DutaFlow Hidrolik

Integrated Engineering Solutions



PRODUCT CATALOG 2023

For more than 25 years, we continue to improve ourselves through acquiring a broad range of knowledge for the various hydraulics solution provided by our partners who are global leading Hydraulics manufacturers.

Integrated Engineering Solutions



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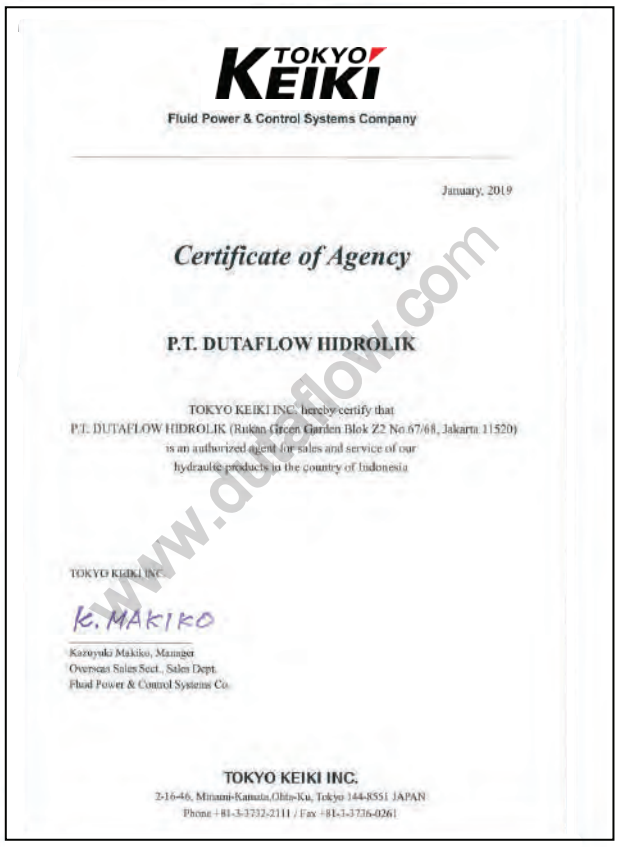
Product Brand



Certificates



TOKYO KEIKI

Fluid Power & Control Systems Company

January, 2019

Certificate of Agency

P.T. DUTAFLOW HIDROLIK

TOKYO KEIKI INC. hereby certify that
P.T. DUTAFLOW HIDROLIK (Rukan Green Garden Blok Z2 No.67/68, Jakarta 11520)
is an authorized agent for sales and service of our
hydraulic products in the country of Indonesia

TOKYO KEIKI INC.

K. MAKIKO

Kazuyuki Makiko, Manager
Overseas Sales Sect., Sales Dept.
Fluid Power & Control Systems Co.

TOKYO KEIKI INC.
2-16-46, Minami-Kamata,Ohta-Ku, Tokyo 144-8551 JAPAN
Phone +81-3-3732-2111 / Fax +81-3-3736-0261

www.dutaflow.com



Ref: AD-KB-2021-05 Registration No.: 199700376G

EATON
Powering Business Worldwide

EATON HYDRAULICS GROUP
INDUSTRIAL SECTOR

Authorized Premier Distributor Certificate

This is to certify

PT. Dutaflow Hidrolik

Rukan Green Garden Blok Z2/68
Jakarta 11520

is authorized to distribute within the territory of

Indonesia

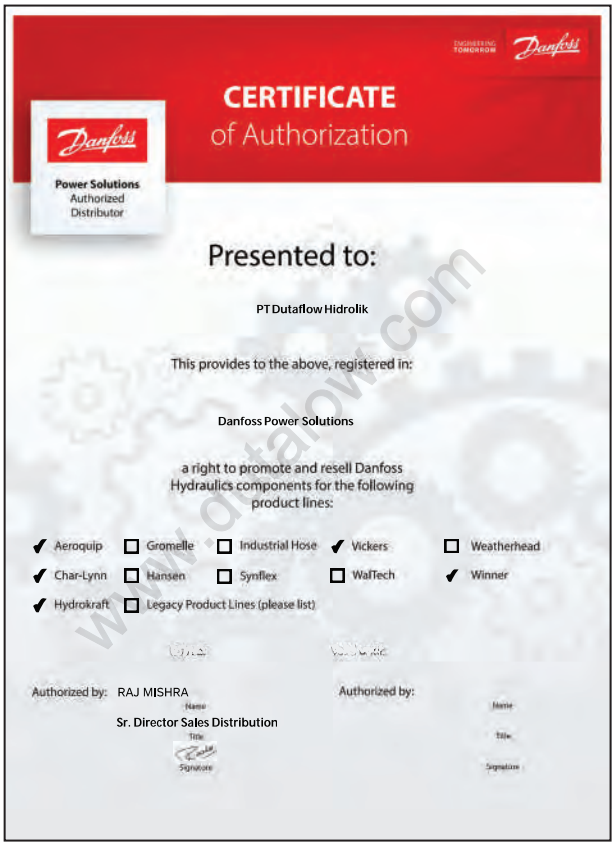
for

Eaton Hydraulic Products

George P. Hendro
Sales Director
Malaysia & Indonesia

Issued: **April 2021**
Validity till: **February 2024**

www.dutaflow.com



ENGINEERING TOMORROW Danfoss

CERTIFICATE
of Authorization

Danfoss
Power Solutions
Authorized
Distributor

Presented to:

PT Dutaflow Hidrolik

This provides to the above, registered in:

Danfoss Power Solutions

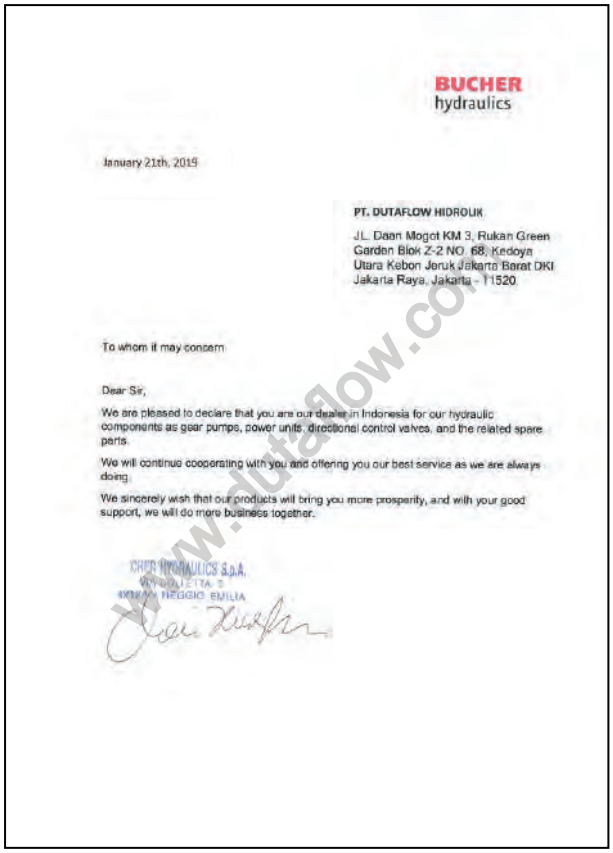
a right to promote and resell Danfoss
Hydraulics components for the following
product lines:

- ✔ Aeroquip
- ☐ Gromelle
- ☐ Industrial Hose
- ✔ Vickers
- ☐ Weatherhead
- ✔ Char-Lynn
- ☐ Hansen
- ☐ Synflex
- ☐ WalTech
- ✔ Winner
- ✔ Hydrokraft
- ☐ Legacy Product Lines (please list)

Authorized by: RAJ MISHRA
Name
Sr. Director Sales Distribution
Title
Signature

Authorized by:
Name
Title
Signature

www.dutaflow.com



BUCHER
hydraulics

January 21th, 2019

PT. DUTAFLOW HIDROLIK
JL. Daan Mogot KM 3, Rukan Green
Garden Blok Z-2 NO. 68, Kedoya
Utara Kebon Jeruk Jakarta Barat DKI
Jakarta Raya, Jakarta - 11520

To whom it may concern

Dear Sir,

We are pleased to declare that you are our dealer in Indonesia for our hydraulic components as gear pumps, power units, directional control valves, and the related spare parts.

We will continue cooperating with you and offering you our best service as we are always doing.

We sincerely wish that our products will bring you more prosperity, and with your good support, we will do more business together.

BUCHER HYDRAULICS S.p.A.
VIA GOLLETTA 5
IKIKAN NEGGIO EMILIA

www.dutaflow.com

Certificates



NACOL
NIPPON ACCUMULATOR CO., LTD.
415 Nishikubo, Shimizu, Shizuoka 424-0035 JAPAN
TEL : +81-54-367-1230 FAX : +81-54-367-1951
http : //www.nacol.co.jp E-mail : sales@nacol.co.jp

LETTER OF AUTHORIZATION

WE HEREWITH CONFIRM THAT

PT. DUTAFLOW HIDROLIK
Jl. Daan Mogot KM 3, Rukan Green Garden Blok Z-2 NO. 68,
Kelapa Utara Kebon Jeruk Jakarta Barat DKI Jakarta Raya
Jakarta – 11520 Indonesia
TEL:+62 – 21 – 5814173, FAX: +62 – 21 – 5815235

IS OUR DISTRIBUTOR IN INDONESIA, AND CAN GIVE TECHNICAL PRESENTATIONS AND PREPARE TO SUBMIT PRICE PROPOSALS OF THE PRODUCTS MADE BY NIPPON ACCUMULATOR CO., LTD. COVERING THE SALES TERRITORY OF INDONESIA.

Signed at Shizuoka Japan on 6th February, 2017
NIPPON ACCUMULATOR CO., LTD.

T.SUGIMURA, President

www.dutaflow.com



sun hydraulics®

AUTHORIZED DISTRIBUTOR CERTIFICATE

This is to certify that

PT DUTAFLOW HIDROLIK

Is an Autohorized Sun Hydraulics Distributor

In Indonesia

Marcelo Machado
General Manager, Asia

Raj Menon
President

Date of Issue: 19 December, 2019
Expiration: 31 December, 2021

Sun Hydraulic LLC | 1500 West University Parkway | Sarasota, FL 34243 | +1 941-363-1200

www.dutaflow.com



HYDRO LEDUC

HYDRO LEDUC SAS
Allée René Leduc – BP 9
F-54122 Azerailles
France
Phone: +33 3 83 75 77 40
Fax: +33 3 83 75 21 58
www.hydroleduc.com

PT. DUTAFLOW HIDROLIK

To whom it may concern:

Authorization letter:
Authorized reselling partner for Indonesia

This is to certify that the **PT. DUTAFLOW HIDROLIK** is Authorized reselling partner of our company and is therefore authorized to promote, resell and service our products within the territory of: Indonesia.

This certificate is valid until 31. December 2021

Best regards,

Mr Philippe POREL
Managing Director
HYDRO LEDUC

HYDRO LEDUC 54122 AZERAILLES

Allée René Leduc - B.P. 9 - 54122 Azerailles - France - Tél. : 03 83 75 77 40 - Fax : 03 83 75 21 58
Site Internet : www.hydroleduc.com - E-mail : email@hydroleduc.com

www.dutaflow.com



MP FILTRI

MP FILTRI spa - Via 1° Maggio, 3
20060 Pessano con Bornago (Milano) Italy
Tel: 0295703.1 - Fax:0295741497/95760188
http://www.mpfiltri.com
e-mail: sales@mpfiltri.com

Pessano con Bornago MI - IT, 07.01.2021

PT DUTAFLOW HIDROLIK
Jl. Daan Mogot KM 3
Rukan Green Garden Blok Z2/68
11520 JAKARTA
IDN

Obj.: Authorized distributor letter

Dear Mr. Kismanto,

We would like to inform you that PT DUTAFLOW HIDROLIK has been selected as authorized distributor for the sales of entire range of Mp filtri s.p.a. products in the country of Indonesia.

Their office is at following address:

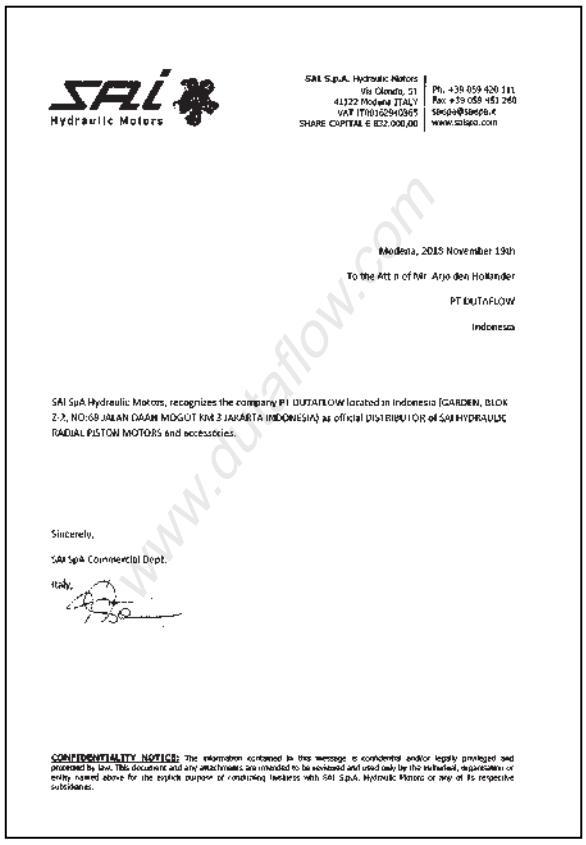
PT DUTAFLOW HIDROLIK
Jl. Daan Mogot KM 3
Rukan Green Garden Blok Z2/68
11520 JAKARTA
IDN

Validity of this letter is until Dec. 31st, 2021

MP FILTRI S.P.A.
Export Sales Area Manager
Benoît Marco

www.dutaflow.com

Certificates



SAI S.p.A. Hydraulic Motors
Via Olanda, 51
41122 Modena ITALY
VAT IT00162940365
SHARE CAPITAL € 822.000,00
Ph. +39 059 420 111
Fax +39 059 451 260
sai@saispa.it
www.saispa.com

Modena, 2015 November 19th

To the Att n of Mr Arjo den Hollander

PT DUTAFLOW

Indonesia

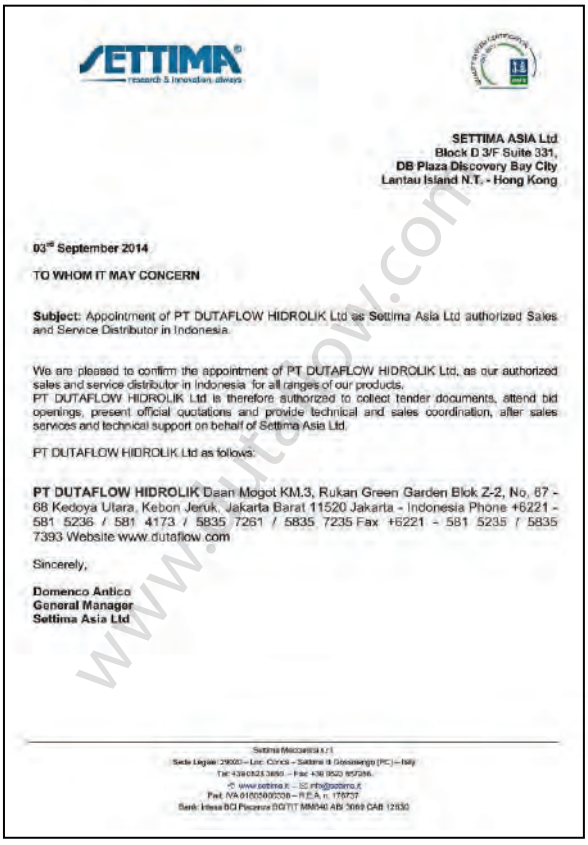
SAI SpA Hydraulic Motors, recognizes the company PT DUTAFLOW located in Indonesia [GARDEN, BLOK Z-2, NO:68 JALAN DAAN MOGOT Km 3 JAKARTA INDONESIA] as official DISTRIBUTOR of SAI HYDRAULIC RADIAL PISTON MOTORS and accessories.

