

XDP.5.A... / XDP.5.C ..

## Proportional directional valves open loop

The open loop valves of series XDP control the direction and the volume of the flow according to the feeding current to the proportional solenoid.

Each $\Delta \mathrm{p}$ variation on the valve leads to the variation of the capacity which has been set, anyway the valve guarantees an high inner compensation grade and limits the adjustment capacity.

Performances shown in this catalogue are guaranteed only using 2 or 3 way modular assembly hydrostats type AM.3.H. ... (see note below in ordering code).

Q5 variant - This variant that consists of a solenoid chamber drainage separated from the T line and obtained on CETOP RO5 interface allows operation with up to 320 bar max. back pressure on the T line. To ensure maximum solenoid valve mounting safety and supplementary drainage, only 12.9 material fixing screws must be used with it.


XDP.5.C.01.N...


XDP.5.C.03.N...


XDP.5.A.01.N...


XDP.5.A.03.N.

## Ordering code



Open loop proportional directional valve

CETOP 5/NG10
A $=$ Single solenoid
C = Double solenoid
Type of spool (null position)
01 = $\square$ $\mathbf{0 3}=\begin{aligned} & \square \\ & \square\end{aligned}$
Symmetrical flow path control (see hydraulic symbols table)

Flow rating (*) $\Delta \mathrm{p} 10$ bar
$2=45 \mathrm{l} / \mathrm{min}$
$3=60 \mathrm{l} / \mathrm{min}$
$5=100 \mathrm{I} / \mathrm{min}$


Max. current to solenoid
F $=2.5 \mathrm{~A}$
$\mathrm{G}=1.25 \mathrm{~A}$

$00=$ No variant
P1 = Rotary emergency
V1 = Viton
Q5 = External drainage
Serial No.

[^0]
## Operating specifications

| Max. operating pressure ports P/A/B |  | 320 bar |
| :---: | :---: | :---: |
| Max. pressure port T - for dynamic pressure see note (*) |  | 250 bar |
| Max. pressure port T (with external drainage - Q5 variant) |  | 320 bar |
| Nominal flow | 45 / | / $100 \mathrm{l} / \mathrm{min}$ |
| Duty cycle | Continu | s 100\% ED |
| Type of protection (depending on the connector used) |  | IP 65 |
| Flow rate gain |  | e diagram |
| Power limits curves transmitted |  | ee diagram |
| Fluid viscosity |  | $500 \mathrm{~mm}^{2} / \mathrm{s}$ |
| Fluid temperature |  | $0^{\circ} \mathrm{C} \div 75^{\circ} \mathrm{C}$ |
| Ambient temperature |  | $0^{\circ} \mathrm{C} \div 70^{\circ} \mathrm{C}$ |
| Max. contamination level from class 7 at 9 in accordance | AS 1638 w | filter $\beta_{10} \geq 75$ |
| Weight XDP.5.A... (single solenoid) |  | $4,97 \mathrm{Kg}$ |
| Weight XDP.5.C... (double solenoid) |  | 6,55 Kg |
| Max. current | 2.5 A | 1.25 A |
| Solenoid coil resistance $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ | 2.85 Ohm | 11.4 Ohm |
| Hysteresis P/A/B/T |  |  |
| with a pressure compensator AM.5.H.3V... | < $5 \%$ | <8\% |
| Response to step $\Delta p=10 \mathrm{bar}(\mathrm{P} / \mathrm{A})$ |  |  |
| $0 \div 100 \%$ | 56 ms | 118 ms |
| 100\% $\div 0$ | 32 ms | 32 ms |
| Frequency response -3db (Input signal 50\% $\pm 25 \%$ Vmax) |  |  |
|  | 10Hz | 7Hz |
| (*) Pressure dynamic allowed for 2 millions of cycles |  |  |
| Operating specifications are valid for fluids with $46 \mathrm{~mm}^{2} / \mathrm{s}$ viscosity at $40^{\circ} \mathrm{C}$, using the specified ARON electronic control units. Performance data carried out using the specified Aron power amplifier type REM.S.RA... power supplied at 24V. |  |  |

## Amplifier unit and control

REM.S.RA.**. and REM.D.RA.*.*.
Electronic card control single and double proportional solenoid valve.

## AM.5.H.2V.P1 / AM.5.H.3V.P1( $\Delta \mathrm{p}=10 \mathrm{bar})$

Hydrostats 2 or 3 way.



## "D19P" <br> Proportional solenoids

| Type of protection (in relation to connector used) | IP 65 |  |  |
| :--- | ---: | :---: | :---: |
| Ambient temperature | $-54^{\circ} \mathrm{C} \div 60^{\circ} \mathrm{C}$ |  |  |
| Duty cycle | $100 \% \mathrm{ED}$ |  |  |
| Insulation class | H |  |  |
| Weight | $1,58 \mathrm{Kg}$ |  |  |
| ETD19P $-01 / 2002 / e$ |  |  |  |


[^0]:    (*) Guaranteed with 24Volt, 2.5Amps supply.

