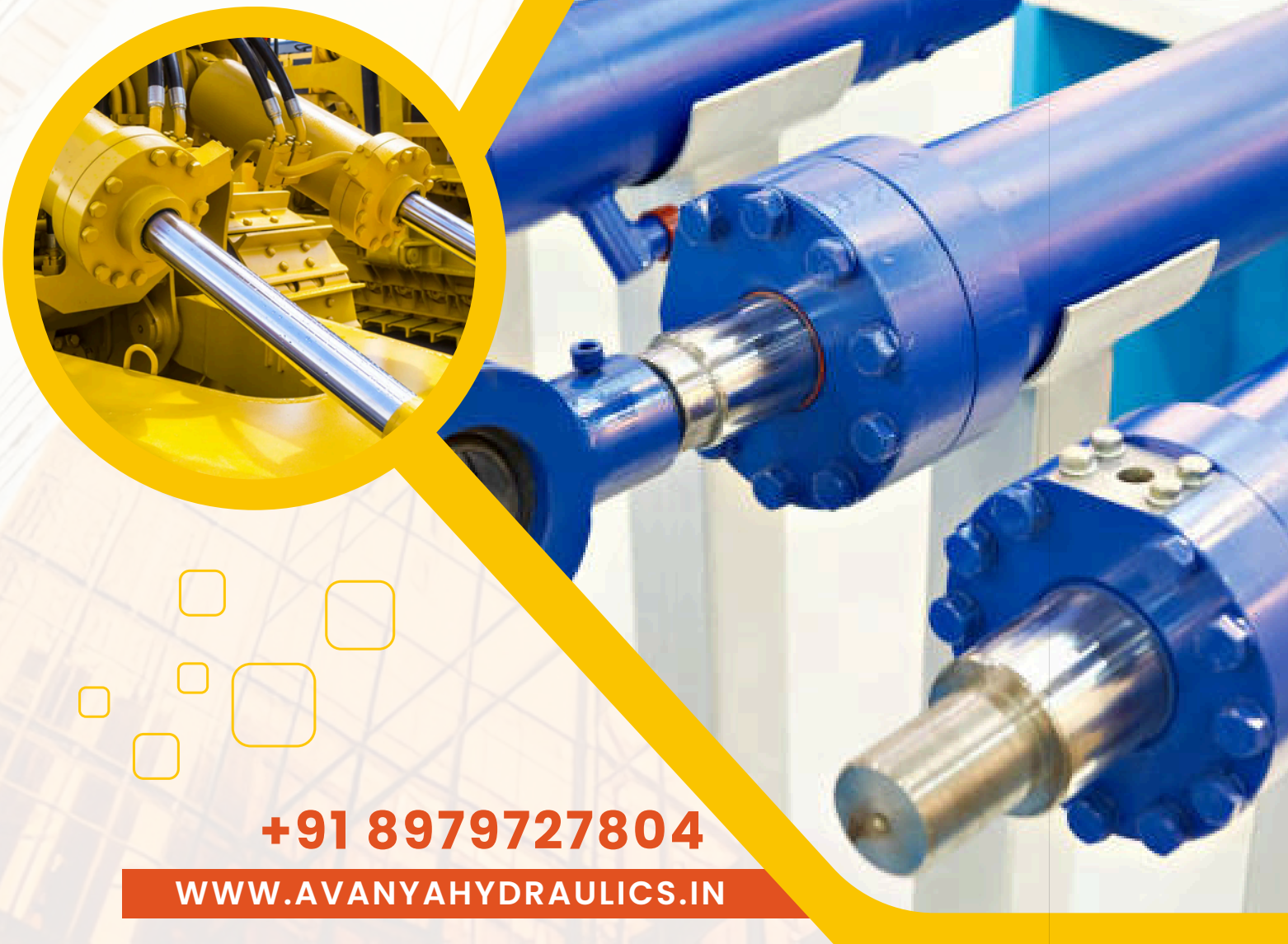
AVANYA
HYDRAULICS

AVANYA HYDRAULICS

We delivers reliable, high-performance hydraulic solutions .

STRENGTH | YOU CAN | TRUST



+91 8979727804

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MISSION

Our mission at Avanya Hydraulics is to provide reliable, high-quality hydraulic solutions through innovation, precision engineering, and dedicated service

PROCEDURE

We follow a systematic process that includes requirement analysis, precision design, quality manufacturing, thorough testing, and timely installation to ensure efficient and safe hydraulic operations.

AIM

Our aim is to become a trusted name in the hydraulic industry by providing innovative, cost-effective, and durable solutions that enhance productivity and minimize downtime.

WORKS

We specialize in hydraulic system manufacturing, repair, maintenance, and customization, serving industrial, commercial, and machinery-based applications with efficiency and professionalism.

SOLUTIONS

We offer customized solutions to meet specific industry requirements, ensuring high performance, safety, and durability. Our expert team focuses on reducing downtime and improving operational efficiency.

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DIRECTIONAL VALVES

AH-(H)-WEH/WH

Pilotoperateddirectionalvalve,Type AH-(H)-WEH/WH

Electro-hydraulic operation, Spring or pressure- centered, Stroke adjustment at main spool, optional, Pre-load valve in the P-channel of the main valve, optional, Wet-pin DC or AC solenoids, optional, Electrical connections as individual connection, Manual override, optional Mounting type: sub plate mounting

Size: 10, 16, 25, 32Type: AH-(H)-WEH/WH Max. operating pressure bar: 28/350 Max. Flow L/min: 160 (size 10), 300 (size 16),650 (size 25), 1100 (size 32)

AH-WE4.....20/

Directionalcontrol,electricallyoperated type AH-WE4…20/

Wet pin DC or AC solenoids with removable coil (it is not necessary to open the pressure tight chamber when changing the coil)Solenoid coil can be rotated through 90 degree, Hand override, optional, Electrical connections as individual connection Mounting type: Sub-plate mounting Size: 4Type: AH-WE4-20/ Max. operating pressure bar: 210 Max. Flow L/min: 30

AH-WH

Directionalvalve with fluidic operation, Type AH-WH

Hydraulic operated spool valve
Spring or pressure-centered
2-way valve with detent, optional
Mounting type: sub-plate mounting

Size: 6, 10Type: AH-WH Max. operating pressure bar: 315 Max. Flow L/min: 60 (size 6), 120 (size 10)

AH-WMM10....30/

Directionalcontrolvalvewithhand lever

Type AH-WMM, series 30 Direct actuated directional spool valve with hand leverWith spring return or detent Sub-Plate Mounting

Size: 10 Type: AH-WMM10…..30/ Max operating pressure bar: 350 Flow L/min Max: 100

