

## RADIAL PISTON MOTORS

HRS

### TECHNICAL DATA

	Displacement cm <sup>3</sup> /rev	Specific torque Nm/bar	Max. speed (cont.) (peak)		Max. pressure (cont.) (int.) (peak)			Max. case pressure bar	Max. power kW	Rotation inertia moment kg cm <sup>2</sup>	Weight kg
			rpm	rpm	bar	bar	bar				
HRS A1/80	80	1,3	950	1050	250	300	350	6	40	18	26
HRS A1/100	100	1,6	950	1050	250	300	350	6	40	18	26
HRS A1/150	157	2,5	950	1050	250	300	350	6	40	18	26
HRS A1/175	176	2,8	950	900	250	300	350	6	40	18	26
HRS A1/195	195	3,1	800	900	250	300	350	6	40	18	26
HRS A1/200	216	3,3	800	850	250	300	350	6	40	18	26
HRS A1/250	250	4,1	750	850	250	300	350	6	40	18	26
HRS A1/300	307	4,9	750	850	250	300	350	6	40	18	26
HRS B1/200	201	3,2	750	900	250	300	350	6	49	27	42
HRS B1/250	254	4,0	800	850	250	300	350	6	49	27	42
HRS B1/300	289	5,0	750	850	250	300	350	6	49	27	42
HRS B1/350	361	5,8	750	750	250	300	350	6	49	27	42
HRS B1/400	424	6,7	650	700	250	300	350	6	49	27	42
HRS B1/500	492	7,8	600	600	250	300	350	6	49	27	42
HRS B1/600	591	9,3	500	600	250	300	350	6	49	27	42
HRS C1/350	349	5,6	630	700	250	300	350	6	68	214	68
HRS C1/400	397	6,3	600	680	250	300	350	6	68	214	68
HRS C1/450	452	7,2	600	680	250	300	350	6	68	214	68
HRS C1/500	490	7,8	600	680	250	300	350	6	68	214	68
HRS C1/600	593	9,4	550	630	250	300	350	6	68	214	68
HRS C1/650	660	10,5	500	580	250	300	350	6	68	214	68
HRS C1/700	707	11,2	450	500	250	300	350	6	68	214	68
HRS C1/800	791	12,6	400	450	250	300	350	6	68	214	68
HRS D1/700	714	11,4	500	580	250	300	350	6	80	267	92
HRS D1/800	792	12,6	450	530	250	300	350	6	80	267	92
HRS D1/850	847	13,5	450	530	250	300	350	6	80	267	92
HRS D1/900	904	14,4	450	530	250	300	350	6	80	267	92
HRS D1/1000	992	15,8	330	400	250	300	350	6	80	267	92
HRS D1/1100	1116	17,8	330	400	250	300	350	6	80	267	92
HRS D1/1200	1192	19,0	300	350	250	300	350	6	80	267	92
HRS D1/1250	1247	19,8	250	300	250	300	350	6	80	267	92
HRS D1/1400	1332	21,2	230	280	250	300	350	6	80	267	92

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HRS

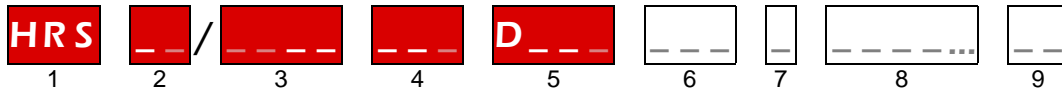
### TECHNICAL DATA

	Displacement cm <sup>3</sup> /rev	Specific torque Nm/bar	Max. speed (cont.) (peak) rpm		Max. pressure (cont.) (int.) (peak) bar			Max. case pressure bar	Max. power kW	Rotation inertia moment kg cm <sup>2</sup>	Weight kg
HRS E1/1000	1094	17,4	350	400	250	300	350	6	120	697	173
HRS E1/1200	1231	19,6	300	350	250	300	350	6	120	697	173
HRS E1/1400	1376	21,9	300	350	250	300	350	6	120	697	173
HRS E1/1500	1528	24,3	300	350	250	300	350	6	120	697	173
HRS E1/1600	1648	26,2	300	340	250	300	350	6	120	697	173
HRS E1/1800	1815	28,9	250	300	250	300	350	6	120	697	173
HRS E1/2000	2035	32,4	230	260	250	300	350	6	120	697	173
HRS E1/2200	2200	35,3	220	240	250	300	350	6	120	697	173
HRS F1/2200	2206	35,1	220	260	250	300	350	6	170	1745	308
HRS F1/2500	2525	40,2	220	260	250	300	350	6	170	1745	308
HRS F1/2800	2807	44,7	220	260	250	300	350	6	170	1745	308
HRS F1/3000	2983	47,5	210	250	250	300	350	6	170	1745	308
HRS F1/3200	3289	52,3	200	240	250	300	350	6	170	1745	308
HRS F1/3500	3479	55,4	200	240	250	300	350	6	170	1745	308
HRS D2/1100	1183	18,8	350	400	250	300	350	6	120	380	118
HRS D2/1400	1376	21,9	300	350	250	300	350	6	120	380	118
HRS D2/1600	1648	26,2	275	325	250	300	350	6	120	380	118
HRS D2/1800	1815	28,9	250	300	250	300	350	6	120	380	118
HRS E2/2200	2126	33,8	240	280	250	300	350	6	170	697	173
HRS E2/2500	2525	40,2	240	280	250	300	350	6	170	697	173
HRS E2/2800	2807	44,7	240	280	250	300	350	6	170	697	173
HRS E2/3000	3028	48,2	230	270	250	300	350	6	170	697	173
HRS G/3900	3907	62,2	160	200	250	300	350	6	180	4064	405
HRS G/4300	4343	69,1	150	190	250	300	350	6	180	4064	405
HRS G/4600	4616	73,5	140	190	250	300	350	6	180	4064	405
HRS G/5000	5088	81,0	140	180	250	300	350	6	180	4064	405
HRS G/5400	5384	85,7	130	170	250	300	350	6	180	4064	405
HRS H/6000	5966	95,0	120	140	250	300	350	6	190	5380	590
HRS H/6500	6581	104,7	120	140	250	300	350	6	190	5380	590
HRS H/6800	6962	110,8	120	140	250	300	350	6	190	5380	590
HRS H/7600	7620	121,3	90	100	250	300	350	6	180	5380	590
HRS H/8000	8062	128,3	80	90	250	300	350	6	180	5380	590