Sincerely,

SAI SpA Commercial Dept.

Italy,

CONFIDENTIALITY NOTICE: The information contained in this message is confidential and/or legally privileged and protected by law. This document and any attachments are intended to be reviewed and used only by the individual, organization or entity named above for the explicit purpose of conducting business with SAI S.p.A. Hydraulic Motors or any of its respective subsidiaries.



SETTIMA ASIA Ltd
Block D 3/F Suite 331,
DB Plaza Discovery Bay City
Lantau Island N.T. - Hong Kong

03rd September 2014

TO WHOM IT MAY CONCERN

Subject: Appointment of PT DUTAFLOW HIDROLIK Ltd as Settima Asia Ltd authorized Sales and Service Distributor in Indonesia.

We are pleased to confirm the appointment of PT DUTAFLOW HIDROLIK Ltd, as our authorized sales and service distributor in Indonesia for all ranges of our products.
PT DUTAFLOW HIDROLIK Ltd is therefore authorized to collect tender documents, attend bid openings, present official quotations and provide technical and sales coordination, after sales services and technical support on behalf of Settima Asia Ltd.

PT DUTAFLOW HIDROLIK Ltd as follows:

PT DUTAFLOW HIDROLIK Daan Mogot KM.3, Rukan Green Garden Blok Z-2, No. 67 - 68 Kedoya Utara, Kebon Jeruk, Jakarta Barat 11520 Jakarta - Indonesia Phone +6221 - 581 5236 / 581 4173 / 5835 7261 / 5835 7235 Fax +6221 - 581 5235 / 5835 7393 Website www.dutaflow.com

Sincerely,

Domenco Antico
General Manager
Settima Asia Ltd



STAUFF South East Asia Sdn Bhd
(Company No. 953819-D)

No 8, Jalan SS13/6A,
Subang Jaya Industrial Estate,
47500 Subang Jaya, Selangor, Malaysia
Telephone : +603 5637 7888
Facsimile : +603 5636 7890
www.stauff.com
info@stauff.com.my

This is to certify that

PT DUTAFLOW HIDROLIK
Jalan Raya Panjang,
Ruka Green Garden Block Z2, No. 66- 69,
Jakarta Barat, 11520, Indonesia

is the **Authorized Distributor** for
fluid technology and hydraulics products under the brand name of

STAUFF

Local Solutions for Individual Customers Worldwide

This certificate is only valid for **Indonesia** region until **31st December 2021***

Brandon Lee Kok Hoe
Head, Sales & Marketing
for **Stauff South East Asia Sdn Bhd**

* Terms and Conditions Apply

STAUFF YOUR SUCCESS



POCLAIN
Hydraulics

LETTER OF AUTHORIZATION

Singapore 06th of December of 2018

PT. DUTAFLOW HIDROLIK
Jl. Raya Panjang,
Rukan Green Garden Blok Z2 No. 66-68
Kebon Jeruk, Kedoya Utara, Jakarta Barat 11520
Phone: +62-21-5815236
E-mail: sales@dutaflow.com ; kismanto@dutaflow.com

To Whom it may concern:

We are pleased to declare that PT. Dutaflow Hidrolik is our authorized distributor for sales our hydraulics products in the country of Indonesia.

We sincerely wish that our products will bring you more prosperity, and we await for more orders from you.

Yours faithfully,

THOMAS LIPUT
General Manager ASEAN PACIFIC

POCLAIN HYDRAULICS PTE LTD
10 Arkon Road, #20-10 International Plaza, 079903 SINGAPORE - Tel. +65 6220 1705 - Fax +65 6223 0950
Web: www.poclain-hydraulics.com

A Poclain Hydraulics Group company

Certificates



CROSS

CROSS MANUFACTURING, INC.

IN IT FOR THE LONG RUN
SINCE 1949

October 2, 2018

Re: New Distributor

Mr. Arjo den Hollander
PT DutaFlow Hidrolik
Tangerang, Indonesia

Mr. Hollander;

Cross Manufacturing is pleased to announce PT DutaFlow Hidrolik as a distributor for Indonesia and is authorized to sell all Cross products. PT DutaFlow Hidrolik may use the Cross logo on your website or in product literature as stipulated in our branding guidelines. This announcement does not grant or imply any ownership of Cross Manufacturing intellectual property, designs or other tangible or intangible property.

We look forward to a long and prosperous relationship between our two companies. Please let us know if we may be of assistance at any time.

Sincerely,

Bill Lynch
VP Sales and Marketing
Cross Manufacturing, Inc.

"Consult your tools to the land and your plans will be established." [illegible]

11011 King Street, Suite 210, Overland Park, KS 66210 Phone 913.451.1233 crossmfg.com ISO 9001



NOK EKK

Certificate of Appointment

PT Dutaflow Hidrolik

Is appointed as

Distributor

Of

NOK/EKK Accumulator Product

In

Republic of Indonesia

[Tan Yee Yaw]
Sales Director

[Chee Kiam Hong]
Sales Manager

NOK ASIA COMPANY PTE. LTD.
www.nok.com.sg

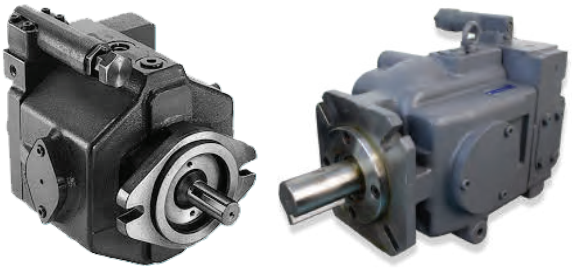
Hydraulic Pump and Motors

TOKIMEC TOKYO KEIKI



Low Noise Fixed Displacement Vane Pump
SQP, SQPS, V104/V134, V108/V138V20/V30 Series

- Delivery 7.5 l/min to 372 l/min
- Working pressure to 210 bar
- Speeds to 2700 r/min
- Single, double and triple pumps are available
- High performance and in versions which operate on water glycol or phosphate ester fluid



Variable Displacement Piston Pumps
PH, PV series**

- Displacements from 16 to 130 cm^3/r
- Continuous pressures to 250 bar
- Speeds to 3000 rpm
- Low noise and wide range control options
- Single and double pumps are available

Fixed Displacement Piston Pumps
For Energy Saving System
PHF series**

- Displacements from 40 to 170 cm^3/r
- Continuous pressures to 210 bar
- Speeds to 2300 rpm
- Low noise and wide range control option



Vane Motors
****M, MHT Series**

- Displacements from 44 to 12,400 cm^3/r
- Working pressures to 175 bar
- Speeds to 2600 r/min

Gear Motors
CR, GR-M, GRH Series

- HTLS heavy duty gerotor motors
- Displacements 62 to 600 cm^3/r
- Integral brake and two speed versions available
- Continuous pressures to 210 bar



High Pressure
Variable Displacement Piston Pumps
Open circuit in mobile & Industrial
PHC series

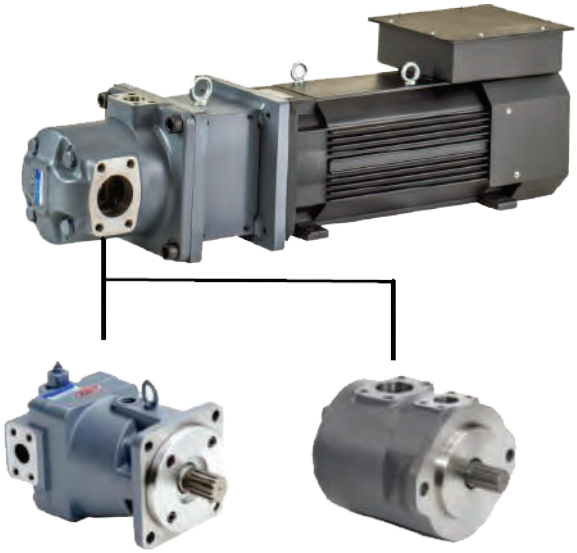
- Displacements 31, 45 & 80 cm^3/r
- Continuous pressures to 350 bar
- Speeds to 3000 rpm
- Single and double pumps are available



Hydraulic Mini Power Pack
V-PAC, TU-INV, TU-ED, TK series

- Low pressure pulsations for quiet running
- Continuous pressures to 250 bar
- Speeds to 3000 rpm
- Low noise and wide range control options
- Many configuration offered, including with integrated valve

TOKIMEC TOKYO KEIKI



Direct Drive Pump Unit
ESS Series

Tokyo Keiki's Direct Drive System is a hydraulic system featuring high performance and energy-saving operations.The system utilities a servomotor to exercise precise control of the pump speed and enables high reproducibe control for various flow rates and pressure levels.



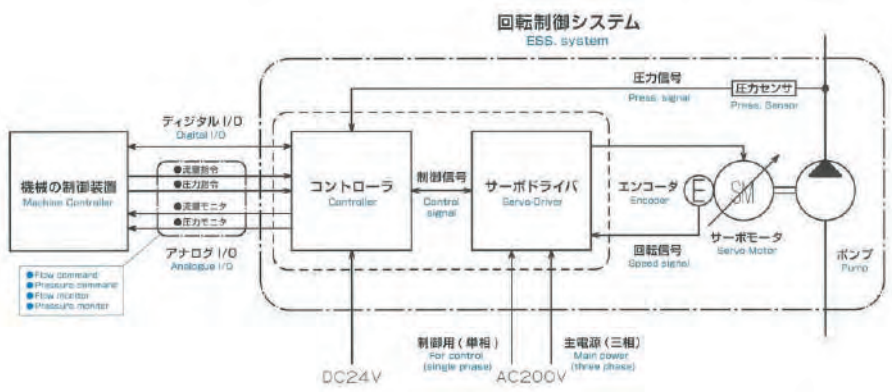
FEATURE :

Energy-Saving
Using the command signals from the equipment of the customer, the pump is driven only to the extent needed, meaning that no energy is wasted. Particulary dramatic energy-saving effects can be expected at the pressure retention stage.

High Performance
By exercising feedback control over speed and pressure, the control combines the advantages of reproducibility, stability and responsive-ness in an electrically driven system.

Software Control
The control unit uses software control to enable flexible support for applications.Multiple control gain levels can be set, enabling the best suited control for each customer.

Wide Variation
Control units range from 11 kW to 55 kW and enables support for a broad spectrum of applications.



Hydraulic Pump and Motors

EATON VICKERS



Heavy Duty Series 1 Variable Displacement Pump and Fixed Motor

- Speed up to 4160 rpm
- Displacement 64 to 125 cc/r
- Maximum pressure to 430 bar



ADU Series

- Speed up to 2650 rpm
- Displacement 41 to 80 cm³/r
- Maximum pressure to 320 bar



PVM series open-circuit piston pumps

- Max. Speed up to 2600 rpm
- Displacement 18-141 cc (1.1-8.6 cu in)
- Continuous pressure rating - 315 bar (4,600 psi)



Model 41 FixedXX Displacement Piston Motors

- Speed up to 4500 rpm
- Maximum pressure to 370 bar
- Displacement 12.3 to 20.3 cm³/r



0122, 0422, 0423, and 0523 Models Pressure or Pressure-Flow Compensated Open Circuit Piston Pumps

- Speed up to 3000 rpm
- Displacement 19 to 69 cm³/r
- Maximum pressure to 210 bar



S26/L2 Pumps and S26 Motors

- Rated Speed (Max): 4000 rpm.
- Single and multiple sections available.
- Rated Pressure (Max): 207 bar (3 000 psi).
- Displacement 0.43 in³/rev (7 cc/rev)–1.94 in³/rev (31.8 cc)
- SAE A and B mount aluminum pumps with many shaft and porting options
- Optional integral relief and flow valves simplify system design and installations
- Applications: Garden and utility tractors, backhoes, combines, road graders, hay swathers, fan drive systems, vibratory machines and industrial power units.

