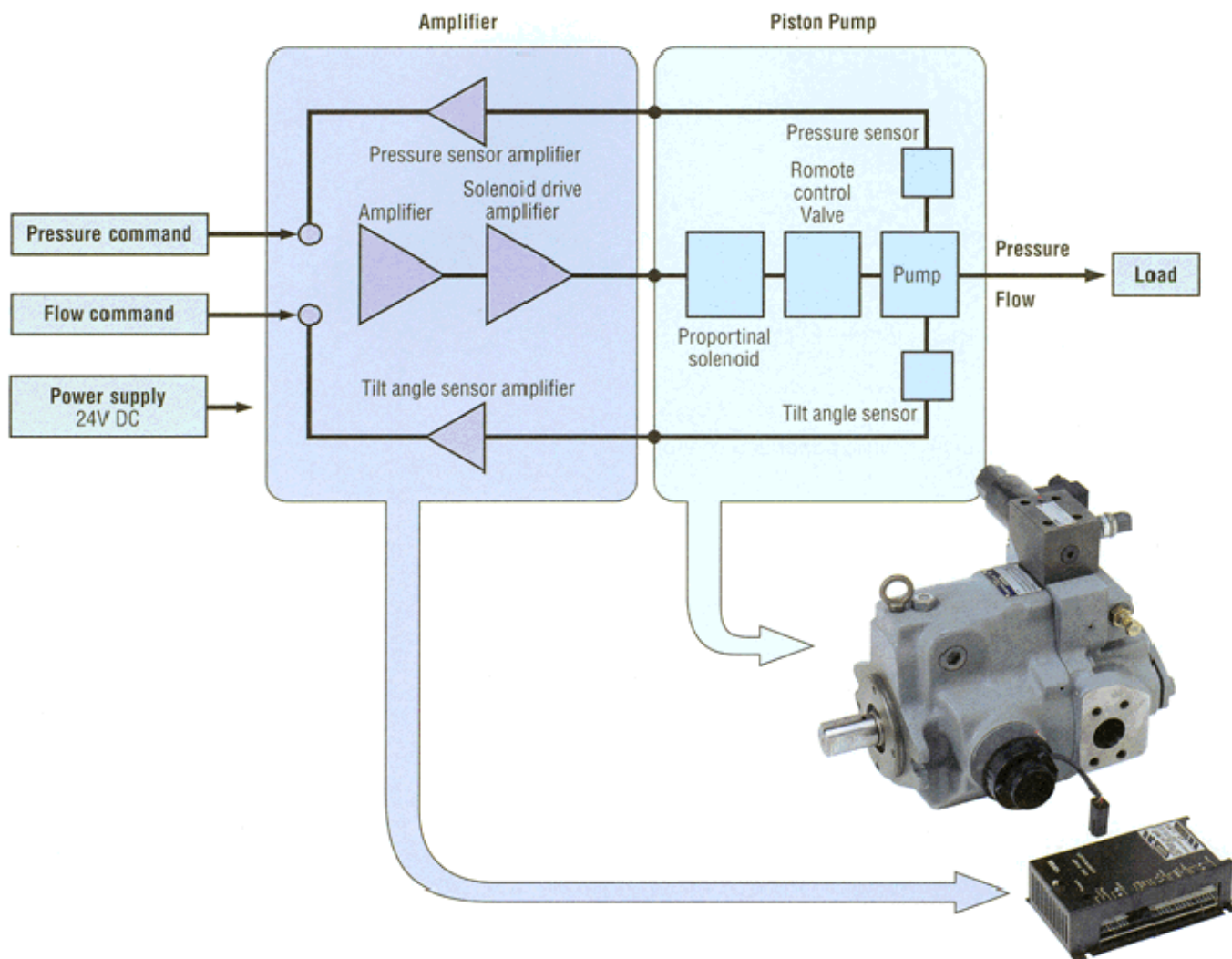
Flow Control & Check Valve



Reducing & Relieving Valve

"A" Series Variable Displacement Piston Pumps Electro-Hydraulic Proportional Pressure & Flow Control Type (04E Type)

The pumps with 04E control type have been enjoying a high reputation in the industrial machinery and equipment sectors including the injection moulding machines. They are direct control type piston pumps developed on the same basic concept as that of EH series variable displacement pumps and to meet the customers requirements for digital control. They provide such a wide range of displacement capacities as from 15.8 to 145 cm³/rev.



Specifications

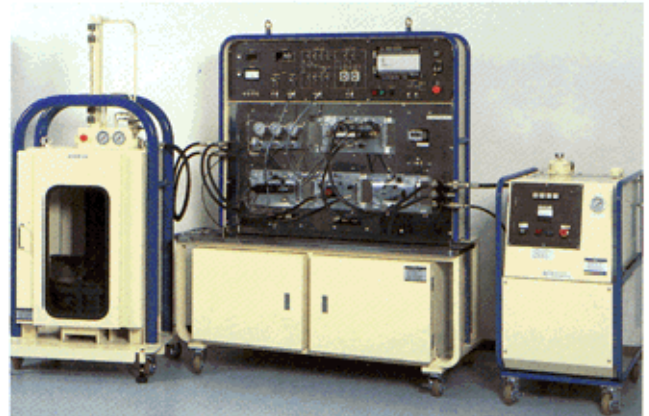
Model Numbers	Geometric Displacement cm ³ /rev	Operating Pres. MPa		Max. Shaft Speed r/min	Max. Flow at 1800r/min L/min	Hysteresis	Repeatability	Input Signal	Supply Electric Power
		Rated	Intermittent						
A16 — ※ R04E	15.8	16	21	600~1800	28.4	Less than 1%	Less than 1%	Max. Flow/ 5V DC Specified Control Pressure/ 5V DC	24V DC (21~28V Included Ripple)
A22 — ※ R04E	22.2	16	16		40.0				
A37 — ※ R04E	36.9	16	21		66.4				
A56 — ※ R04E	56.2	16	21		101				
A70 — ※ R04E	70.0	25	28		126				
A90 — ※ R04E	91.0	25	28		163				
A145 — ※ R04E	145	25	28		261				

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Associated Products

Training System for Oil Hydraulics

- Functions and performance
You will learn the functions and performance of basic hydraulic systems and / or components such as hydraulic pumps and control valves.
- Electro-hydraulic equipment
You will learn how hydraulic equipment are controlled by computers, sequence controllers, etc.
- You can experience the dynamic power and control of hydraulics.
Most of the training kits on the market use low pressure and low pressure scale models for trainees to learn the characteristics and / or control of hydraulic equipment. However, you will note with these training kits you can not feel or obtain any reality of hydraulic power and control.
Only with our HTU-300 series training kits, you can learn and feel the real hydraulic power and control by using weights of 150 kg, to create a load.



HTU-300 series

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