DTA
Damen Technical Agencies

Industrial Hydraulic Pumps T6C

Denison Vane Technology, fixed displacement

Hydraulic Pumps
Hydraulic Motors
Hydraulic Valves
Hydraulic Cylinders
Hydraulic Filtration
Hydraulic Accumalators

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DECLARATION OF CONFORMITY

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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.

Certificate

This is to certify that company :

Damen Technical Agencies BV
Prins Willemstraat 10
NL 4791 JR Klundert - The Netherlands

Has been qualified as :
"Authorized Denison Vane Pumps Assembler"

Initial certification date : 07 2015
This renewal is valid until : 12 2017

Parker Hannifin Manufacturing France SAS
Hydraulics Group
Vane Pump Division Europe
14 route du Bois Blanc - CS 50601
FR - 18106 Vierzon - France
Tel. : +33 2 48 53 01 20

Hubert D'Hollander
Sales & Product Support Manager

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Model No. **T6C* - 022 - 1 R 00 - B 1 - ..**

Series - SAE B 2 bolts
J744 mounting flange
* Rear drive option available, please contact Parker

Displacement
Volumetric displacement (ml/rev.)

003 = 10,8	017 = 58,3
005 = 17,2	020 = 63,8
006 = 21,3	022 = 70,3
008 = 26,4	025 = 79,3
010 = 34,1	028 = 88,8
012 = 37,1	031 = 100,0
014 = 46,0	

Type of shaft
1 = keyed (SAE B) Ø 22,2
2 = keyed (non SAE)
3 = splined (SAE B) 13 teeth
4 = splined (SAE BB) 15 teeth

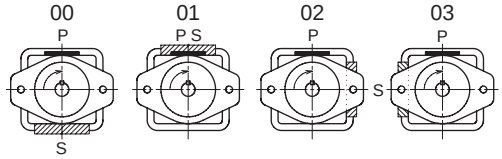
Modifications

Seal class
1 = S1 BUNA N - 0,7 bar max. (for mineral oil)
4 = S4 EPDM - 7 bar max. (for fire resistant fluids)
5 = S5 VITON® - 7 bar max. (for mineral oil and fire resistant fluids)

Design letter

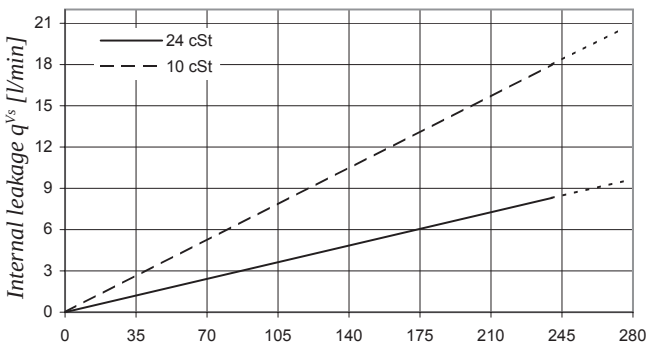
Porting combination
00 = standard

Direction of rotation (shaft end view)
R = Clockwise
L = Counter-clockwise



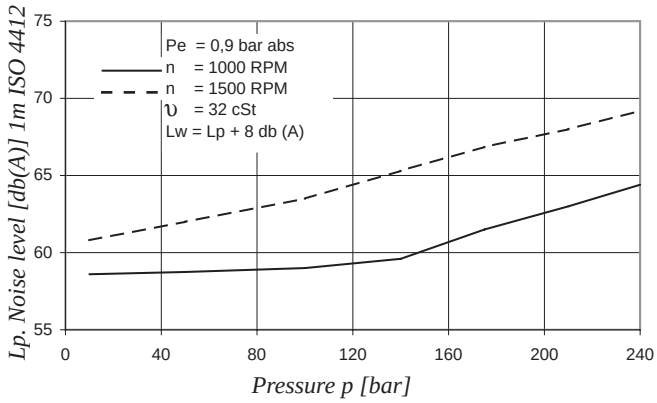
P = Pressure port
S = Suction port

INTERNAL LEAKAGE (TYPICAL)