EATON Char-lynn



Low Speed High Torque Motor
2000/4000/6000/10000 Series Disc Valve Type

- Speed up to 900 rpm
- Torque range up to 3,390 Nm
- Two speeds are available in series 2,000 and 10,000.
- Wide variety of optional shafts, mountings, ports, displacements, speed sensors and bolt on valves



Power Steering Control Unit
Series 20

- Displacement 60 - 985 cm^3/r
- Flow rate 38 - 125 lpm
- Pressure max 241 bar



Spool Valve Hydraulic Motors

- Flow rate 76 l/min
- Speed up to 1000 rpm
- Torque range up to 565 Nm
- Wide variety of optional shafts, mountings, ports, displacements



Gear Pump

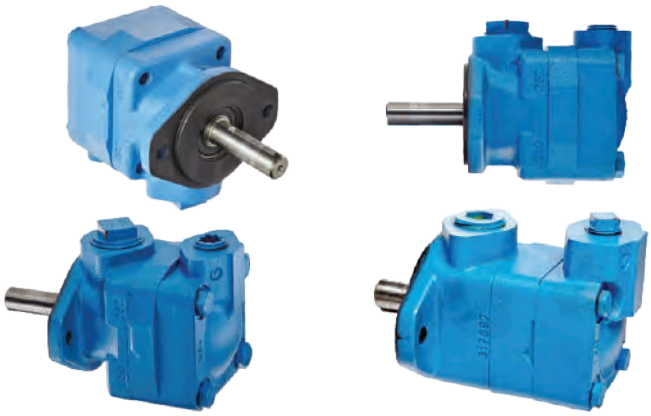
- Speed range 2250 to 4000 rpm
- Pressure rate 207 to 241 bar
- Continuous operating pressures to 4000 psi [280 bar]
- SAE, DIN, & ISO Flange, shaft and porting styles
- High eficiency gear profiles
- 12 & 13 tooth low noise and pressure ripple gear design
- Construction that meets ISO 9001 standards
- Single and multiple section pump options
- Options for applications requiring separate fluids or reservoirs
- Broad range of shaft and port options
- Common and separate inlet options
- Relief valve and priority control valve options
- Auxiliary mounting capabilities
- Field reversability

EATON VICKERS



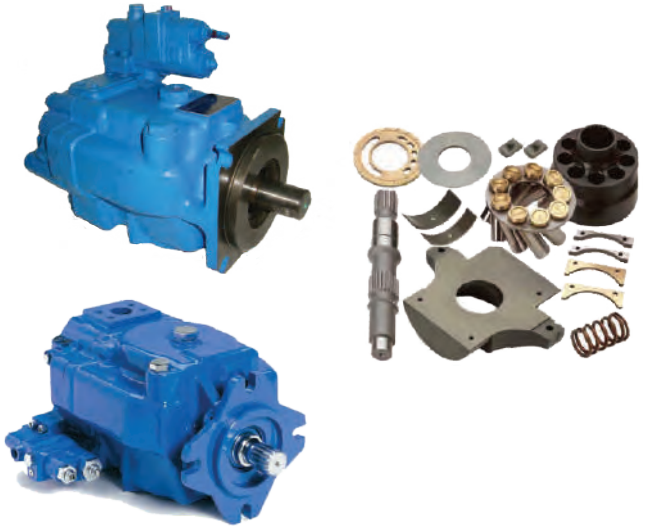
Fixed Displacement Vane Pump
V and VQ Series

- The V series pumps are designed for medium pressure industrial applications
- The super quiet 12-vane system is ideal for the indoor industrial environment
- VQ Series – General mobile applications such as wheel loaders
- Displacement 0.45 in3/rev–20.61 in³/rev (7.4–337.8 cc/rev)
- Pressure (Max.) up to 210 bar (3000psi) continuous
- Rated Speed up to 2,700 rpm. Continuous pressures to 280 bar
- Speeds to 7000r/min
- Single, double, triple pump and thru drives are available



V10, V20, V10F, V20F, TDV20 Pumps

- Designed for medium to low-pressure mobile and industrial applications.
- Time proven dependable, durable, quiet and most economical vane pumps.
- Optional integrated flow control valves simplify system design and installation.
- Applications: Use in less demanding applications. Power units, power steering, skid steelers, lift trucks and balers.
- Displacement: 0.2 in^3/rev (3.3 cc/rev) 5.18 in^3 /rev (84.8 cc/rev).
- Using single and double pump combined flow.
- Rated pressure (Max): Up to 175 bar (2500 psi) continuous.
- Rated speed: Up to 4800 rpm.



PVH Series

- Displacement: 57 cc-141 cc
- Rated Speed: Up to 2600 rpm
- Rated Pressure: Up to 250 bar (3600 psi) continuous
- Specially designed to meet the 250 bar (3625 psi) continuous duty performance requirements of new generation mobile machines
- Applications: Mobile: wheel loaders, graders, scrapers, utility vehicles, dozers, forestry harvesting machines, and rock drills. Industrial: metal-forming equipment,hydraulic power supplies, press, factory automation and machine tools

Hydraulic Pump and Motors

EATON VICKERS



Axial Piston Pump
PVE Series

- Displacement: 25 cc-45 cc.
- Rated Speed: 3000 rpm maximum.
- Rated Pressure: Up to 210 bar (3000 psi).
- Pump displacement is varied by means of pressure and or flow compensator control.
- Aluminum die cast housing allows low unit weight for unsupported PTO drive applications
- Mobile pressure compensated, pressure and flow compensated and remote pressure control options are in wide use.
- Applications: Farm tractors, agriculture equipment, utility vehicles, construction equipment and many other mobile applications.



Vane Motors
M Series

- Displacements from 21,6 to 317,1 cm^3/r
- Working pressures to 175 bar
- Speeds to 4000 r/min
- Torque Range: Up to 119-847 Nm
- Heavy duty shaft bearing is also available.



Piston Motors
MFB, MFE, MVE Series

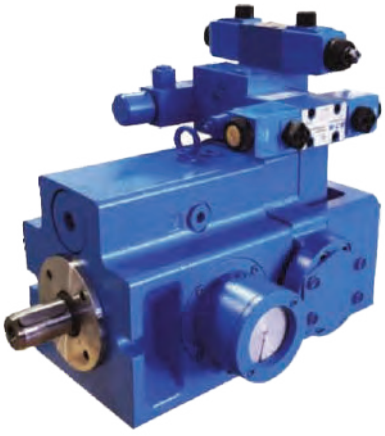
- Displacements 10,5 to 94,4 cm^3/r
- Continuous pressures to 350 bar
- Speeds to 3600 r/min



HYDROKRAFT™

Piston Pumps and Piston Motors
TVWS and MVWS Series

- Displacements 750 cm^3/r
- Continuous pressures to 420 bar
- Speeds to 1800 r/min





Hydraulic Pump and Motors

SAUER DANFOSS Danfoss TUROLLA Member of the Danfoss Group — fast forward thinking



Hydrostatic Transmissions Piston Pump JRR, 90R, MF044, and MF046 Series

- Ideally used for transferring running power in agricultural and construction vehicles
- Displacement from 14.8 cc/rev to 333.7 cc/rev
- Max speed 3800 rpm
- Variable and fixed displacement pumps and motors are available



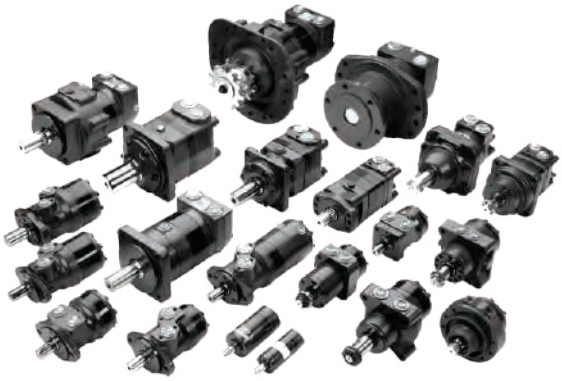
Turolla Gear Pump SNP1, SNP2, SNP3 Series

- Displacement 90 cm3/Rev
- Pressure up to 250 bar
- Speed up to 4000 rpm
- SAE, DIN & European standard mounting flanges & shafts
- High quality case hardened steel gears
- Multiple pump configurations in combination with SNP1, SNP2 & SNP3
- Quiet operation
- Compact & lightweight
- Available as unidirectional and bi-directional motor also



Steering Unit

- Hydrostatic steering : OSPJ,VSP,OSPM,OSPB OSPC,OSPF,OSPL,OSPQ,OSPD,OSPE
- Electro Hydraulic Steerting : OSPE,EHPS
- Mini steering units
- Priority valves (flow up to 320 l/min, pressure up to 300 bar)
- Steering units (flow up to 100 l/min, system pressure up to 210 bar)
- Flow amplifiers (flow up to 400 l/min, system pressure up to 210 bar)
- Electro-hydraulic steering valve, (flow up to 100 l/min, system pressure up to 250 bar)



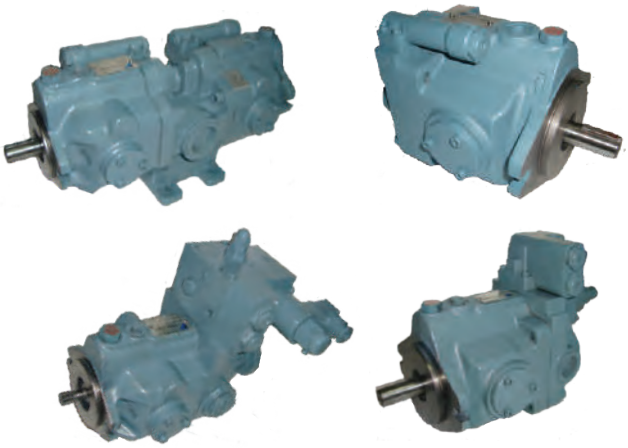
Orbital Motor Unit

OMS, OMT, OMV, OMP, OMR, OMH

- The motors size from 8 cc to 800 cc per revolution
- Speeds range up to approx. 2500 rpm
- Maximum operating torques from 13 Nm to 2700 Nm
- Maximum outputs are from 2.0 kW [2.7 hp] to 70 kW [95 hp]
- Smooth running over the entire speed range
- High starting torque
- High efficiency
- Long life under extreme operating conditions
- High radial and axial bearing capacity
- For applications in both open and closed loop hydraulic systems
- Suitable for a wide variety of hydraulics fluids

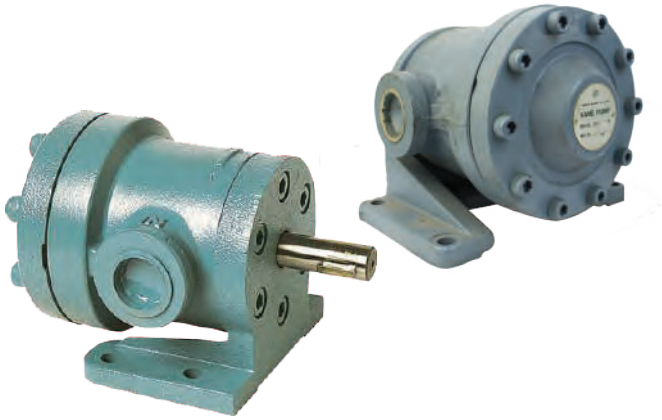
Hydraulic Pump and Motors

DAIKIN



Piston Pump
V, VZ and M series Piston Pump

- Realized low noise operation in overall pressure are
- High efficiency
- High response, high stability and long life make it possible to increase the reliability of the main machine
- Displacement 8 to 69.8 cc/ rev
- Max working Pressure 250 bar
- Speed up to 1800 rpm



Vane Pump
DS, DVS*, DVM* and DP Series Vane Pump

- Low noise and low pulsation
- High efficiency and reliability
- Max working pressure 175 bar
- Displacement 3.9 to 208 lpm
- Speed up to 1800 rpm

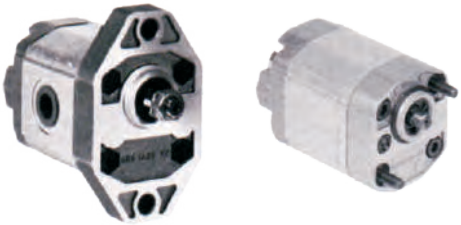


Hydraulic Power Unit
EcoRich (EHU)

- Max power motor 3,7 Kw
- Max working pressure 70 bar
- Displacement 4 to 40 lpm
- Speed up to 1800 rpm
- Oil Temp to 60 degree
- Max oil tank 30L
- Energy saving motor
- High speed respon
- Increase 30% flow from conventional

Hydraulic Pump and Motors

BUCHER HYDRAULICS



AP 05 Series

- Model type AP0.5/0.25, AP0.5/0.5,AP0.5/0.75,AP0.5/0.9, AP0.5/1.2,AP0.5/1.6, APR0.5/0.25, APR0.5/0.5, APR0.5/0.75, APR0.5/0.9, APR0.5/1.2, APR0.5/1.6
- Flow rate up to 1,6 cm³/r.
- Working pressure up to 3300 psi (230 bar)



AP 100 Series

- Model type AP100/1.2, AP100/1.7, AP100/2.5, AP100/3.5, AP100/4.3, AP100/5.0, AP100/6.5, AP100/7.8, AP100/10
- Flow rate up to 10 cm³/r.
- Working pressure up to 3600 psi (250 bar)



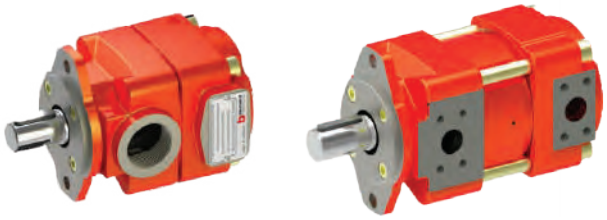
AP 200 Series

- Model type AP200/4.5, AP200/6.5, AP200/8.5, AP200/11, AP200/15, AP200/19, AP200/22 AP200/26
- Flow rate up to 25,9 cm³/r.
- Working Pressure up to 3600 psi (250 bar)



AP 300 Series

- Model type AP300/27, AP300 21, AP300/38, AP300/45, AP300/53, AP300/63, AP300/75, AP300/93
- Flow rate up to 93 cm³/r .
- Working pressure up to 3600 psi (250 bar)



QX, QXV, QXP, QXM Series

- Speeds up to 3600 rpm
- Flow rate up to 400 cm³/r .
- Working pressure up to 320 bar

Hydraulic Pump and Motors

日本スピンドル
NIHON SPINDLE



Gear Pump
PA, PB, PC, PHB Series

- Pressure rate 210 bar
- Superior performance, durability, ease of use and economy.
- High-precision gears and anti-entrapment relief grooves allow very quiet operation
- Single, tandem and triple are available
- Widely used in various field ; civil engineering and construction machinery industrial vehicles, transportation machinery, transportation machinery

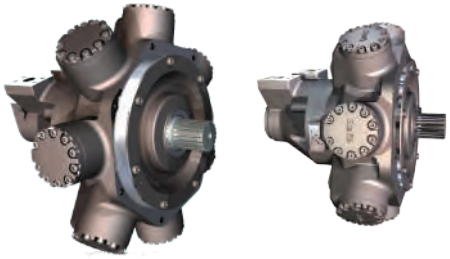
data



Helm Pumps

- Available in 5 different displacement to fit many type of cylinders
- Stainless steel pump shaft and marine grade die cast aluminum body
- Built in non return valve

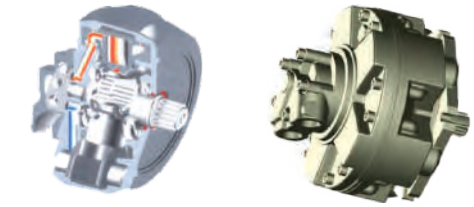
Kawasaki
Powering your potential

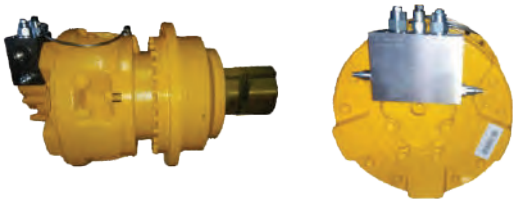


Radial Piston Motor

- HMB Series Motors:
  Fixed Displacement, High Torque,
  Low Speed, Radial Piston Type
- HMC Series Motors:
  Dual Displacement, High Torque
  Low Speed, Radial Piston Type

SAI s.p.a.





