REIVAX

VDX 2500

Valve Distributor

USAGE

The valve distributor REIVAX VDX2500 is a proportional directional control valve designed for hydraulic systems with pressures up to 100 bar.

Being a multiplier element of flow, it is used in large-scale systems with flow up to 2500 l / min (Δp_{total} = 10 bar).

It is a proportional directional 4-way valve, hydraulically manipulated, where embedded inside the case are the safety valves (electric, hydraulic and manual drives), the proportional control valve and the position transducing device, providing a compact and high security construction.

Due to internal geometrical characteristics, it enables a precise and smooth control of the spool position, and contribute to increasing time of flashing pump the hydraulic unit due to low internal leakage.

BENEFITS

- Triple operating safety: emergency, start-stop, overspeed;

- Flow regulating through external adjustment screws;

- Compact design, space-saving;

- Low positive overlay (0.1mm/hole);

- low internal leakage (0,35 l/min);

- Position feedback made by contactless magnetic transducer;

- All of the used devices in control are commercially available.

GENERAL CHARACTERISTICS

- Recommended Oil: ISO VG32 to ISO VG68.

- Working pressure range: 10 to 100 bar.

- Operating temperature. : 10 to 60°C

- Steering system differential pressure.

- Valve returns to the retracted position by the triggering of any of the safety valves.

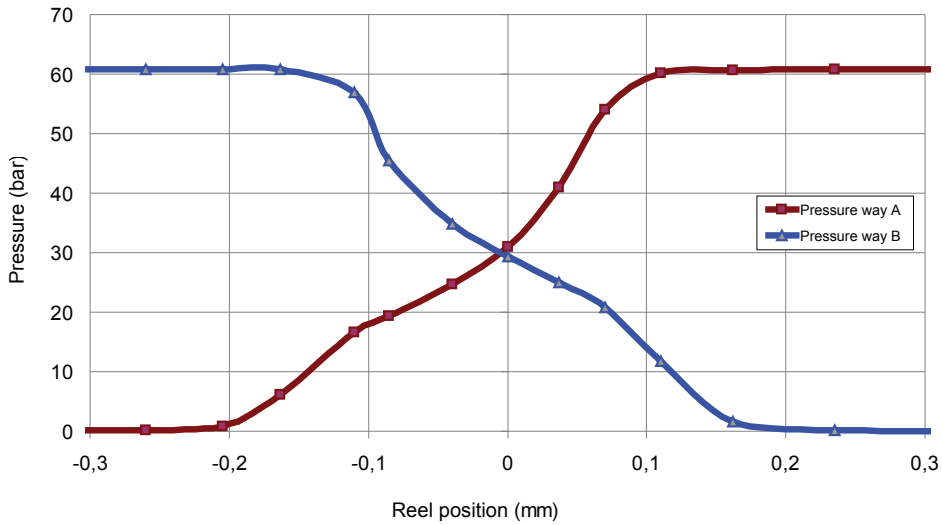
-The proportional valve control signals and the position feedback transducer is 4 to 20 mA.

HYDROSTATIC TEST

Tests are performed according to IEC 60308 and ISO 10770-1 standards to evaluate the hydraulic and geometric characteristics of the distributor valve. Thus, highlights the constructive health component of providing customer safety with respect to valve operational efficiency.

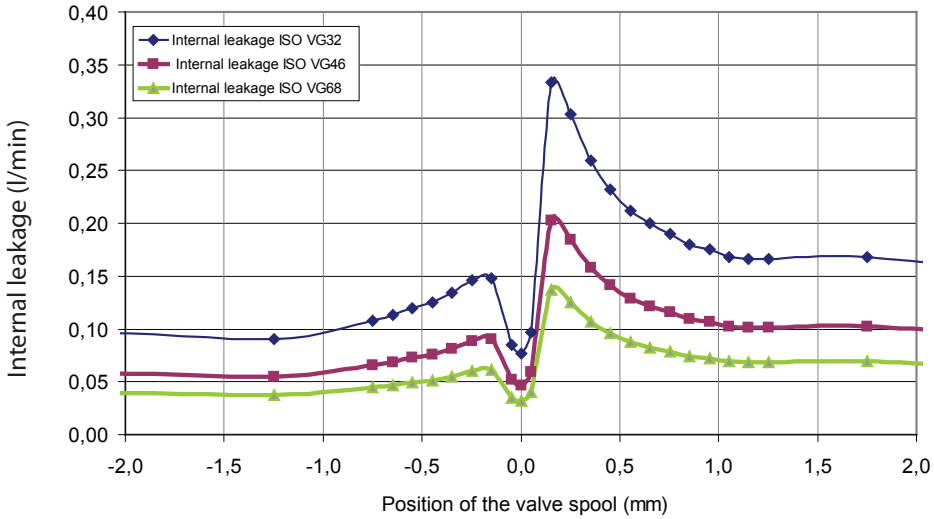
PRESSURE GAIN TEST

Behavior of the pressure in the valve control region is evaluated where, blocked the work of roads, the supply pressure is applied and moves the spool valve along the overlap region of the valve acquiring experimental data unobtrusively.