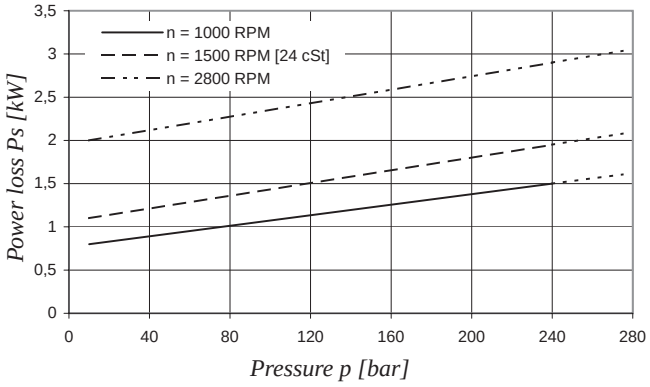


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.

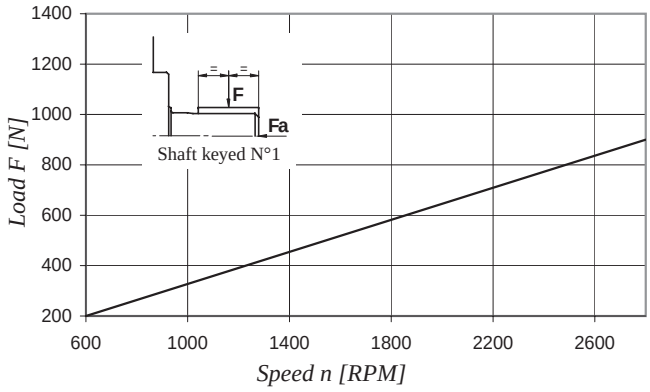
NOISE LEVEL (TYPICAL) - T6C - 022



POWER LOSS HYDROMECHANICAL (TYPICAL)