SAI High Torque Radial Piston Hydraulic Motor
M, L, GM and P Series

- Replacements to 4700 cc/rev
- Horsepowers to 375
- Continuous pressures to 210 bar
- Two speed, brakes and reduction gear boxes are available

Radial Piston Motors (SM)

- Max. displacement 3041 cc
- Speed up to 250 rpm
- Torque range up to 47.5 Nm
- Peak Pressure 300 bar

Gear Box

- Ration 5,5
- Torque range up to 65312 Nm @250 bar

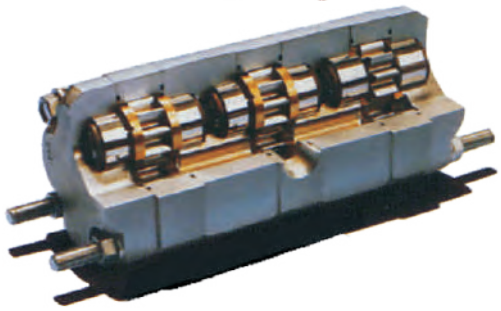
Hydraulic Pump and Motors

Parker Commercial Hydraulics



Roller Bearing Gear Pump
P30/31, P50/51, P75/76 Series

- Working pressures to 2500 psi
- Speeds up to 2400 rpm
- Robust cast iron construction
- A wide selection of standard shaft and mounting configuration
- Multiple sections are available
- Optional priority, two-speed, and unloader valves are available
- Single and Multiple pump/motor, Flow Divider, Piggyback and Winch Motor configurations are available



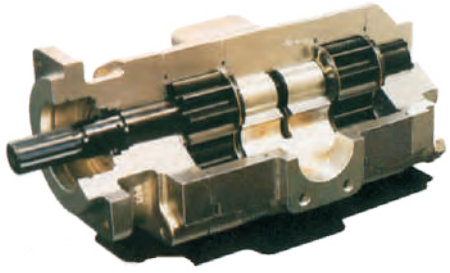
Rotary Flow Divider Intensifier
FD30, FD50, FD75 series

- This eguipment divides a single oil flow input into several output streams, in direct proportion to the gear widths used.
- The rotary flow divider also acts as an intensifier, transferring energy from total oil flow to that porion being used



Multiple Section Pump

- Available in up to five pump sections, providing five seperate flows from a single output drive
- The individual flows can be tailored to suit most requirements over a range of speeds.



Bush Bearing Pumps
P315, P330, P350, P360 Series

- Working pressures to 3500 psi
- Patented interlocking body design
- Bronze thrust plates
- Tandem, triple and cross-frame pumps available
- Wide range of integral valves for power steering, power brakes, fan drives and implement hydraulic
- Reduced system noise levels compared to earlier models and competitors' pumps
- High power through-drive capability



Fixed Displacement Gear Pumps and Motors

- Commercial's extensive range, with displacements from 10.6 to 249.9 cm³/r and working pressure to 3500 psi, can handle the most difficult and heavy work loads, efficiently and effectively.
- A wide sellection if standart shaft and mounting configurations is available to suit most drive requirements.

Hydraulic Pump and Motors



Fixed Displacement Vane Pump
T Series
- Silent technology
- Displacement from 5.8 cm^3/rev to 268.7cm^3 /rev
- Wide shaft option SAE and ISO
- Pressure up to 250 bar speeds up to 2800 rpm



Gear Pump
PGP 500 Series
- Superior performance
- Low noise operation at high pressure
- Internal mounts and connections
- Integrated valve capabilities
- Can be configured as a pump or motor
- Speeds up to 4000 rpm



F11 and F12 Series
- Pressure up to 480 bar
- Accept high external shaft loads
- ISO and SAE version available
- Good resisten to vibrations and temperature shock
- Speeds up to 2800 rpm



Radial Piston Calzoni
MR/ MRE, MRT/MRTE/ MRTF, MRD/MRDE Series
- High starting torque from 90% to 95% of theoretical
- High contol at low speed
- High volumetric efficiency up to 98%
- Low noise
- Resistance to thermal shocks
- Long bearing life
- Reversibility
- Speed accessories, brakes
- Speed up to 1000 rpm

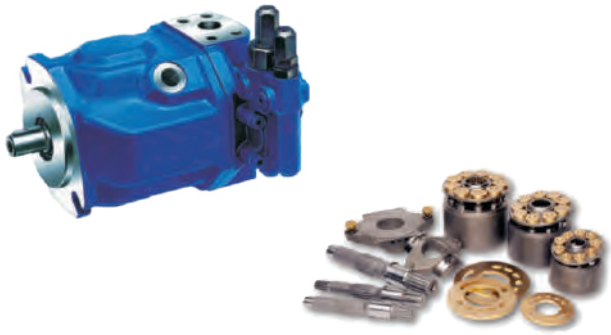


Fixed Displacement Piston
F1/F2 Series
- Pressure up to 345 bar
- High power capability
- Twin flow version available
- High self-priming speed
- Speeds up to 2550 rpm



Low Speed High Torque Motor
TE, TF, TG and TH Series
- High volumetric efficiency
- Full flow spline cooling
- High pressure shaft seal
- High starting torque
- Speeds up to 1100 rpm

rexroth
A Bosch Company



Axial Piston Pump A10 VSO Series 32

- Size: 71, 100, 140 (28, 45 and 180 in preparation)
- Nominal pressure : 280 bar
- Peak pressure : 350 bar
- Regulating and control devices :
  * Two point control, directly operated
  * Pressure control
- With flow control : hydraulic
- With flow control : electronic
- With remote pressure control : hydraulic, or electric
- Power (torque) control
  * With pressure control
  * With remote pressure control
  * With pressure and flow control
  * With separate flow control



Internal Gear Pumps

- Displacement from 1.7 to 250 cm³
- Nominal pressures up to 315 bar
- Max. speeds up to 3600 rpm
- Max. power up to 95 kW
- High degree of efficiency due to complete sealing gap compensation



External Gear Pumps

- Displacements from 1 to 56 cm³
- Nominal pressures up to 280 bar
- Pressure-dependent gap sealing
- High precision of production
- Optimum level of efficiency
- High load capacity
- Application area
  * General machine construction
  * Material handling
  * Agricultural engineering
  * Construction machinery



Fixed Displacement Bent Axis Pump A2FO Series

- Size 5, nominal pressure : 4600/5,100 psi (315/350 bar)
- Size 10 to 200, nominal pressure 5800/6500 psi (400/450 bar)
- Size 250 to 1000, nominal pressure : 5100/5800 psi (350/400 bar)
- This axial piston bent axis design pump is suitable for hydrostatic drives in open circuits



Axial Piston Variable Pump A7VO Series

- Size 28...160 nominal pressure 350 bar
- Peak pressure 400 bar
- Open circuit
- Variable pump with axial tapered piston rotary group of bent axis design for hydrostatic drives in open circuit
- Use in mobile and industrial applications
- The output flow is proportional to the drive speed and pump displacement and is steplessly variable between maximum and zero (qv max to qv min = 0)
- Wide selection of regulating and control devices
- Rugged, compact bearing system with long service life

HYDRO LEDUC



Bent Axis Piston Pump XA & XP Series
- From 1.1 to 3.84 cu.in/rev (18 to 65 cc/rev)
- 5075 psi (350 bar) continuous working pressure
- 5800 psi (400 bar) peak pressure
- Max. speed from 2300 to 2900 rpm



Bent Axis Piston Motor M & MA Series
- From 12-125 cc
- 5800 psi (400 bar) continuous working pressure
- 6525 psi (450 bar) peak pressure
- Max. speed from 3400 to 8000 rpm



Bent Axis Piston Pump W Series for Industrial and mobile
- From 12-108 cc
- 5075 psi (350 bar) continuous working pressure
- 5800 psi (400 bar) peak pressure
- Max. speed from 1600 to 3150 rpm



PA - PAC - PAD Piston Pump
- Single flow from 12 cc to 114 cc/rev
- Twin-flow from 2 x 32 cc to 2 x 75 cc/rev
- 5075 psi (350 bar) continuous working pressure
- 7250 psi (500 bar) peak pressure
- Max. speed from 2300 to 2900 rpm
- PAD twin-flow in 2 x 5 pistons : dual direction of rotation, high output pressure, 350 bar continuous pressure and 500 bar peak pressure, simple and robust system.



TXV Series Piston Pump
- From 40 - 150 cc
- 5800 psi (400 bar) continuous working pressure
- 6525 psi (450 bar) peak pressure
- Max. speed from 1900 to 3000 rpm



Delta Series
- Displacement 40 - 92 cc
- 5800 psi (400 bar) continuous working pressure
- 6520 psi (450 bar) peak pressure
- Max. speed from 1900 to 3000 rpm

HYDRO LEDUC



MSI & MXP Piston Motor
- Displacements from 32 to 125 cc
- 5800 psi (400 bar) continuous working pressure
- 6525 psi (450 bar) peak pressure
- Max. speed from 3400 to 6300 rpm



MV Variable Piston Motor
- Displacements from 85 to 115cc
- 5800 psi (400 bar) continuous working pressure
- 6525 psi (450 bar) peak pressure
- Max. speed from 3900 to 6800 rpm



B Series
- From 7 - 16 cc
- 2900 psi (200 bar) continuous working pressure
- 4710 psi (325 bar) peak pressure
- Max. speed from 2800 to 3500 rpm



PB Series
- From 1.56 - 10.5 cc
- 3625 psi (250 bar) continuous working pressure
- 5075 psi (350 bar) peak pressure
- Max. speed from 2800 to 3000 rpm



X Series
- Displacement 8 cc
- 5800 psi (400 bar) continuous working pressure
- 6520 psi (450 bar) peak pressure
- Max. speed from 2800 to 3000 rpm



Micro Hydraulic Pump and Motor
- Displacement 0 - 1.5 cc
- 14500 psi (1000 bar) peak pressure



HH Series
- Displacement from 1.56 - 3.3 cc
- 8700 psi (600 bar) continuous working pressure
- 10140 psi (700 bar) peak pressure
- Max. speed from 3000 to 4000 rpm



DB Series
- Displacement 2x7.5 cc
- 2900 psi (200 bar) continuous working pressure
- 3620 psi (250 bar) peak pressure
- Max. speed from 2600 to 2800 rpm

SETTIMA®
research & innovation, always



Continuum Pump Series

Helical rotor pump for high pressure and no noise application
The new generation of gear pumps for no pulsation & no noise



SMT16B Series

Dry & submersible screw pump for industrial
application - 40 bar pressure



SMT Series

Dry & submersible screw pump for industrial
application - 80 bar pressure



2VHL Continuum Pump

Silent transfer pump for lubrication, filtration & cooling
Ideal for extreme environment



SFO Series

Fuel oil handling pump
(Marine - power gen - Industrial)
LUBRICATION - CIRCULATION - TRANSFER



LIFT & ELEVATOR PROGRAM

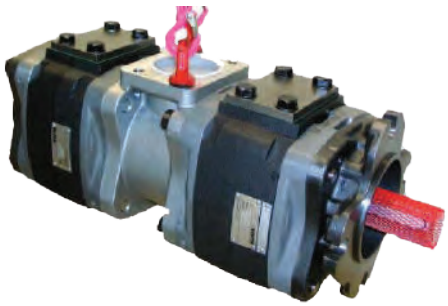
Screw pumps - series SMU / SMU AC / SMTU
Submersible & Dry screw pump

VOITH



Voith Internal Gear Pumps :

Voith internal gear pumps allow you to save space in your machine. The high rates of eficiency, thanks to gap compensation, allow efficient operation, and the optimized pressure pulsations in your hydraulic system. this, Combined with a compact force guide inside the Voith internal gear pump, reduces noise emissions so you can more easily meet the ever tightening workplace regulations on sound output. Voith's technology creates hydraulic pumps that are quiet, compact and have minimal pressure pulsations while operating at high efficiency.



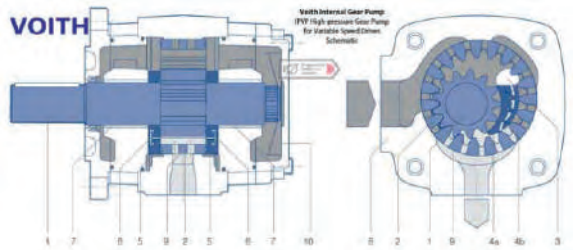
Voith Internal Gear Pump Model :

- IPN Low-pressure Internal Gear Pumps
- IPC/IPM Medium-pressure Internal Gear Pumps
- IPH/IPV/IPVA High Pressure Internal Gear Pumps
- IPVP/IPVAP High-pressure Internal Gear Pumps for Variable speed drives
- IPCAP Medium-pressure Internal Gear Pumps for Variable speed drives



Voith Internal Gear Pump Spesification :

- Delivery 5.25 l/min to 375 l/min
- Working pressure to 330 bar
- Speeds to 3600 r/min
- Delivery fluids temperature to 80 degree
- Single, double and triple pumps are available
- Fluids is mineral oil, water emulsion



Voith Internal Gear Pump Primary Use :

- Plastic Injection
- Sheetmetal pressing
- Conveyors
- Lifting Equipment
- Etc

CROSS



HPR & HSR SERIES FLOW DIVIDERS With Relief

High pressure flow dividers come standard with two or four sections. Each section comes with a differential relief valve from output to input which allows a 'lagging' cylinder t o catch up at end of stroke. Alternative multi-section and mixed section units are available on request.
Disp. per Section 16 up to 24 cm3/rev
Max. Pressure 420 Bar / 5000 Psi

Hydraulic Pump and Motors

POCLAIN Hydraulics



Low Speed High Torque Radial Piston Motor
MS Series Multipurpose Motor

- Delivery 172 cc to 15000 cc
- Working pressure to 400 bar
- Speeds to 600 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



MK Series Compactness Motor

- Delivery 272 cc to 5624 cc
- Working pressure to 400 bar
- Speeds to 120 r/min
- High performance and in version which operate on water glycol or phosphate ester fluid



MG Series Steerable Wheel Motor

- Delivery 172 cc to 2519 cc
- Working pressure to 400 bar
- Speeds to 400 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



MW Series Displacements Motor

- Delivery 467 cc to 6000 cc
- Working pressure to 400 bar
- Speeds to 175 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



