

Hydraulic Motors M5* Series

Denison Vane Technology, fixed displacement



ENGINEERING YOUR SUCCESS.

Ordering code

M5AS model description

Model No. M5AS - 018 - 1 R 12 - A 1 W - 0 0 M 28

M5AS series _____
SAE A 2-bolts mounting flange J744

Cam ring _____
Volumetric displacement (ml/rev)
006 = 6,3 018 = 18,0
010 = 10,0 023 = 23,0
012 = 12,5 025 = 25,0
016 = 16,0

Type of shaft M5AS _____
1 = Taper (SAE B)
2 = Keyed (SAE B)
5 = Taper 1/5
6 = Keyed (ISO G20N)

Direction of rotation (shaft end view) _____
R = Clockwise (with anti-cavitation check valve)
L = Counter-clockwise (with anti-cavitation check valve)
N = Bi-rotational (without any anti-cavitation check valve)

End cap type (See table) _____
Motor with opposite ports : 01, 02, 03, 04 (not combinable with a motor having the reverse valve option)
Motor with side ports : 11, 12, 13, 14
Motor with rear ports : 21, 22, 23, 24 (only combinable with a bi-rotational motor)

Design letter _____

Max pressure setting value
00 = For motor without pressure valve
21 = Valve set at 210 bar
28 = Valve set at 280 bar
** Customised value (please consult Parker)

Pressure valve type
0 = Without pressure valve
P = Proportional valve
M = Mechanical valve

Option
0 = No option
R = Reverse valve

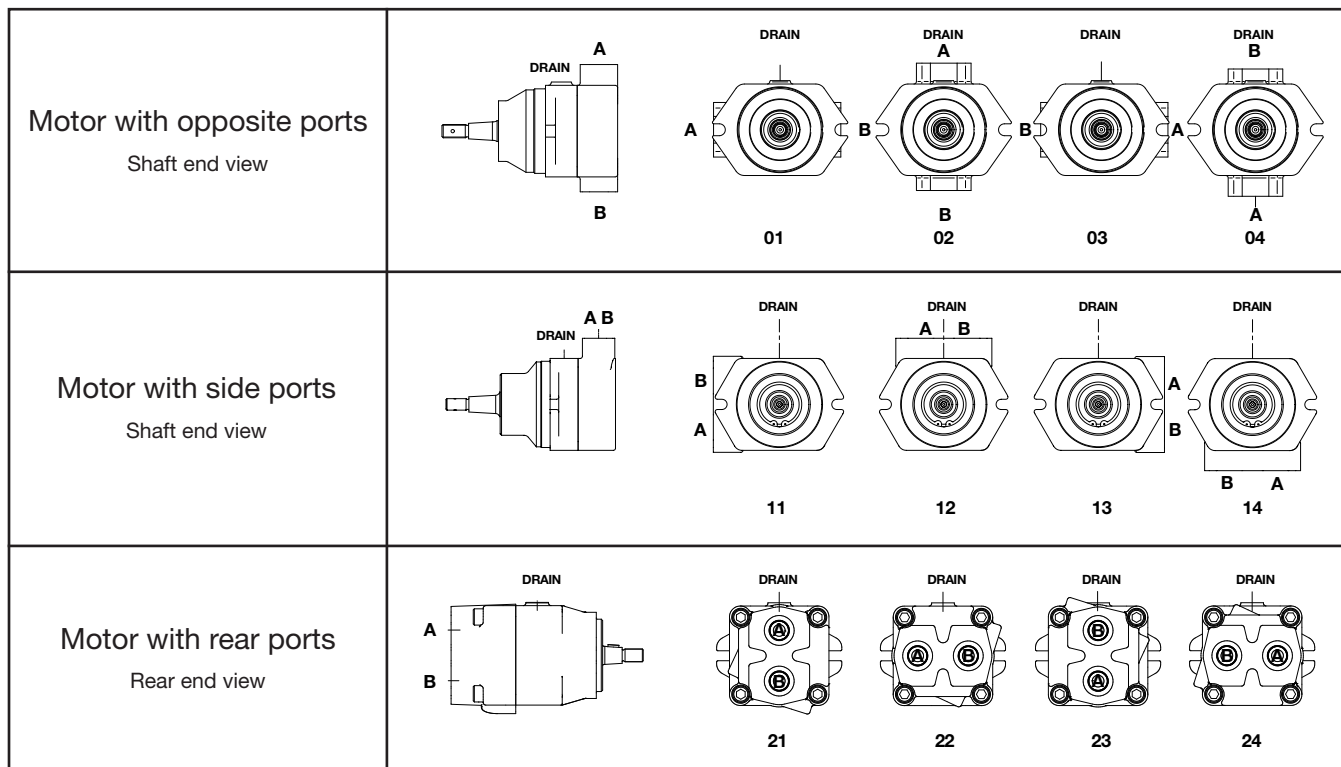
Connection variables

M5AS bi-rotational series		
Code	A & B ports	Drain port
W	UNF threaded port SAE 12	UNF threaded port SAE 6
Z	3/4" BSPP threaded port	1/4" BSPP threaded port

M5AS uni-rotational series and reverse valve option			
Code	A port	B port	Drain port
W	UNF threaded port SAE 10	UNF threaded port SAE 12	UNF threaded port SAE 6
Z	1/2" BSPP threaded port	3/4" BSPP threaded port	1/4" BSPP threaded port