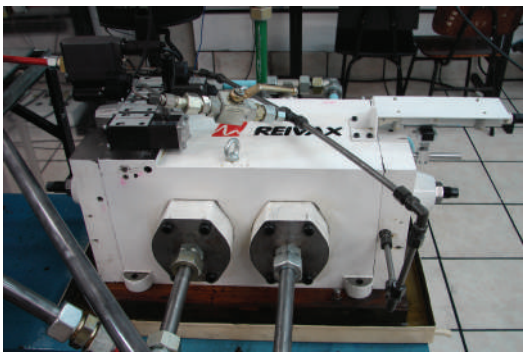


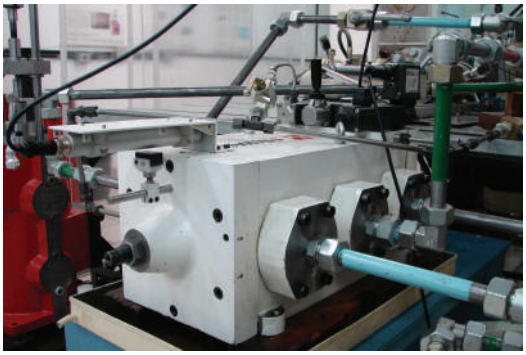
INTERNAL LEAKAGE TEST

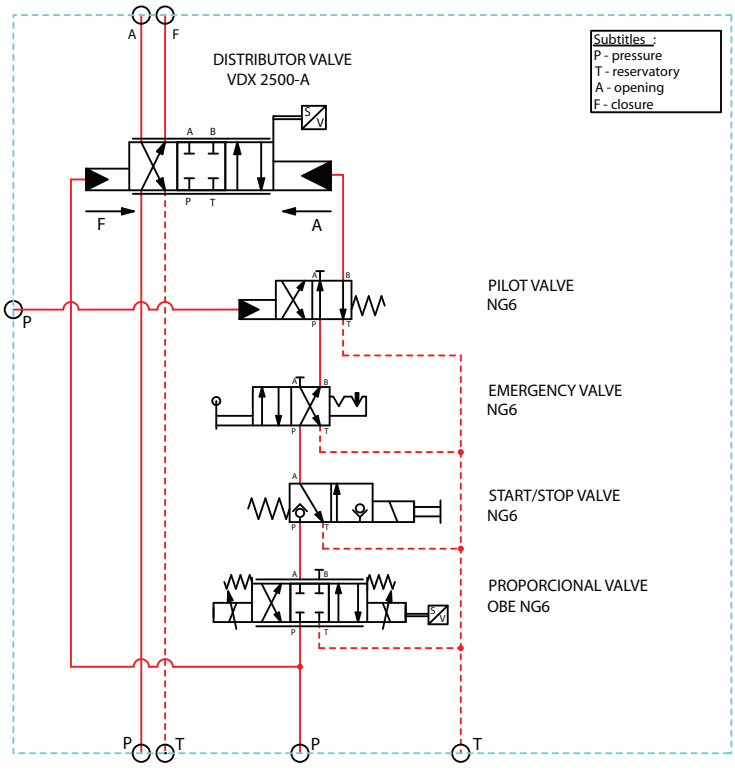
The pressure gain test and valve internal leak test are made at the same time. This procedure allows to evaluate the magnitude of the leakage over the course of the dispensing valve and determine the maximum value is located in the central region.



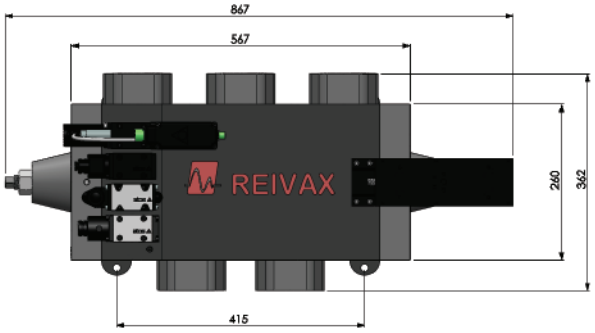
LABORATORY TEST

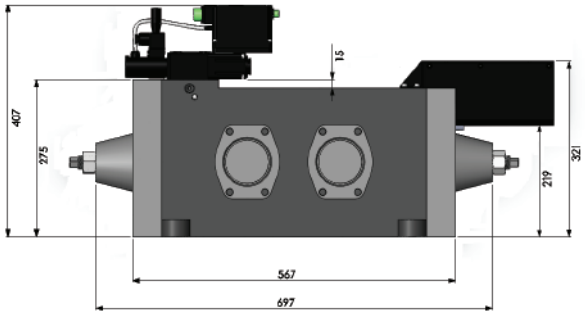






BASIC DIMENSIONS





MODEL CODE

VDX 2500 - A / VP1 - VC1 - VC2 - VC3 - TP / 30

Nominal Flow (Δp_{total} = 10bar)

2500 l/min

Version

A

Proporcional Valve

VP1 – proporcional valve with OBE

Start/Stop Valve

VC1 – Valve with electric drive

Emergency Valve

VC2 – valve with manual latching

Overspeed Valve

VC3 – valve with hydraulic command

Position Transducer

TP – linear transducer position without direct contact

Flange SAE (to weld)

30 – 3.0 in (76,2 mm)

PRODUCT DIMENSIONS AND WEIGHT (PACKAGED)

Dimensions (A x L x P) = 500 x 1000 x 800 (mm)
weight = 170 kg
gross weight = 190 kg

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