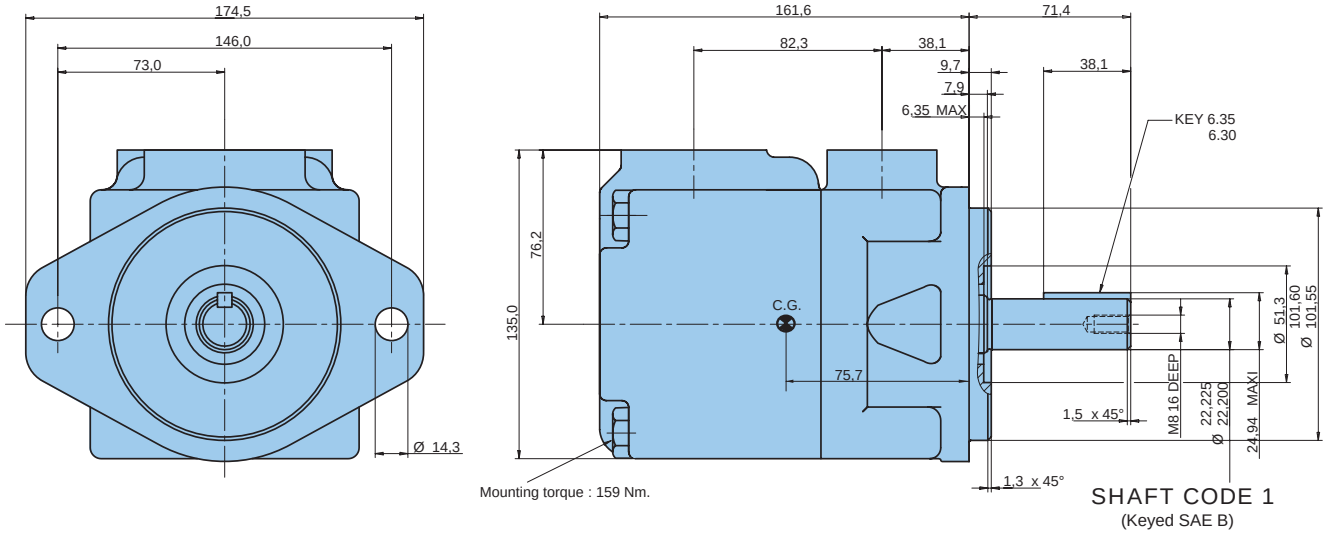


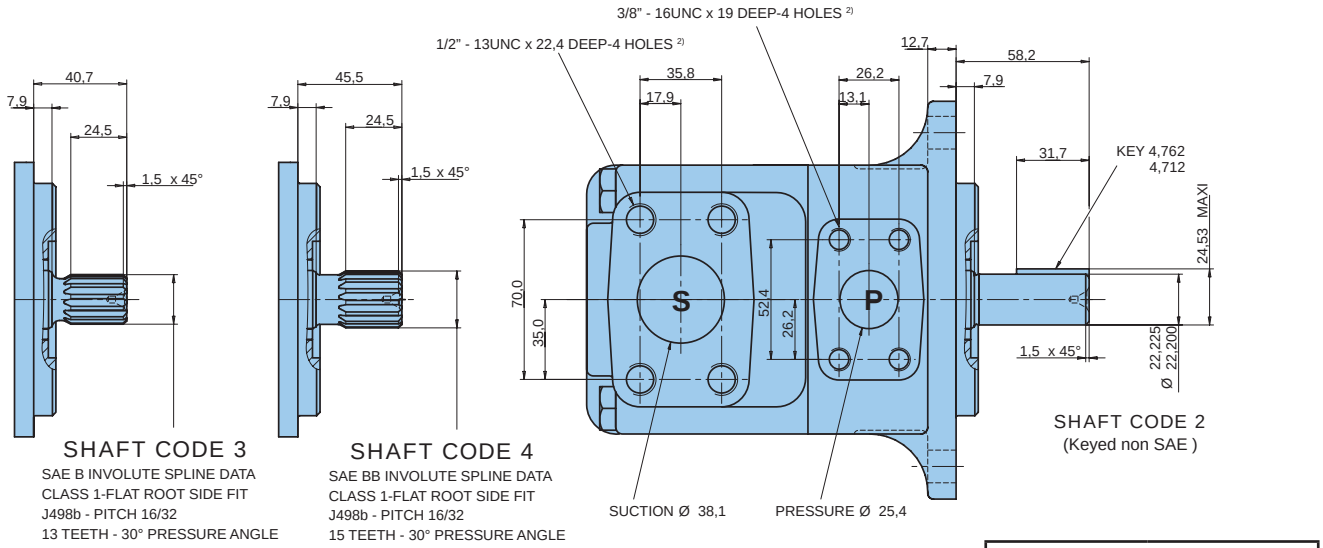
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N

Parker Hannifin SAS
VPDE, Denison Vane Pumps
Vierzon - France





Shaft torque limits [ml/rev. x bar]	
Shaft	**Vi x p max.**
1	16340
2	14300
3	20600
4	21800

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Vi Volumetric displacement	Flow q_{ve} [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
T6C	003	10,8 ml/rev	16,2	11,2	7,7	1,3	5,3	8,4
	005	17,2 ml/rev	25,8	20,8	17,3	1,4	7,5	12,2
	006	21,3 ml/rev	31,9	26,9	23,4	1,5	8,9	14,7
	008	26,4 ml/rev	39,6	34,6	31,1	1,6	10,7	17,7
	010	34,1 ml/rev	51,1	46,1	42,6	1,7	13,4	22,3
	012	37,1 ml/rev	55,6	50,6	47,1	1,7	14,4	24,1
	014	46,0 ml/rev	69,0	64,0	60,5	1,9	17,6	29,5
	017	58,3 ml/rev	87,4	82,4	78,9	2,1	21,9	36,9
	020	63,8 ml/rev	95,7	90,7	87,2	2,2	23,8	40,2
	022	70,3 ml/rev	105,4	100,4	96,9	2,3	26,1	44,1
	025	79,3 ml/rev	118,9	113,9	110,4	2,5	29,2	49,5
	028	88,8 ml/rev	133,2	128,2	125,8[1)]	2,8	32,7	48,5[1)]
	031	100,0 ml/rev	150,0	145,0	142,6[1)]	2,8	36,5	54,4[1)]

