

High Pressure, 3 Diaphragm

Model 9910-DBS140 and DBA140



- Max fluid temp: 140°F/60°C
- Diaphragms: 3, semi-hydraulic, Desmopan® standard, Buna available
- Housing components for liquid handling:
 - DBS – external bronze manifolds and brass heads
 - DBA – external manifolds and heads in anodized aluminum
- Weight: 114 lbs./51.7 kg (DBS140); 88 lbs./40 kg (DBA140)
- Pump shaft rotation: CW and CCW
- Recommended control unit: 9910-BMH50 or 9910-GH50, see page 84.
- Weight: 114 lbs./51.7 kg (DBS140); 88 lbs./40 kg (DBA140)

Pressure in PSI and BAR	GPM		HP		GPM		HP		GPM		HP	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	Ø350 RPM	Ø400 RPM	Ø450 RPM	Ø500 RPM	Ø550 RPM							
0 PSI	25.1	0.82	28.5	1.11	31.5	1.50	34.8	2.02	37.8	2.58		
0 BAR	94.6	0.82	107.5	1.11	119.0	1.50	131.5	2.02	142.6	2.58		
217 PSI	24.1	3.47	27.5	4.01	30.7	4.51	33.2	5.01	37.3	5.61		
15 BAR	91.1	3.47	103.8	4.01	115.9	4.51	125.3	5.01	140.9	5.61		
435 PSI	23.8	6.53	27.2	7.69	30.2	8.39	32.6	9.28	36.7	10.34		
30 BAR	89.9	6.53	102.8	7.69	114.1	8.39	123.1	9.28	138.7	10.34		
580 PSI	23.6	8.53	26.8	9.73	29.8	10.82	32.2	12.02	36.5	13.33		
40 BAR	89.1	8.53	101.0	9.73	112.6	10.82	121.5	12.02	137.6	13.33		
725 PSI	23.3	10.47	26.5	11.88	29.7	13.28	31.9	14.67	36.3	16.28		
50 BAR	88.1	10.47	100.0	11.88	112.2	13.28	120.4	14.67	137.0	16.28		

All HP requirements listed in the table are electrical. For approximate gasoline equivalent, multiply by 1.3.

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Port Size	Shaft Output
9910-DBS140	37.8	143.1	725	50	550	1-1/2" HB inlet, 3/4" NPT outlet	1-3/8" - 6 splined male double-ended shaft
9910-DBA140	37.8	143.1	725	50	550	1-1/2" HB inlet, 3/4" NPT outlet	1-3/8" - 6 splined male double-ended shaft

High Pressure, 4 Diaphragm

Model 9910-DBS160 and DBA160



- Max fluid temp: 140°F/60°C
- Diaphragms: 4, semi-hydraulic, Desmopan® standard, Buna available
- Housing components for liquid handling:
 - DBS – external bronze manifolds and brass heads
 - DBA – external manifolds and heads in anodized aluminum
- Pump shaft rotation: CW and CCW
- Recommended control unit: 9910-BMH50 or 9910-GH50, see page 84.
- Weight: 143 lbs./64.9 kg (DBS160); 112 lbs./50.9 kg (DBA160)

Pressure in PSI and BAR	GPM		HP		GPM		HP		GPM		HP	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	Ø350 RPM	Ø400 RPM	Ø450 RPM	Ø500 RPM	Ø550 RPM							
0 PSI	25.5	1.12	29.3	1.52	32.6	1.83	36.1	2.23	39.6	2.62		
0 BAR	96.3	1.12	110.4	1.52	122.9	1.83	136.3	2.23	149.4	2.62		
217 PSI	24.9	3.72	28.7	4.39	32.1	4.83	35.7	5.27	39.1	5.91		
15 BAR	94.1	3.72	108.4	4.39	121.3	4.83	134.8	5.27	147.5	5.91		
435 PSI	24.6	6.90	28.3	8.01	31.9	8.89	35.3	9.80	38.5	10.75		
30 BAR	93.0	6.90	106.6	8.01	120.5	8.89	133.4	9.80	145.3	10.75		
580 PSI	24.5	8.88	28.1	10.22	31.5	11.49	35.0	12.77	38.4	14.12		
40 BAR	92.4	8.88	106.1	10.22	118.9	11.49	132.2	12.77	144.9	14.12		
725 PSI	24.2	10.91	27.9	12.46	31.3	14.01	34.8	15.64	38.2	17.28		
50 BAR	91.4	10.91	105.3	12.46	118.2	14.01	131.5	15.64	144.2	17.28		

All HP requirements listed in the table are electrical. For approximate gasoline equivalent, multiply by 1.3.

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Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Port Size	Shaft Output
9910-DBS160	39.6	149.9	725	50	550	1-1/2" HB inlet, 3/4" NPT outlet	1-3/8" - 6 splined male double-ended shaft
9910-DBA160	39.6	149.9	725	50	550	1-1/2" HB inlet, 3/4" NPT outlet	1-3/8" - 6 splined male double-ended shaft