



# DTA

Damen Technical Agencies



## Hydraulic Hybrid Pumps T6H29DB

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](http://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!**



Model No. T6H29DB - 042 B10 - 1 L 1 B - 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.)  
014 = 71,4 l/min  
017 = 87,3 l/min  
020 = 99,0 l/min  
024 = 119,3 l/min  
028 = 134,5 l/min  
031 = 147,4 l/min  
035 = 166,5 l/min  
038 = 180,4 l/min  
042 = 204,0 l/min  
045 = 218,5 l/min  
050 = 237,0 l/min

**Cam ring P3**  
(Delivery at 0 bar & 1500 r.p.m.)  
B02 = 8,7 l/min  
B03 = 14,7 l/min  
B04 = 19,2 l/min  
B05 = 23,9 l/min  
B06 = 29,7 l/min  
B07 = 33,7 l/min  
B08 = 37,4 l/min  
B10 = 47,7 l/min  
B12 = 61,5 l/min  
B15 = 75,0 l/min

**Type of shaft**  
1 = keyed (SAE C)  
3 = splined (SAE C)

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

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

**Modification**

**Porting combination**  
Depend on the rotation - See page 27

**Variable port**

	Dia	Code
P2	1"	0
P3	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

**Design letter**

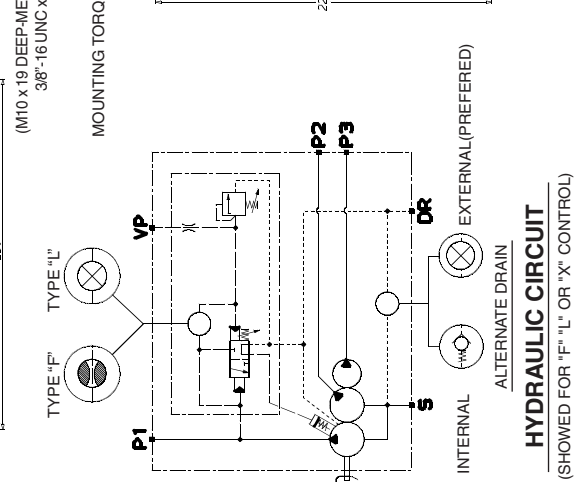
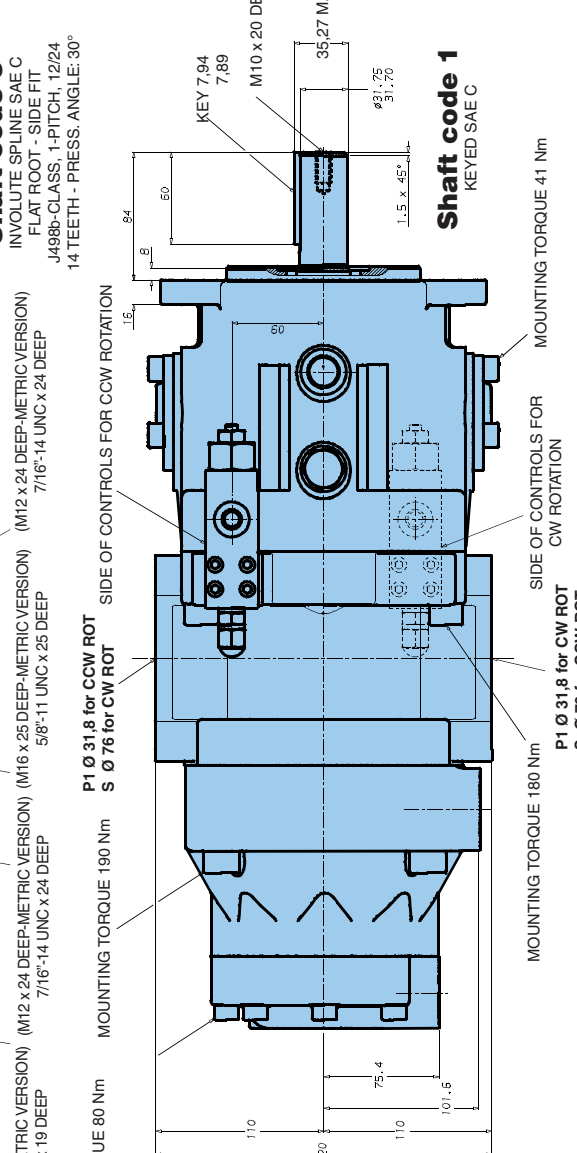
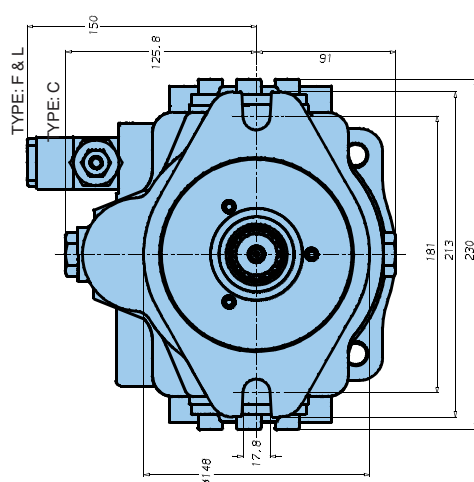
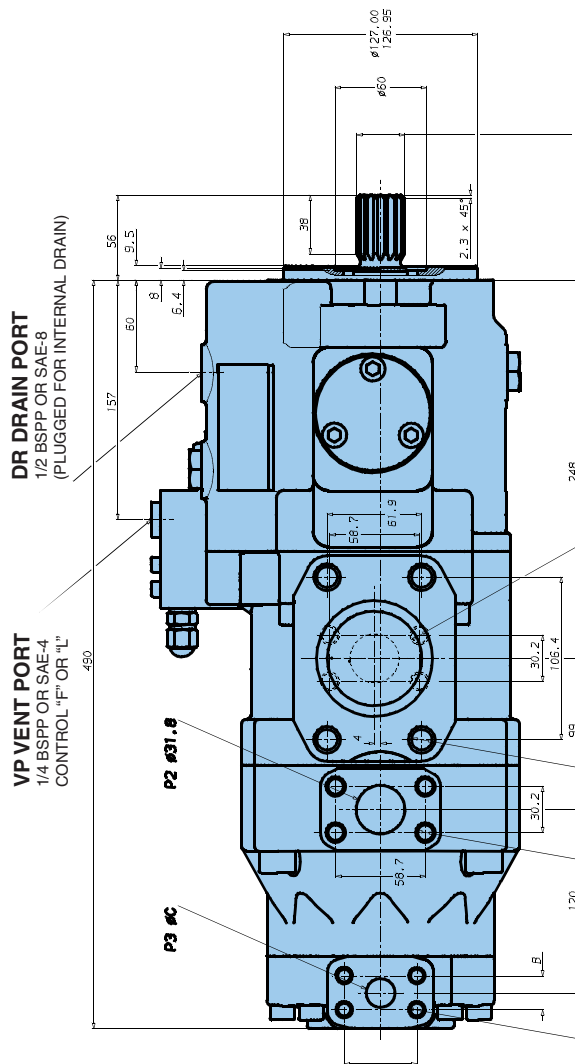
**OPERATING CHARACTERISTICS - TYPICAL [24 cSt]**