Z4WE6...3XT

4/2 way isolator valve
Size: 6 Up to 315 bar
Up to 40 L/min

Features:
Solenoid operated directional spool valve is the standard version
Porting pattern to DIN 24 340 form A, ISO 4401
and CETOP–RP 121 H
Free-flow through ports P and T in all switched positions
Sandwich plate valve
Wet pin AC or DC solenoids
Hand override, (optional)

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DIRECTIONAL VALVES

AH-M-SEW6/10

Poppetdirectionalvalves,solenoid actuated

Type M-SEW6 Direct operated directional poppet valve, solenoid actuated Closed port is leak free No switching is ensured even after long periods of being under pressure Air gap DC solenoids with removable coil (it is not necessary to open the pressure tight chamber when changing the coil) Solenoid coil can be rotated by 90 degrees With protected hand override, optional Individual electrical connection Mounting type: sub plate mounting

Size: 10Type: AH-M-SEW6 Max operating pressure bar: 630 Max. Flow L/min: 25, 40

Sd4

Monoblock Directional Control Valve
Maximum Flow: 45 L/min Operating Pressure: up to 315 Bar

Features:Simple, compact design, this valve is only one section for open centre and closed centre hydraulic systems. Fitted with a main pressure relief valve. Diameter 16 mm interchangeable spools. Available manual and remote with flexible cables spool control kits.

Sd8

Sectional Directional Control Valve
Maximum Flow: 90 L/min
Operating Pressure: up to 315 Bar

Features:
Simple, Compact and heavy-duty designed sectional valve from 1 to 14 sections for open and closed center hydraulic systems. Fitted with a main pressure relief valve and a load check valve on every working section. Available in manual control only. Optional carry-over port.
A wide range of port and circuit valves.
Intermediate sections for several types of circuit.
Diameter 18 mm interchangeable spools.
Available with parallel, tandem or series circuit.

DCV 140/200 L/min

Sectional Directional ControlValve

Maximum Flow: 140, 200 L/min
Maximum Pressure: up to 350 Bar

Features:
DCV directional control valve is designed for high pressure hydraulic systems such as drilling machine, sanitation etc. Auxiliary valve: over-load valve, anti-cavitation valve, combined valve etc.
Control type: manual, joystick, cable, pneumatic, solenoid, electro-pneuma
tic, electro-hydraulic etc.
Structure: sectional type. Carry-over port as hydraulic source for other parts.

Z50

SolenoidDirection Control

ValveSpool: 1 to 6
Max Pressure: 315 Bar
Max Flow: 5 L/min

Features:
Built-in check valve: The check valve inside the valve body is to ensure the hydraulic oil does not return. Built-in relief valve: The relief valve inside the valve body is provided to adjust the hydraulic system working pressure.
Oil way: Parallel circuit, power beyond option
Coils, Connector ISO4400: 12VDC, 24VDC
Threads: P/T ports - G1/2", A/B ports - G3/8"Valve construction: Monoblock construction, 1–7 spools

P40/P80/P120

Monoblock Directional Control valve
Nom. Pressure: 210 bar
Max. Pressure: 250 bar
Max. Flow: 40 Ltr / 80 Ltr / 120 Ltr

Features:
Manually or mechanically controlled hydraulic directional control valve P40/P80/P120 are designed for distribution and control of the flow of oil between generator (pump) and the cylinder / hydro-motor etc.

It is manufactured with 1 to 6 spools, with parallel or series function, with common or individual back valve for each spool, with or without safety valve

Sizes: 1P40, 2P40, 3P40, 4P40, 5P40, 6P40
1P80, 2P80, 3P80, 4P80, 5P80, 6P80

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PROPORTIONAL VALVES

EBG 03/06

Electroproportionalpressure relief valve

This valve is combined with a proportional electro-hydraulic pilot relief valve and a specially developed low-noise relief valve. Owing to special vent restrictor, this valve can make pressure control more precise and stable.

Size: 03, 06

EFBG-02/03/06/10

ProportionalPressureRelief&Flow Valves Pilot Operated

Pressure and flow is proportional to the input signal of the proportional solenoids. This proportional valve adopts two electrical loops to control pressure and flow of hydraulic system respectively. The power losses is very low and overall efficiency high, hence reduced power consumption. Using very small pressure drop to track load pressure and control the pump pressure. This relief and flow control valve is energy saving type that provide flow and pressure as per programmed for actuator/drive.It is an high efficiency and energy-saving valve.

AH-(Z)DBE and AH-(Z)DBEE

Proportional pressure relief Valve

Size: 6 Working
Pressure 315bar
Max. Flow 30L/min

Features: Valve for limiting a system pressure Actuation via proportional solenoids For sub-plate mounting or sandwich plate design Valve and control electronics from a single source Types AH-DBEE and AH-ZDBEE with integrated control electronics: Low example spread of the command value pressure characteristic curve Independently adjustable up and down ramps

3DREPE6

Proportional pressure reducing valve of 3-way design

Features:
Directly controlled proportional valves for the control of the pressure and directional of flow Actuated via proportional solenoids with central thread and removable coil. Hand override, optional Spring centered control spool.

Type AH-3DREPE with integrated electronics, interface A1 External control electronics for type AH-3DREP Analogue amplifier type HD-VT-VSPA2-50-1X/... in Eurocard format. Digital amplifier type AH-VT-VSPD-1-1X/.. in Eurocard format Electrical amplifier type AH-VT-11118 of modular design. Valve and proportional control electronics from a single source.

AH-4WRA(E)6....2X

New Series Proportional Directional valve

Direct operated with
integrated electronic
Working pressure bar 315
Max Flow L/min 30
For sub-plate mounting
Direct actuated proportional valve for controlling the direction and volume of a flow
Spring centered control spool
Integrated control electronics, interface A1 or F1 for type 4WRAE
Actuation by means of proportional solenoids with central thread and removable coil Control electronics for type 4WRA

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PROPORTIONAL VALVES

AH-4WRE(E)...2X

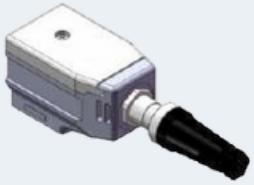
New Series Proportional Directional valve

with integrated electronics and position feedback Size: 6 and 10
Working pressure bar 315
Flow L/min 180
Directly controlled proportional directional valve for the control of the direction and magnitude of a flow. For sub-plate mounting
Electrical position feedback
Spring centered control spool
Type 4WREE, integrated valve electronics with interface A1 or F1
Actuation is by proportional solenoids with central thread and removable coil
Valve and electronic control from one source

