

PRODUCT OVERVIEW

# HYDRAULIC CONTROL VALVES AND TEST EQUIPMENT



# ABOUT US

## Improving the performance of hydraulic machinery worldwide

We are specialist manufacturers of hydraulic measurement and control products helping to improve the productivity of heavy machinery.

For 60 years we have been helping customers worldwide in the industrial, mobile, and agricultural sectors to diagnose hydraulic faults, verify hydraulic conditions and achieve repeatable hydraulic control.

Using our **Make it BLUE**® manufacturing process we help customers maximise the potential of their hydraulic machinery but without the complexity of costly consultancy.

# HOW TO USE THIS GUIDE

## Typical Applications

-  Aerospace ground support
-  Agricultural
-  Automotive
-  CNC machining
-  Construction
-  Forestry
-  Hydraulic repair and rebuild
-  Marine
-  Materials handling
-  Military
-  Mining and Quarrying
-  Municipal vehicles
-  Oil and Gas
-  Power plants
-  Steel and paper mills
-  Truck and Bus

## Product Category

### FLOW CONTROL TWO-PORT

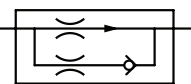
### ILFC SERIES

### AT A GLANCE



## Fixed Flow Pressure Compensated Control Valve

- Maximum Rated Pressure: 210 bar, 3000 psi
- Maximum Rated Flow: 16 L/min, 4 US gpm
- Porting: SAE, BSPP & NPTF
- Materials: Body Materials: Zinc Plated Steel Body  
Internal Materials: Steel and Aluminium
- Seals: NBR
- Mounting: In-line



## Product image

Full product descriptions and more information can be found online using the QR codes provided.

## Product details

Including the Product Series, Product Title, and Product Description.

## Hydraulic symbol

# BEGIN

Free-to-access educational material



# LISTEN

To understand your challenge



# UPGRADE

3D CAD, rapid prototype and working sample



# ENGINEER

A 'functionally superior' product with a touch of Blue



## SUPPORT

Training, advice, repair, recalibration







HYDRAULIC MEASUREMENT AND CONTROL

# HYDRAULIC CONTROL VALVES

FLOW CONTROL TWO-PORT

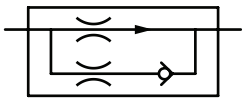
ILFC SERIES

AT A GLANCE



## Fixed Flow Pressure Compensated Control Valve

- Maximum Rated Pressure: 210 bar, 3000 psi
- Maximum Rated Flow: 16 L/min, 4 US gpm
- Porting: SAE, BSPP & NPTF
- Materials: Body Materials: Zinc Plated Steel Body  
Internal Materials: Steel and Aluminium  
Seals: NBR
- Mounting: In-line



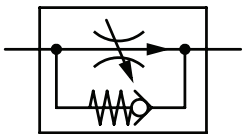
VFC SERIES

AT A GLANCE



## Variable Flow Pressure Compensated Control Valve

- Maximum Pressure: 210 bar, 3000 psi
- Maximum Flow: 55 L/min, 15 US gpm
- Porting: SAE, BSPP & NPTF
- Materials: Body Materials: Aluminium  
Internal Materials: Carbon Steel  
Seals: NBR, PTFE



FLOW CONTROL THREE-PORT

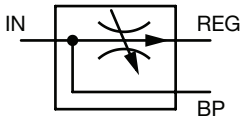
VFD50 SERIES

AT A GLANCE



## Variable Priority Flow Dividers

- Maximum Pressure: Up to 250 bar, 3,625 psi
- Total Flow: Up to 50 L/min, 13.2 US gpm
- Maximum Priority (REG) Flow: Up to 30 L/min, 7.9 US gpm
- Porting: BSPP, NPT, Manifold Mount
- Material: Steel components in cast SG Iron body.  
Aluminium knob
- Weight: Typically 0.75 kg, 1.65 lbs



FLOW CONTROL THREE-PORT

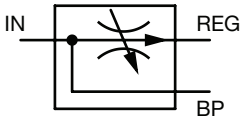
VFD120 SERIES

AT A GLANCE



## Variable Priority Flow Dividers

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Total Flow: Up to 120 L/min, 32 US gpm
- Maximum Priority (REG) Flow: Up to 95 L/min, 25 US gpm
- Porting: BSPP, SAE, NPT, METRIC
- Material: Steel components in cast Ductile Iron body painted black  
Aluminium knob
- Weight: Typically 2.0 kg, 4.4 lbs



