VANE MOTORS

MHP & MD4C

VANE MOTORS CODE

F3	MHP	2	10	D	1	A
1	2	3	4	5	6	7

1 - "F3" means special seals for fire-resistant fluids. Omit if not required

2 - Motor Type:

MHP = 10 vanes motor, mobile and industrial use, metric threads.

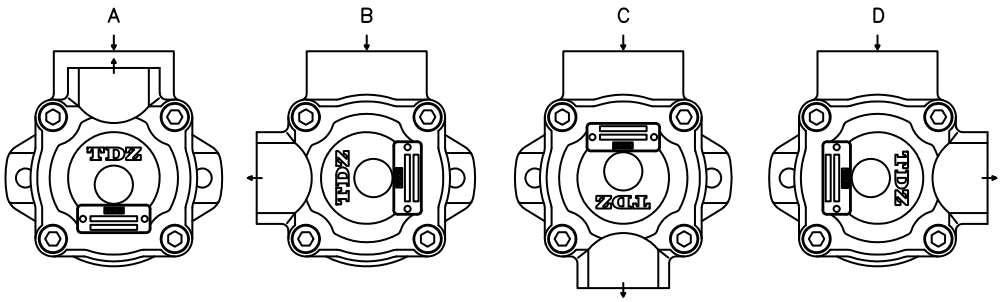
3 - Motor Model:
Models 2

4 - Flow: In litres per minute at 1000 rpm and 7 bar.

5 - D = Right-hand direction of rotation, (Clockwise)
Y = Left-hand direction of rotatio, (Counterclockwise)
(To check the direction of rotation view from the shaft end).

6 - Shaft type: See on each motor model information.

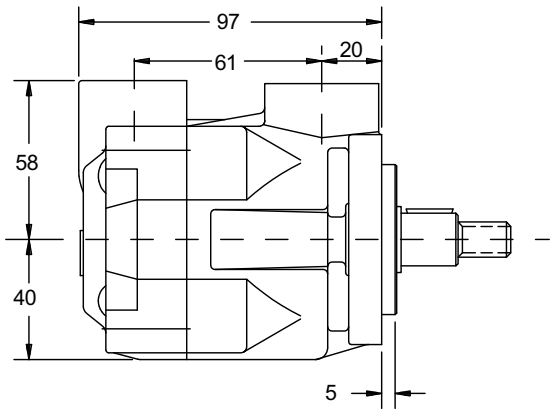
7 - Oulet position (Viewed from shaft):
A: Outlet in line with inlet
B: 90° clockwise from inlet
C: 180° from inlet
D: 90° counterclockwise from inlet

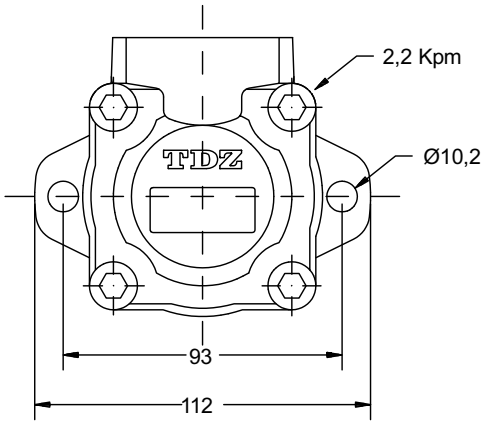


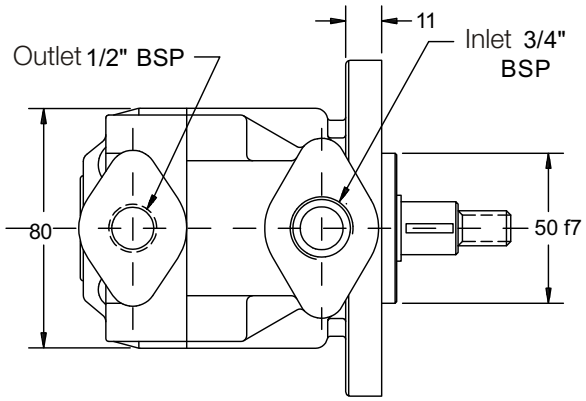
MHP VANE MOTORS

FLOW						SPEED (rpm) (3)			PRES (BAR)		CONNECTION		WEIGHT
Lts.at 1000 rpm	7	8	10	12	15	Mín.	Max. Contin	Máx. Intermit.	Contin.	Interm.	Entrada	Salida	(Kgs.)
Gal. At 1200 rpm	2,2	2,5	3,2	3,8	4,7								
Torque (N.m) (1)	11	13	16	19	24	300	3000	3500	150	175	1/2" BSP	1/2" BSP	3,6
No.m Powerl(CV)(2)	1.5	1.7	2.1	2.5	3.1								

