



DTA

Damen Technical Agencies



Hydraulic Hybrid Pumps T6H29B, T6H29C

Denison Vane Technology, variable and fixed displacement

Hydraulic Pumps

- Hydraulic Motors
- Hydraulic Valves
- Hydraulic Cylinders
- Hydraulic Filtration
- Hydraulic Accumulators



ENGINEERING YOUR SUCCESS.

We are doing our parts to keep you moving!

DTA your 1 Stop Shop for Hydraulics, Pneumatics and Power Transmissions.

DECLARATION OF CONFORMITY

DTA Hydraulics is a tradename of Damen Technical Agencies BV, supplying hydraulic parts to various industries since 1990. As a Certified Distributor Hydraulics by Parker Hannifin and Authorized Denison Vane Pump Assembler, we guarantee the use of original parts and components. As such we provide you with vane pumps of the same level of quality and warranty conditions as the factory does.

We highly recommend to **use genuine Denison Hydraulics spare parts only** in order to ensure smooth operation and longer service life. Spare parts that we have on stock include pump cartridge kits, shaft and bearing assemblies, seal kits and non-wearing parts of both the T6 and T7 series vane pumps.



**ALL VANE PUMPS SUPPLIED OR REPAIRED BY
DTA HYDRAULICS HAVE BEEN ASSEMBLED ACCORDING
TO THE LATEST FACTORY SPECIFICATIONS WITH
BRAND NEW AND GENUINE DENISON HYDRAULICS PARTS**

We are able to provide you a large variety of options of the original Parker Denison single, double, and triple vane pumps. We can build any customized vane pump from our stock of genuine parts. You can now easily configure that vane pump yourself with the Denison Hydraulics Vane Pump Configurator.

vanepump.eu/vanepumps

Use advanced search to filter results based on configurable options and select any of the 25,000 vane pumps that are listed in our online catalogue. Most of the models are available from stock and ready for shipment to any place in the world instantly. We can supply **Any part, Anytime, Anywhere!**



Ordering Code and Characteristics

Model No. T6H29B- B08 - 1 L 1 B - 2 F 0 M 0 - 00 -
T6H29C- *12 - 1 L 1 C - 2 F 0 M 0 - 00 -

Series and capacity P1 (rotating group)
61,9 ml/rev.

Cam ring P2 (Delivery at 0 bar & 1500 r.p.m.)
T6H29B T6H29C
B02 = 8,7 l/min *03 = 16,2 l/min
B03 = 4,7 l/min *05 = 25,8 l/min
B04 = 19,2 l/min *06 = 31,9 l/min
B05 = 23,9 l/min *08 = 39,6 l/min
B06 = 29,7 l/min *10 = 51,1 l/min
B07 = 33,7 l/min *12 = 55,6 l/min
B08 = 37,4 l/min *14 = 69,0 l/min
B10 = 47,7 l/min *17 = 87,4 l/min
B12 = 61,5 l/min *20 = 95,7 l/min
B15 = 75,0 l/min *22 = 105,4 l/min
*25 = 118,9 l/min
*28 = 133,2 l/min
*31 = 150,0 l/min

Type of shaft
1 = keyed (SAE C)
4 = splined (SAE C)

Direct. of rotation (view on shaft end)
R = clockwise
L = counter-clockwise

Seal class
1 = S1 BUNA N
5 = S5 VITON®

Design letter

Modification
Porting combination
Depend on the rotation - See page 26

Variable port

	Dia	Code
P2	1"	0
P2	3/4"	1

Variables flanges connections
4 bolts SAE flange (J518c)
0 = UNC thread
M = metric thread

Control accessories
0 = Maxi flow
9 = 90% maxi flow
8 = 80% maxi flow
7 = 70% maxi flow
6 = 60% maxi flow
5 = 50% maxi flow

Control
C = Compensator
F = RC pilot operated compensator
L = RC pilot operated compensator "load sensing"