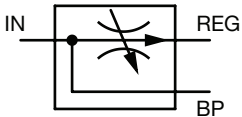
VFD190 SERIES

AT A GLANCE



## Variable Priority Flow Dividers

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Total Flow: Up to 190 L/min, 50 US gpm
- Maximum Priority (REG) Flow: Up to 150 L/min, 40 US gpm
- Porting: BSPP, SAE
- Material: Steel components in cast Ductile Iron body painted black  
Aluminium knob
- Weight: 3.5 to 4.0 kg, 7.7 to 8.8 lbs



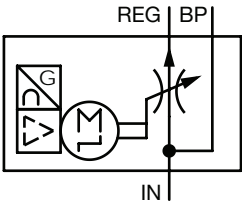
VFD120MD SERIES

AT A GLANCE



## Variable Priority Flow Dividers with Remote Proportional Control

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Total Flow: Up to 120 L/min, 32 US gpm
- Maximum Priority (REG) Flow: Up to 110 L/min, 30 US gpm
- Porting: BSPP, SAE, NPTF, METRIC
- Material: Steel components in cast Ductile Iron body painted black  
Drive Mechanism mounted on aluminium plate and mild steel bracket
- Weight: 2.75 kg, 4.4 lb



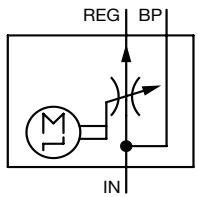
VFD120-E SERIES

AT A GLANCE



## Variable Priority Flow Dividers with Electric Motor Drive

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Total Flow: Up to 120 L/min, 32 US gpm
- Maximum Priority (REG) Flow: Up to 110 L/min, 30 US gpm
- Porting: BSPP, SAE, NPTF, METRIC
- Material: Steel components in cast Ductile Iron body painted black  
Drive Mechanism mounted on aluminium plate and mild steel bracket
- Weight: 2.75 kg, 4.4 lb



FLOW CONTROL THREE-PORT

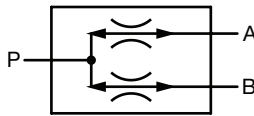
FDC60 SERIES

AT A GLANCE



Flow Divider  
Combiner

- Maximum Rated Pressure: Up to 310 bar, 4,500 psi
- Maximum Rated Flow: Up to 70 L/min, 18 US gpm
- Ambient Temperature Range: -30 to 100°C, -22 to 212°F
- Fluid Temperature Range: -30 to 100°C, -22 to 212°F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office
- Accuracy: +/- 2.0% of valve rated maximum flow



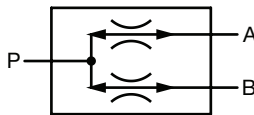
FDC140 SERIES

AT A GLANCE



High Flow  
Divider Combiner

- Maximum Rated Pressure: 420 bar, 6000 psi
- Maximum Total Flow: Up to 140 L/min, 37 US gpm
- Ambient Temperature Range: -30 to 100 °C, -22 to 212 °F
- Fluid Temperature Range: -30 to 100 °C, -22 to 212 °F
- Hydraulic Fluid: Mineral & Synthetic oils. For other fluid types contact sales
- Accuracy/ Tolerances: +/- 1.5% of valve rated maximum flow



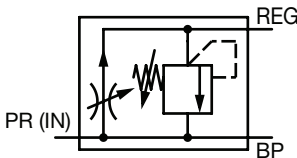
RV, CK & M SERIES

AT A GLANCE



Variable Priority Flow Dividers with  
Built in Relief or Check Valve

- Maximum Rated Pressure: Up to 250 bar, 3630 psi
- Maximum Rated Flow: Up to 114 L/min, 30 US gpm
- Compatible Fluids: Other fluids consult sales office
- Porting: BSPP, NPTF, SAE, METRIC
- Material: Body Materials: Cast Iron, Aluminium knob  
Internal Materials: Steel components
- Weight: 3.5 kg, 7.7 lbs



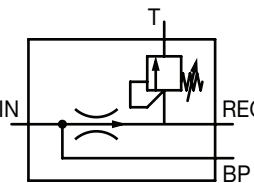
FV120 / 200

AT A GLANCE



Fixed and proportional  
flow divider valves

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Maximum Flow Capacity: 76 L/min, 20 US gpm
- Porting: BSPP, SAE
- Material: Steel components in cast iron body
- Weight: 1.6 kg, 3.5 lb
- Mounting: 2 Bolts, M8 or 5/16"