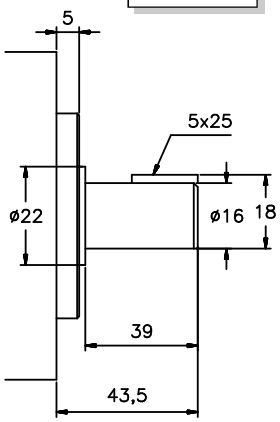
(1) Theoretical Torque in N.m at 100 Bar.
(2) Nominal Power in H.P. at 100 Bar and 1000 r.p.m.
(3) For pressures lower of 100 bar, the maximum speed can increase until 20%
Flow and power diagrams, see corresponding pump



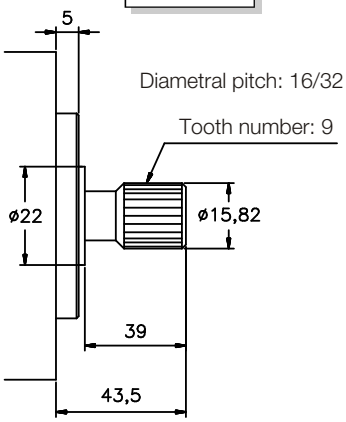




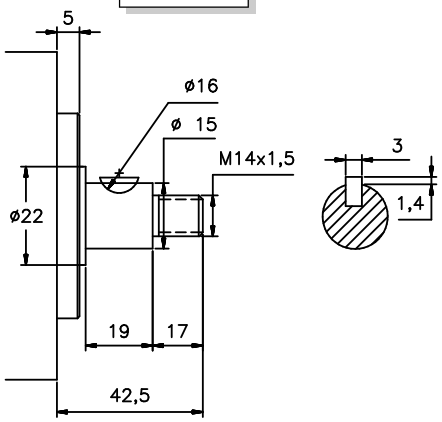
Nº1 Shaft



Nº2 Shaft



Nº3 Shaft



Enquire about other types of shafts

MOTORS

MD4C - ORDERING CODE & OPERATING CHARACTERISTICS

MD4C 075 1 N 00 C 1 02 ..

Series e ternal drain

Nominal flow (nominal torque)

024	(0,39 Nm/bar)
027	(0,45 Nm/bar)
031	(0,55 Nm/bar)
043	(0,74 Nm/bar)
055	(0,93 Nm/bar)
067	(1,13 Nm/bar)
075	(1,27 Nm/bar)
100	(1,56 Nm/bar)

Type of shaft

1= Keyed (SAE B)
2= Keyed (no SAE)
3= Splined (SAE B)
9= Special (non SAE)

Rotation

N = Bi-direccional

View from shaft end:

CW Rotation: A= INLET B= OUTLET

CCW Rotation: A= OUTLET B= INLET

Modification

Port connections

01 = Threaded Port
1" 5/16 UNF
9/16"-18 UNF Drain

02 = 4 Bolt Flange
3/8''-16 UNC Threaded
9/16"-18 UNF Drain

03 = Threaded Port 3/4'' BSP
3/8" BSP Drain

04 = 4 Bolt Flange
3/8-16 UNC Threaded
3/8'' BSP Drain

M4 = 4 Bolt Flange
Metric Threaded M10x20
3/8'' BSP Drain

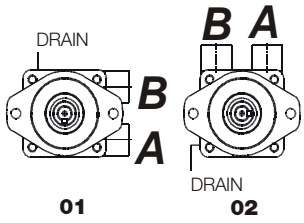
Seal Class

1 = NBR 5= Viton

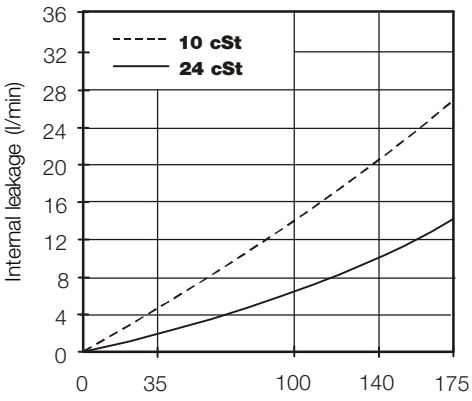
Desin letter

Portin combination

01 = Side ports (right/left)
02 = Side ports (up/down)