VT-PPDA1

Plug-in Amplifier Connector for proportional valve

Component Series: 3X Operating voltage: 12...32V Features
Plug-in amplifiers are easy to operate and install
Digital proportional amplifier for mobile phone Bluetooth control Data can be monitored by mobile phone Users can configure parameters according to actual working conditions For proportional valves without position control



AH-4WR

Proportional Directional valves pilot operated type AH-4WRZ External pilot operated type AH-4WRH

Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids Spring centred control spool. Both valve and electronic control from one supplier Mounting type: Sub-plate mounting

Size 10 16 25 32 Type AH-4WR Max operating pressure bar 350 350 350 350 Max Flow L/min 270 460 877 1600 Delay components <6 <6 <6 <6 Repeatability Precision <3 <3 <3 <3

AH-DBE/DBEM

Proportional pressure relief valve type AH-DBE/DBEM

In relation to the electrical command value the pressure can be limited and be infinitely set
Optional maximum pressure protecting adjustment
Both valve and electronic control from one supplier
Mounting type sub plate mounting, manifold mounting

Size 10 30 20 Type AH-DB/DBEM Max operating pressure bar 315 Max flow L/min 200, 600, 400 Delay components 1.5 with buffering 4.5 Without buffering Repeatability Precision +/-2Electronic control VT-2000S 40

AH-DBETR

Proportionalpressure relief valve, Type AH-DBETR

Valve for electrical remote control of pressure, limiting in a system pressure Proportional solenoid actuation with inductive position transducer Both valve and electronic control from one supplier Mounting type:
Sub-plate mounting
Size 6
Type AH-DBETR
Max operating pressure bar 25 80 180 315
Max Flow L/min 10 3 3 2
Delay components <1
Repeatability Precision <0.5
Electronic control VT-5033S30

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PROPORTIONAL VALVES

AH-DRE/DREM

Proportional pressure reducing valve type AH-DRE/DREM

Used for the reduction of a working pressure Optional maximum pressure protecting adjustment. Both valve and electronic control from one supplier Mounting type sub: plate mount manifold mounting

Size 10 20 30 Type AH-3DREP6 Max operating pressure bar 315 315 315 Max. Flow L/min 200 400 600 Delay components 1.5 with buffering 4.5 p. max without buffering Repeatability Precision +/-2 +/-2 +/-2 Electronic control VT-2000S 40

4WRPEH6/10

Servo Solenoid Proportional Valve

Max. Working Pressure: 315 bar Nominal flow rate 40lpm and 100lpm, max.(P = 70 bar)With control spool and sleeve in servo quality Operated on one side, 4/4-fail-safe position in switched o ff state. Electric position feedback and integrate delectronics (OBE), calibrated in the factory. Electrical connection 6P+PE

Signal input differential amplifier with interface"A1" +/-10V or interface "F1" 4....20mA(Rsh = 200Ω)Use for electro-hydraulic controls in production andtesting systems.

DBETX.....1XT

Proportional pressure relief valve

NG6Max.
Pressure 315 bar Nominal flow 1 lpm

Features:Direct operated valves for the limiting system pressure. Adjustable by means of the solenoid current, see performance curve, Technical data and selected valves electronics. Pressure limitation to a safe level even with electric failure (solenoid current I > Imax.) For subplate attachment, mounting hole configuration to ISO4401External trigger electronics with ramps and value calibration (order separately).

VT-DFP

Pilot Control Valve, 24VDC, 350 bar

Features:
Pilot valve for the pressure and flow control system SYDFE
In conjunction with amplifier VT5041, it controls the swash-plate angle of the pump in either closed loop pressure or flow control
Component series 2XThis valve is to be considered a part and not a complete control
Standard spool design
Radial to the pump axis

EDG-01

Proportional Pressure Relief And Flow Valves Pilot Operated

This valve consists of a small DC solenoid and a direct-acting relief valve. It serves as a pilot valve for a low flow rate hydraulic system or a proportional electro-hydraulic control valve and controls the pressure in proportion to the input current. Note that this valve is used in conjunction with the applicable power amplifier.

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PROPORTIONAL VALVES

AH-4WRZE10

Proportional Directional Valve

Valves of type 4WRZE10 are pilot operated 4-way directional valves with operation by proportional solenoids. They control the direction and magnitude of flow.

Features:
Pilot operated 2-stage proportional directional valves with integrated electronics (OBE)
Control the direction and magnitude of flow
Manual override

Spring-centered controlspool

Size: 71, 90

AH-4WRKE10,16,25,32,35

ProportionalDirectionalValve,PilotOperatedwith Electrical position feedback type

Size 10 16 25 32 35
Flow L/min 170 460 870 1600 3000
Pilot Operated, with integrated electronics
Working Pressure bar 350
Valve for limiting a system pressure
Actuation via proportional solenoids
For sub-plate mounting or sandwich plate design Valve and control electronics from a single source Types HD-DBEE and HD-ZDBEE with integrated control electronics:

Low example spread of the command value pressure characteristic curve Independently adjustable up and down ramps

AH-2FRM

2-wayflowcontrolvalve, Type UH-2FRM

For maintaining a continuous set flow, independent of pressure and temperature
Lock able key optional
External closing of the pressure compensator optional.
Check valve optional
A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions.
For sub plate mounting.

Size 5, 6, 10, 16
Type UH-2FRM 315
Max operating 210
Pressure bar
Flow L/min Max 15, 25, 50, 160

AH-2FRM6....31/

2-Way flow control valve, type UH-2FRM6.....31/

For maintaining a continuous set flow, independent of pressure and temperature Lockable, Key optional
External closing of the pressure compensator optional. Check valve optional
A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions. For sub plate mounting
Size 6
Type - 6 UH-2FRM-...31/
Max operating 315
Pressure bar
Flow L/min Max 32

D1FP & D3FP

Direct-actinghigh-frequency response servo directional valve electrical position feedback and integrated amplifier

Size: NG6 & Ng10
Maximum pressure: 350 Bar
Rated Flow:NG6 : 3~40 L/min
NG10: 50~100l/min
(Δp=70bar)

Size: 71, 90

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PROPORTIONAL VALVES

D*1FP

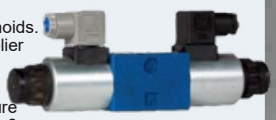
Pilot-operated three-position four-way servo directional valve
VCD voice coil motor driver With electrical position feedback with integrated amplifier

Sizes: 10~27
Maximum pressure: 350bar
Rated flow: 60~600L/min

AH-3DREP6

Proportionalpressurereducing valve of 3-way design, Type AH-3DREP6

The 3 way pressure reducing valve is directly actuated by proportional solenoids, limiting a system pressure. Wet pin DC proportional solenoids. Both valve and electronic control from one supplier
Mounting type: Sub-plate mounting