MONOBLOCK

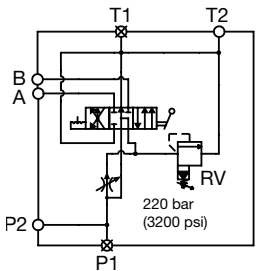
CV120 SERIES

AT A GLANCE



Combination Valve - Variable Priority  
flow divider with Directional Control

- Maximum Rated Pressure: Up to 250 bar, 3600 psi
- Total Flow Capacity: 120 L/min, 32 US gpm
- Regulated Flow Capacity: Up to 95 L/min, 25 US gpm
- Porting: BSPP, SAE
- Material: Steel components in cast Ductile Iron body painted black  
Aluminium knob
- Weight: 8.9 kg, 19.5 lb



DIRECTIONAL ZERO-LEAK

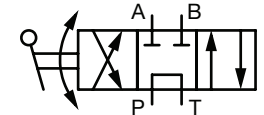
180 SERIES

AT A GLANCE



Rotary Shear Directional  
Control Valve

- Maximum Rated Pressure: Up to 700 bar, 10,000 psi
- Maximum Rated Flow: Up to 38 L/min, 10 US gpm
- Ambient Temperature: -20 to 50°C, -4 to 122°F
- Media Temperature: -30 to 120°C, -22 to 248°F
- Porting: BSPP, SAE, NPTF, Manifold Mount
- Material: Body Materials: Aluminium, Phenolic resin knob.  
Internal Materials: Carbon Steel  
Seal: NBR



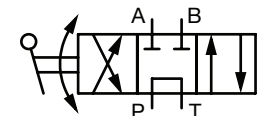
280 SERIES

AT A GLANCE



Stainless Steel Rotary Direction  
Control Valve for Hydraulics  
in a Harsh Environment

- Maximum Rated Pressure: Up to 700 bar, 10,000 psi
- Maximum Rated Flow: Up to 38 L/min, 10 US gpm
- Ambient Temperature: -20 to 50°C, -4 to 122°F
- Media Temperature: -30 to 120°C, -22 to 248°F
- Porting: BSPP, NPTF, SAE, Manifold Mount
- Material: Body Materials: Stainless Steel, Phenolic resin knob.  
Internal Materials: Carbon Steel  
Seal: NBR



DIRECTIONAL SPOOL TYPE

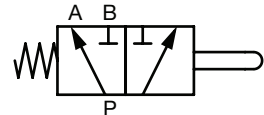
SV80 SERIES

AT A GLANCE



Diverter  
Valve

- Maximum Rated Pressure: Up to 210 bar, 3000 psi
- Maximum Rated Flow: Up to 80 L/min, 21 US gpm
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office
- Material: Internal Material: Stainless Steel  
Body Material: Cast Iron
- Porting: BSPP, SAE
- Weight: 2 kg, 4.4 lb





PRESSURE RELIEF

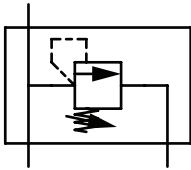
RV5

AT A GLANCE



Pressure Relief Valve

- Maximum Pressure: Up to 276 bar, 4000 psi
- Maximum Flow: Up to 70 L/min, 18 US gpm
- Porting: 3/4" BSPP
- Material: Body Materials: High Tensile Aluminium  
Internal Materials: Steel  
Cartridge: Steel
- Weight: 0.73 kg, 1.6 lb
- Mounting: One 8.7mm x 40mm, 0.343" x 1.575" Mounting Hole



INDUSTRIAL CONDITION MONITORING

FLOW AND TEMPERATURE

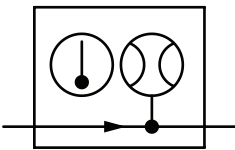
FI750 SERIES

AT A GLANCE



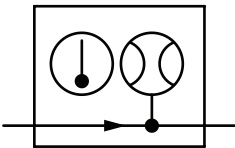
In-Line Flow Indicator

- Maximum Rated Pressure: Up to 420 bar, 6,000 psi
- Maximum Rated Flow: Up to 180 L/min, 48 US gpm
- Ambient Temperature: -10 to 50°C, 14 to 122°F
- Porting: BSPP, NPSF, SAE
- Material: Body Material: Aluminium 2011T6  
Internal Material: Mainly Brass  
Seal: FKM
- Weight: 1.4 kg, 3.1 lbs



