

Multi-Disc Clutches

Series 66H-02



Features

- Clutch does not require adjustment
- Torques can be varied by regulating supply pressure
- Bearing-free design eliminates bearing life considerations
- Speed of engagement can be controlled by varying pressure supply flow rate
- Individual plate separation ensures low drag torque
- Large friction area gives extended plate life
- Multi-disc design results in compact high torque clutch
- No axial thrust transmitted to adjacent components

Series 66H-02 Pressure Applied Multi-Disc Clutches

Rotating Cylinder for Operation in Oil

Series 66H-02 pressure-applied rotating cylinder multi-disc clutches are designed for use in oil. The pressure supply is fed axially along the mounting shaft and radially outwards through the clutch hub into the cylinder. Positive disengagement is achieved by the use of release springs between the inner plates.

Standard drive rings available as optional extras.

Typical Applications

- Marine Splitter Gearboxes
- Tractor PTO's
- Marine Main Drives and PTO's
- Machine Tools
- Available in double acting version for 2-speed gear-boxes

Multi-Disc Clutches

Series 66H-02

MODEL		66H45-02	66H80-02	66H140-02	
Performance Data					
Rated Static Torque	Nm	at 34.5 bar	1630	9400	43350
	ft-lbs	at 500 psi	1200	6930	31960
Rated Dynamic Torque	Nm	at 34.5 bar	1085	6260	28900
	ft-lbs	at 500 psi	800	4615	21310
Pressure to Overcome Release Springs		bar	2.8	2.67	3.0
		psi	41	39	43
Drag Torque		Nm	1.2	5.6	20.3
		ft-lbs	0.9	4.13	15.0
Maximum Speed		revs/min	3900	2500	1800
Inertia (kgm²) = Table Value x 10⁻³					
Clutch Less Drive Ring and Outer Plates			7.4	135	1680
Set of Outer Plates			1.43	14	240
Drive Ring			3.0	105	1170
Weight (kg)					
Clutch Less Drive Ring			4.5	26.8	100
Drive Ring			1.0	7.8	42
Dimensional Data (all dimensions in mm)					
Standard Bores (H7)					
Keyways to I.S.O. 773					
B.S. 4235:1972 Pt. 1					
			45	80	150
			14 x 3.8	22 x 5.4	36 x 8.4
D.I.N. 6885:1968 Pt. 1; NFE22-175					
(For bores other than specified please consult our Engineering Department)					
Diameters (all dimensions in mm)					
A			125	220	355
Diameter of Feed Holes		to cylinder	6.4	10.0	10.0
		to plates	6.4	8.0	10.0
Lengths					
L			59	110	181
M Maximum Engaged			25.2	40.7	83.8
N			31.3	62	98
P			9.5	25	36.5
Q			10.1	20	33
R			40.0	75	127
Drive Ring					
B			146	245	420
C			117.7	207.7	359.3
D (H7)			74	130	220
T			11	17	27
V			44	79	136
Number of Teeth			48	67	122
D.P.			10/12	8/10	3 Module
P.A.			20°	20°	20°
P.C.D.			121.92	212.72	366

• More models available