INTERNAL LEAKAGE

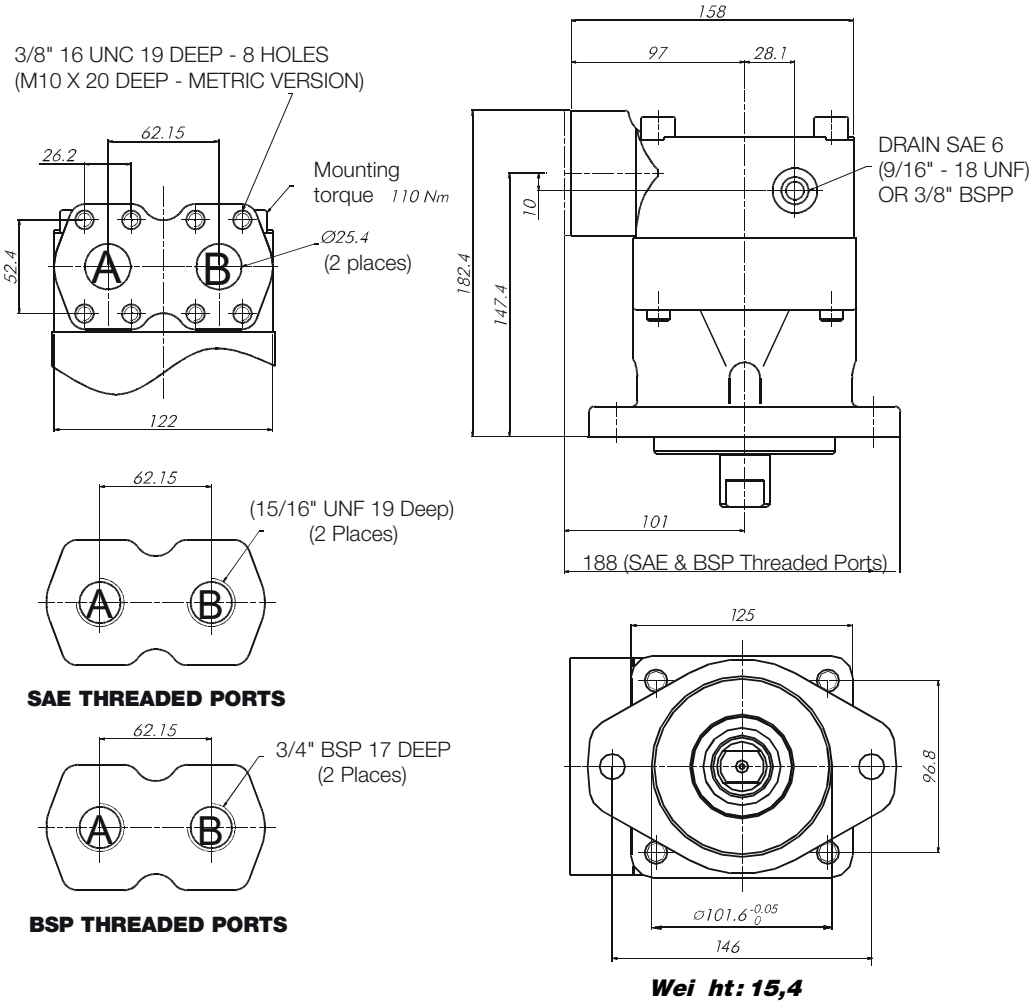


OPERATING CHARATERISTICS (24 cSt)

Model	Volumetric displacement (Vi)	Input flow at n = 2000 RPM		Torque T At n = 2000 RPM	Poweroutput At n = 2000RPM
		Teórico	a 175 bar p	a 175 bar p	a 175 bar p
	cc rev	l min	l min	Nm	W
MD4C-024	24.4	49.0	63.0	60.5	12.7
MD4C-027	28.2	56.0	70.0	70.0	14.7
MD4C-031	34.5	69.0	83.0	86.8	18.0
MD4C-043	45.5	93.0	107.0	120.0	25.1
MD4C-055	58.8	118.0	132.0	149.0	31.2
MD4C-067	71.1	142.0	156.0	170.0	35.6
MD4C-075	80.1	160.0	174.0	198.0	41.5
MD4C-100	100.0	200	217.5	247.5	51.2