ML Series Chain Drive Motor

- Delivery up to 702 cc
- Working pressure to 350 bar
- Speeds to 330 r/min
- High performance and in version which operate on water glycol or phosphate ester fluid



MZ Series Swing Drive Motor

- Delivery 213 cc to 500 cc
- Working pressure to 260 bar
- Speeds to 500 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



MP Series Double Shafts Motor

- Delivery 560 cc to 10019 cc
- Working pressure to 450 bar
- Speeds to 240 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



MD Series Double Flanges Motor

- Delivery up to 1259 cc
- Working pressure to 450 bar
- Speeds to 200 r/min
- High performance and in versions which operate on water glycol or phosphate ester fluid



MI/MA Series High Power Motor

- Delivery 7000 cc to 30000 cc
- Working pressure to 350 bar
- Speeds to 150 r/min
- High performance and in version which operate on water glycol or phosphate ester fluid

EATON Hydre-MAC ™

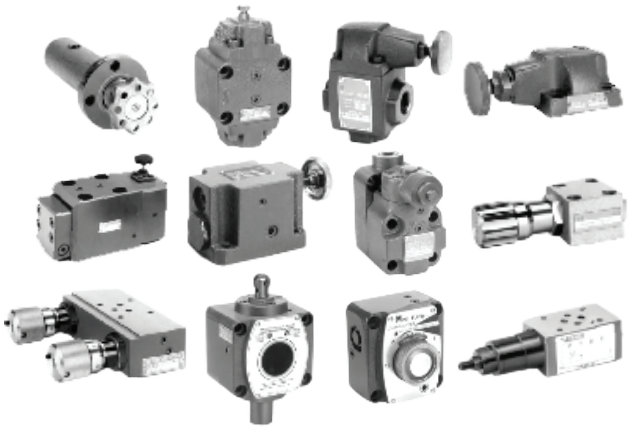


Product Overview
- Displacement:
- 2,000 cc/rev to 150,000 cc/rev
- Power: up to 900 kw
- Max Pressure: 350 bar
- Rated Torque: up to 280,000 Nm
- Overall Efficiency: >94%



Benefits
- Smooth and quiet operation
- Long service life
- Very high efficiency
- Ultra-low speed <1 rpm capability
- Drop-in replacement for installed product.

TOKIMEC TOKYO KEIKI



Pressure Control Valve

TCG20, TCG50-80, CG/CT/CF series relief valve C-175, CGR-02, DGMCR-3 series remote control relief valve URG series unloading relief valve CGL series low pressure control valve DGMSL-3 series shock less valve RG(2)-3F, R(C)G/R(C)T/RF series pressure control valve XG1-3F,X(C)G/X(C)T series pressure reducing valve BLG series balancer valve

- Manifold mounted, thread or flange connection
- Sizes from ¼" to 2"
- Flows to 1200 l/min
- Pressures to 210 bar



Digital Valves

D-CG, DF(R)G, D-DFG Series Digital valves
DC-AX4, DC-A1/4, DC-AE, DC-AT1/2, DC-B*B/B*C Controller and Drivers

- Programmable capability, superior contamination resistance and open loop simplicity enable great flexibility in applications
- Simple numerical input of settings which can be stored and reset
- Complete range of pressure, flow and directional/ flow control valves



Pressure Switches and Sensors ESP, ETP, ESMF series

- Superior accuracy, repeatability, and temperature drift characteristics
- Integrated electronic circuitry provides voltage or current signal output

TOKIMEC TOKYO KEIKI



Directional Control Valves

DG4M4, DG4V-3, DG4VC-3, DG4VS-3, DG4SM-3, COM, DG4V-5, DG4VC-5, DG4VS-5series Solenoid operated directional valves DG5V-7,DG5V-H8, DG5S-10 series pilot operated directional valves C-552/C-572, DG*M2/DT*M2, DG20S-3, DG20S-5, DG2S4-01, DG17V-7 series Mechanically or Manually Operated Directional valves

- Pressures up to 350 bar
- Flows 20 to 800 l/min
- Various size and operators… solenoid, hydraulic, air, cam or lever to meet a wide range of applications



Modular Valves TGMC, TGMR, TGMX, TGMDC, TGMFN, TGMPC series

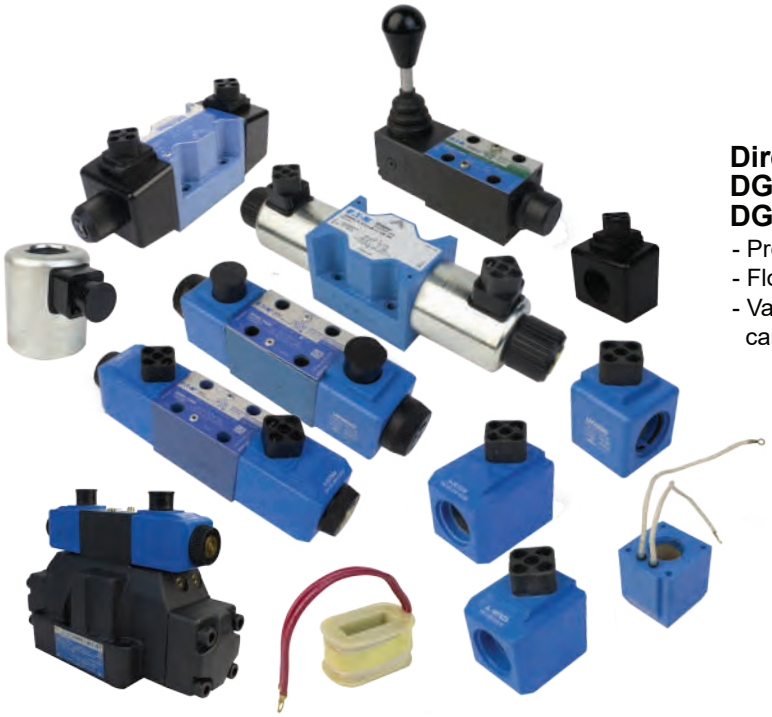
- Flow to 340 l/min
- Pressures up to 310 bar
- ISO cetop 02, 03, 05, 07, 08 size
- Relief, sequence, reducing, check and flow control valves



Proportional Controls

EPCG2-01, EPCG2-**, EPFG-01, EPF(R)G-**, EPDG1 series Proportional valves EPAD, P-X/Z, PB-X/Z, EPA series Controllers ST3 series Servo valve STC-Y Servo valve controller

EATON VICKERS



Directional Control Valves
DG4V-3, DG4V-5, DG4S4, DG5V-7, DG5V-8, DG5S-H8, DG5S-10, DG17V- Series

- Pressures up to 350 bar
- Flows to 1100 l/min
- Various sizes and operators… solenoid, hydraulic, air, cam or lever to meet a wide range of applications



Modular Valves
DGMC, DGMR, DGMX, DGMDC, DGMFN, DGMPC Series

- ISO cetop 02, 03, 05, 07, 08 sizes
- Relief, sequence, reducing, check and flow control valves
- Flow to 340 l/min
- Pressures up to 310 bar



Pressure Control Valves
C, CG, CT, CF, RCG, RCT, URG, XCG, XCT Series

- Relief, solenoid control relief, pressure reducing, sequence, unloading and counterbalance valves
- Manifold mounted, thread or flange connection
- Size from ¼" to 2"
- Flow to 474 l/min
- Pressures to 210 bar

DAIKIN



Solenoid Valves
LS, KSO, JSC, JM Series

- Low watt type available
- Pressure up to 350 bar.
- Flow up to 160 l/min



Flow Control
JF(C), SF, TSC, HDFT (C) Series

- Available with/without integral check valve
- Available with/without pressure compencated
- 1/4" to 2" size
- Flow to 470 lpm
- Pressure to 210 bar



Pressure Control

- Pressure Reducing, Relief, back Pressure, Sequence, Unloading and Counterbalance
- Screw connection
- Flow up to 500 lpm
- Pressure to 210 bar
- Diameter 3/8"-2"



Check Valves

- Angel type (JCA Series), Pilot Operated (JCP(D) series), In-Line(HDIN series)
- Maximum pressure up to 250 bar
- Rated flow 30 - 1000 lpm
- 3/8" to 3" diameter.



Modular Stack Valves

01 series
- Maximum pressure 70 bar
- Maximum flow 9 lpm

02 series
- Maximum pressure 250 bar
- Maximum flow 40 lpm

03 series
- ISO standards mounting dimensions
- Maximum pressure 250 bar
- Maximum flow 80 lpm



Directional Spool Valves, Direct Operated, With Solenoids Actuation Models WE Directional Control Valves

- Wet-pin AC or DC solenoids
- Solenoid with detachable coil
- For subplate mounting (“P”): Porting pattern to DIN 24340 form A and ISO 4401
- Electrical connection as individual connection or central connection
- Optional inductive position monitoring (RE 24830)
- Smooth switching characteristics



Directional Spool Valves, Direct Operated, With Manual Actuation Models WMM, WMR, and WMU Directional Control Valves

- Size 4 to 22
- Porting pattern to DIN 24340 form A and ISO 4401
- Operation by means of
  * Lever (type WMM)
  * Roller (type WMR, WMU)



Pressure Relief Valves In Sandwich Plate Design, Pilot Operated Model ZDB and Z2DB Pressure Relief Valves

- Size 6 and 10
- Porting pattern to DIN 24340 form A and ISO 4401
- 4 pressure stages: 50, 100, 200, 315 bar
- 5 pressure relief functions: A – T, P – T, B – T, A – T and B – T, A – B and B – A



Double Throttle Check Valves In Sandwich Plate Design Model Z2FS Flow Control Valves

- Size 6 to 22
- Porting pattern to DIN 24340 form A and ISO 4401
- For limiting the main or pilot flow of one or two actuators
- Meter-in or meter-out throttling



Pilot Operated Check Valves In Sandwich Plate Design Model Z2S Check Control Valves

- Size 6 to 22
- Porting pattern to DIN 24340 form A and ISO 4401
- For the leak-free isolation of one or two actuator ports
- Various opening pressures



Pressure Relief Valves, Direct Operated Model DBD Pressure Relief Valve

- Size 6 to 30
- For subplate mounting (“P”)
- For threaded connection (“G”)
- As cartridge valve (“K”)
- Type-tested safety valves in accordance with Pressure Equipment Directive 97/23/EC



Hydraulics Application: Directional Poppet Valves, Direct Operated Models SED and SEW Directional Control Valves

- Size 6 and 10
- Porting pattern to DIN 24340 form A and ISO 4401
- Leak-free isolation of closed port
- Solenoids with detachable coil
- Pressure-tight chamber needs not to be opened for changing \ the coil (type SED)
- Reliable switching when under pressure over longer periods of stand still



Directional Control Valves

NFPA manifold mounted Rugged spools with four control lands; up to 21 spool style availeble depending on operator Solenoid, lever, cam, air or oil pilot operated Soft-shift available on D1 and D3 solenoid operated valves Los Pressure drop Phosphate finish body Easy acces mounting bolts



Manapak/ Cartpak

Mounted between directional control valves Combines cartridge valve with standard ISO 4401-03, NFPA D03, CETOP 3 size body For 345 Bar (5000 psi) operation. Functions include pressure relief, reducing and sequence; flow control, needle, check; 2-way solenoid; 3-way directional; proportional pressure relief and flow control.



Pressure Control Valves

Inline or manifold mounted (NFPA P03, P06 & P10) 207 Bar (3000 psi) in 1/4 “(relief only), 3/4”, 3/4” and I 1/4” size Functions include relief, pressure reducing and sequence in both pressures; countebalance and unloading in 207 Bar only



Colorflow Valves

Inline mounted flow, check, needle, gauge isolator and snubber valves Choice of NPTF, SAE, BSPP and ISO 6149 metric ports Maximun operating pressure up to 345 Bar (5000 psi) Flow up to 568 LPM (150GPM)



Ball Valves

Designed for hydraulic and other media Assortment of port configurations including threaded, manifold mounted SAE split flange and a unique 4-bolt rotating SAE flange design

BUCHER HYDRAULICS



Monoblock Directional Control Valve HDM140
- Max. Flow rate 40 l/min (10 GPM)
- Max. Operating Pressure 4600 psi (320 bar)



Monoblock Directional Control Valve HDM11P
- Max. Flow rate 45 l/min (12 GPM)
- Max. Operating Pressure 5700 psi (400 bar)

Monoblock Directional Control Valve HDM11S
- Max. Flow rate 45 l/min (12 GPM)
- Max. Operating Pressure Series and L.S circuit 5700 PSI (400 bar)



Monoblock Directional Control Valve HDM18
- Max. Flow rate 70 l/min (18 GPM)
- Max. Operating Pressure 5700psi (400 bar)



Sectional Directional Control Valve HDS11
- Max. Flow rate 40 to 50 l/min (11 to 13 GPM)
- Max. Operating Pressure 4260 to 4600 psi (300 to 320 bar)
- Max. Back Pressure 285 to 420 PSI (20 to 30 bar)



Sectional Directional Control Valve HDS15
- Max. Flow rate 60 l/min (15 GPM)
- Max. Operating Pressure 3976 to 4600 psi (280 to 320 bar)
- Max. Back Pressure 285 to 400 PSI (20 to 30 bar)

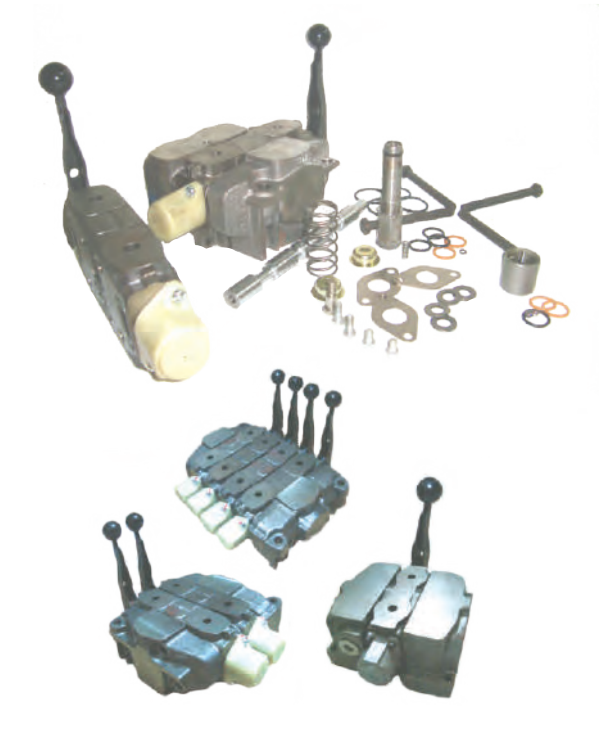


Sectional Directional Control Valve HDS20
- Max. Flow rate 80 l/min (21 GPM)
- Max. Operating Pressure 4600 psi (320 bar)
- Max. Back Pressure 400 PSI (30 bar)