Size 6Type AH-3DREP6 Max operating pressure bar 100 Max Flow L/min 15 Delay components <3 Repeatability Precision <1 Electronic control with 1 ramp times VT-3000S30 Electronic control with 5 ramp times VT-3006S30

AH-4WRZ...7X

Proportional Directional valve

Pilot operated with integrated electronic

Size: 10, 16, 25, 32
Working pressure bar 315
Max Flow L/min 30Pilot operated operational directional valveFor sub-plate mountingThe control of direction and rate of flow Spring centered control spoolValve and proportional control electronics from a single source

AH-4WR

ProportionalDirectional valves pilot operated
Type AH-4WRZ External pilot operated type AH-4WRH

Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids. Spring centered control spool. Both valve and electronic control from one supplier.
Mounting type: Sub-plate mounting

Size - 10, 16, 25, 32 Type - AH-4WR
Max operating pressure bar 350 Max Flow L/min 270, 460, 877, 1600 Delay components <6 <6 <6 <6 Repeatability Precision <3 <3 <3 <3

AH-DBETR

Proportionalpressurerelief valve, Type AH-DBETR

Valve for electrical remote control of pressure, limiting in a system pressure
Proportional solenoid actuation with inductive position transducer
Both valve and electronic control from one supplier
Mounting type: Sub-plate mounting

Size - 6 10 Type - AH-DBETR
Max operating pressure bar 25 80
Max Flow L/min <10 30 Delay components <1 <3 Repeatability Precision <=+/1 Electronic control - VT-5003S30

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PROPORTIONAL VALVES

AH-DRE/DREM

ProportionalDirectional valves pilot operated
Type HD-4WRZ External pilot operated type AH-4WRH

Pilot (WRZ) and direction (WRH) proportional valve for controlling both direction and flow of a hydraulic fluid. Wet pin DC proportional solenoids. Spring centered control spool. Both valve and electronic control from one supplier. Mounting type: Sub-plate mounting

Size - 10 16 25 32 Type AH-4WR Max operating pressure bar 350 Max Flow L/min 270 , 460, 877, 1600 Delay components <6 <6 <6 <6 Repeatability Precision <3 <3 <3 <3

AH-DBE/DBEM

Proportionalpressurereliefvalve type AH-DBE/DBEM

In relation to the electrical command value the pressure can be limited and be infinitely set
Optional maximum pressure protecting adjustment
Both valve and electronic control from one supplier
Mounting type: Sub plate mounting, manifold mounting

Size - 10 , 20, 32 Type - AH-DB/DBEM Max operating pressure bar 315 Max Flow L/min 200, 600, 400 Delay components <10 <10 <10

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MOOG SERVO & PROPORTIONAL VALVES

D941 SERIES

730 SERIES

PROPORTIONAL VALVE

SERVO VALVE

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CLOSED CIRCUIT AXIAL PISTION PUMPS

A4VTG – Variable Displacement Axial Piston Pump

Note: Swash plate design for hydrostatic closed loop circuit systems in industrial and mobile machines.Flow proportional to drive speed and displacement.Infinitely variable by adjusting the swash plate. High-pressure operation (up to 350 bar). Compact design, low noise, low inertia rotary group. High power density, through-drive option for multi-circuit systems.

Size: 71, 90

A4VG – Variable Displacement Axial Piston Pump

Displacement: 40–125 ml/r
Flow: 165–346 l/min
Max Pressure: Up to 450 bar

Features:Axial piston swash plate design. For closed circuit hydrostatic drives. Flow is proportional to drive speed and displacement. Integrated auxiliary pump.High-pressure resistance and through-drive option.Common use in mobile and industrial drives with hydraulic transmission.

A4VSG – Variable Displacement Axial Piston Pump

Displacement: 60–750 ml/r
Max Pressure: Up to 400 bar

Features: Swash plate design.
Flow proportional to drive speed and displacement. Low noise and high reliability. Adjustable power control and flow cut-off. High radial/axial load capacity. High-pressure stable construction. Applications: press machines, forging machines, hydraulic transmissions, injection molding, and die-casting.

PVH & PVH2 SERIES – Variable Displacement Axial Piston Pump (Swashplate Design)

Displacement: PVH: 33 to 110 cc/rev
PVH2: 32 to 141 cc/rev
Max Pressure: 280 bar

Features:Compact axial piston design. Reliable under high dynamic conditions. High efficiency and long life.Excellent suction characteristics.Applications: construction machinery, injection molding machines, machine tools, crushers, mixers, compaction rollers, and road rollers.

A22VG – Axial Piston Variable Double Pump

For Closed Circuit
Size: 45cc/rev
Nominal Pressure: 380 bar
Max Pressure: 420 bar

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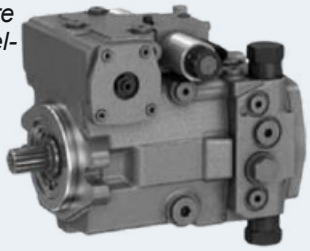
CLOSED CIRCUIT AXIAL PISTION PUMPS

A10VG – Axial Piston Variable Pump

Nominal Pressure: 300 bar Max
Pressure: 350 bar Circuit: Closed circuit

Application: Medium pressure pump for closed-circuit diesel-driven applications.



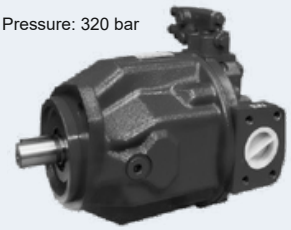
MV Series – Bi-direc onal Axial Pion Pump (For Servo Applica ons)

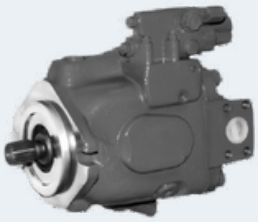
Operating Pressure: 175 bar
Max Pressure: 250 bar
Features: Servo driven design for chargeable closed-loop systems. New design with full pressure-time relief design. Twin face design for low oil pulsation. Compact, high-efficiency structure. Bi-directional capability. Suitable for servo hydraulic systems. Ideal for tool changers or robotic arms.