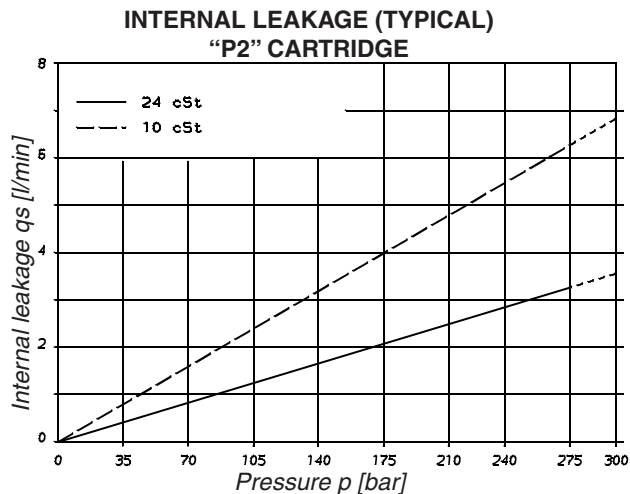
Connection (drain + vent.)
0 = ext. drain + UNF thread
2 = ext. drain + BSPP thread
3 = int. drain + UNF thread
4 = int. drain + BSPP thread

* = 0 = Indust. uni-rotational / B = Indust. bi-rotational / M = Mobile bi-rotational

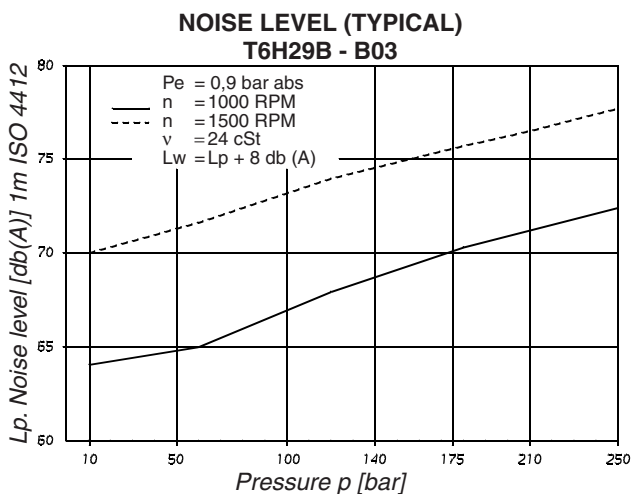
OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Volumetric Displacement Vi	Flow Q [l/min], n = 1500 RPM				Input power P [kW], n = 1500 RPM			
			p = 0 bar	p = 140 bar		p = 300 bar		p = 7 bar	p = 140 bar	p = 300 bar
P2 T6H29B	B02	5,8 ml/rev	8,7	7,0	5,1	0,5	2,6	5,1		
	B03	9,8 ml/rev	14,7	13,0	11,1	0,6	4,0	8,1		
	B04	12,8 ml/rev	19,2	17,5	15,6	0,6	5,0	10,4		
	B05	15,9 ml/rev	23,9	22,2	20,2	0,7	6,1	12,7		
	B06	19,8 ml/rev	29,7	28,0	26,1	0,7	7,5	15,6		
	B07	22,5 ml/rev	33,7	32,0	30,2	0,8	8,5	17,6		
	B08	24,9 ml/rev	37,4	35,7	33,7	0,8	9,3	19,5		
	B10	31,8 ml/rev	47,7	46,0	44,1	0,9	11,7	24,6		
	B12	41,0 ml/rev	61,5	59,8	57,9	1,2	14,9	31,5		
	B15	50,0 ml/rev	75,0	73,3	71,6 ¹⁾	1,3	18,1	35,7 ¹⁾		
			p = 0 bar	p = 140 bar		p = 240 bar		p = 7 bar	p = 140 bar	p = 240 bar
				Indust.	Mobile	Indust.	Mobile			
P2 T6H29C	*03	10,8 ml/rev	16,2	11,2	10,7	7,7	-	1,3	5,3	-
	*05	17,2 ml/rev	25,8	20,8	20,3	17,3	15,8	1,4	7,5	12,2
	*06	21,3 ml/rev	31,9	26,9	26,4	23,4	21,9	1,5	8,9	14,7
	*08	26,4 ml/rev	39,6	34,6	34,1	31,1	29,6	1,6	10,7	17,7
	*10	34,1 ml/rev	51,1	46,1	45,6	42,6	41,1	1,7	13,4	22,3
	*12	37,1 ml/rev	55,6	50,6	50,1	47,1	45,6	1,7	14,4	24,1
	*14	46,0 ml/rev	69,0	64,0	63,5	60,5	59,0	1,9	17,6	29,5
	*17	58,3 ml/rev	87,4	82,4	81,9	78,9	77,4	2,1	21,9	36,9
	*20	63,8 ml/rev	95,7	90,7	90,2	87,2	85,7	2,2	23,8	40,2
	*22	70,3 ml/rev	105,4	100,4	99,9	96,9	95,4	2,3	26,1	44,1
	*25	79,3 ml/rev	118,9	113,9	113,4	110,4	108,9	2,5	29,2	49,5
*28	88,8 ml/rev	133,2	128,2	127,7	125,8 ²⁾	124,5 ²⁾	2,8	32,7	48,5 ²⁾	
*31	100,0 ml/rev	150,0	145,0	144,5	142,6 ²⁾	141,3 ²⁾	2,8	36,5	54,4 ²⁾	