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 = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar
P2	014	47,6 ml/rev	71,4	62,1	55,9	2,3	18,5	30,6
	017	58,2 ml/rev	87,3	78,0	71,8	2,5	22,2	37,0
	020	66,0 ml/rev	99,0	89,7	83,5	2,8	24,9	41,7
	024	79,5 ml/rev	119,3	110,0	103,8	3,0	29,6	49,8
	028	89,7 ml/rev	134,5	125,2	119,0	3,2	33,2	55,9
	031	98,3 ml/rev	147,4	138,1	131,9	3,3	36,2	61,0
	035	111,0 ml/rev	166,5	157,2	151,0	3,5	40,7	68,7
	038	120,3 ml/rev	180,4	171,1	164,9	3,7	43,9	74,3
	042 <sup>1)</sup>	136,0 ml/rev	204,0	194,7	188,5	4,0	49,4	83,7
	045 <sup>1)</sup>	145,7 ml/rev	218,5	209,2	203,0	4,1	52,8	89,5
050 <sup>1)</sup>	158,0 ml/rev	237,0	227,7	224,0 <sup>2)</sup>	4,4	57,0	85,0 <sup>2)</sup>	
			p = 0 bar	p = 140 bar	p = 300 bar	p = 7 bar	p = 140 bar	p = 300 bar
P3	B02	5,8 ml/rev	8,7	7,0	5,1	0,5	2,6	5,1
	B03	17,2 ml/rev	14,7	13,0	11,1	0,6	4,0	8,1
	B04	21,3 ml/rev	19,2	17,5	15,6	0,6	5,0	10,4
	B05	26,4 ml/rev	23,9	22,2	20,2	0,7	6,1	12,7
	B06	34,1 ml/rev	29,7	28,0	26,1	0,7	7,5	15,6
	B07	37,1 ml/rev	33,7	32,0	30,2	0,8	8,5	17,6
	B08	46,0 ml/rev	37,4	35,7	33,7	0,8	9,3	19,5
	B10	58,3 ml/rev	47,7	46,0	44,1	0,9	11,7	24,6
	B12	63,8 ml/rev	61,5	59,8	57,9	1,2	14,9	31,5
	B15	70,3 ml/rev	75,0	73,3	71,6 <sup>3)</sup>	1,3	18,1	35,7 <sup>3)</sup>

<sup>1)</sup> 042 - 045 - 050 = max. 2200 RPM

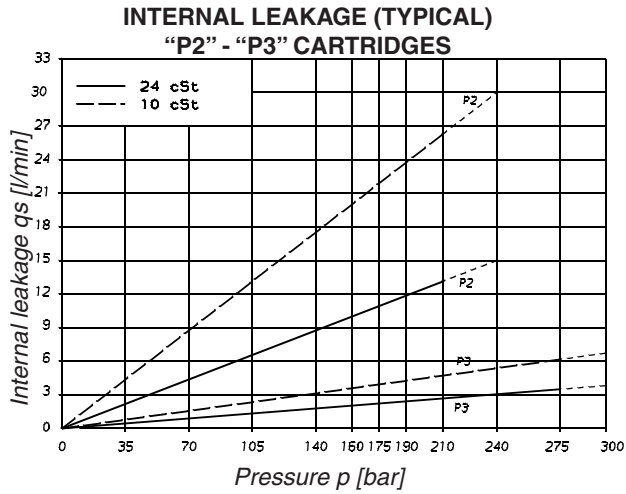
<sup>2)</sup> 050 = 210 bar max. int.

<sup>3)</sup> B15 = 280 bar max. int.