Sizes: 8, 10, 12, 15, 18, 23, 25, 38, 50, 75

UP Series – Bi-Direc onal Axial Pion Pump

Max Pressure: 320 bar





Flow Range (cc/rev): 30, 50, 90, 110, 140, 170, 200, 250, 320, 480

CY Series – Fixed-displacement pump/motor

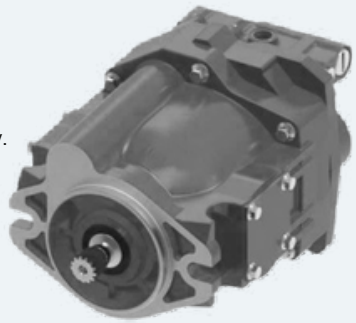
Series: 14–18
Nominal Pressure: Up to 350 bar

Features: CY series axial piston pump is suitable for use in hydraulic circuits.Available in unidirectional and bidirectional types. Operates by fluid movement inside a rotating cylinder block.High volumetric efficiency. Simple and robust construction.Widely used in heavy machinery and industrial applications.

Size: 1.5 … 400

PVB – Axial Piston Pump

Max Pressure: 210 bar
Max Flow: 9.5 l/min
Introduction: S wash plate-type design. Compact structure. Used in machine tools and transfer lines. Ideal for small hydraulic systems or rotating machinery.



Sizes: 6, 8, 10, 15

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HYDRAULIC PUMPS

OPEN CIRCUIT AXIAL PISTON PUMPS

A2F – Fixed-displacement pump/motor

Features: Axial piston fixed displacement motor in bent axis design.Suitable for open and closed circuit hydrostatic drives.Output flow is proportional to drive speed and displacement.Output torque increases with pressure drop between ports. High-performance spherical valve plate rotary group.High efficiency, long life, low noise.

Note: Fixed displacement pump/motor A2F is an axial piston unit in bent axis design. Suitable for use in both open and closed circuit hydrostatic drives. Output flow is proportional to the drive speed and displacement. Output torque is proportional to the pressure drop between the ports.

Size: 10, 12, 23, 28, 45, 55, 63, 80, 107, 125, 160, 200, 250, 355, 500

A2FO – Fixed-displacement bent axis piston pump

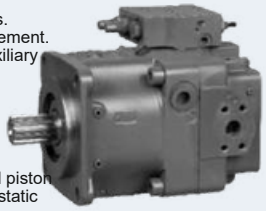
Features:Bent axis piston design.
Output flow proportional to drive speed.High-speed capability.Compact and lightweight design.Designed for mobile/industrial use.Bearings designed for long service life in extreme conditions.

Note: Fixed displacement pump A2FO of axial piston design in bent axis design suitable for hydrostatic drives in open circuits, suitable for use in mobile or industrial applications. Output flow is proportional to the drive speed and displacement. The spherical shape of the pistons ensures a low-friction, wear-resistant operation.

Size: 10, 12, 16, 23, 28, 32, 45, 56, 63, 80, 90, 107, 125, 160, 180, 200

A11VO / A11VL0 – Variable displacement pump with axial piston drive

Features: Axial piston pump for open circuits. Proportional flow to drive speed and displacement. Wide range of control options.Integrated auxiliary pump available.Optional through-drive.



Note: Variable displacement pump with axial piston rotary group in swash plate design for hydrostatic drives in open circuit.

Displacement: 40–260 ml/r

A4VSO – Variable displacement pump

Features: Axial piston design (swash plate).
Flow is proportional to input speed & displacement.
High operating pressure (up to 350 bar).
Low noise.
Optional through-drive and variable control options.

Note: Pump A4VSO of swash plate design is designed for hydraulic transmission in open circuit. Flow is proportional to input speed and displacement and is infinitely variable by adjustment of the swash plate.

Size: 40, 71, 125, 180, 250, 300, 355

A10VSO – Variable displacement pump

Features: Axial piston unit with swash plate design. Compact, quiet system.Flow proportional to drive speed and displacement.High-pressure capability. Long service life.Through-drive option available.

Note:The A10VSO pump, swash plate design for open circuit system used in a varied range of applications. Flow is proportional to drive speed and displacement.

Size: 10, 18, 28, 45, 71, 100, 140

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OPEN CIRCUIT AXIAL PISTION PUMPS

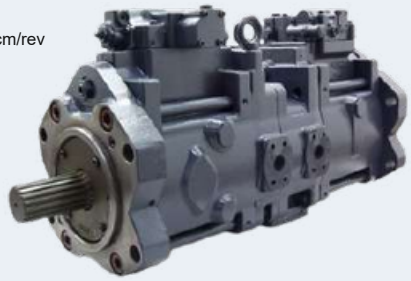
K-AP – Bent Axis Piston Pump

Max Pressure: Up to 350 bar
Maximum Speed: 4300 rpm
Minimum Speed: 1750 rpm

Sizes: 22 to 125 cc/rev

K3V Series – Axial Piston Pump

Type: Open circuit
Displacement: 65–280 ccm/rev
Rated Pressure: 340 bar



PV – Axial Piston Pump

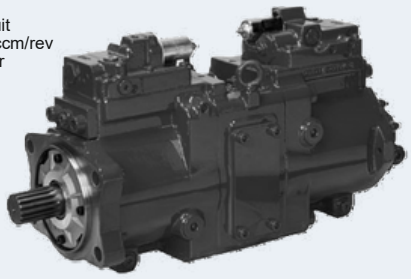
Nominal Pressure: Up to 350 bar

Features: New type of swash plate and large servo piston with strong bias spring achieves fast response. Includes decompression system to reduce drive torque at startup.

Suitable for: Automotive industry, Industrial ships, Forging machines, Tire machines Injection molding machines, Die-casting machines, Special purpose machinery High/low-pressure pre-compression technology (pre-/low-pressure built-in relief in multistage low outlet flow pistons)Rigid and FEM-optimized body design for lowest noise level.

K7V Series – Axial Piston Pump

Circuit Type: Open circuit
Displacement: 65–140 ccm/rev
Rated Pressure: 350 bar



AVANYA
HYDRAULICS

HYDRAULIC PUMPS

OPEN CIRCUIT AXIAL PISTON PUMPS

A10VS0DFE/DFEE – Control type SYDFE/SYDFEE

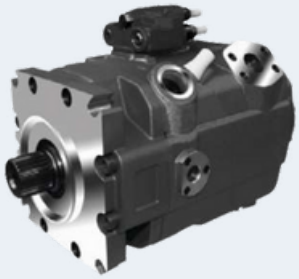
Features:Flowproportionalto drivespeedand displacement.Infinitely variable by swash-plate adjustment (SAE ISO mounting flange).Fixed connection to SAE metric.2 case drain ports, short response time, low noise level.Compact design.Long service life.Short response times. Through-drive option for multi-circuit systems.

Note:Axial piston pump, swash plate design for hydrostatic open circuit system used in varied medium duty application in industrial & mobile machines.