In-Line Flow Indicator

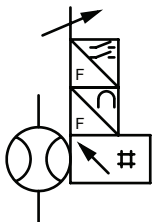
- Maximum Rated Pressure: Up to 350 bar, 5000 psi
- Maximum Rated Flow: Up to 400 L/min, 100 US gpm
- Ambient Temperature: -10 to 50°C, 14 to 122°F
- Porting: BSPP, SAE
- Material: Body Materials: Aluminium 2011T6  
Internal Materials: Mainly Brass  
Seals: FKM
- Weight: 3.2 kg, 7 lb



FLOWHUB SERIES

Flow, Temperature, Measure, Display, Switch, Transmit

- Maximum Rated Pressure: 420 bar, 6000 psi
- Maximum Rated Flow: 360 L/min, 95 US gpm
- Ambient Temperature Range: 0 to 50°C, 32 to 122°F
- Fluid Temperature Range: 5 to 90°C, 41 to 194°F
- Porting: Male BSPP, Male SAE JIC
- Material: Body Materials: Aluminium  
Internal Materials: Brass, Stainless Steel, Carbon Steel



FLOW AND TEMPERATURE

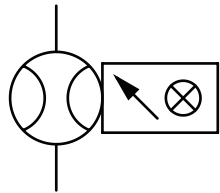
WP SERIES

AT A GLANCE



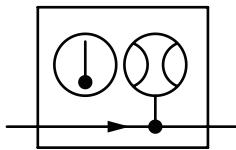
Hydraulic Flow Monitor

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Maximum Rated Flow: Up to 550 L/min, 150 US gpm
- Maximum Rated Temperature: 116°C, 240°F
- Accuracy:  $\pm 2.0\%$  of full scale (-BI code  $\pm 0.4\%$  of full scale)
- Porting: BSPP, NPTF, SAE
- Material: Body Materials: Aluminium, Brass or Stainless Steel  
Internal Materials: Stainless Steel



Reversible Flow Indicator

- Maximum Rated Pressure: Up to 420 bar, 6000 psi
- Maximum Rated Flow: Up to 200 L/min, 54 US gpm
- Ambient Temperature: -10 to 50°C, 14 to 122°F
- Porting: BSPP, SAE
- Material: Body Materials: Aluminium 2011T6  
Internal Materials: Stainless Steel, Brass  
Seals: NBR, FKM
- Weight: 2.0 kg, 4.4 lb



PRESSURE

J1939 SERIES

AT A GLANCE



SAE J1939 CAN compatible sensors for hydraulic system monitoring

- Maximum Rated Pressure: 480 bar, 7000 psi
- Maximum Flow: 1500 L/min, 400 US gpm
- Ambient Temperature Range: 5 to 40°C, 41 to 104°F
- Fluid Temperature Range: 5 to 90°C, 41 to 194°F continuous use
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office.
- Accuracy/Tolerances: Reading 15% to 100% of flow range - 1% of indicated reading. Readings below 15% of full scale flow - fixed accuracy of 0.15% of full scale (CT15 is 1% of full scale).



MECHANICAL HYDRAULIC TESTERS

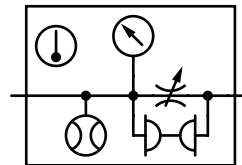
RFIK SERIES

AT A GLANCE



Mechanical Hydraulic Tester

- Maximum Rated Pressure: Up to 420 bar, 6090 psi
- Maximum Flow: Up to 270 L/min, 70 US gpm
- Ambient Temperature Range: -10 to 50°C, 14 to 122°F
- Fluid Temperature Range: 20 to 80°C, 68 to 176°F
- Compatible Fluids: Mineral oils, Other fluids consult sales office
- Accuracy: Flow:  $\pm 4\%$  FS  
Pressure:  $\pm 1.6\%$  FS  
Temperature:  $\pm 2.5^\circ\text{C}$ ,  $\pm 5^\circ\text{F}$



