

# FLUID POWER DATA

## HYDRAULIC MOTOR DATA



RPM	HORSEPOWER											
	2	4	6	8	10	20	30	40	50	60	70	80
2	63,025	126,050	189,075	252,100	315,125	630,250	945,375	1,260,500	1,575,625	1,890,750	2,205,875	2,521,000
4	31,513	63,025	94,538	126,050	157,563	315,125	472,688	630,250	787,813	945,375	1,102,938	1,260,500
6	21,008	42,017	63,025	84,033	105,042	210,083	315,125	420,167	525,208	630,250	735,292	840,333
8	15,756	31,513	47,269	63,025	78,781	157,563	236,344	315,125	393,906	472,688	551,469	630,250
10	12,605	25,210	37,815	50,420	63,025	126,050	189,075	252,100	315,125	378,150	441,175	504,200
20	6,303	12,605	18,908	25,210	31,513	63,025	94,538	126,050	157,563	189,075	220,588	252,100
30	4,202	8,403	12,605	16,807	21,008	42,017	63,025	84,033	105,042	126,050	147,058	168,067
40	3,151	6,303	9,454	12,605	15,756	31,513	47,269	63,025	78,781	94,538	110,294	126,050
50	2,521	5,042	7,563	10,084	12,605	25,210	37,815	50,420	63,025	75,630	88,235	100,840
60	2,101	4,202	6,303	8,403	10,504	21,008	31,513	42,017	52,521	63,025	73,529	84,033
70	1,801	3,601	5,402	7,203	9,004	18,007	27,011	36,014	45,018	54,021	63,025	72,029
80	1,576	3,151	4,727	6,303	7,878	15,756	23,634	31,513	39,391	47,269	55,147	63,025
90	1,401	2,801	4,202	5,602	7,003	14,006	21,008	28,011	35,014	42,017	49,019	56,022
100	1,261	2,521	3,782	5,042	6,303	12,605	18,908	25,210	31,513	37,815	44,118	50,420
200	630	1,261	1,891	2,521	3,151	6,303	9,454	12,605	15,756	18,908	22,059	25,210
300	420	840	1,261	1,681	2,101	4,202	6,302	8,403	10,504	12,605	14,706	16,807
400	315	630	945	1,261	1,576	3,151	4,727	6,303	7,878	9,454	11,029	12,605
500	252	504	756	1,008	1,261	2,521	3,782	5,042	6,303	7,563	8,824	10,084
600	210	420	630	840	1,050	2,101	3,151	4,202	5,252	6,303	7,353	8,403
700	180	360	540	720	900	1,801	2,701	3,601	4,502	5,402	6,303	7,203
800	158	315	473	630	788	1,576	2,363	3,151	3,939	4,727	5,515	6,303
900	140	280	420	560	700	1,401	2,101	2,801	3,501	4,202	4,902	5,602
1000	126	252	378	504	630	1,261	1,891	2,521	3,151	3,782	4,412	5,042
2000	63	126	189	252	315	630	945	1,261	1,576	1,891	2,206	2,521

### TORQUE, IN. LBS

T = 0.159 PD

T = TORQUE, IN LBS

P = PRESSURE, PSI

D = DISPLACEMENT, CU.IN/REV.

HP OUTPUT FOR HYDRAULIC MOTOR

$TR(U)$

HP = 63025

T = TORQUE, IN. LBS

R = RPM

U = EFFICIENCY

### HYDRAULIC MOTOR SPECIFICATIONS

RS SERIES/ CU-IN	03	04	05	06	07	08	10	12	14	16	18	20	24	26	32	45
ACTUAL CU-IN/ REV	3.2	4.6	5.4	6.8		7.7	10.0	12.5	15.5		17.9		24.9			
MAX. PRESS. (PSI)	1750	1750	1750	1750		1500	1500	1500	1250		1000		1000			
MAX. TORQUE (IN-LBS)	730	1070	1300	1630		1600	1970	2640	2540		2460		3350			
MAX. SPEED (RPM)	400	460	420	460		410	370	300	300		300		190			
MAX. FLOW (GPM)	6	10	10	14		14	16	16	20		20		20			
RE & CE SERIES/ CU-IN						07	10	12	14	16	18	20	24	26	32	45
ACTUAL CU-IN/ REV						7.4	9.9	12.4	14.2	15.9	18.3	21.2	22.8	28.3	32.7	45.6
MAX. PRESS. (PSI)						3000	3000	3000	3000	3000	3000	3000	3000	2500	2000	1500
MAX. TORQUE (IN-LBS)						2900	4200	4800	5700	6300	7300	8150	8900	9650	8700	9400
MAX. SPEED (RPM)						360	370	300	260	260	250	220	200	160	140	100
MAX. FLOW (GPM)						12	16	18	18	20	22	22	20	20	20	20
HB SERIES/ CU-IN	03	04	05	06			08	10	12	14	18	24				
ACTUAL CU-IN/ REV	3.2	4.6	5.4	6.8			7.7	10.0	12.5	15.5	17.9	24.9				
MAX. PRESS. (PSI)	3000	3000	3000	3000			3000	3000	3000	3000	3000	2500				
MAX. TORQUE (IN-LBS)	1200	1700	2000	2650			3000	3975	5050	6250	7200	8400				
MAX. SPEED (RPM)	680	670	680	680			580	460	370	290	250	180				
MAX. FLOW (GPM)	10	14	16	20			20	20	20	20	20	20				

### NEVER OPERATE AT MAX. PRESSURE AND MAX. FLOW SIMULTANEOUSLY

DR SERIES/ CU-IN	12	16	19	21	25	27	28	33	46	56	66	91	99
ACTUAL CU-IN/ REV	12.4	15.9	18.3	21.2	22.8	28.3		32.7	45.6				
MAX. PRESS. (PSI)	3000	3000	3000	3000	3000	2500		2000	1500				
MAX. TORQUE (IN-LBS)	4900	6590	7450	8600	9600	9800		9150	9200				
MAX. SPEED (RPM)	470	360	320	270	250	200		180	130				
MAX. FLOW (GPM)	25	25	25	25	25	25		25	25				
DT SERIES/ CU-IN				19	25	28	33	46	56	66	91	99	
ACTUAL CU-IN/ REV				18.3	22.8	28.3	32.7	45.6	56.7	63.9	91.2	127.7	
MAX. PRESS. (PSI)				3000	3000	2500	2500	2500	2000	2000	1500	1500	
MAX. TORQUE (IN-LBS)				7250	9250	9475	11300	15750	15750	16950	18500	23550	
MAX. SPEED (RPM)				320	250	200	180	130	100	90	60	40	
MAX. FLOW (GPM)				25	25	25	25	25	25	25	25	25	