¹⁾ B15 = 280 bar max. int. ²⁾ 028 - 031 = 210 bar max. int.
- Not to use because internal leakage greater than 50% theoretical flow.

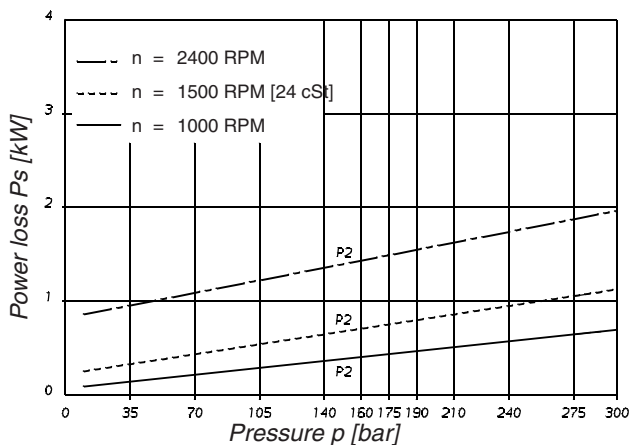


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.

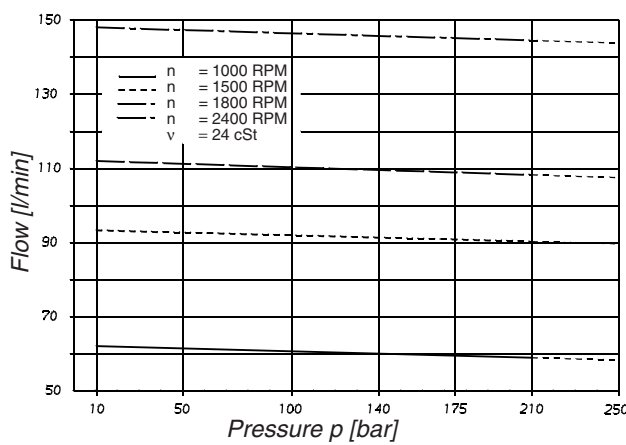


Noise level is given with each cartridge discharging at the pressure noted on the curve (P1 full flow).

