Integral Steering Unit

| | Built-in valve for steering system(Inlet check valve, Relief valve, Suction & Shock Valve) | . |
|--------------|---|----------|
| | Valve block mountable : Priority valve, Flow divider valve Displacement : 40~740cm³/rev | |
| and a second | Displacement: 40°140cm/1ev Rated flow: 8~45L/min Max pressure: 175kgf/cm²(17.2MPa) | 💊 🝱 |

Rear Port Steering Unit

| Rear and Ports(available with integrated fittings of the ORFS type) Integrated steering column Easy mounting Small and lightweight | |
|---|--|
| Displacement : 32~100c[#]/rev Rated flow : 8~20L/min Max pressure : 140kgf/c[#](13.7MPa) | |

Mini Steering Unit

| | Small and lightweight Used in small vehicles such as garden tractors, sweepers, small tractors., etc. Valve block can be available | | |
|--|--|--------------|--|
| | Displacement : 31~80cm²/rev Rated flow : 8~16L/min Max pressure : 140kgf/cm²(13.7MPa) | 0 = 0 | |

Auto Steering



- Manual operation and proportional control valve

- integrated(valve detachable) • Priority valve integrated (Load sensing type)
 - EF Flow available
 - Safety shut-off valve integrated
 - Displacement: 50~250cm/rev
 - Rated flow : 28L/min
 - Max pressure : 210kgf/cm²(20.6MPa)

Torque Generator

- Hydraulic and mechanical steering system
- Used in small vehicles such as rice-transplanters, lawn mowers, RTV, sweepers
- Converts the oil supplied from the pump into mechanical energy
- Displacement: 80~100c³/rev
- Rated flow : 9.5~15.1L/min
- Max pressure : 70kgf/cm²(6.9MPa)



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Flow Amplifier

| | Used for wheel loaders, articulated dump trucks, tractors., etc. Amplifiers the flow supplied from power steering unit by 4 to 10 times Low pressure loss at high flow rates | _ |
|---------|--|---|
| 3.00.00 | Max steering pressure : 210kgf/cm²(20.6MPa) Rated flow : 160~400L/min Total displacement of steering system : 480~4,000cm³/rev | |

Priority Valve



- Used in load sensing system
- Give priority to EF with out steering and to CF with steering
- Rated flow: 40, 80, 120, 160, 230L/min
- In-line mounting type, direct mounting type
- Dynamic signal, static signal



Gerotor Motor

| 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Gerotor set provide small volume, high efficiency and long life Shaft seal can bear high pressure Advanced construction design, high power and low weight | |
|--|---|--|
| 0,00 | Displacement : 36~500cn³/rev Max speed : 150~1,650rpm Max torque : 96~680N.m | |

Geroler Motor



- Geroler set guarantee low pressure at start-up, provide smooth, reliable operation and high efficiency
- Shaft seal can bear high pressure
- Various shaft option
- Displacement : 36~382cm/rev
- Max speed : 190~1,220rpm
- Max torque : 105~680N.m

Fan Gear Motor

- Bear heavy load by bearings
- Wide range of shaft, flange and port connections is available
- Built in valve : Pressure relief valve, revers valves, anti-cavitation valve(for fan drives)
- Displacement : 19, 31cm³/rev
- Rated pressure : 210kgf/cm²
- Max speed : 3,000rpm



SIP Gear Pump

| | Aluminum gravity casting body Long, quiet operation even under extreme operating conditions Wide selection of shaft and flange Optional priority valve available | |
|-------|---|-----|
| 2.500 | Displacement : 11.9~32cm³/rev Speed : 600~2,700rpm Rated pressure : 250kgf/cm² | 000 |

SEP Gear Pump

| | Cast iron material body Long, quiet operation under extreme operating conditions Wide selection of shaft and flange | | |
|--|---|--|--|
| | Displacement : 11.9~32cm/rev Speed : 600~2,700rpm Rated pressure : 250kgf/cm² | | |

SMP Gear Pump

| e | | |
|---|------|--|
| | LE . | |

- Extruded aluminum body
- Long, quiet operation under extreme operating conditions
- Wide selection of shaft and flange
- Displacement: 4~28c^m/rev
- Speed : 600~3,000rpm(2,500rpm for bigger than 22cm/rev)
- Rated pressure : 210kgf/cm²(180kgf/cm² for bigger than 22cm³/rev)

SHP Gear Pump



- Cast iron body
- · Long, quiet operation under extreme operating conditions
- Wide selection of shaft and flange
- Displacement: 35~60c^m/rev
- Speed : 500~3,000rpm
- Rated pressure : 250kgf/cm²



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LNP Low-Noise Gear Pump



- Extruded aluminum body
- Wide range of use by high pressure and efficiency
- Low noise by reducing gear backlash
- Displacement: 14, 16.5, 19.6cm//rev
- Speed : 500~3,000rpm
- Rated pressure: 210kgf/cm²
- Noise : Under 75dB(A) at 210kgf/cm²