Sectional Directional Control Valve HDS30
- Max. Flow rate 120 l/min (31 GPM)
- Max. Operating Pressure 4600 psi (320 bar)
- Max. Back Pressure 400 PSI (320 bar)

Parker Commercial Hydraulics



Sectional Directional Control Valve DVA 20/35

- Max. flow rate 40 GPM
- Max. operating pressure 2500 psi (172 bar)
- Paralel and series circuit



Sectional Directional Control Valve DVG 20/35

- Max. flow rate 70 GPM
- Max. operating pressure 3500 psi (241 bar)
- Paralel and series circuit



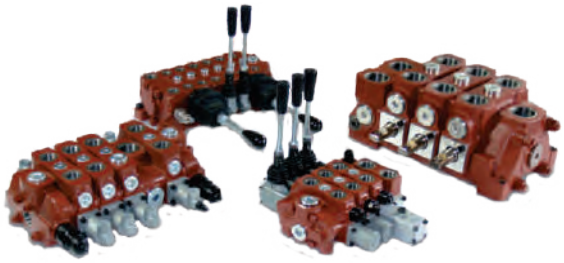
Sectional Directional Control Valve DVG 20/35 With Selenoid Operated

- Max. flow rate 40 GPM / 70 GPM
- Max. operating pressure 2500 psi (172 bar)
- Paralel and series circuit

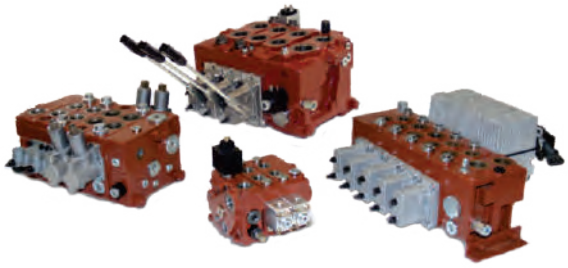
walvoil
FLUID POWER E|MOTION



Monoblock Valve
- Max. Flow rate 160 l/min (45 GPM)
- Max. Operating pressure 4600 psi (315 bar)



Sectional Valve
- Max. Flow rate 400 l/min (105 GPM)
- Max. Operating pressure 4600 psi (315 bar)



Pressure Pre-Compensated Load-Sensing And Flow Sharing
- Max. Flow rate 260 l/min (68 GPM)
- Max. Flow rate not compensated 240 l/min (63 GPM)
- Max. Operating pressure 4600 psi (315 bar)



Diverter Valve
- Max. Flow rate 280 l/min (74 GPM)
- Max. Operating pressure 4600 psi (315 bar)



Directional Control Valve With Direct Acting Solenoid
- Max. Flow rate 60 l/min (16 GPM)
- Max. Operating pressure 4600 psi (315 bar)



Pilot Control Valve And Feeding Unit

SAUER DANFOSS Danfoss



Proportional Valve

- PVG16
  - Flow rating up to 65 l/min
  - Work port pressure up to 400 bar
- PVG32
  - Flow rating up to 100 l/min
  - Work port pressure up to 400 bar
- PVG100
  - Flow rating up to 180 l/min
  - Work port pressure up to 400 bar
- PVG160
  - Flow rating up to 240 l/min
  - Work port pressure up to 400 bar
- PVG256
  - Flow rating up to 400 l/min
  - Work port pressure up to 400 bar

- Actuator with integrated float function for increased safety
- Actuator with closed loop control for built-in fault monitoring
- Symmetrical & asymmetrical spools
- Compensator & LS pressure limitation for advanced application requirements
- Available with On/Off & proportional CAN actuator for simplified machine wiring & bi-directional communication



Heavy Duty Joysticks

- Rugged design up to IP66 overall
- Ergonomic left, right & straight grips
- Single & Dual Axis Spring-Return
- Single Axis w/ adjust. Friction-Hold
- Redundant hall effect or long-life potentiometric sensing (Full redundant)
- 5 different output types: CAN (J1939, CANopen), CAN+ & CANalog PVE & Analog, PWM
- 5 different grip types: ST2- ST7- PR2- PR7*)- and HR1-grip
- Several grip functions: Domed & flat push-button (max. 12), proportional roller, Rocker switch & FNR, Operator Presence Switch
- Connection: Wiring harness with connector
- Grip Travel :+180°
- EMI/RFI: 150V/m
- ESD: 20kV

CROSS



Monoblock Valves B SERIES and C SERIES

- **B SERIES**
  INDIVIDUAL LOAD CHECK ON EACH SPOOL

- Rated working pressure	: 3000 psi (206 bar)
- Maximum shock and surge pressure	: 4000 psi (276 bar)
- Rated flow capacity	: 30 GPM (114 ltr min)

- **C SERIES**
  NO LOAD CHECK

- Rated working pressure	: 2500 psi (175 bar)
- Maximum shock and surge pressure	: 3400 psi (235 bar)
- Rated flow capacity	: 25 GPM (95 ltr/min)

hydro control



Sectional Directional Control Valve

HC-D9

- Max. Flow 35L/min / 10 US GPM
- Max. Pressure 350 bar / 5000 psi

HC-D3M

- Max. Flow 55L/min / 15 US Gpm
- Max. Pressure 350 bar / 5000 psi

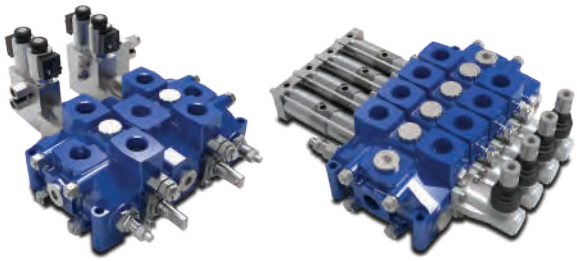
HC-DVS10

- Max. Flow 45L/min / 12 US GPM
- Max. Pressure 350 bar / 5000 psi

HC-D4

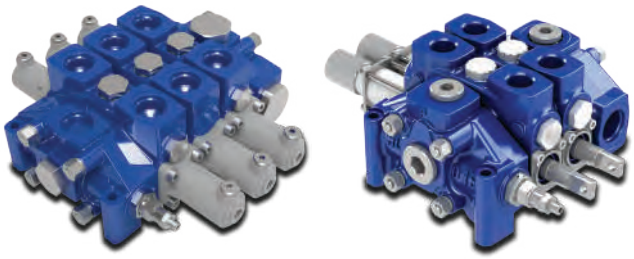
- Max. Flow 80 L/min / 22 US GPM
- Max. Pressure 350 bar / 5000 psi





HC-D6

- Max. Flow 100L/min / 27 US GPM
- Max. Pressure 350 bar / 5000 psi



HC-D16

- Max. Flow 150L/min / 40 US GPM
- Max. Pressure 350 bar / 5000 psi

HC-D12

- Max. Flow 180L/min / 48 US GPM
- Max. Pressure 350 bar / 5000 psi



HC-DVS20

- Max. Flow 250L/min / 67 US GPM
- Max. Pressure 250 bar / 3600 psi

HC-D20

- Max. Flow 250L/min / 67 US GPM
- Max. Pressure 350 bar / 5000 psi



HC-D25

- Max. Flow 380L/min / 100 US GPM
- Max. Pressure 350 bar / 5000 psi

HC-D40

- Max. Flow 700L/min / 185 US GPM
- Max. Pressure 350 bar / 5000 psi

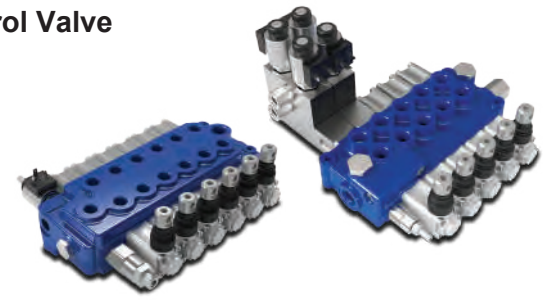
Monoblock Directional Control Valve

HC-M45

- Max. Flow 250L/min / 67 US GPM
- Max. Pressure 350 bar / 5000 psi

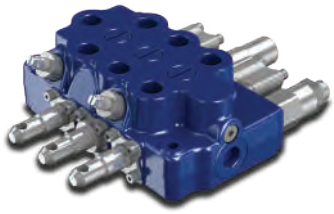
HC-M50

- Max. Flow 250L/min / 67 US GPM
- Max. Pressure 350 bar / 5000 psi



HC-TR55

- Max. Flow 250L/min / 67 US GPM
- Max. Pressure 350 bar / 5000 psi



NACOL ACCUMULATOR

(NACOL) Is The First Japanese Manufacturer Developed The Bladder Type Accumulator In 1958

- Worlwide standards capability
- Top easy maintenance design, makes it possible to inspect the inside of the accumulator or to replace bladders without removing accumulator from the piping
- The pleated bladders design compresses uniformly assuring longer bladder life and more useable oil volume



Standard Type Accumulators

- J series Accumulators(low cost type in small size:0.03~5L)
- N/A series Accumulators(standard type in small and medium size:1~16L)
- U series Accumulators(slim body 25 Mpa type in large size:20~50L)
- R series Accumulators(28 Mpa type in large size:20~63L)
- N (Y·A) series Accumulators(standard type in large size:20~160L)
- Double decker type Accumulators(230~320L)

Low Pressure Type Accumulators

- E series Accumulators (Acc. for 0.95MPa:2&4L)

High Flow Type Accumulators

- High flow type(medium size)Accumulators (5~16L)
- High flow type(large size)Accumulators (20~160L)
- Super high flow type Accumulators (5~60L)









AC, IHV, NG, and ELM Series

AC, IHV, NG and ELM Series Accumulators incorporate the lates design and material technologies to improve performance and reliablitiy of the accumulator when it is used heavy duty application or under severe working conditions



Bladder Accumulator AC, IHV, NG Series and ELM Series



ELM Series

Operation of the OLAER gas loaded diaphragm accumulator is bassed on the considerable difference in compressibility between a gas and a liquid, anabling a large quantity of energy to be stored in an extremely compact form under pressure to be accumalated, stored and recovered at any time



Nitrogen Charging Kit Accumulator

Universal charging set fits most of the hydraulic accumulators available on the market. Maximum working pressure: limited by the maxiumum pressure of the installed pressure limited to 400 Bar in any case.



Safety Blocks

Are designed to incorporate in a single compact block a variety of fuctions necessary for the correct operation of a hydraulic system fitted with accumulators. This includes manual and electrical drain, isolation, flow control and pressure relief.

HYDRO LEDUC



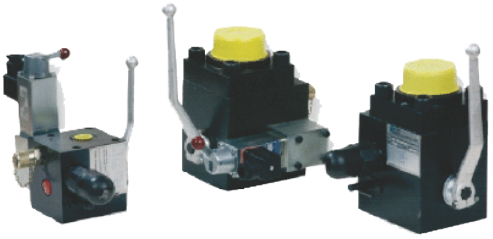


Accumulator Clamps



Nitrogen Charging Kit and Accumulator Screw

Accumulator Type:
- ACS-ACSL Welded Cylindrical (0.7-4 L)
- AS Spherical Model (0.2-10 L)
- AF Low temperature, high pressure, spherical model (0.5-1 L)
- ABVE Bladder (4-50L)



Simplified Safety Block

Tobul Accumulator





Piston Accumulator
052A50 Series Accumulator :
- Max. Working Pressure 5000 psi (345 bar)
- Max. proof pressure 5000 (517 bar)
  Operating Temperature (Buna/Nitrile) -20° to
- +200°F (-28° to 93°C)
- Fluid port size SAE 16

Nitrogen Charging Accumulator



Bladder-type Accumulators
TBR30 1 Quart, TBR30 1 Gallon, TBR30 Series:
- Max. Working Pressure 3000 psi (207 bar)
- Max. Proof Pressure 4500 psi (310 bar)
- Operating Temperature (Buna/Nitrile) -20° to +200ºF (-28º to 93ºC)
- Bladder for Petroleum Base Oil
- Shell ASME “U” Stamped

sun hydraulics®



Adjustable Pressure-Compesated Flow Controls

- Balance needle for easy adjustment at all pressures
- 5000 psi Maximum operating pressures



Check Valves

- 3:1 pilot ratio, 5000 psi max system pressure
- Extremely low leakage



Counterbalance Valves

- 3:1 pilot ratio, load holding to 3000 psi
- Load reactive pilot assist for over center load control application



Relief Valves

- Pilot operated for easy adjustment and Accurate pressure control
- Balance spool design for Minimum hyteresis (± 1%)



Reducing Valves

- Pilot ratio - air to hydraulic - 1:20
- 0 to 80 psi air pressure : 50 to 1500 psi hydraulic pressure



Sequence Valves

- With internal pilot & external drain
- Balance spool design for minimum hyteresis (± 1%)



Sun Hydraulic Screw-in, Floating Style Cartridge

- Suitable for mobile and industrial application
- Cartridge are available in capacities up to 1600 L/min
- Pressure ratings to 350 bar
- 5000 psi Max. continuous duty
- 6000 psi Max. system overload

EATON VICKERS

Integrated Hydraulics
An Eaton Brand

The Evolution of the HIC Package

This technology has evolhed from labor intensive, costly line and subplate mounted components to compact leakfree HIC Package