DIGITAL HYDRAULIC TESTERS

DHT SERIES

NEW

AT A GLANCE



Digital Hydraulic Tester

- Maximum Rated Pressure: Up to 480 bar, 7000 psi
- Maximum Rated Flow: Up to 800 L/min, 210 US gpm
- Fluid Temperature Range: -10 to 120°C, 14 to 250°F
- Ambient Temperature: -10 to 50°C, 14 to 122°F
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office
- Accuracy: Flow:  $\pm 1\%$  full scale  
Pressure:  $\pm 1.6\%$  full scale  
Temperature:  $\pm 1^\circ\text{C}$ ,  $\pm 2^\circ\text{F}$



DIGITAL HYDRAULIC MULTIMETERS

DHM 4 SERIES

AT A GLANCE



Digital Hydraulic Multimeter

- Maximum Rated Pressure: Up to 480 bar, 7000 psi
- Maximum Rated Flow: Up to 800 L/min, 210 US gpm
- Ambient Temperature: 5 to 40°C, 41 to 104°F
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE
- Material: Case: Powder coat painted Mild Steel  
Flow Block: High tensile aluminium  
Seal: FKM







HYDRAULIC MEASUREMENT AND CONTROL

## HYDRAULIC DATALOGGERS

### DATALOGGERS

#### HPM110 SERIES

##### AT A GLANCE



#### Digital Pressure Gauge

- Maximum Rated Pressure: Up to 600 bar, 8700 psi
- Ambient Temperature Range: -10 to 50 °C, 14 to 144 °F
- Fluid Temperature Range: -20 to 80 °C, 4 to 176 °F
- Compatible Fluids: oil, water, other fluids consult sales office
- Accuracy/ Tolerances:  $\pm 0.5\%$  Full Scale
- Porting: BSPP, SAE



#### HPM4000 SERIES

##### AT A GLANCE



#### Hydraulic Data Logger

- Operating Temperature Range: 0 to 50°C, 32 to 122°F
- Power Supply: Input 100 - 240 VAC
- Connection Type: Micro-USB socket, Type B, +5 VDC max 1000mA
- Battery: Lithium Ion pack 3.7 VDC, 4500 mAh
- Battery life: With 2 sensors >8 hours
- Degree of Protection: IP67 (EN60529)



#### HPM5000 SERIES

##### NEW

##### AT A GLANCE



#### Hydraulic Data Logger

- Ambient Temperature Range: -20 to 50°C, -4 to 122°F
- Ports: USB-C (fast charging and data transmission between device and PC), USB-A host (data storage via USB memory stick)
- Battery: Lithium-Ion pack, 7.2 V / 3500 mAh / 25.44 Wh
- Degree of Protection: IP65 (EN 60529:1989 + A1:1999 + A2:2013)
- Material: Body Material: ABS/PC (thermoplastic), Body Protective Material: ABS/PC (thermoplastic elastomer)
- Mounting: Folding Stand and VESA standard 75 x 75 mm / M4 metric



#### HPM7000 SERIES

##### AT A GLANCE

#### Hydraulic Data Logger

- Ambient Temperature: -10 to 50 °C, 14 to 122 °F
- Memory: 12GB
- Ports: USB device (data transmission between device and PC)  
USB host 1 (connection with external storage media)  
USB host 2 (connection with external storage media)  
LAN (connection with network cable)
- Material: Body materials: ABS/PC (thermoplastic)  
Body Protective Materials: TPE (thermoplastic elastomer)
- Weight: 1.88 kg, 4.1 lb (without input modules)
- Mounting: Carrying Strap, Folding Stand and VESA, standard 100 x 100 mm / M4 metric



### SENSORS FOR DATALOGGERS

#### PRESSURE / TEMPERATURE SENSORS

##### AT A GLANCE



#### SR & Intelligent Digital (CANopen) sensors and accessories for use with HPM Series

- Maximum Rated Pressure: 1000 bar, 14,500 psi
- Ambient Temperature Range: -25 to 85°C, -13 to 185°F
- Fluid Temperature Range: -25 to 105°C, -13 to 221°F continuous use
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office
- Accuracy/Tolerances: Pressure:  $\pm 0.5\%$  full scale  
Temperature:  $\pm 3$  °C, 5.4 °F (SR-PTT-\* ONLY)
- Porting: Supplied with M16 x 2 test point connector rated to a maximum pressure of 630 bar, 9100 psi and a 'live' connection pressure of 400 bar, 5800 psi or less

