HD 4180™®

Hydraulic Valve

The HD 4180, an all-in-one hydraulic motor and proportional valve assembly.

The DICKEY-john HD 4180 is a combination hydraulic motor and proportional hydraulic valve used in conjunction with a ground speed control system. Use the HD 4180 on planters and air seeders to rotate the seeding shafts instead of using ground-driven gear boxes.

Utilizing hydraulic and ground speed systems allow for manual or variable rate adjustments to the seeding population per acre while moving through the field. There is no need to change sprocket ratios or gear box settings to adjust population. Simply set the desired application rate with the ground speed control system which will automatically adjust the hydraulic flow to the HD4180 motor.

Features and Benefits:

- 0-4 gpm hydraulic flow delivers 4-180 rpm at 1,400 inch pounds of torque

- Eliminates ground drive system to rotate seeding shafts

- Install up to four HD4180 units in series to control multiple planter sections or fertilizer application

- Interface with a ground speed control system for variable rate control of planter and fertilizer application in the field

- Manual override of hydraulic flow in the event of electrical failure

DICKEY-john®
A DIVISION OF TSI®

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Specifications

GENERAL

RPM Operating Range	4 to 180 RPM
Hydraulic Oil Usage	4.9 in 3/rev (80 cc/rev)
Max Hydraulic Oil Usage	4 gpm (15 LPM)
Maximum Torque	1400 inch pounds (160 Nm)
Overall Size	10.2 x 5.0 x 6.3 in (260 x 127 x 160 mm)
Weight	19.8 lbs (9.0 Kg)

ELECTRICAL

Control Signal	12 Volts plus width modulated
Control Frequency	110 Hz
Maximum Current	1.5 Amps

HYDRAULIC CONNECTIONS

Tractor Hydraulics	Closed Center or Open Center
HydraDrive Hydraulics	Pressure port 1/2" SAE (7/8 UNO)
	Return port 1/2" SAE (7/8 UNO)

Backed by the power of DICKEY-john:

When you buy a HD 4180 Hyudraulic Valve, you get all the dependability and value you expect from DICKEY-john products. DICKEY-john's advanced technology and superior electronics are backed by a team of expert, in-house mechanical, electrical, software, and test engineers.