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HRS

### MODEL CODE



#### 1. SERIES

Star-shaped design radial piston motors, high pressure, high torque, single displacement

HRS

#### 2-3. BODY AND DISPLACEMENT

Body	A1	80	100	150	175	195	200	250	300	
	B1	200	250	300	350	400	500	600		
	C1	350	400	450	500	600	650	700	800	
	D1	700	800	850	900	1000	1100	1200	1250	1400
	E1	1000	1200	1400	1500	1600	1800	2000		
	F1	2200	2500	2800	3000	3200	3500			
	D2	1100	1400	1600	1800					
	E2	2200	2500	2800	3000					
	G	3900	4300	4600	5000	5400				
	H	6000	6500	6800	7600	8000				

#### 2. SHAFT

Splined (teeth no.) **S \_ \_ \_** Cylindrical (ø in mm) **C \_ \_ \_** Internal splined **I \_ \_ \_** Tapered **K \_ \_ \_**

(for more details, see specific technical data of each motor)

#### 3. DISTRIBUTOR

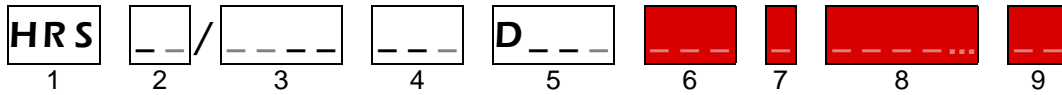
Body	A1	200 L/min, 3/4" BSP	D31	200 L/min, 1" BSP	D310	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47
	B1	200 L/min, 3/4" BSP	D31	200 L/min, 1" BSP	D310	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47
	C1	200 L/min, 3/4" BSP	D31	200 L/min, 1" BSP	D310	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47
	D1	200 L/min, 3/4" BSP	D31	200 L/min, 1" BSP	D310	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47
	E1	300 L/min, 1" SAE	D55	500 L/min, 1 1/2" SAE	D75				
	F1	600 L/min, 1 1/2" SAE	D90						
	D2	200 L/min, 3/4" BSP	D31	200 L/min, 1" BSP	D310	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D75
	E2	600 L/min, 1 1/2" SAE	D90						
	G	600 L/min, 1 1/2" SAE	D90						
	H	1.000 L/min, 2" SAE	D200						

(for drawings and more details, see specific distributors technical data; above flow values are meant for continuous operation: maximum permissible flow is double the continuous flow value)

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HRS

### MODEL CODE



#### 5. TACHOMETER

No tachometer	(no code)	Adapter thread M18x1	AT	Adapter disk	AD
Connection for adapter	C	Adapter cylindrical ø20 h8	AC	Electrical tachometer 10-30 V	E30

#### 4. SHAFT COUPLING

		No shaft coupling	(no code)						
Body	A1	26x32 UNI 221	A	32x38 UNI 221	B	28x34 UNI 221	N		
	B1	32x38 UNI 221	B	36x42 UNI 221	C	42x48 UNI 222	P		
	C1	36x42 UNI 221	C	46x50 UNI 220	D	46x54 UNI 221	E		
	D1	46x50 UNI 220	D	46x54 UNI 221	E	52x60 UNI 222	R		
	E1	62x72 UNI 221	F	BS3550 14T 6/12	G	72x82 UNI 222	H	56x65 UNI 221	S
	F1	82x92 UNI 221	J	BS3550 20T 6/12	K				
	D2	62x72 UNI 221	F	BS3550 14T 6/12	G				
	E2	82x92 UNI 221	J	BS3550 20T 6/12	K				
	G	BS3550 20T 6/12	K	102x112 UNI 222	L				
	H	BS3550 20T 6/12	K	112x115 UNI 222	M				

#### 5. VALVE

No valves	(no code)	SO valve w/ integr. relief valve	SOR...	Dual crossover relief valve	DCR...
Single overcenter valve	SO...	Dual overcenter valve	DO...	DCR valve w/ integr. flushing v.	DCRF...

(for more details and complete model codes, see specific valves technical data)

#### 6. OPTIONS

No options	(no code)	Viton seals	VS	Body anticorrosion treatment	BA	Cylinder anticorrosion treatment	CA
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#### EXAMPLES

HRS B1/300 S8 D40

HRS E2/1600 C85 D90 AC VS

HRS G/5000 K D90 TE K DCR BA

For technical data and model code information about higher displacement motors, please contact HYDROMOBIL.