

## RADIAL PISTON MOTORS

**HRS2**

### TECHNICAL DATA

		Displacement	Specific torque	Max. cont. speed	Min. speed	Max. pressure			Max. power		Mechanical efficiency		Recommended flushing flow	Weight
		cm <sup>3</sup> /rev	Nm/bar	rpm	rpm	(cont.)	(int.)	(peak)	(cont.)	(int.)	(oper.)	(startup)	L/min	kg
						bar			bar		%			
<b>HRS2 A/200/...</b>	<b>MAX.</b>	195	3,1	750	3	250	275	350	36	45	89,5	84,5	8	26
<b>HRS2 A/200/69</b>	<b>MIN.</b>	69	1,1	850	5	250	275	350	24	30	85,5	78	8	26
<b>HRS2 A/200/75</b>	<b>MIN.</b>	75	1,2	800	5	250	275	350	26	32,5	87	81	8	26
<b>HRS2 A/200/95</b>	<b>MIN.</b>	95	1,5	775	4	250	275	350	28	35	87,8	83	8	26
<b>HRS2 A/200/100</b>	<b>MIN.</b>	100	1,6	775	4	250	275	350	28	35	88	84	8	26
<b>HRS2 A/200/125</b>	<b>MIN.</b>	125	2	775	4	250	275	350	30	37,5	88,5	84,5	8	26
<b>HRS2 A/200/150</b>	<b>MIN.</b>	150	2,4	750	3	250	275	350	32	40	89	85	8	26
<b>HRS2 A/200/175</b>	<b>MIN.</b>	175	2,8	750	3	250	275	350	34	42,5	89,2	84,2	8	26
<b>HRS2 B/250/...</b>	<b>MAX.</b>	257	4,1	700	3	250	275	350	38	47,5	88,5	83,5	10	26
<b>HRS2 B/250/95</b>	<b>MIN.</b>	95	1,5	775	4	250	275	350	28	35	87,8	83	10	26
<b>HRS2 B/250/100</b>	<b>MIN.</b>	100	1,6	775	4	250	275	350	28	35	88	84	10	26
<b>HRS2 B/250/125</b>	<b>MIN.</b>	125	2	775	4	250	275	350	30	37,5	88,5	84,5	10	26
<b>HRS2 B/250/150</b>	<b>MIN.</b>	150	2,4	750	3	250	275	350	32	40	89	85	10	26
<b>HRS2 B/250/175</b>	<b>MIN.</b>	175	2,8	750	3	250	275	350	34	42,5	89,2	84,2	10	26
<b>HRS2 B/250/200</b>	<b>MIN.</b>	195	3,1	750	3	250	275	350	36	45	88	84	10	26
<b>HRS2 B/250/225</b>	<b>MIN.</b>	232	3,7	700	3	250	275	350	37	46	88,2	83,2	10	26
<b>HRS2 C/500/...</b>	<b>MAX.</b>	492	7,8	450	2	250	275	50	61	66	87,5	82,5	10	68
<b>HRS2 C/500/100</b>	<b>MIN.</b>	98	1,6	600	4	250	275	350	9	11	73,4	30	10	68
<b>HRS2 C/500/150</b>	<b>MIN.</b>	147	2,3	600	3	250	275	350	20	25	78	52	10	68
<b>HRS2 C/500/200</b>	<b>MIN.</b>	197	3,1	600	3	250	275	350	26	21	80	62,1	10	68
<b>HRS2 C/500/250</b>	<b>MIN.</b>	255	4,1	595	3	250	275	350	36	45	82	69,6	10	68
<b>HRS2 C/500/300</b>	<b>MIN.</b>	292	4,7	580	2	250	275	350	44	55	82,4	74,3	10	68
<b>HRS2 C/500/350</b>	<b>MIN.</b>	344	5,5	545	2	250	275	350	50	62,5	83,6	77,2	10	68
<b>HRS2 C/500/400</b>	<b>MIN.</b>	393	6,3	520	2	250	275	350	57	71	85	80	10	68
<b>HRS2 C/500/450</b>	<b>MIN.</b>	442	7	505	2	250	275	350	60	75	86	81	10	68