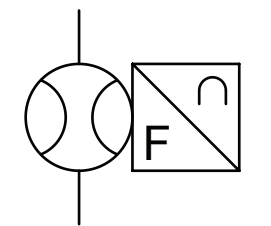


#### CT FOR HPM SERIES

##### AT A GLANCE

#### Turbine Flow Meters

- Maximum Rated Pressure: 480 bar, 7000 psi
- Maximum Flow: 1500 L/min, 400 US gpm
- Ambient Temperature Range: -10 to 50°C, 14 to 122°F
- Fluid Temperature Range: -20 to 90°C, -4 to 194°F continuous use
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE

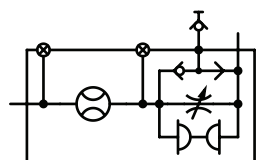


#### CTR FOR HPM SERIES

##### AT A GLANCE

#### Turbine Flow Meters with Built-In Loading Valve

- Maximum Rated Pressure: 480 bar, 7000 psi
- Maximum Flow: 750 L/min, 200 US gpm
- Ambient Temperature Range: -10 to 50°C, 14 to 122°F
- Fluid Temperature Range: -20 to 90°C, -4 to 194°F continuous use
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE





## TEST STAND INSTRUMENTATION

### HYDRAULIC DATA ACQUISITION

#### C2000

AT A GLANCE



### Hydraulic Data Acquisition System

- Modular 8-64 inputs
- Runs using Windows(TM) compatible software
- Hydraulic test solution
- Print test Certificates
- TCP/IP network ready
- Dedicated high-speed controller



### FLOW

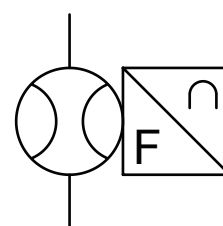
#### GF SERIES

AT A GLANCE



### Positive Displacement Flow Meters with Conditioned Output

- Maximum Rated Pressure: 420 bar, 6,000 psi
- Maximum Rated Flow: 150 L/min, 40 US gpm
- Fluid Temperature Range: -40 to 120°C, -40 to 284°F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE
- Material: Body Materials: Stainless Steel  
Internal Materials: Stainless Steel  
Seals: NBR (Other seals consult sales office)



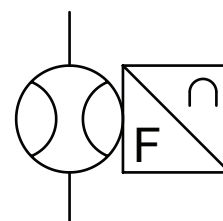
#### CT SERIES

AT A GLANCE



### Turbine Flow Meters with Conditioned Output

- Maximum Rated Pressure: 480 bar, 6,960 psi
- Maximum Flow: 1,500 L/min, 396 US gpm
- Ambient Temperature Range: 5 to 40°C, 41 to 104°F
- Fluid Temperature Range: 5 to 90°C, 41 to 194°F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE



### FLOW

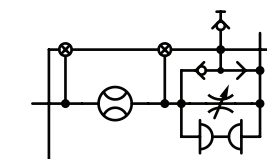
#### CTR SERIES

AT A GLANCE



### Turbine Flow Meters with Conditioned Output and Built-in Loading Valve

- Maximum Rated Pressure: 480 bar, 7,000 psi
- Maximum Rated Flow: 800 L/min, 210 US gpm
- Ambient Temperature Range: 5 to 40°C, 41 to 104°F
- Fluid Temperature Range: 5 to 90°C, 41 to 194°F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE



### PRESSURE, TEMPERATURE & SPEED

#### APM ADVANCED PANEL METERS

AT A GLANCE



### Digital process meters for analogue sensors

- Combined digital and bar graph display
- USB port for custom user settings
- Warning flash backlight
- Less than 53mm deep
- Display Range (Both Min & Max values)
- Two independent outputs or 4-20mA analogue monitor outputs



#### WIKA-A-10 TYPE

AT A GLANCE



### Pressure Transducers

- Maximum Rated Pressure: Up to 600 bar, 10,000 psi
- Operating Temperature Range: -40 to 100°C, -40 to 212°F
- Accuracy:  $\leq \pm 1\%$  Full Scale
- Material: Body Materials: Stainless Steel 316L, HNBR, PA  
Internal Materials: Stainless steel 316L and PH steel  
Materials: FKM
- Weight: 0.080 kg, 0.18 lbs
- Mounting: BSPP, SAE



#### SP-TTL SERIES

AT A GLANCE



### Magnetic Speed Pickup with Conditioned Output

- Ambient Temperature range: -5 to 40°C, 41 to 104°F
- Weight: 0.25kg, 0.55 lb
- Supply voltage (VS): 12 - 32 VDC
- Pulse output: 0 - 5 V square wave, minimum load 600 ohms
- Connection type: M12x1 5 pin
- Main Body: Steel 212A42 electroless nickel plated  
Lid: Aluminium 2011 T3 electroless nickel plated  
Treaded section: Steel 212A42 electroless nickel plate