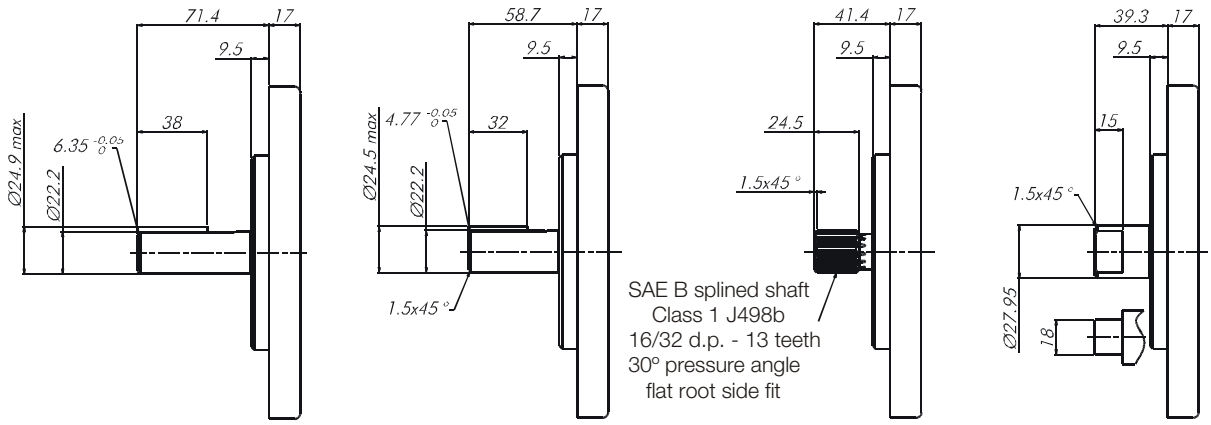
DIMENSIONS, SHAFTS & PORT CONNECTIONS - MD4C

PORT CONNECTIONS



Wei ht: 15,4

SHAFT TYPE

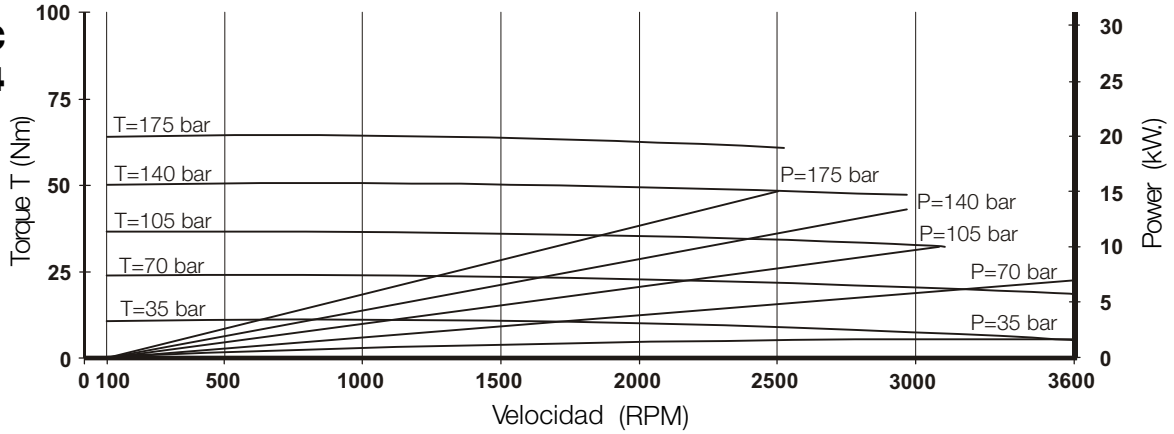


SHAFT CODE 1 **SHAFT CODE 2** **SHAFT CODE 3** **SHAFT CODE**