Line Mounted Valve

Mounted Sub-plate Mounted

HIC Package

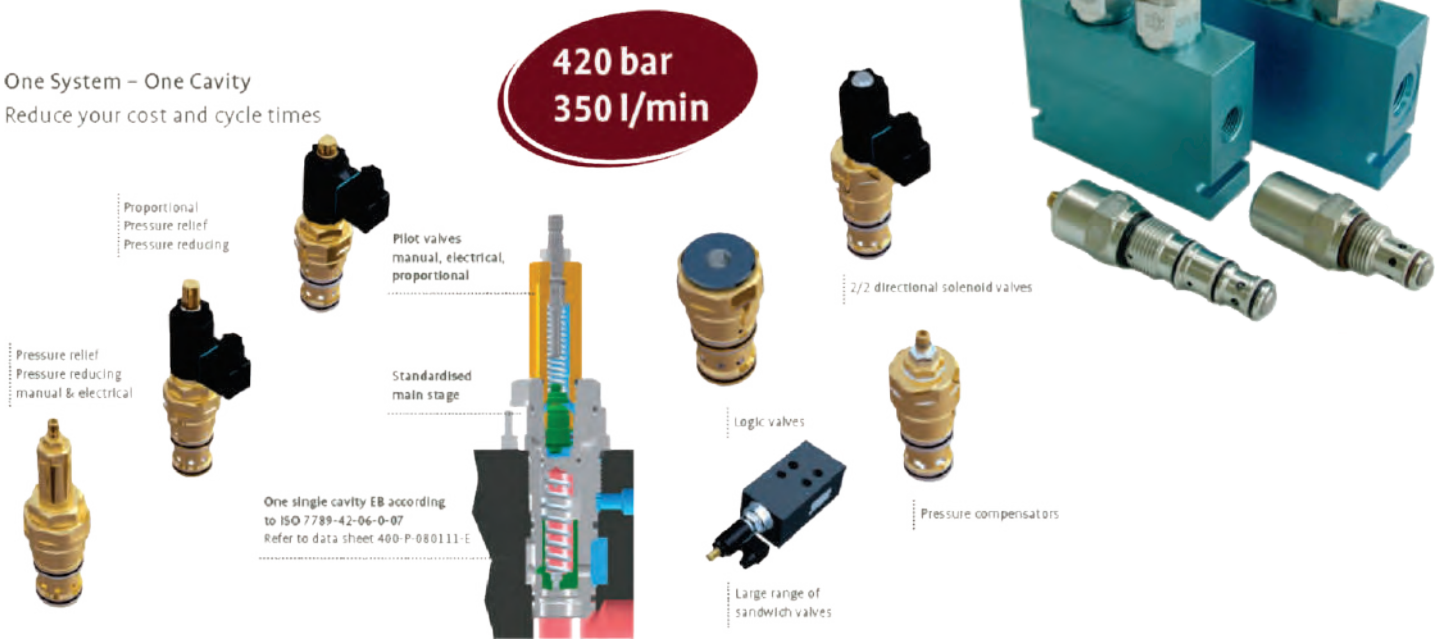


Screw-in Cartridge Valves

SV (Solenoid Valve)
RV (Relief Valve)
PRV (Pressure Reducing Valve)
CV (Check Valve)
FCV (Flow Control Cartridge)
FDC (Flow Divider/ Combiner cartridges and manifold assemblies)
VCB (Vanted Counter Balance)
CRV (Cross Port Relief Valve)



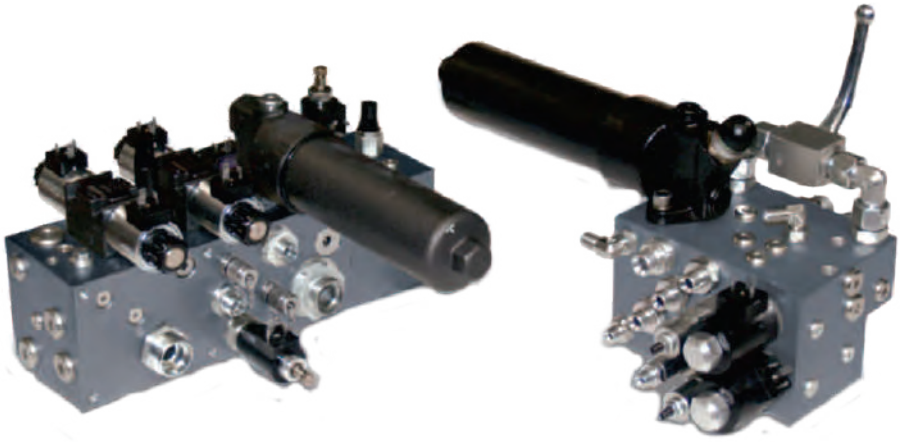
BUCHER HYDRAULICS





SAE Cartridge Valve

walvoil
FLUID POWER E|MOTION



Hydraulic Integrated Circuits

The usage of integrated hydraulic circuits offers important advantages both in the mobile and in the industrial sector.

PWO Series



Plate Water Oil cooler are the modern variant of the traditional shell and tube cooler Unlike other plate cooler on the market mostly produced for water , steam or chemical applications, the internal structur of the OLAER Fawcett Christie PWO is designed to provide the highest efficiency while offering the lowest pressure drop required for the oil in hydraulics and lubrication applications.



SHELL AND TUBES

Although not as efficient and compact as the Plate Water Oil cooler, Shell and Tubes coolers are still extremely popular in various types of industries. OLEAR Fawcett Christie therefor strives to find the best possible design that would combine a limited water flow rate with a maximum efficiency. .









Air Oil Cooler
ECO, LAC, LDC, LHC and LOC Series

- AC and DC motor available
- Cooler matrix with low pressure drop and high cooling capacity
- Simply and user friendly design



VLT® Drives

- VLT® Micro Drive FC 51

The smallest drives in the series are ideal for side-by-side mounting with a high integration density.

- VLT® HVAC Drive FC 102

This tough and savvy FC102 drive enhances pump and fan applications in building management systems, and runs outdoors in most climates.



- VLT® AutomationDrive FC 301 / FC 302

The VLT® AutomationDrive FC 301 / FC 302 is designed for variable speed control of all asynchronous motors and permanent magnet motors. It comes in a standard version (FC 301) and an advanced high dynamic version (FC 302) with additional functionalities.

- VLT® AutomationDrive FC 360

The VLT® AutomationDrive FC 360 is a compact, space-saving, general-purpose AC drive available in 5 frame sizes. Designed with ease-of-use, reliability and flexibility in mind, the basic, yet comprehensive features provide precise and energy-efficient motor control for a wide range of industrial applications.

- VLT® Refrigeration Drive FC 103

FC 103 is dedicated to controlling compressors, pumps and fans for significant energy savings in refrigeration plants.

- VLT® AQUA Drive FC 202

VLT®AQUA Drive FC 202 controls all types of pumps and comes equipped with a cascade controller.

- VLT® Lift Drive LD 302

LD302 is operating in open-or closed-loop systems and suitable for both traction and hydraulic elevators.



VLT® Midi Drive FC 280

FC280 provides precise and efficient motor control for machine builders in the food and beverage, material handling and processing industries.



VACON® Drives

- VACON® 20

Compact, but packed with programming functionality that's ideal for OEM applications.

- VACON® 100 FLOW

Dedicated functionality that improves flow control and saves energy in industrial pump and fan applications.

- VACON® 100 INDUSTRIAL

Drive modules and enclosed drives that are easily integrated into all major control systems.

- VACON® 20 Cold Plate

The flexible AC drive that's perfect for OEMs with special cooling requirements.

- VACON® NXP Air Cooled

Designed for a broad range of demanding applications, focusing on higher power sizes and system drives.



iC7 rives, iC2 Drives

- iC7-Automation

Whatever the environment, the iC7-Automation delivers the reliability and performance you need. With connectivity, security and intelligence, this drive lets you take advantage of the latest in Industrial IoT.

- iC2-Micro

This next-generation micro drive gives you great cost effectiveness, durable reliability, and user-friendly commissioning and operation, all in a compact package.



VLT® and VACON legacy Drives

- VLT® 2800

The VLT® 2800 has reached the Inactive phase of its lifecycle and is no longer in active production. Danfoss offers an extensive portfolio of low-voltage drives and will help you select the optimal replacement drive for your application.

- VLT® 5000

The VLT® 5000 is in the Inactive phase and has reached the end of its lifecycle. Danfoss offers an extensive portfolio of low-voltage drives and can help you select the optimal replacement drive for your application.



SF2-250, FAS and STR Series Suction Filters

- Flow rates: from 10 - 150 L/min (SF2-250), 25 - 850 L/min (FAS), and 5 - 600 L/min
- Element media: cleaneble wire mesh
- Port options: BSP; NPT; (STR) or SAE flange



MPF, MPT, MPH/MPI, and FRI Returns Filters

- Max. working pressure: 3 bar (MPF), 7 bar (MPT, MPH/ MPI), and 20 bar (FRI)
- Flow rates: from 10-800 L/min (MPF), 10-150 L/min (MPT), 50-1000 L/min (MPH/MPI), 30-1200 L/min (FRI)
- Element media: glass fibre, resin impregnated cellulose or wire mesh
- Port options: BSP; NPT; and SAE flange
- DUPLEX model also available for only FRI series



FHB, FHM, FMM, FHA, FMP, and FHP series Pressure Filters

- Max. working pressure: 320 bar (FHB, FHM, FMM, FHA), 250 bar (FMP), and 420 bar (FHP)
- Flow rate: from 5-350 L/min (FHB,FHM, FMM,FHA), 20-150 L/min (FMP), 20-420 L/min (FHP)
- Element type: 3-60 micron
- Port options: Pressure line disigned for N6 6 / N610 (CETOP 3/5) (FHM)
- Top mounted manifold interface options



MPS, MST, and MSH series Spin-on Filters

- Max. working pressure: 12 bar (MPS,MST), 35 bar (MSH)
- Flow rate: from 25-300 L/min (MPS/MSH), 25-350 L/min (MST)
- Element type: 3-90 micron (MPS/MST), 3-60 micron (MSH)
- Element media: glass fibre, resin impregnated cellulose or wire mesh
- Indicator: visual or electrical (MPS/MST) differential visual, visual / electrical or electrical (MSH)
- “Thermal Lock-out” electrical indicator option available (MSH Series)
- Mounting: Inline (MPS & MSH), Return line fitted to reservoir cover (MST)
- Port options: BSP-NPT (MST/MSH), BSP-NPT; SAE flange (MPS)



LPA 2

Particle counter calibrated to ISO 11171 standard, working pressure from 2 bar (29 psi) to 400 bar (5801 psi).
Contamination reports data in ISO 4406, NAS 1638 and AS4059 formats.
Oil temperature and relative humidity reading sensor.



CML 2

The CML2 ContaminationAnalyser is designed to measure and quantify the number of solid contaminants in Hydraulic,Lubrication and Transmission applications. The CML2 is a portable, accurate instrument suitable for “on-site”
applications utilising mineral oil as the operating fluid.



ACMU

ACMU - Auxiliary Contamination Monitoring Unit
Wind/Tidal/Wave Energy
Gearbox applications
Gearbox monitoring
Offshore & ship systems
Lubrication & Oil systems



VPAF

Mobile unit for the measurement and optical display of contamination in oils on 47 mm membranes.
The unit contains equipment for the static and dynamic sampling of oils in hydraulic systems and tanks.





500 ml BOTTLE SAMPLER

Accessories to be used together with LPA2 and CML2 counters for the statistical analysis of oil available for 500 ml containers.

110 ml BOTTLE SAMPLER

Accessories to be used together with LPA2 and CML2 counters for the statistical analysis of oil available for 1 10 ml containers.



ICM

The ICM automatically measures and displays particulate contamination, moisture and temperature levels i n various hydraulic fluids. it is designed specifically to be mounted directly to system, where ongoing measurement or analysis is required, and where space and costs are limited.



Az2

ATEX Fluid Condition Monitors
ATEX Zone II 3G rated
PLC Control across various communication protocols
With display



UFM 040

UFM 040 mobile filtration units suitable for filling and refilling of filtered hydraulic fluids and lubrication tanks.
Flow rate 33 l/min.
Pressure max. 5 bar.
Electrical motor: single and 3 phase.

UFM 051

UFM 051 mobile filtration units suitable for
filling and refilling of filtered hydraulic fluids and lubrication tanks.
Flow rate 50 l/min.
Pressure max. 10 bar.
Electrical motor: single and 3 phase.
Use 3 phase if continued used is required
Suitable with in line Contamination Monitor.



Parker Filtration UCC



Topflow Filter

- Construction	:	Aluminium casting, steel bowl
- Max working pressure	:	7 Bar
- Operating temperature	:	- 30°C to + 90°C
- By-pass crack pressure	:	1 Bar
- Indicator setting	:	0.9 Bar
- Filtration media	:	10µ (Abs) glassfibre composite 25µ (Abs) nitrile phenolic resin impregnated cellulose



Multiflow Filter

- Construction	:	Aluminium Lm24 head castings, steel bowl
- Seals	:	8 Bar
- Max working pressure	:	- 30°C to + 90°C
- Operating temperature	:	Size 1 = G ½ Size 2 = G¾
- Port Size-head	:	Size 3 = G 1¼ Size 4 = G 2" SAE Size 1 = G ½ Size 2 = G¾
- Port Size - bowl	:	Size 3 = G 1¼ Size 4 = G 1¼



Low Pressure

- Various mounting configurations
- High capacity/high efficiency Microglass II media
- Visual and electrical indicators with several connector styles
- Flange options for low profile, easy mounting
- Integral breather (FT Series)



Medium Pressure

- NPT, SAE or flange ports
- High capacity/high efficiency Microglass II media
- Cartridge style bypass valve
- Visual and electrical indicators with several connector styles



High Pressure

- SAE, flange or ISO ports
- High capacity/high efficiency Microglass II media
- Visual and electrical indicators with several connector styles
- Manifold mount option (50P&15/30P Series)
- Reverse flow option (50PR Series) for HST circuits



Offline Systems

- Provide flexibility for removing contaminants from hydraulic fluid
- Guardian hand-held purification system with 4 GPM (15 LPM) flow
- Choice of five portable purification system in 3, 10, 20, 30 and 45 GPM flow rates
- Choice of two filter carts:
  5 GPM flow (500 SUS max.) and 1/2 HP motor
  10 GPM flow (3000 SUS max.) and 3/4 HP motor

EATON | Internormen











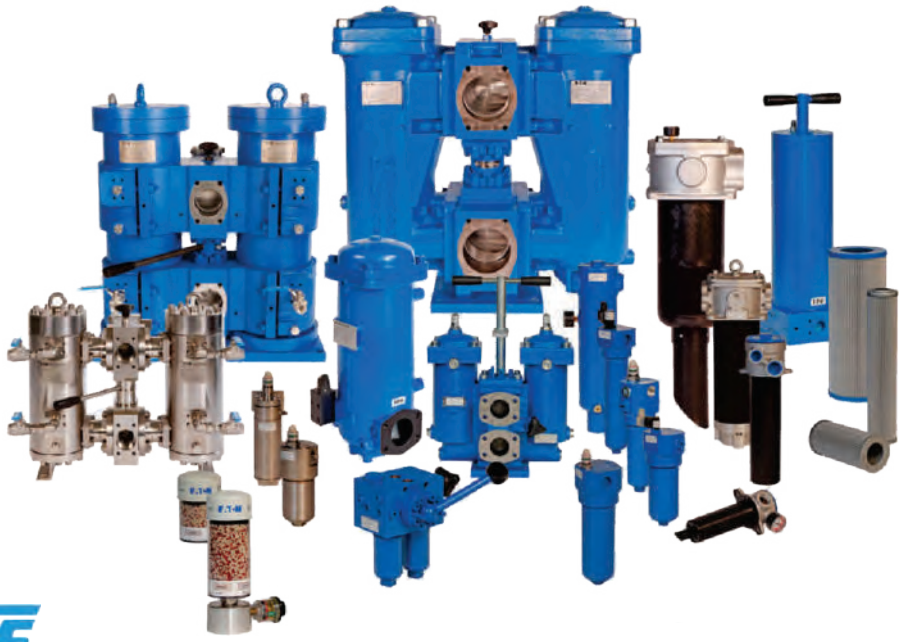






The IFPM Is a Purification System For Hydraulic And Lubrication Oil. It Is an Off-line Cleaning System For Water And Solid Contamination.