Size: 28, 45, 71, 100, 140

A15VSO – Variable Axial Piston Pump

Open circuit
Sizes: 110 to 280
Nominal pressure: 350 bar
Maximum pressure: 420 bar
Features:Variable axial piston pump (swash plate) for hydrostatic drives.
Flow proportional to speed and displacement.
Wide control range.
Compact design.High efficiency.Long service life.
Low noise level.



A7V – Variable displacement pump

Features:Flow is proportional to drive speed and displacement.Stepless variation of displacement. Compact design.Good suction characteristics. High power-to-weight ratio. Bearing designed for long life. Low noise.

Note: Variable displacement pump, axial piston bent axis design for hydrostatic transmissions in open circuits. Flow is proportional to the drive speed and displacement and steplessly variable over a wide range. Comprehensive program of controls allows pump operation suited to every application.

Size: 20, 28, 40, 55, 56, 80, 78, 107, 117, 160, 250, 355, 500

A8V – Variable double pump

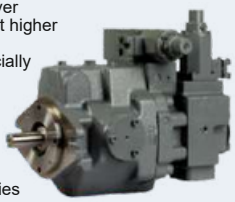
Features:2 variable pumps in one housing.
Same flange and drive shaft to SAE.
Output flow can be controlled independently.
Optional through-drive.
High-pressure operation.
Long service life.

Note: Two variable pumps in a common housing. The hydraulic pumps are flange mounted on engine; the same flange and control shaft (SAE) are used. Output flow can be independently adjusted or changed during operation.

Size: 28, 55, 56, 80, 107, 125, 160

A Series – Variable displacement piston pump

Features: High volumetric efficiency up to 98%.Over 15+ years of field usage. Optimum performance at higher pressure levels. Large bearing area ensures long service life. Axial piston swash-plate design. Specially hardened sliding surfaces. Pump is reversible (bi-directional). Available in different models for various needs: open circuit, closed circuit, electro-hydraulic, torque motor, etc.



Note: High volumetric efficiency (up to 98%) and overall efficiency (more than 90%). These “A” Series pumps are extensively proven in the field over more than 15 years. The swash plate construction with a large bearing area and optimally hardened sliding surfaces ensures long life and reliability.

AVANYA
HYDRAULICS

HYDRAULIC PUMPS

OPEN CIRCUIT AXIAL PISTON PUMPS

A2VK – Variable Pump

Series: 1 and 4, for open circuits
Nominal pressure: up to 250 bar
Features: Precision, efficiency, and repeatability. Hydraulically actuated.Compact and maintenance-free.Flow proportional to input speed.Suitable for many industrial hydraulic systems.

Note:Axial piston unitfor hydraulicandbuilt-in precision control systems. Highvolumetric

Size: 12, 28, 55, 107

AR SERIES – Axial Piston Pump

Nominal Pressure: 165 bar
Max Pressure: 210 bar
Features: Small and light design, space-saving.Special alloy material. Power saving. Low noise. Long life. Easy to assemble. Clean appearance and light weight. Applications: CNC lathe machine, bending machine, punch/hydraulic press. High-efficiency machine.

Sizes: 10, 16, 22 cc/rev

HY SERIES – Variable Displacement Axial Piston Pump

Displacement: 10–320 ml/r Max Pressure: Upto400 bar
Features: Axial piston type with hydrostatic trunnion bearing.Fineless flatness of compact size. High output efficiency.Long life.Simple construction and easy maintenance. Compatible with ISO standards.Suitable for high-pressure applications. Note: The HY10–HY340 series Pump is of axial piston type with hydrostatic trunnion bearing, fineless flatness of compact size, high output efficiency, long life, simple construction and easy maintenance. This Hydraulic Pump model is designed to operate up to 400 bar and speeds up to 1500 rpm. Compatible sizes: 10, 16, 22, 28, 45, 71, 100, 125, 160, 250, and 320 ml/r.

Size: 12, 28, 55, 107

AVANYA
HYDRAULICS

AXIAL PISTON MOTORS

A2FM Fixed displacement Bent Axis Piston Motor

Pressure: 400 bar

Features: Fixed displacement motor A2FM of axial piston, bent axis design suitable for hydrostatic drives in open and closed circuits, use in mobile and industrial applications, output speed is proportional to input flow and inversely proportional to displacement, drive torque increases with the pressure drop across the unit, careful selection of the displacement offered, permit sizes to be matched to practically every application.

Size: 16…180

A2FE Fixed-displacement plug-in motor A2FE

Note: It is mainly installed in the mechanical gearbox, e.g. track drive gearbox.

Features: The design of the motor with the mounting flange in the center of the housing allows it to be almost fully integrated into a mechanical gearbox to give an extremely compact unit. You can just plug the motor into the gearbox without considering the tolerance.

Size: 55, 80, 107, 125, 160

A6V Variable displacement motor A6V

Note: Variable displacement motor A6V is designed for hydrostatic drive. The displacement of infinitely variable in the range Vmax/Vmin = 3.47

Special Features: Wide control range for hydrostatic drives. Various control regulating devices. Cost saving through elimination of gearbox and possibility of using smaller pumps. Compact, low unit power. Good starting characteristics. Low inertia.

Size: 28, 55, 80, 107, 160, 225, 500

A6VEVariable displacement plug-in motor A6VE

Note: It is mainly installed in the mechanical gearbox, e.g. track drive gearbox

Features: The design of the motor with the mounting flange in the center of the housing allows it to be almost fully integrated into a mechanical gearbox to give an extremely compact unit. You can just plug the motor into the gearbox without considering the tolerance..

Size: 55, 80, 107, 160

A6VM Variable Axial Piston Motor

Flow: 380, 496 L/min
Max. pressure: 400 Bar

Features: Wide control range with hydrostatic transmissions Wide selection of control devices Small swing torque High power density Good starting characteristics Cost savings through elimination of gear shifts and possibility of using smaller pumps Compact, robust motor with long service life For use in mobile applications

AVANYA
HYDRAULICS

SAI PISTON MOTORS

BV SERIES

L SERIES

TF SERIES

TV SERIES

AVANYA
HYDRAULICS

ORBITAL MOTORS & PISTION PUMPS

CHAR-LYNN MOTOR

ETON VANE PUMP

OPEN CIRCUIT PISTON PUMP

620 SERIES

VANE PUMPS

AVANYA
HYDRAULICS

VDN Variable Volume Vane Pump

Size: 8, 16 cm³/rev
Max. Pressure: 80Bar

Features:
Energy efficient high performance
Lightweight, compact design, Low noise, long life, High volumetric efficiency and low leakage will cause less heat generation and improves the accuracy.
Space saving.