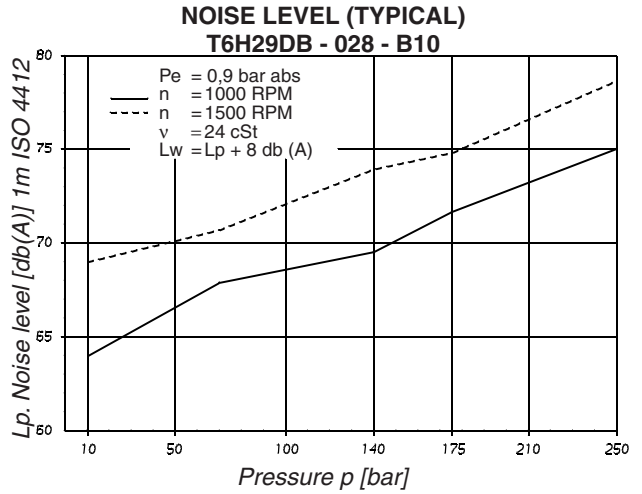


Variable port				
Port	Code	A	B	Ø C
P2	0	52,4	26,2	25,4
P2	1	47,7	22,4	19,0

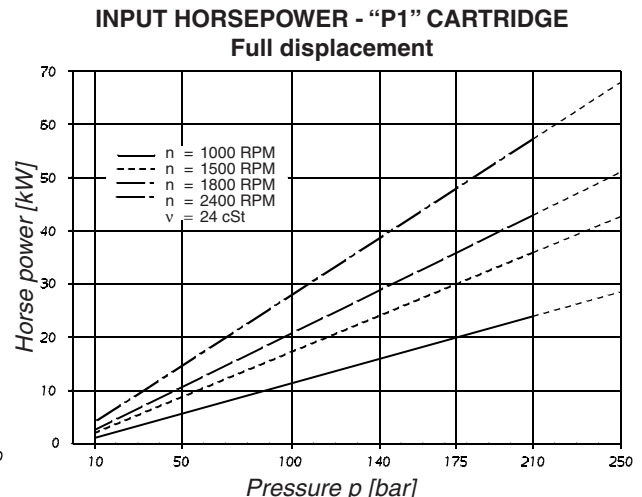
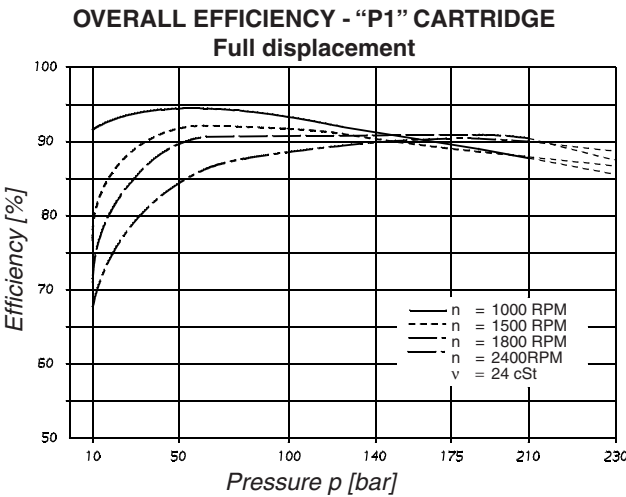
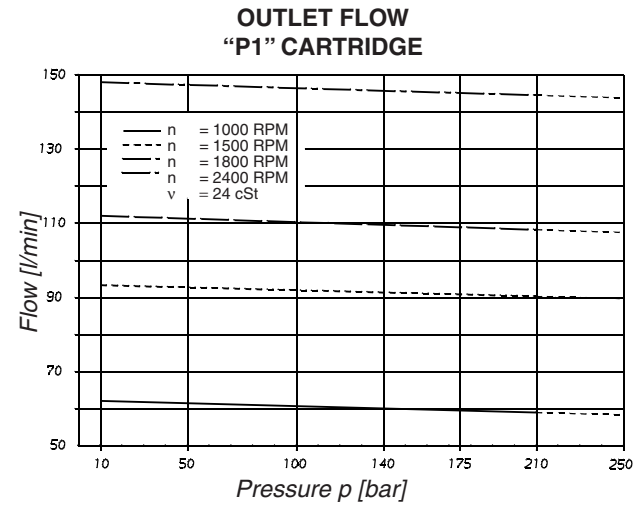
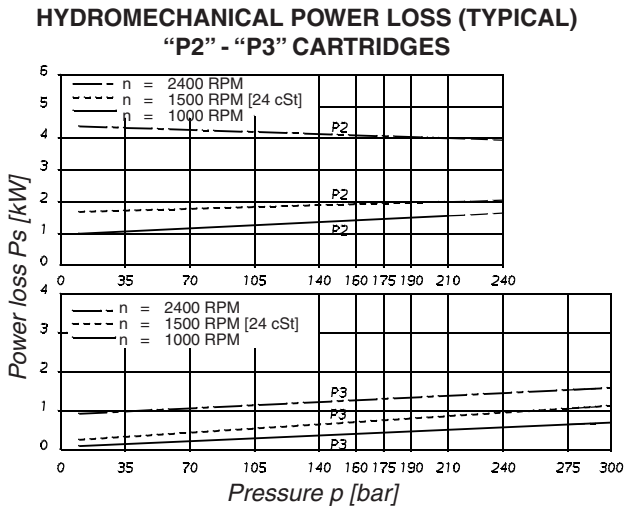
Shaft torque limits [ml/rev. x bar]	
Shaft	Vi x p max. (P1+P2+P3)
1	52480



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).







# DTA

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# ANY PART TIME WHERE

we are doing our parts to keep you moving!

**Damen Technical Agencies B.V.**

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