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Product Introduction

Control Valve for Small Forklift



- Suitable for 2~3ton forklift
- Consists of two-four section blocks
- Operation of lifting, tilting and auxiliary functions of forklifts
- Nominal flow rate : 95L/min
- Main relief valve : 210kgf/cm²
- Auxiliary relief valve : 165kgf/cm²

Control Valve for Medium Forklift



- Suitable for 3.5~4.5ton forklift
- Consists of two-five section blocks
- Operation of lifting, tilting and auxiliary functions of forklifts
- Nominal flow rate : 110L/min
- Main relief valve : 240kgf/cm²
- Auxiliary relief valve : 150kgf/cm²

Control Valve for Large Forklift



- Suitable for 5~8ton forklift
- Consists of two-five section blocks
- Operation of lifting, tilting and auxiliary functions of forklifts
- Nominal flow rate : 160L/min
- Main relief valve : 188kgf/cm²
- Auxiliary relief valve : 153kgf/cm²

Control Valve for Wheel Loader



- Suitable for Wheel loaders
- Consists of two-three section blocks
- Operating bucker cylinder and boom cylinder of wheel loader
- Nominal flow rate : 180L/min
- Main relief valve: 210kgf/cm²
- Auxiliary relief valve : 240kgf/cm²

Proportional Control Valve



- Spool control by electric signal
- Quick response and energy saving through load reduction
- Integral relief valve, Shock Valve, etc
- Max flow rate : 150L/min
- Main relief valve : 250kgf/cm²
- Nominal voltage : DC 12V



Brake Master Cylinder



- Suitable for systems require big brake force on small operation force
 Adjustable flow rate by built-in flow control valve
- Inlet flow : 3~4.5L/min
- Brake work force : 145kfg at 83kgf/cm²(stroke : 11.3mm)
- Boosting ratio : approximately

Transmission Control Valve

| Valve to control the transmission of forklift Operation by solenoid valve Inching valve and accumulator valve are for shock protection efficient control | |
|--|--|
| 2~5.5ton Forklift Relief pressure : 8~15kgf/cⁿ Electricity of solenoid valve : DC12V, DC24V Direction : [F, R], [F1, R1, F2, R2] | |

PTO Shuttle Valve

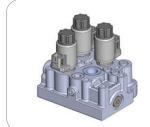


- PTO Shuttle valve improves the capacity of agricultural vehicles by converting the powertrain driving power to the work machine
- Main pressure : 10~22kgf/cm²
- Solenoid valve: 12~24VDC
- Connector : Leadwire / Duetsch / Etc



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PSV Shuttle Valve



• PSV Shuttle valve controls the transmission of agricultural machinery and forklifts and controls the gear shift by using a proportional control valve

- Main pressure: 10~22kgf/cm²
- Solenoid valve : 12~24VDC
- Connector : Leadwire / Duetsch / Etc



Dual Flow Divider



- Flow control valve and priority valve are combined into one
 Function : BF(Brake Master Cylinder / CF(Steering Unit) /
- EF(Main Control Valve)
- Nominal flow : 180L/min
- Main relief valve : 210kgf/cm²
- Auxiliary relief valve : 240kgf/cm²



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Product Introduction

Flow Divider

| | Adjustable orifice allows adjustment of required flow Transporting constant flow to the regulated port regardless of the pressure and the flow of input fluid | _ |
|---|--|----|
| • | Max system pressure : 210kgf/cm² Controlled flow : 1~15L/min | 60 |

Cushion Valve



- Minimizes impact at the stroke end of cylinder
- Used for large equipment such as wheel loaders
- Max system pressure : 210kgf/cm²
- Pilot valve relief pressure : 15kgf/cm²

Flow Control Valve

| Pressure-com | nensation flo | w control | valve |
|----------------------------------|---------------|-----------|-------|
| • FIESSUIE-COIII | pensation nu | | valve |

- Transporting constant oil to the regulated port regardless of the pressure and the flow of input fluid
- Max system pressure: 210kgf/cm²
- Max flow : 118L/min
- Controlled flow : 11~33L/min
- Relief valve pressure : 70~175kgf/cm²

Other Valve

Flow Regulator

- Stable operation of cylinder descent
- Regulating flow : 20~180L/min
- Working pressure : 6~210kgf/cm

By-pass Valve

- Maintain constant pressure in requested flow
- Cracking pressure: 1.5~4.5kgf/cm²
- Flow rate : 105~145L/min

Other Valve

| 0 | Safety Valve Valve prevents over flow Max pressure : 350kgf/cm² Closing flow : 5~330L/min | |
|---|---|--|
| | Solenoid Valve Cartridge type on-off valve Flow rate : 5L/min(at 15kgf/cm²) Internal leakage : 10cm²/min(at 27.5kgf/cm²) | |

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