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		Displacement	Specific torque	Max. cont. speed	Min. speed	Max. pressure			Max. power		Mechanical efficiency		Recommended flushing flow	Weight
		cm <sup>3</sup> /rev	Nm/bar	rpm	rpm	(cont.)	(int.)	(peak)	(cont.)	(int.)	(oper.)	(startup)	L/min	kg
						bar			bar		%			
<b>HRS2 D/800/...</b>	<b>MAX.</b>	792	12,6	450	2	250	275	350	100	120	90,8	84,8	10	92
<b>HRS2 D/800/175</b>	<b>MIN.</b>	165	2,6	600	3	250	275	350	15	18	60,2	43,3	10	92
<b>HRS2 D/800/250</b>	<b>MIN.</b>	245	3,9	600	3	250	275	350	30	36	82	60,8	10	92
<b>HRS2 D/800/275</b>	<b>MIN.</b>	273	4,3	600	2	250	275	350	38	46	82,4	68,3	10	92
<b>HRS2 D/800/325</b>	<b>MIN.</b>	328	5,2	600	2	250	275	350	43	52	84,5	70,2	10	92
<b>HRS2 D/800/400</b>	<b>MIN.</b>	410	6,5	600	2	250	275	350	53	64	87,4	75	10	92
<b>HRS2 D/800/500</b>	<b>MIN.</b>	493	7,8	600	2	250	275	350	68	82	88	79	10	92
<b>HRS2 D/800/575</b>	<b>MIN.</b>	575	9,2	600	2	250	275	350	80	96	88,5	82,6	10	92
<b>HRS2 D/800/650</b>	<b>MIN.</b>	660	10,5	540	2	250	275	350	90	108	90,4	84,4	10	92
<b>HRS2 E/1600/...</b>	<b>MAX.</b>	1600	25,5	370	1	250	275	350	139	171	94,2	88,2	12	173
<b>HRS2 E/1600/80</b>	<b>MIN.</b>	82	1,3	1000	4	17	17	17	0	0	0	0	15	173
<b>HRS2 E/1600/175</b>	<b>MIN.</b>	164	2,6	600	3	250	275	350	14	17	60,5	0	12	173
<b>HRS2 E/1600/250</b>	<b>MIN.</b>	246	3,9	600	3	250	275	350	28	35	65,7	18	12	173
<b>HRS2 E/1600/325</b>	<b>MIN.</b>	328	5,2	600	3	250	275	350	39	48	75,5	39	12	173
<b>HRS2 E/1600/400</b>	<b>MIN.</b>	410	6,5	600	2	250	275	350	53	65	81,7	51	12	173
<b>HRS2 E/1600/500</b>	<b>MIN.</b>	492	7,8	600	2	250	275	350	65	80	83	59,2	12	173
<b>HRS2 E/1600/575</b>	<b>MIN.</b>	574	9,1	600	2	250	275	350	78	96	87	65	12	173
<b>HRS2 E/1600/650</b>	<b>MIN.</b>	655	10,4	600	2	250	275	350	91	112	89,3	83,2	12	173
<b>HRS2 E/1600/725</b>	<b>MIN.</b>	737	11,7	545	2	250	275	350	98	121	91	72,9	12	173
<b>HRS2 E/1600/825</b>	<b>MIN.</b>	820	13	520	2	250	275	350	105	130	92,3	76	12	173
<b>HRS2 E/1600/900</b>	<b>MIN.</b>	900	14,3	495	1	250	275	350	110	136	92,6	77,9	12	173
<b>HRS2 E/1600/975</b>	<b>MIN.</b>	980	15,6	490	1	250	275	350	115	142	93	79,8	12	173
<b>HRS2 E/1600/1000</b>	<b>MIN.</b>	1070	17	480	1	250	275	350	119	147	93,2	81,3	12	173
<b>HRS2 E/1600/1150</b>	<b>MIN.</b>	1150	18,3	460	1	250	275	350	124	153	93,4	82,6	12	173
<b>HRS2 E/1600/1200</b>	<b>MIN.</b>	1235	19,7	440	1	250	275	350	127	157	93,5	85,1	12	173
<b>HRS2 E/1600/1300</b>	<b>MIN.</b>	1313	20,9	435	1	250	275	350	128	158	93,7	85,3	12	173
<b>HRS2 E/1600/1400</b>	<b>MIN.</b>	1393	22,2	410	1	250	275	350	135	166	93,9	86,5	12	173
<b>HRS2 E/1600/1500</b>	<b>MIN.</b>	1499	23,9	400	1	250	275	350	138	170	94	88	12	173

