

Model of pump	Displ.	Theoretical Displacement Vi ml / rev	Minimum Speed RPM	Maximum Speed		Maximum Pressure					
				HF-0, HF-1 HF-2	HF-3, HF-4 HF-5	HF-0, HF-2		HF-1, HF-4, HF-5		HF-3	
				RPM	RPM	Int.	Cont.	Int.	Cont.	Int.	Cont.
						bar	bar	bar	bar	bar	bar
T7B T7BS	B02	5,8	600	3600	1800	320 ¹⁾	290	240	210	175	140
	B03	9,8									
	B04	12,8									
	B05	15,9									
	B06	19,8									
	B07	22,5									
	B08	24,9									
	B09	28,0									
	B10	31,8									
	B11	35,0									
	B12	41,0									
	B14	45,0									
	B15	50,0		3000		300	275				
						280	240				
T6CLP	003	10,8	600	2800	1800	275	240	210	175	175	140
	005	17,2									
	006	21,3									
	008	26,4									
	010	34,1									
	012	37,1									
	014	46,0									
	017	58,3									
	020	63,8									
	022	70,3									
	025	79,3									
	028	88,8									
	031	100,0		2500		210	160		160		
T7DL	B14	44,0	600	3000	1800	300	250	240	210	175	140
	B17	55,0									
	B20	66,0									
	B22	70,3									
	B24	81,1									
	B28	91,0									
	B31	99,2									
	B35	113,4									
	B38	120,6									
	B42	137,5									
	045 ²⁾	145,7									
	050 ²⁾	158,0									
				2800		280					
				2500		260	230				
				2200		240	210	210	175		
						210	160		160		
T7ELP	042	132,3	600	2200	1800	240	210	210	175	175	140
	045	142,4									
	050	158,5									
	052	164,8									
	054	171,0									
	057	183,3									
	062	196,7									
	066	213,3									
	072	227,1									
	085	268,7		2000		90	75	75	75	75	75

HF-0, HF-2 = Anti-wear petroleum base.

HF-1 = Non anti-wear petroleum base.

HF-5 = Synthetic fluids.

HF-3 = Water-in-oil invert emulsions.

HF-4 = Water glycol solutions.

¹⁾ Please consult DENISON Hydraulics for application over 300 bar.²⁾ Ten vane technology.

For further information or if the performance characteristics outlined above do not meet your own particular requirements, please consult your local DENISON Hydraulics office.

Model of Pump	Displ.	Theoretical Displacement Vi	Minimum Speed	Maximum Speed		Maximum VPressure							
				HF-0, HF-1 HF-2	HF-3, HF-4 HF-5	HF-0, HF-2		HF-1, HF-4, HF-5		HF-3			
		ml / rev		RPM	RPM	RPM	Int.	Cont.	Int.	Cont.	Int.	Cont.	
T7 BB T7 BBS	B02	5,8	600	2200 ³⁾	1800	T7BB T7BBS 320 ¹⁾	T7BB T7BBS 290	240	210	175	140		
	B03	9,8											
	B04	12,8											
	B05	15,9											
	B06	19,8											
	B07	22,5											
	B08	24,9											
	B09	28,0											
	B10	31,8											
	B11	35,0											
	B12	41,0											
	B14	45,0											
	B15	50,0				280	240						
T6 CCLP	003	10,8	600	2200 ³⁾	1800	275	240	210	175	175	140		
	005	17,2											
	006	21,3											
	008	26,4											
	010	34,1											
	012	37,1											
	014	46,0											
	017	58,3											
	020	63,8											
	022	70,3											
	025	79,3											
	028	88,8										210	160
	031	100,0											
	T7 DCL T7 DDL	B14				44,0	600		2200 ³⁾			1800	250
B17		55,0											
B20		66,0											
B22		70,3											
B24		81,1											
B28		91,0											
B31		99,2											
B35		113,4											
B38		120,6											
B42		137,5											
045 ²⁾		145,7	210	175									
050 ²⁾		158,0	210	160	160								
T7 ECLP T7 EDLP T7 EE T7 EES	042	132,3	600	2200 ³⁾	1800	240	210	210	175	175	140		
	045	142,4											
	050	158,5											
	052	164,8											
	054	171,0											
	057	183,3											
	062	196,7											
	066	213,3											
	072	227,1											
	085	268,7										90	75

HF-0, HF-2 = Anti-wear petroleum base.

HF-1 = Non anti-wear petroleum base.

HF-5 = Synthetic fluids.

HF-3 = Water-in-oil invert emulsions.

HF-4 = Water glycol solutions.

¹⁾ Please consult DENISON Hydraulics for application over 300 bar.²⁾ Ten vane technology.³⁾ Please consult DENISON Hydraulics with higher speeds.

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MINIMUM ALLOWABLE INLET PRESSURE (BAR ABSOLUTE) - GENERAL CATALOG

Cartridges		Speed RPM										Displ.					
Sizes	Displ.	1200	1500	1800	2100	2200	2300	2500	2800	3000	3600						
B	B02	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	B02					
	B03											B03					
	B04											B04					
	B05											B05					
	B06											B06					
	B07											B07					
	B08									0,82	0,98	B08					
	B09											B09					
	B10									0,85	1,05	B10					
	B11											B11					
	B12							B12									
	B14							0,90	1,15	B14							
	B15									B15							
	C							003	0,80	0,80	0,80	0,80	0,80	0,80	0,90	1,00	
005		005															
006		006															
008		008															
010		010															
012		012															
014		0,85	0,92	014													
017				017													
020		0,90	0,95	1,03	020												
022					022												
025		0,90	0,95	0,95	1,05	025											
028						028											
031						031											
D		B14	0,80	0,80	0,80	0,80	0,80	0,80					0,80	0,80	0,80		
	B17	0,82							0,86	B17							
	B20	0,83							0,88	B20							
	B22	0,86							0,95	B22							
	B24	0,88							1,00	B24							
	B28	0,90							1,05	B28							
	B31	0,84							0,97		B31						
	B35										0,86	1,01			B35		
	B38														B38		
	B42														B42		
	045	0,85							0,98	1,05					045		
	050								1,02	1,09					050		
	E	042			0,80	0,80	0,80	0,90	1,00						042		
		045													045		
050		050															
052		052															
054		054															
057		057															
062		062															
066		0,85	0,85	0,95			1,09	066									
072				0,85			1,05	072									
085		0,90	0,90	1,00												085	

Inlet pressure is measured at inlet flange with petroleum base fluids at viscosity between 10 and 65 cSt. The difference between inlet pressure at the pump flange and atmospheric pressure must not exceed 0,2 bar to prevent aeration.

Multiply absolute pressure by 1,25 for HF-3, HF-4 fluids.

by 1,35 for HF-5 fluid.

by 1,10 for ester or rapeseed base.

Use the cartridge with the highest absolute pressure for double and triple pumps.