

AMCA Hydraulic Fluid Power BV

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Integral Multi-Way Valve for Engineering Machines Type APV-22 (A)

Diameter 32mm

25MPa(Max Pressure)

up to 365L/min((Max Flow)

1. Technical Characteristics

With double manifold integral multi-way valves as its primary valve block, able to be combined with an auxiliary manifold into a triple manifold multi-way valve;

- Tandem circuit;
- Good fine control due to the extensive use of fine control grooves;
- With progressive flow control, broadening its fine control range;
- With proportional pressure relief pilot control, reducing directional valve operation forces;
- Spool return via a spring, can be controlled

by the pilot valve

Low internal leakage because of small clearance between control spool and housing;

- APV-22 (A)



Convenient in pipeline arrangement, Type APV-22 (A) Double Multi-Way Valve reducing system pressure losses;

- Good in adaptability and easy in maintenance due to the cartridge structured built-in main relief valve, override valve, oil compensation valve and check valve;
- Easily achieving four-position floating based on three-position main valve, dramatically simplifying the structure of traditional four-position main valve;
- Able to turn three-position main valve into four-position main valve by changing its spool structure.

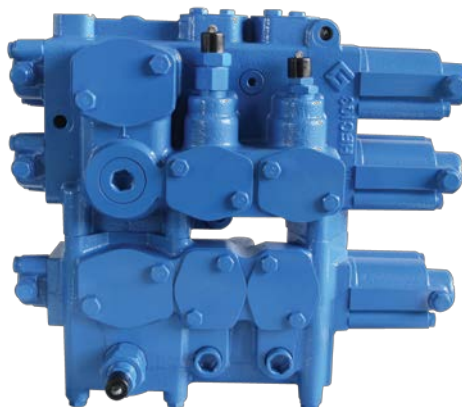
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2. Application Areas

- Loaders
- Bulldozers
- Farming machines
- Material handling
- Trash compactors
- Forestry machines
- Container cranes



Type APV-22 (A1)
Triple-Manifold Multi-Way Valve

3. Technical Data

Nominal Pressure	MPa	20
Max. Pressure	MPa	25
Nominal Flow	L /min	250
Max. Flow	L /min	365
Max. Control Pressure at Port MPa		5 (Recommended pressure control curve ranging from 0.3 to 2.5 MPa)
Pressure Fluid		Mineral oil (HL, HLP) to DIN 51 524
Fluid Temperature Range	°C	-20~80
Viscosity Range	mm ² /s	10~380
Fluid Cleanliness		No less than GB/T 14039-93 class 19/16 or NAS 1638 class 10.
Weight	Kg	62 (APV-22 (A) Double Multi-Way Valve) 95 (APV-22 (A1)) Triple Multi-Way Valve