- Fully automatic operation
- A water content less than 100 ppm is possible
- Integrated heater with a heating power of 3 kW
- Continuous measurement during operation of the following parameters :
  Water saturation 0 ... 100 % and theoritical water content
  Fluid temperature
  Vacuum in the vacuum chamber -1 ... 0 bar
  Filter clogging 40 ... 100 % (cold start rejection < 25 C)



VICKERS

OFR 15/30, OFRS 15,25,60, H, M, S Series

- Rated flow : Up to OFRS-60 227L/min (60 USGPM)
- Fluid compatibility : Compatible with most petroleum oil, water glycol, oil-in-water and water-in-oil fluids
- Temperature range : -40°C to + 107°C (-40°F to + 225°F)
- Pressure rating : Operating 40 bar (600 psi) for OFR series, 7 bar(100 psi) for OFRS series
- Material : Head Die cast aluminium
  Bowl Carbon steel





Pressure Gauge
- Quality range of 63 and 100 mm DIA
- Glycerine filled Gauges
- Stainless steel construction
- Test point



MPFiltri Accessories
- TA series Filter Breather
- LVA-LVU Series oil level gauges
- LEN-LEV Series Electrical level gauges



Coupling



Limit Switch Type LEN Series
Pressure Switch Type SPG Series



Pipe Clamps



Flange



Bell Housing Type LMC Series
- Material : Aluminium
- Working Temperature from -30°C to +80°
- Size 80 Electric Motors to 30 kW, frame Size 225 Electric Motors



Ball Valves, Check Valve, Flow Control

GEMELS
INDUSTRIAL VALVES

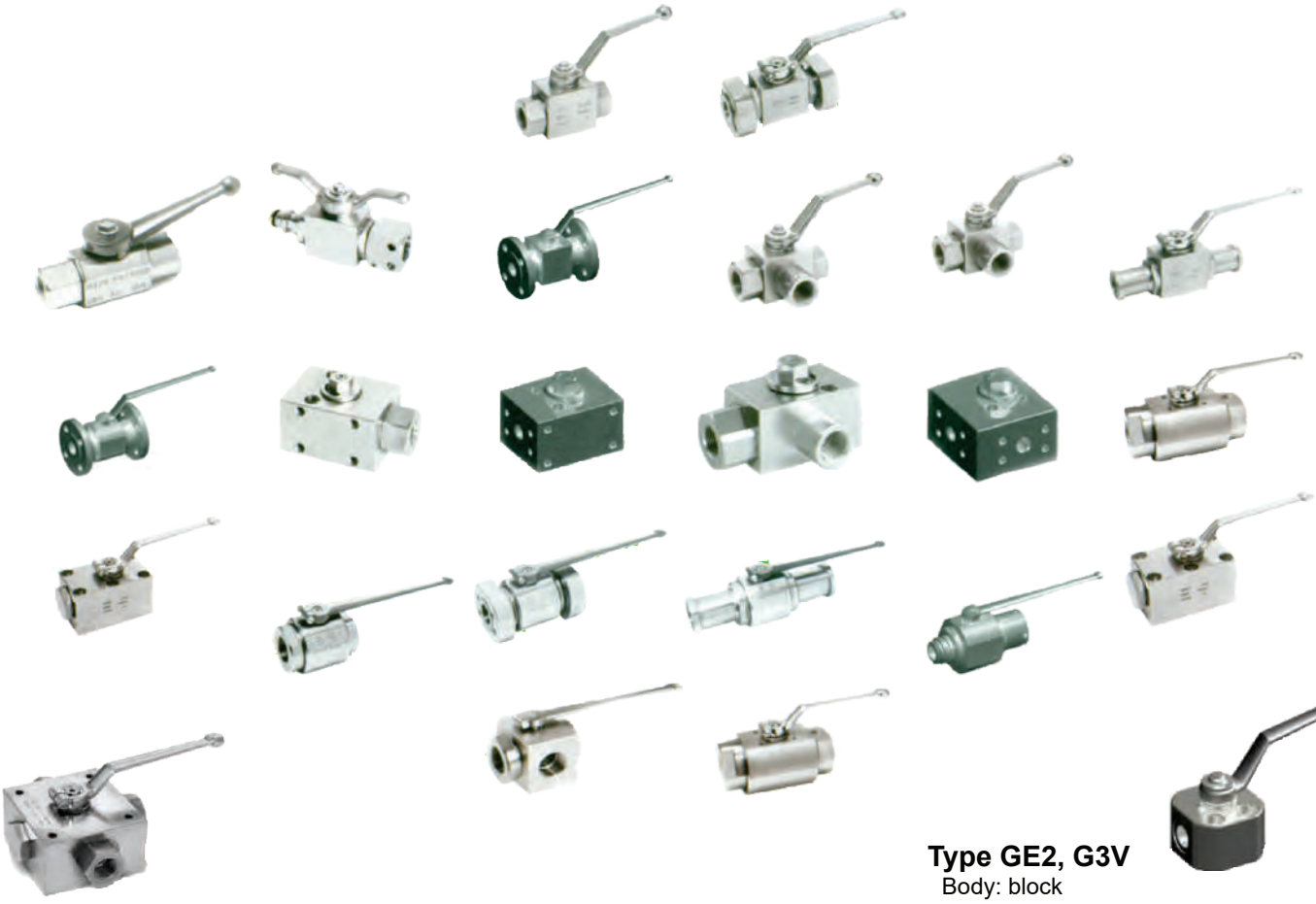




Ball Valve Type GBS, GBC, GBS, and GBR

- Material: 1,0570 / 1,0737
- Ball seats: from Dn32 up to DN 50
- Orings: NBR, FKM, EPDM, MVQ
- Operating Pressure: S3000 (210 bar)
  S6000 (350 bar) depending on valve size and seal materials selected
- Temp range: -20°C to + 100°C depending on seal material selected





Type G3K

- Ball seats: from DN4 up to DN 25
- Orings: NBR, FKM, EPDM, MVQ
- Operating pressure: 500 depending on valve size and seal materials selected
- Temp range: -10°C to + 100°C depending on seal material selected

Type GE2, G3V

Body: block
Material: 1,0737
Ball seats: from DN4 up to DN 25
Orings: NBR, FKM, EPDM, MVQ
Operating pressure: 500 depending on valve size and seal materials selected
Temp range: -10°C to + 100°C depending on seal material selected



Type GKH

Ball seat: from DN13 up to DN 50
Oring: NBR, FKM, EPDM, MVQ
Operating pressure: 800 bar depending on valve size and seal materials selected
Temp range: -20°C to + 100°C depending on seal material selected

STAUFF®



Clamps Body Type :
H, CC, SP DSP, WSP, etc
- Clamps Standard Series
- Clamps Heavy Series
- Clamps Heavy Twin Series
- Plastic Saddle Clamps
- Metal Pipe Clamps
- Round Steel U-Bolts

Spesification :
- Standard DIN 3015, DIN 3570
- Material Polypropylene, Polyamide, Thermoplastic Elastomer, Aluminium
- Range Outside Diameter pipe from 6mm - 500 mm
- Material Bolt/Cover Plate Carbon Steel/SS AISI 304/316



Pressure Gauge :
- Quality ranges of 63 mm and 100 mm Dia
- Stainless steel Construction
- Test Point
- Max. Pressure 1000 Bar
- Max. Temperature 60 Degree
- Accuracies +/- 0.5% - 1.6%

Flowtell Inline Flow Meter :
- Flow Aluminium & Polycarbonate
- NBR & Telfon Sealings
- Suitable for Mineral Based Hydraulic Fluid
- Max Operating Pressure 240 Bar
- Max Operating Temperature 116 Degree
- G1/2, G3/4, G1-1/4, 1/2NPT, 3/4NPT, 1-1/4NPT





Test Points & Couplings :
- Max. Working pressure 630 Bar
- Max. Temperature 200 Degree
- Suitable for Hydraulic Oil & Mineral Oil Base

STAUFF®



STAUFF Clean Pipe, Tube and Hose Cleaning System

- Pipe sizes ranging from 6mm to 60 mm
- Air compressor requiremen 6bar to 8bar / 87PSI to 116PSI
- Effective air volume 250L/min to 400L/min / 66 US GPM to 106 US GPM



Flow Indicator SDM/SDMKR

- Flow up to 400L/min
- Temperature: ±2,5 °C / ±5 °F
- Pressure up to 420 Bar
- Temp. measuring range: +20 °C up to +110 °C / +55 °F up to +245 °F
- Media temperature :
  permanent: +80 °C / +176 °F
  temporary (<10 min.): +110 °C / +245 °F



Complete System type PPC PAD

- Pressure up to 1000 bar/14500 psi
- Flow Rate Measurement up to 600L/min / 158 US GPM
- Temp. Sensor -40°C up to +150°C/-40°F up to +302°F
- Speed Sensor with integrated Connection Cable 2m/6.56ft



Valve
Two-Way Ball Valve, Multi-Way Ball Valve

- Max. Pressure up to 800 bar / 12000 psi
- Max. Temp. up to +500°C / +930 °F

Flow Control, Throttle and Shut-Off, Pressure Compensated Flow Control, Heavy-Duty Check

- Max. Pressure 500 bar / 7250 psi
- Connection uo tp 2"

Gauge Isolator Valve

- Max. Pressure 400 bar / 5800 psi
- Connections 1/4" / 7/16-20 UNF

EATON | Aeroquip

Hose and Fitting



Aeroquip



EATON WINNER®

Parker

- Low medium and high pressure hydraulic hose
- Standard covers hose or high abrasion resistant cover hose
- MSHA and FRAS approved hoses
- Hose fittings, adaptors, quick release couplings accessory products







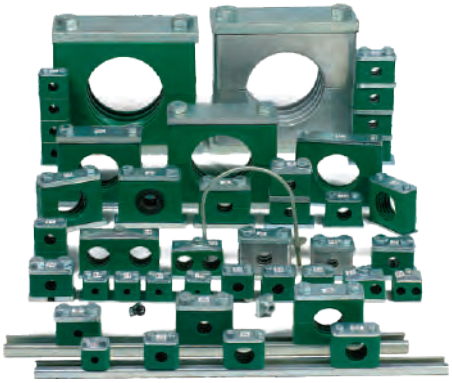






Walterscheid Tube Fitting Systems Consist Of The Following:
WALPro® • W ALRing
WALForm® • Flared
Flared Flange

- Available in a multiple of size and configurations.
- Superior performance, as well as lower assembly and operating cost.
  Applications: In-plant industrial equipment, mobile on/off highway equipment and general hydraulic system use.
- Specifications: Size: 4 mm to 42 mm.
  Additional sizes available upon request.
- ISO 8434-1/DIN2353/ISO 6162, DIN 3949, DIN912 and others.







Tube Connection

- Highest pressure stages
- Considerably lower tightening and loosening torque required, thanks to union nuts with partially silver coated threads from size 15L/12S and upwards
- Mechanically controlled final assembly ensures 100% reliable joint
- Radially flexible profiling - optimum tube clamping effect
- Axial stiffness - effecient tube connection
- Outstanding cutting performance assured by optimised cutting angle and inherently stable cutting edge

Parker Chelsea



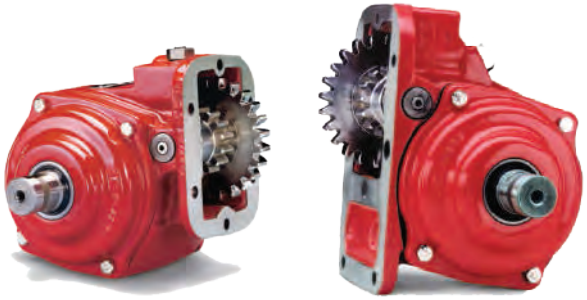
522
- Robust modular design
- Compact size
- Easy to install
- Internal air shift
- Positive engagement



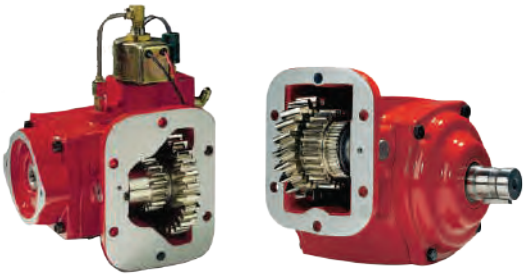
442, 489 (6-Bolt)
- Two-gear
- For virtually all transmissions
- Cast iron housing and tapered cone bearing
- 489 6-bolt design with an integral 8-bolt flange casting



880 (8-Bolt)
- Two-gear
- Three shift options
- Dual pump output available



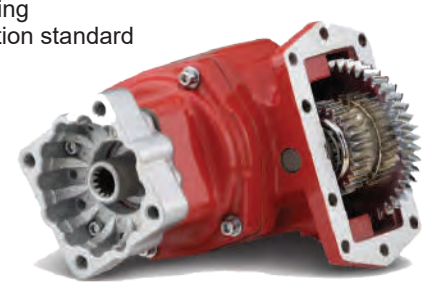
230/231, 270/271 (6-Bolt)
- Standard housing (230/231 and low profile housing (270271)
- Optional pressure lubrication
- Shaft brake option “BD”
- Power shift



236, 250, 251 (6-Bolt)
- 236 fits virtually all currently produced transmissions
- 250 features lates technology for automatic transmissions includin Controlled Compression Interface Gasket
- 251 features weather-tight electrical connectors for under-the-vehicle connections; electronic overspeed control available



277, 278 (10-Bolt)
- Approved for use with Allison World transmissions
- Helical gears for quieter operation
- Simplified plumbing
- Pressure lubrication standard



242/244, 243, 245 (6-Bolt)
- 242/244 Series for Ford Super Duty transmissions
- 243 Series for Mitsubishi
- 245 Series for Ford 5-speed TorqShift transmission
- Controlled Compression Interface Gasket eliminates setting gear backlash



Contact Us:

+62 812 8321 2198
+62 21 5812536
@dutaflowhidrolik
sales@dutaflow.com
Jl. Raya Panjang, Rukan Green Garden Blok Z-2, No. 66-69 Jakarta Barat - Indonesia 11520