Size: 71, 90

HVP Medium pressure Variable Vane pump

Flow: 16.7, 22.2 cc/rev.
Max. pressure: 140 Bar
Min. speed: 800 r/min
Max. speed: 1800 r/min

Features:
Low noise: it adopts anti-vibration and sound-proof mechanism, and it can effectively eliminate the vibration under high pressure by controlling the special three-point support of the piston and the offset piston, and the operation is quiet;
High sensitivity: pilot-type oil control mode, the flow quickly follows the change of working conditions;
High pressure: using high-quality materials and special pressure control mechanism and forced balance mechanism, the pressure can be effectively and smoothly operated under 140bar.

PV2R1,2,3Fixed Vane Pump

Nom Pressure: 200 bar
Max pressure: 250 bar

Features:
Patented 2 Pcs housing design, lower leakage, high efficiency.
Big displacement up to 200cc/r, high pressure design.45mm parallel shaft specially designed for general applications (splined shaft also available on demand).
High strength gear material for long life.

PV2R5Fixed Vane Pump (Large Flow)

Max pressure: 120 bar

Features:PV2R5-Series are high performance vane pump with long life for medium pressure application.
High volumetric efficiency upto 92% @120barMaximum operating pressure up to 120barTwelve Vane Design for quite operation Versatile, rugged and optimized design
Compact, Four flow option Cartridge design

Sizes: 230, 272, 320, 348 cc/rev

SVPF...8/12/15/20/30/40/50 Variable Vane pump

Direct Operated Displacement: 4.4 cc to 28 cc
Max pressure: 70bar

Features:
Good efficiency operation with minimum pressure loss, very low noise during operation, compact and simple design, space saving sturdy structure for high efficiency and long service life, adjustable displacement volumes, highly preferred for CNC and special purpose machines.

VANE PUMPS

AVANYA
HYDRAULICS

V SERIES High Performance Intravane pumps for Industrial applica ons

VARIABLE DISPLACEMENT

VP5F SERIES

PVDF SERIES

AVANYA
HYDRAULICS

HIGH PRESSURE GEAR PUMPS

CBB

The CB-B gear pump is a power component in a hydraulic system. The pump uses high-precision gears, high-strength cast iron shells and other structures. The mechanical energy transmitted by the motor is converted into a hydraulic energy conversion device by intermeshing gears. In the hydraulic system to provide a fixed hydraulic energy. The pump has the advantages of simple structure, reliable operation, convenient maintenance, good adaptability to impact load, widely used in the hydraulic system of the machine tool, and can be used in hydraulic systems of other machines.

CBKP

Single, Double & Triple Gear Pump with roller bearings

CBKP1Size: 32cc to 100ccMax Pressure: 250 Bar

CBKP2

First pump: 40cc to 100cc
Second pump: 32cc to 100cc
Max Pressure: 250 Bar

CBKP3

First pump: 50cc to 100cc
Second pump: 32cc to 100cc
Third pump: 32cc to 100cc Max
Pressure: 250 Bar

PRESSURE VALVES

AVANYA HYDRAULICS

AH-DBD

Pressurereliefvalve, direct operated, Type DBD

3 pressure adjustment element, optional
3 mounting types: cartridge connection, threaded connection, sub plate mounting

Size 6, 8, 10, 15, 20, 25, 30 Type - DBD Working pressure bar 400, 630, 315 Flow L/min 50, 120, 120, 250, 350

AH-DBT/DBWT

Pressure remote relief valve, Type AH-DBT/DBWT

Remote control in long distance 3 pressure adjustment elements, optional
Mounting type: sub-plate mounting

Type AH-DBT/DBWT Max. operating pressure bar 315 Max. Flow L/min 3

AH-DZ...DP

Direct operated sequence valve type AH-DZ.....DP

3 or 4 pressure adjustment element, optional 5 pressure ranges (in bar)25,75,150,210,315 check valve optional
For sub-plate mounting

Size 5, 6, 10 Type AH-DZ....DP Max operating 315, 210 pressure bar
Flow L/min 30 60 80

AH-DZ

Pilot operated pressure sequence valve, type AH-DZ

4 pressure adjustment elements, optional 4 pressure ranges (in bar): 50, 100, 200, 315 Check valve optional
For sub-plate mounting

Size 10, 20, 30 Type AH-DZ
Max operating 315 pressure bar Max flow l/min 200, 400, 600

AH-DA/DAW

Pilotoperatedshut-offvalve, Type DA/DAW

Solenoid actuated unloading via a built on directional valve type DAW10% version, 17% version
4 pressure adjustment element optional
4 pressure ranges (in bar) 50, 100, 200, 315
For sub plate mounting

Size 10 20 30Type AH-DA/DAW Max. operating pressure bar 315 Version 10% 40, 80, 120 Version 17% 6, 120, 240

PRESSURE VALVES

AVANYA HYDRAULICS

AH-DB....50/.....

Pilotoperatedpressurereliefvalve, Type AH-DB....50/....

5 pressure ranges: 50, 100, 200, 315, 350
3 pressure adjustment element, optional

3 mounting types: sub-plate mounting threaded mounting, manifold mounting Size 10, 15, 20, 25, 30 Type AH-DB....50/....Max. operating 350 pressure bar Max flow L/min 250, 500, 650

AH-DB....K

Pilotoperatedpressure relief valve, cartridge connection type AH-DB....K

4 pressure ranges (in bar): 50, 100, 200, 315
4 pressure adjustment elements, optional
mounting type: cartridge connection

Size 6 10 20 Type AH-DB....K Max operating 315 pressure bar Max Flow L/min 50 120 250

AH-DBW....50/....

Pilotoperatedpressurereliefvalve, Type AH-DBW....50/....

Solenoid operated unloading via a built on directional spool valve
5 pressure ranges (in bar) 50, 100, 200, 315, 350
3 pressure adjustment elements, optional
3 mounting types: sub-plate mounting, threaded connection, manifold mounting

Size 10, 15, 20, 25, 30 Type AH-DBWMax operating 350 pressure bar Max flow L/min 250, 500, 650

AH-DB3U10-30...30/...

Pilot operatedpressurereliefvalve,withtwo or three pressure rating Type AH-DB3U10-30...30/...