[1)] *028 - 031 = 210 bar max. int.*

[2)] *Port connection can be supplied with metric threads (Please contact Parker).*

Parker Hannifin SAS
VPDE, Denison Vane Pumps
Vierzon - France

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Model No. **T6D - 045 - 1 R 00 - B 1**

Series

Cam ring
(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

Type of shaft
1 = keyed (SAE C)
2 = keyed (no SAE)
3 = splined (SAE C)
4 = splined (no SAE)

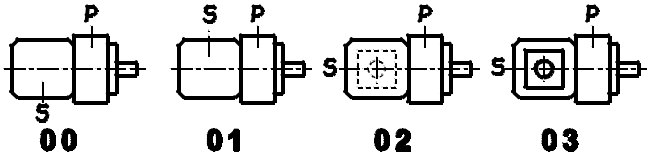
Modification

Seal class
1 = S1 (for mineral oil)
4 = S4 (for resistant fluids)
5 = S5 (for mineral oil and fire resistant fluids)

Design letter

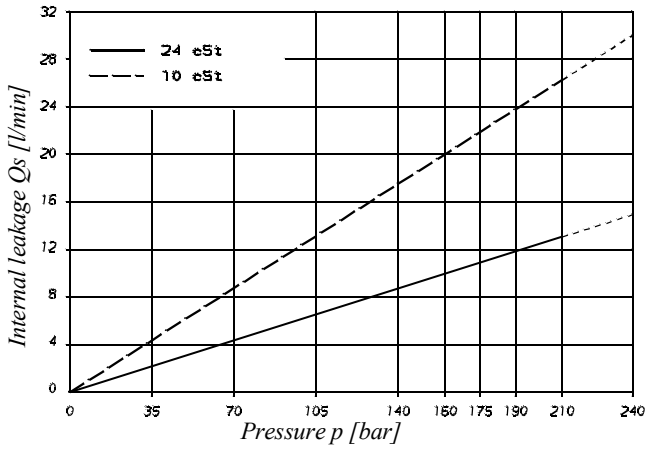
Porting combination
00 = standard

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

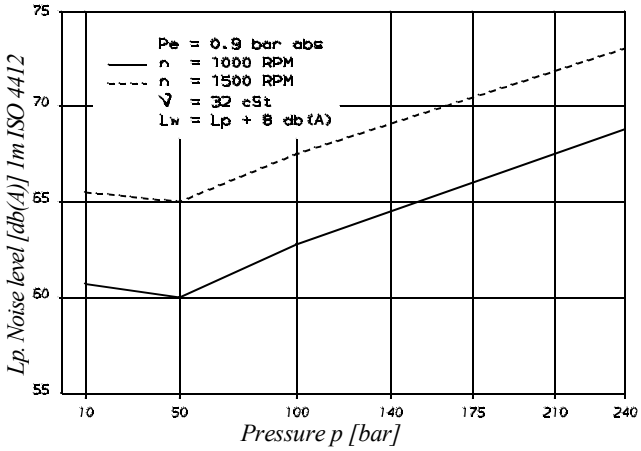


P = Pressure port
S = Suction port

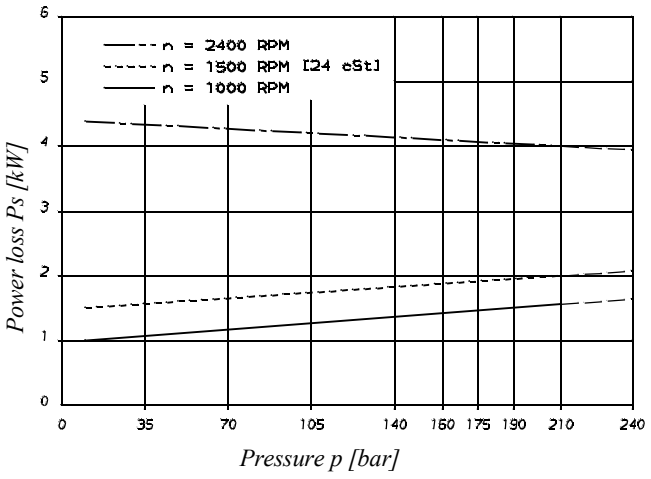
INTERNAL LEAKAGE (TYPICAL)



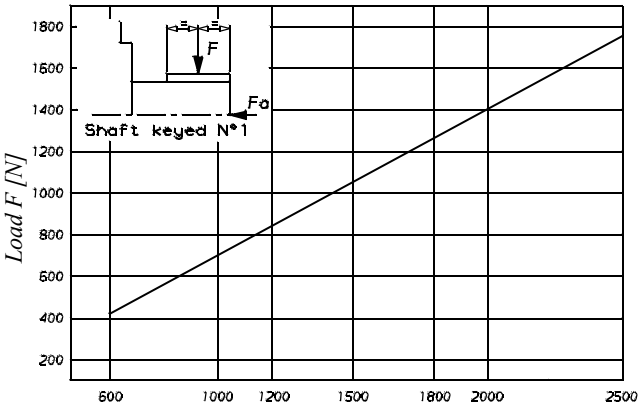
NOISE LEVEL (TYPICAL)
T6D - 038



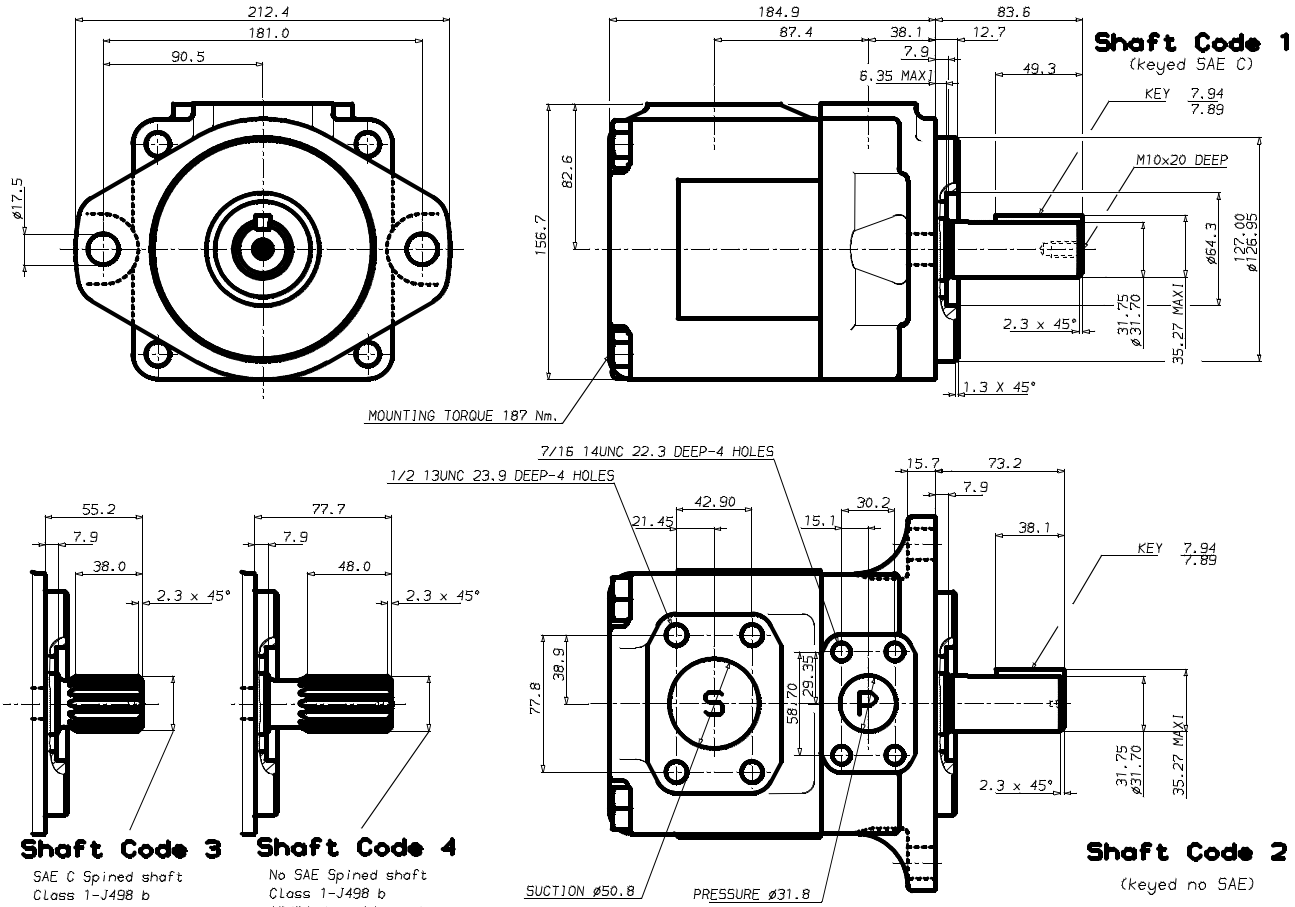
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