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### TECHNICAL DATA

		Displacement	Specific torque	Max. cont. speed	Min. speed	Max. pressure			Max. power		Mechanical efficiency		Recommended flushing flow	Weight
		cm <sup>3</sup> /rev	Nm/bar	rpm	rpm	(cont.)	(int.)	(peak)	(cont.)	(int.)	(oper.)	(startup)	%	L/min
<b>HRS2 F/3000/...</b>	<b>MAX.</b>	3085	49,1	235	1	250	275	350	175	196	95	86	12	308
<b>HRS2 F/3000/2950</b>	<b>MIN.</b>	2950	47	240	1	250	275	350	175	196	94,5	85,4	12	308
<b>HRS2 F/3000/2800</b>	<b>MIN.</b>	2790	44,4	245	1	250	275	350	175	196	94,2	84,4	12	308
<b>HRS2 F/3000/2600</b>	<b>MIN.</b>	2620	41,7	250	1	250	275	350	165	185	94	83,6	12	308
<b>HRS2 F/3000/2450</b>	<b>MIN.</b>	2460	39,2	250	1	250	275	350	155	174	93,7	82,4	12	308
<b>HRS2 F/3000/2300</b>	<b>MIN.</b>	2290	36,5	265	1	250	275	350	150	168	93,5	82	12	308
<b>HRS2 F/3000/2100</b>	<b>MIN.</b>	2130	33,9	285	1	250	275	350	140	157	92,8	80,2	12	308
<b>HRS2 F/3000/1950</b>	<b>MIN.</b>	1970	31,4	305	1	250	275	350	130	146	92,3	78	12	308
<b>HRS2 F/3000/1800</b>	<b>MIN.</b>	1800	28,7	340	1	250	275	350	122	137	92	76	12	308
<b>HRS2 F/3000/1650</b>	<b>MIN.</b>	1640	26,1	370	1	250	275	350	115	129	91	73	12	308
<b>HRS2 F/3000/1450</b>	<b>MIN.</b>	1470	23,4	400	1	250	275	350	106	119	90,5	70	12	308
<b>HRS2 F/3000/1300</b>	<b>MIN.</b>	1310	20,9	425	1	250	275	350	100	112	88	66,4	12	308
<b>HRS2 F/3000/1150</b>	<b>MIN.</b>	1150	18,3	455	1	250	275	350	89	100	86,2	62	12	308
<b>HRS2 F/3000/975</b>	<b>MIN.</b>	980	15,6	490	1	250	275	350	81	91	82,3	55,4	12	308
<b>HRS2 F/3000/825</b>	<b>MIN.</b>	820	13,1	520	2	250	275	350	73	82	81,7	46,3	12	308
<b>HRS2 F/3000/675</b>	<b>MIN.</b>	670	10,7	600	2	250	275	350	62	70	78	33	12	308
<b>HRS2 F/3000/500</b>	<b>MIN.</b>	490	7,8	600	2	250	275	350	49	55	76	0	12	308
<b>HRS2 F/3000/325</b>	<b>MIN.</b>	330	5,2	600	3	250	275	350	25	35	73,2	0	12	308