### Temperature Sensors

- Maximum Rated Pressure: 480 bar, 7,000 psi
- Ambient Temperature: 5 to 40°C, 41 to 104°F
- Fluid Temperature Range: 0 to 125°C, 32 to 257°F
- Scaled Range: 0 to 150°C, 32 to 302°F
- Accuracy:  $\pm 1^{\circ}\text{C}$ ,  $\pm 2^{\circ}\text{F}$
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office



## MOBILE CONDITION MONITORING

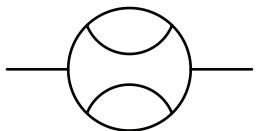


### Heavy Duty Hydraulic System Flow Monitor



Rugged, resilient hydraulic oil flow and temperature monitors designed for permanent installation in mobile or industrial machinery.

Ideal for industrial on and off-highway machinery to monitor hydraulic system performance. Suitable for closed loop control, real-time diagnostics, safety interlocks and inclusion in predictive maintenance / IoT systems to reduce down-time or enable autonomous vehicle operation.



Designed to meet the standards for components fitted to heavy duty machinery applications, the meters have a J1939 CAN-bus interface or 4-20 mA output for easy integration.

- Maximum Rated Pressure: 420 bar, 6,000 psi
- Maximum Flow: 300 L/min, 80 US gpm
- Fluid Temperature Range: -40 to 90 °C, -40 to 194 °F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office.
- Porting: BSPP, SAE
- Output: 4-20 mA (3-wire): M12 connector  
SAE J1939 Compatible: Deutsch connector



### SAE J1939 CAN compatible sensors for hydraulic system monitoring



- Maximum Rated Pressure: 480 bar, 7000 psi
- Maximum Flow: 1500 L/min, 400 US gpm
- Ambient Temperature Range: 5 to 40°C, 41 to 104°F
- Fluid Temperature Range: 5 to 90°C, 41 to 194°F continuous use
- Compatible Fluid: Mineral oils to ISO 11158. Other fluids consult sales office.
- Accuracy/Tolerances: Reading 15% to 100% of flow range - 1% of indicated reading. Readings below 15% of full scale flow - fixed accuracy of 0.15% of full scale (CT15 is 1% of full scale).

ACCESSORIES

PT SERIES

AT A GLANCE



Custom Pressure Test Kits

- Custom built to your specification - pick and mix from huge range
- The kit includes gauges, hoses, test points and adaptors
- Provides a complete test system for rapid pressure testing
- Pressure test points can be fitted anywhere in the circuit for instant pressure checks saving installation costs of piping and gauges
- Test hoses can be connected by hand under full system pressure without loss of oil or ingress of dirt. Ideal for taking oil samples and bleeding air
- The case provides ample storage. The gauge panel can be removed for convenient use while testing.



63 MM DIAMETER

AT A GLANCE



Pressure Gauges

- Bottom or centre back connection
- Glycerine filled
- 1/4" BSPP connection



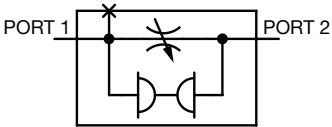
HV SERIES

AT A GLANCE



Loading Valves

- Maximum Rated Pressure: 420 bar, 6,000 psi)
- Maximum Rated Flow: Up to 800 L/min, 210 US gpm
- Ambient Temperature: 5 to 40°C, 59 to 104°F
- Fluid Temperature Range: 0 to 120°C, 32 to 248°F
- Compatible Fluids: Mineral oils to ISO 11158. Other fluids consult sales office
- Porting: BSPP, SAE



ACCESSORIES



BURST DISCS

Safety Burst Discs

- Guaranteed to rupture within the specified pressure range.
- Protects the load valve from accidental overpressurisation.
- Easy installation allowing side or top connections
- Fast and easy to replace.

AT A GLANCE





APPLICATIONS AND INDUSTRY SECTORS

Aerospace ground support	Materials handling
Agricultural	Military
Automotive	Mining and Quarrying
CNC machining	Municipal vehicles
Construction	Oil and Gas
Forestry	Power plants
Hydraulic repair and rebuild	Steel and paper mills
Marine	Truck and Bus



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