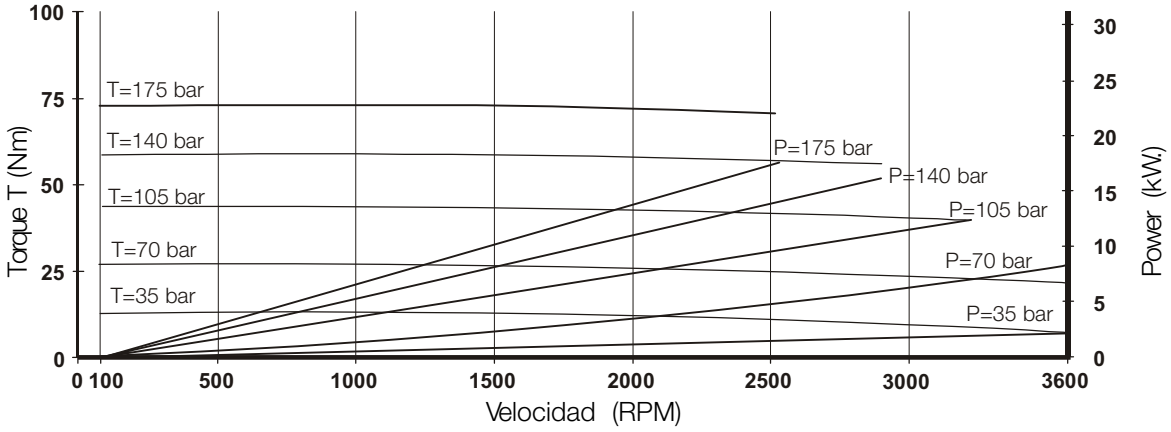
Enquire about other types of shafts

PERFORMANCE C RVES - OIL VISCOSITY : 24 CST (45º) - MD4C

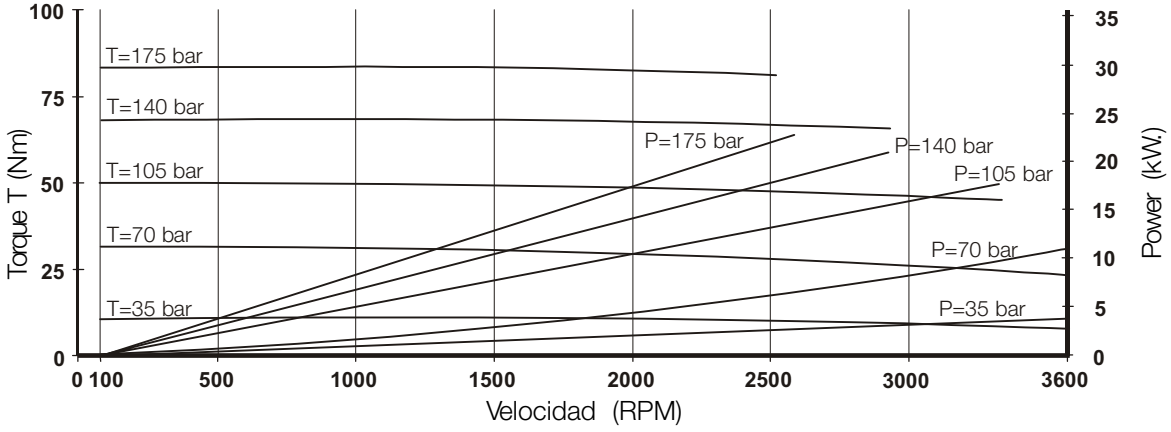
MD4C 024



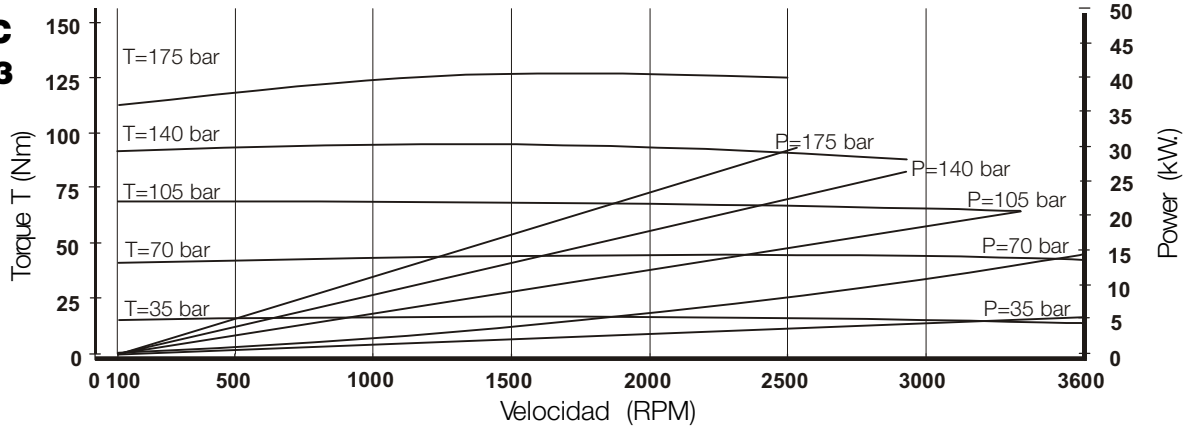