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### TECHNICAL DATA

		Displacement	Specific torque	Max. cont. speed	Min. speed	Max. pressure			Max. power		Mechanical efficiency		Recommended flushing flow	Weight
		cm <sup>3</sup> /rev	Nm/bar	rpm	rpm	(cont.)	(int.)	(peak)	(cont.)	(int.)	(oper.)	(startup)	L/min	kg
						bar			bar		%			
<b>HRS2 G/4600/...</b>	<b>MAX.</b>	4617	73,5	150	1	250	275	350	190	213	95,3	85,1	12	405
<b>HRS2 G/4600/0</b>	<b>MIN.</b>	0	0	1000	0	17	17	17	0	0	0	0	15	405
<b>HRS2 G/4600/80</b>	<b>MIN.</b>	82	0	1000	4	17	17	17	0	0	0	0	15	405
<b>HRS2 G/4600/175</b>	<b>MIN.</b>	164	2,6	1000	3	250	275	350	0	0	0	0	12	405
<b>HRS2 G/4600/325</b>	<b>MIN.</b>	328	5,2	550	3	250	275	350	15	20	46,4	0	12	405
<b>HRS2 G/4600/500</b>	<b>MIN.</b>	492	7,8	520	2	250	275	350	27	39	66	23,7	12	405
<b>HRS2 G/4600/650</b>	<b>MIN.</b>	655	10,4	495	2	250	275	350	38	56	76,2	41	12	405
<b>HRS2 G/4600/975</b>	<b>MIN.</b>	980	15,6	460	1	250	275	350	56	80	78,4	58	12	405
<b>HRS2 G/4600/1300</b>	<b>MIN.</b>	1310	20,9	435	1	250	275	350	73	96	83	67,2	12	405
<b>HRS2 G/4600/1650</b>	<b>MIN.</b>	1640	26,1	380	1	250	275	350	88	110	86,5	72,4	12	405
<b>HRS2 G/4600/1950</b>	<b>MIN.</b>	1970	31,4	305	1	250	275	350	104	122	90,1	75,2	12	405
<b>HRS2 G/4600/2300</b>	<b>MIN.</b>	2290	36,5	275	1	250	275	350	115	129	91,5	78	12	405
<b>HRS2 G/4600/2600</b>	<b>MIN.</b>	2620	41,7	235	1	250	275	350	129	145	92,4	80,1	12	405
<b>HRS2 G/4600/2950</b>	<b>MIN.</b>	2950	47	210	1	250	275	350	140	157	93,3	81,2	12	405
<b>HRS2 G/4600/3250</b>	<b>MIN.</b>	3280	52,2	175	1	250	275	350	150	169	94,4	82,5	12	405
<b>HRS2 G/4600/3650</b>	<b>MIN.</b>	3650	58,1	168	1	250	275	350	165	185	94,5	83,3	12	405
<b>HRS2 G/4600/4150</b>	<b>MIN.</b>	4177	66,5	158	1	250	275	350	180	202	95,1	84	12	405

## RADIAL PISTON MOTORS

**HRS2**

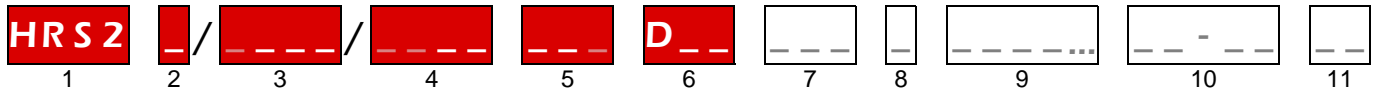
### TECHNICAL DATA

		Displacement	Specific torque	Max. cont. speed	Min. speed	Max. pressure			Max. power		Mechanical efficiency		Recommended flushing flow	Weight
		cm <sup>3</sup> /rev	Nm/bar	rpm	rpm	(cont.)	(int.)	(peak)	(cont.)	(int.)	(oper.)	(startup)	L/min	kg
						bar			bar		%			
<b>HRS2 H/5300/...</b>	<b>MAX.</b>	5326	84,8	130	1	250	275	350	190	216	95,2	86	12	405
<b>HRS2 H/5300/5050</b>	<b>MIN.</b>	5080	80,9	135	1	250	275	350	190	216	95	85,8	12	405
<b>HRS2 H/5300/4900</b>	<b>MIN.</b>	4915	78,2	140	1	250	275	350	190	216	95	85,8	12	405
<b>HRS2 H/5300/4550</b>	<b>MIN.</b>	4588	73	150	1	250	275	350	190	216	95	85,4	12	405
<b>HRS2 H/5300/4100</b>	<b>MIN.</b>	4097	65,2	160	1	250	275	350	178	200	95	85,2	12	405
<b>HRS2 H/5300/3650</b>	<b>MIN.</b>	3650	58,1	170	1	250	275	350	162	182	94,4	83	12	405
<b>HRS2 H/5300/3250</b>	<b>MIN.</b>	3280	52,2	190	1	250	275	350	152	170	94,3	82,2	12	405
<b>HRS2 H/5300/2950</b>	<b>MIN.</b>	2950	47	215	1	250	275	350	140	160	93,2	82	12	405
<b>HRS2 H/5300/2600</b>	<b>MIN.</b>	2620	41,7	230	1	250	275	350	130	145	92	79,8	12	405
<b>HRS2 H/5300/2300</b>	<b>MIN.</b>	2295	36,5	280	1	250	275	350	120	135	91,5	77,7	12	405
<b>HRS2 H/5300/1950</b>	<b>MIN.</b>	1970	31,4	335	1	250	275	350	105	120	90	75,3	12	405
<b>HRS2 H/5300/1650</b>	<b>MIN.</b>	1640	26,1	375	1	250	275	350	90	110	86	72,1	12	405
<b>HRS2 H/5300/1550</b>	<b>MIN.</b>	1560	24,8	410	1	250	275	350	85	102	84,5	71,3	12	405
<b>HRS2 H/5300/1300</b>	<b>MIN.</b>	1311	20,9	445	1	250	275	350	75	98	82,3	67	12	405
<b>HRS2 H/5300/975</b>	<b>MIN.</b>	980	15,6	470	1	250	275	350	58	82	78,3	58	12	405
<b>HRS2 H/5300/650</b>	<b>MIN.</b>	655	10,4	500	2	250	275	350	40	56	76,2	41	12	405
<b>HRS2 H/5300/500</b>	<b>MIN.</b>	492	7,8	520	2	250	275	350	26	40	66,2	24	12	405
<b>HRS2 H/5300/325</b>	<b>MIN.</b>	328	5,2	550	3	250	275	350	15	20	46,5	0	12	405
<b>HRS2 H/5300/175</b>	<b>MIN.</b>	164	2,6	1000	3	17	17	17	0	0	0	0	15	405
<b>HRS2 H/5300/0</b>	<b>MIN.</b>	0	0	1000	0	17	17	17	0	0	0	0	15	405