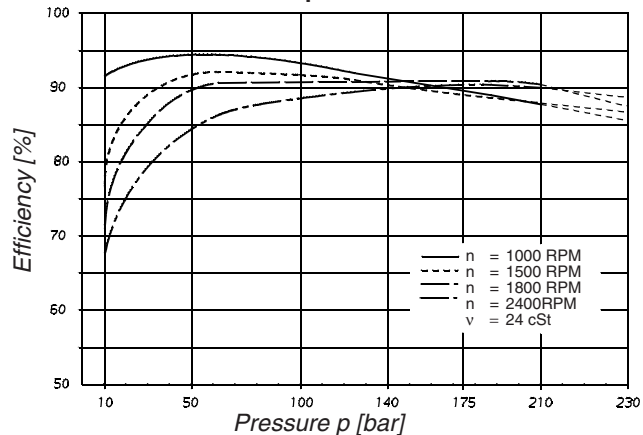
HYDROMECHANICAL POWER LOSS (TYPICAL) "P2" CARTRIDGE



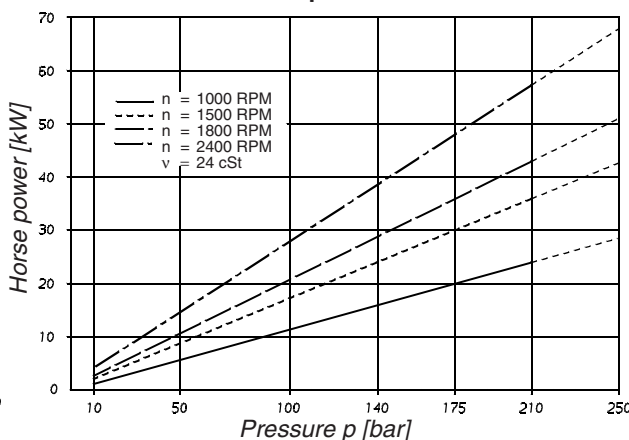
OUTLET FLOW "P1" CARTRIDGE

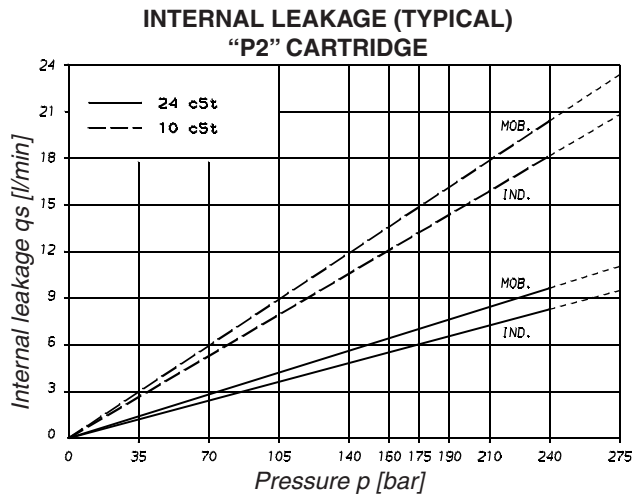


OVERALL EFFICIENCY - "P1" CARTRIDGE Full displacement

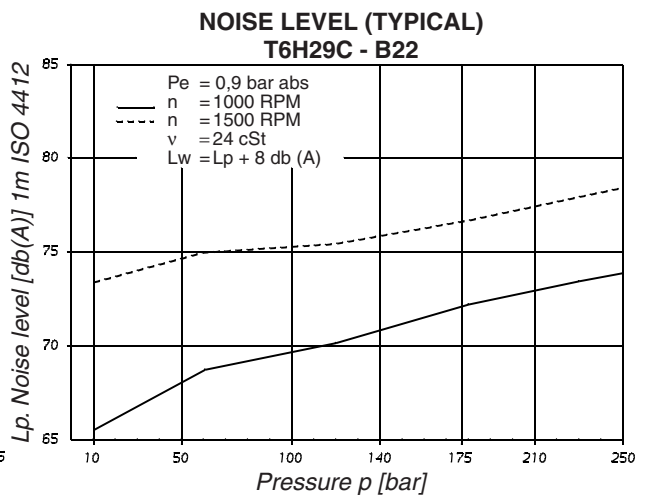


INPUT HORSEPOWER - "P1" CARTRIDGE Full displacement

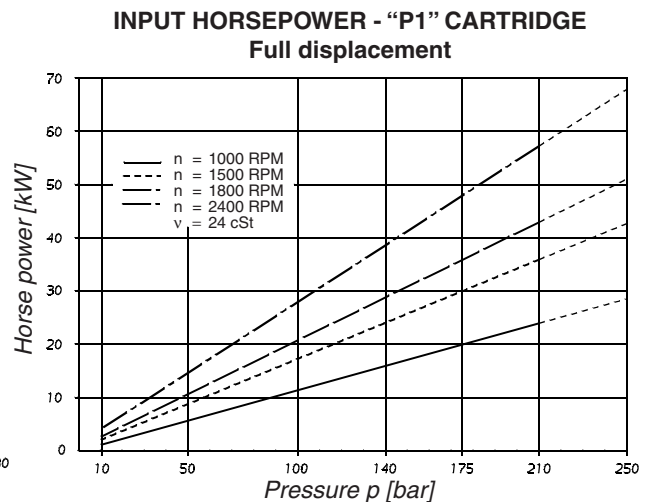
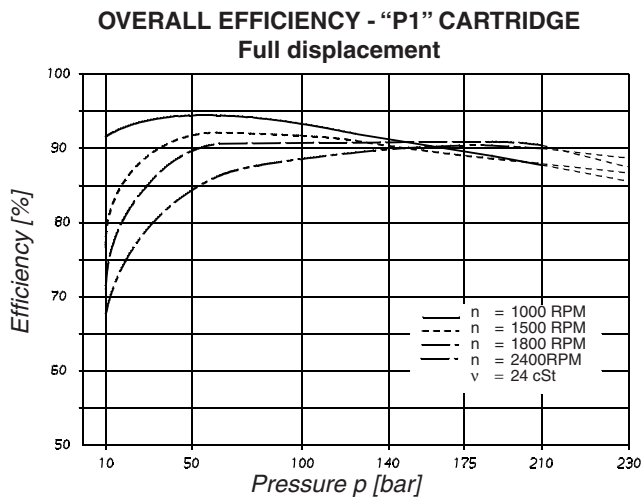