MD4C 027



MD4C 031



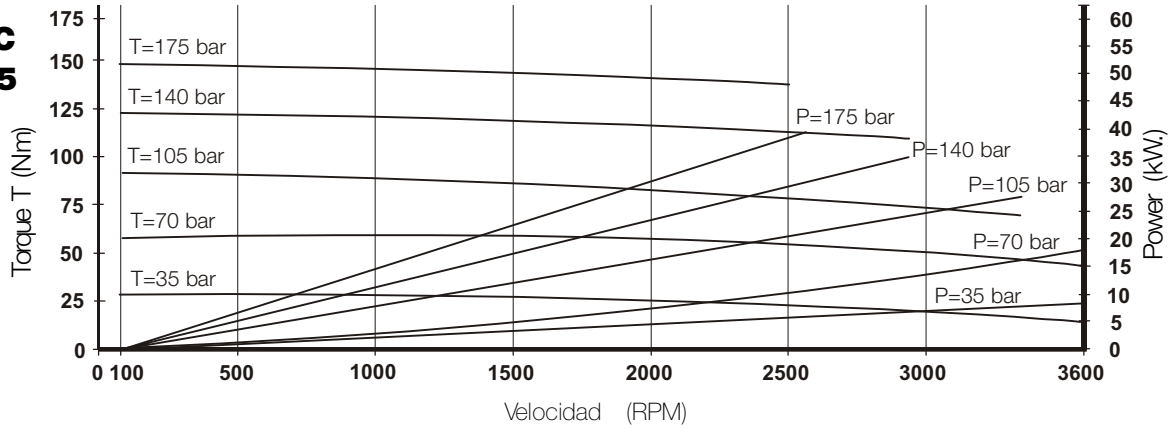
MD4C 043



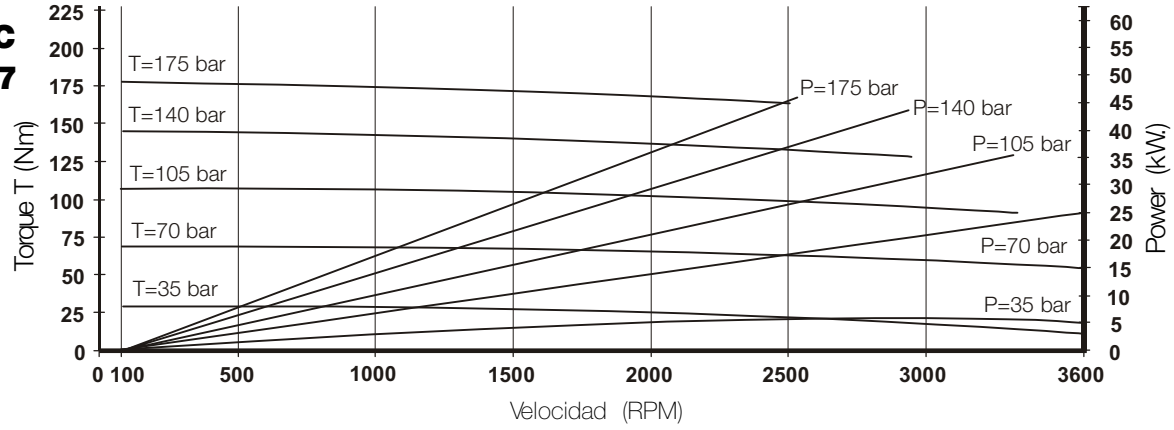
hydraulics

PERFORMANCE C RVES - OIL VISCOSITY : 24 CST (45º) - MD4C

MD4C 055



MD4C 067



MD4C 075