## RADIAL PISTON MOTORS

HRS2

### MODEL CODE



#### 1. SERIES

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

HRS2

2-3-4.

#### BODY AND DISPLACEMENTS

Body	Max. displacement in cm <sup>3</sup> /rev	M:in. displacement in cm <sup>3</sup> /rev													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
A	195	175	150	125	100	95	75	69							
B	250	230	195	175	150	125	100	95							
C	500	450	400	350	300	250	200	150	100						
D	800	650	575	500	400	325	275	250	175						
E	1600	1500	1400	1300	1200	1150	1000	975	900	825	725	650	575	500	
F	3000	400	325	250	175	80									
G	4600	2950	2800	2600	2450	2300	2100	1950	1800	1650	1450	1300	1150	975	
H	5300	825	675	500	325										
		4150	3650	3250	2950	2600	2300	1950	1650	1300	975	650	500	325	
		175	80	0											
		5050	4900	4600	4100	3650	3250	2950	2600	2300	1950	1650	1550	1300	
		675	650	500	325	175	0								

#### 5. SHAFT

Splined (teeth no.)	S__	Cylindrical (ø in mm)	C__	Internal splined	I__
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(for more details, see specific technical data of each motor)

#### 6. DISTRIBUTOR

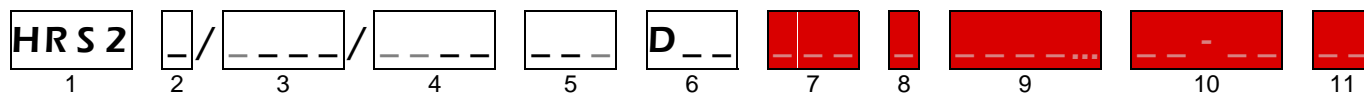
Body	A	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47
C	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47	
D	200 L/min, 1" BSP	D40	200 L/min, 1" SAE	D47	
E	500 L/min, 1½"SAE	D75			
F	600 L/min, 1½"SAE	D90			
G	600 L/min, 1½"SAE	D90			
H	600 L/min, 1½"SAE	D90			

(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)

## RADIAL PISTON MOTORS

HRS2

### MODEL CODE



#### 7. 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

#### 8. SHAFT COUPLING

		No shaft coupling	(no code)		
Body	A	28x34 UNI 221	N		
	B	28x34 UNI 221	N		
	C	36x42 UNI 221	C		
	D	52x60 UNI 222	R		
	E	62x72 UNI 221	F	BS3550 14T 6/12	G
	F	82x92 UNI 221	J	BS3550 20T 6/12	K
	G	BS3550 20T 6/12	K		
	H	BS3550 20T 6/12	K		

#### 9. VALVES

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...
Shuttle valve	SH				

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

#### 10. CETOP 3 FITTING

No CETOP 3 fitting	(no code)	CETOP 3 fitting	C3	C3 with 12 V DC valve	C3-12	C3 with 24 V DC valve	C3-24
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#### 11. OPTIONS

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

HRS2 B/250/125 S8 D40

HRS2 E/1600 C60 D75 AC SH VS

HRS2 H/5400 S20 D90 K SH C3-24 BA

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