Shaft torque limits [ml/rev x bar]		
Pump	**Shaft**	**V x p max.**
T6D	2	34590

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vi	Speed n [R.P.M.]	Flow qve [l/min]			Input power P [kW]		
			p = 0 bar	p = 140 bar	p = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar
014	47,6 ml/rev	1000 1500	47,6 71,4	38,3 62,1	32,1 55,9	1,5 2,3	12,5 18,5	20,7 30,6
017	58,2 ml/rev	1000 1500	 87,3	 78,0	 71,8	 2,5	 22,2	 37,0
020	66,0 ml/rev	1000 1500	66,0 99,0	56,7 89,7	50,5 83,5	1,7 2,8	16,8 24,9	28,0 41,7
024	79,5 ml/rev	1000 1500	79,5 119,3	70,2 110,0	64,0 103,8	1,9 3,0	19,9 29,6	33,4 49,8
028	89,7 ml/rev	1000 1500	89,7 134,5	80,4 125,2	74,2 119,0	2,0 3,2	22,3 33,2	37,5 55,9
031	98,3 ml/rev	1000 1500	98,3 147,4	89,0 138,1	82,8 131,9	2,1 3,3	24,3 36,2	40,9 61,0
035	111,0 ml/rev	1000 1500	111,0 166,5	101,7 157,2	95,5 151,0	2,3 3,5	27,3 40,7	46,0 68,7
038	120,3 ml/rev	1000 1500	120,3 180,4	111,0 171,1	104,8 164,9	2,4 3,7	29,4 43,9	49,8 74,3
042[1)]	136,0 ml/rev	1000 1500	136,0 204,0	126,7 194,7	120,5 188,5	2,6 4,0	33,1 49,4	56,0 83,7
045[1)]	145,7 ml/rev	1000 1500	145,7 218,5	136,4 209,2	130,2 203,0	2,7 4,1	35,3 52,8	59,9 89,5
050[1)]	158,0 ml/rev	1000 1500	158,0 237,0	148,7 227,7	145,0[2)] 224,0[2)]	2,8 4,4	38,2 57,0	56,8[2)] 85,0[2)]

1) 042 - 045 - 050 = 2200 R.P.M. max. *2) 050 = 210 bar max. int.* *Port connection can be furnished with metric threads.*

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