Solenoid operated control via mounted directional valve
2 pressure ranges (in bar) 100, 315bar
3 pressure adjustment elements, optional
3 mounting type: sub-plate mounting, threaded connection, manifold mounting

Size 10, 15, 20, 25, 30 Type AH-DW3U Max operating 315 pressure bar max flow L/min 200, 400, 600

AH-DR....DP

Directoperatedpressure reducing valve type AH-DR.....DP

Direct operated pressure reduction in 3 ports
3 or 4 pressure adjustment elements, optional
5 pressure ranges (in bar): 25, 75, 150, 210, 315
Mounting type: sub plate mounting

Size 5 6 10 Type AH-DR....DP Max operating 315 pressure bar Max flow L/min 15 60 80

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HYDRAULICS

PRESSURE VALVES

AH-DR

Pilotoperatedpressure reducing valve, Type DR (50 series)

Pilot operated pressure reducing valve
4 pressure adjustment elements, optional
4pressure ranges (in bar): 50, 100, 200, 315
Check valve optional
2 mounting type: sub-plate mounting threaded connection

Size 10 15 20 25 Type AH-DR
Max. Operating 315 pressure bar Max Flow L/min 150, 300, 400

RT/RG/RCT/RCG

PressureReducingValves/Pressure Reducing and Check Valves

Sizes: 03, 06, 10 Max pressure: 210 bar
Max. flow: 50, 125, 250 l/min

Pressure reducing valves are used to set the pressure of a hydraulic circuit below that of the main circuit. In addition, operation under remote control is possible by using the remote control port. Pressure reducing and check valves have check valves, which allow a free flow from the secondary side to the primary.

FLOW CONTROL VALVE

AH-2FRM

2-wayflowcontrolvalve, Type AH-2FRM

For maintaining a continuous set flow, independent of pressure and temperature
Lock able key optional
External closing of the pressure compensator optional.
Check valve optional
A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions.
For sub plate mounting.

Size 5, 6, 10, 16 Type AH-2FRM 315 Max operating 210 Pressure bar Flow L/min Max 15, 25, 50, 160

AH-2FRM6....31/

2-Way flow control valve, type AH-2FRM6.....31/

For maintaining a continuous set flow, independent of pressure and temperature Lockable, Key optional External closing of the pressure compensator optional. Check valve optional A rectifier sandwich plate type Z4S should be fitted below to control a flow through the valve in both directions. For sub plate mounting Size 6 Type - 6 AH-2FRM-...31/ Max operating 315 Pressure bar Flow L/min Max 32

AVANYA
HYDRAULICS

PUMPS FOR SERVO SOLUTIONS

IGP05 Series

For Servo applications
High pressure internal gear pump
Sizes: 3.5, 4, 5, 6.3
Flow: 3.6, 4, 5.3, 6.5 ml/r
Max. Pressure: 315 bar

HYTEK, REXROTH,VOITH.. SERVO PUMP

IGP 1,2,3 & DIGP High pressure Internal Gear Pump

LargeSuction & Delivery Ports

Available Size: 8, 10, 13, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160
cc/rev: IGP(1)8....20 IGP(2)25....63I GP(3)80....160
DIGP(11)8....20
DIGP(21)22) 25....63
DIGP(32)(33)80....160

Features:Lowpulsation of oilflow, fixed displacement, Low operating noise, due to sealing gap compensation high efficiency at low speed and viscosity, wide speed ranges can operate up to 3000r/min peak pressure up to 350 bar option for double pump. Double pumps are also available in different combination of sizes.

CHECK VALVES

AH-Z2S

CheckValve,Hydraulically pilot operated type -Z2S

For leakage-free closure of one or two actuator parts, sandwich plate valve for use in vertical stacking assemblies

Size: 6, 10, 16, 22 Max operating pressure bar: 315 Flow L/min Max: 60, 120, 300, 450 Type: AH-Z2S

AH-RVP

Check valve type -RVP Preferably closing a flow leak-free in one direction and to permit free flow in the opposite direction Mounting type: sub-plate

Size: 6, 8, 10, 12, 16, 20, 25, 30, 40 Type: AH-RVP Max operating pressure bar: 315

Flow L/min Max: 40, 70, 110, 160, 240, 440, 600

MCP/MCT

Check Modular valves

Size: 01
Max Pressure: 315 Bar
Max Flow: 35 l/min

CRT/CRG

RightAngleCheck Valves

Sizes: 03, 06, 10 Max working pressure: 250 bar Max Flow: 250 l/min

CPDT/CPDG/CPDF

Pilot Operated Check valve

Sizes:
CPDT: 04, 06, 10
CPDG: 03, 06, 10
CPDF: 10, 16

Rated Flow: 50, 125, 315, 500 l/min
Max. pressure: 250 kgf/cm²

AH-SV/SL

Hydraulicallypilotoperated check valve, Type AH-SV/SL, Series 40

With or without leakage port With or without pre-opening
4 opening pressures
2 mounting types: Sub-plate mounting, Threaded connection

Size: 10, 20, 30Type: AH-SV/SL Max operating pressure (bar): 315 Max Flow (L/min): 150, 350, 550

ORBITAL MOTORS

AVANYA
HYDRAULICS

BMM (OMM)

Displacement (cc/rev): 8, 12.5, 20, 32, 40, 50
Maximum pressure drop continuous: 100 bar
Maximum flow continuous: 20 l/minMaximum
Torque continuous up to 46 Nm

BMP (OMP)

Displacement: 50, 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuous: 125 bar
Maximum flow continuous: 60 lpm
Maximum Torque continuous up to 334 Nm

BMR (OMR)

Displacement (cc/rev): 36, 50, 80, 100, 125, 160, 200, 250, 315, 375
Maximum pressure drop continuous: 175 bar
Maximum flow continuous: 20 l/min
Maximum Torque continuous up to 46 Nm

BMSY (OMS/BM3Y)

Displacement: 80, 100, 125, 160, 200, 250, 315, 400
Maximum Pressure drop continuous: 225 bar
Maximum flow continuous: 75 lpm
Maximum Torque continuous up to 560 Nm

BMT (OMT/BM4U)

Displacement: 160, 200, 250, 320, 400, 500 Pressure Drop continuous: 200 bar Flow continuous: 100 lpm
Max. Torque continuous up to 1121 Nm

BMV (OMV/BM5U)

Displacement: 315, 400, 500, 630, 800, 985
Maximum pressure drop continuous: 200 bar
Maximum flow up to: 150 lpm
Maximum torque continuous: 1900 Nm

SPARES & SEAL KITS

AVANYA HYDRAULICS

Rotary group and spares for A2F

Rotary group and spares for A2FO

Rotary cartridge for Vane Pumps T6C/D/E and 20V/25V/30V/35V

Rotary group and spares for A10VO/VSO

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Contact With Us :

+91 8979727804

www.avanyahydraulics.com

Avanyahydraulics@gmail.com

Shop No.2 Plot No. A2 Portion of A3 Gali No. 34A, Fakkar Baba Road, near baba Haridas Chowk Vipin Garden Extension, uttam Nagar, New Delhi 110059