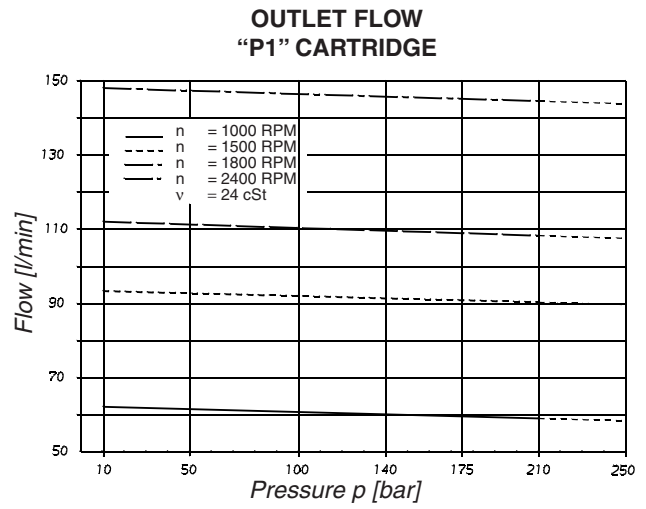
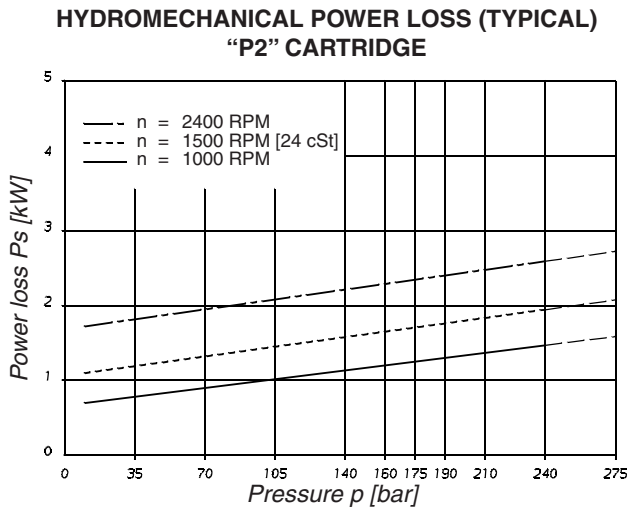




Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.



Noise level is given with each cartridge discharging at the pressure noted on the curve (P1 full flow).





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ANY PART TIME WHERE

we are doing our parts to keep you moving!

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