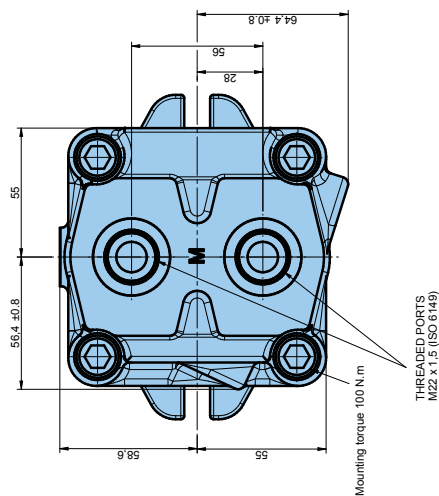
Seal class
1 = S1 BUNA N
5 = S5 - VITON®

Position of the ports (Rotation way see page 21)

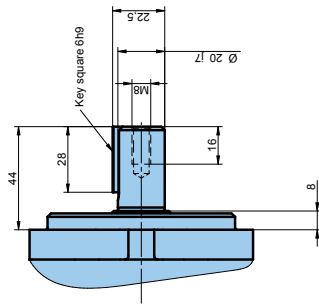
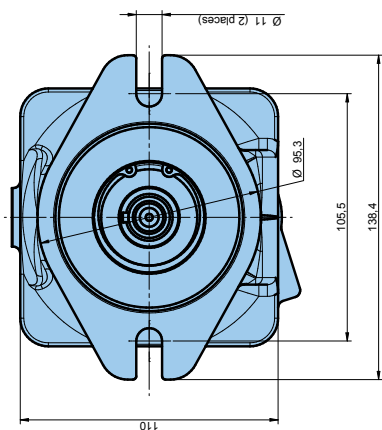
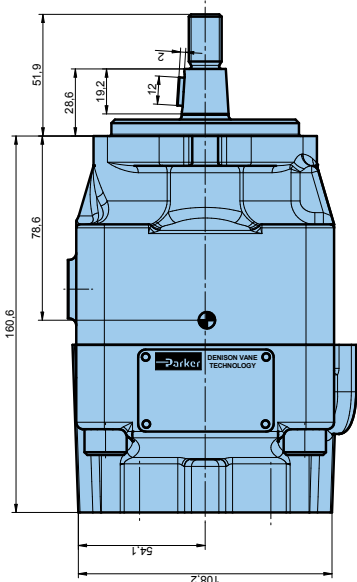


M5A - M5AS motor with rear ports

Weight : 11,0 kg

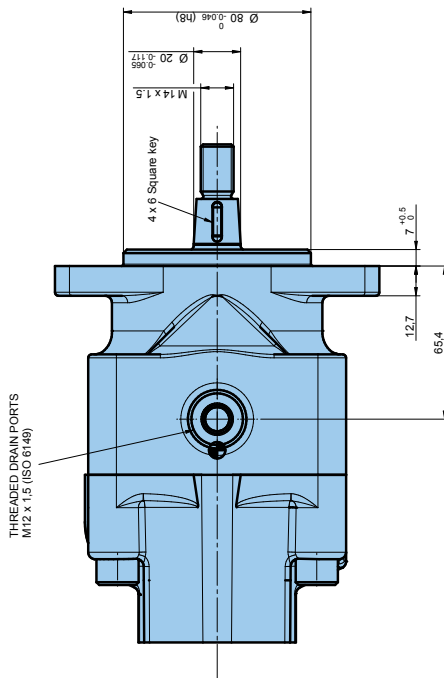


SHAFT code 5
KEYED TAPER 1:5

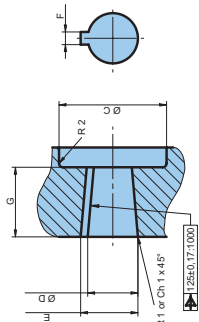


SHAFT code 6
ISO G20N KEYED

● Centre of gravity (bi-rotational version)



Shaft	Code 5
Ø C	35,8/36,2
Ø D	19,8/20,0
E	22,3/22,43
F	4,03/4,08
G	21,9/22,1

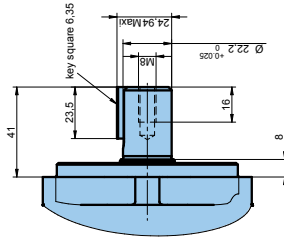
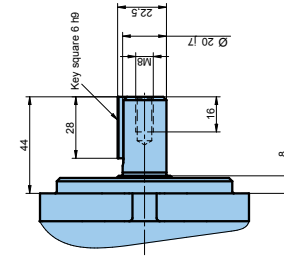
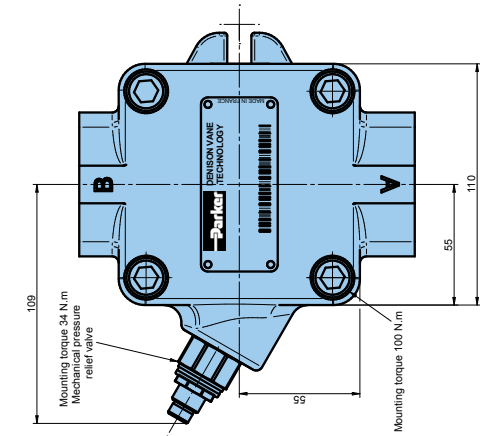


Torque of the steel nut : 80 Nm¹⁾

¹⁾ This torque is for a steel coupling and a nut of at least grade 8.8 quality. It is compulsory to install a castle nut and cotter pin for right-hand rotation and bi-rotational use.

M5A - M5AS motor with opposite ports

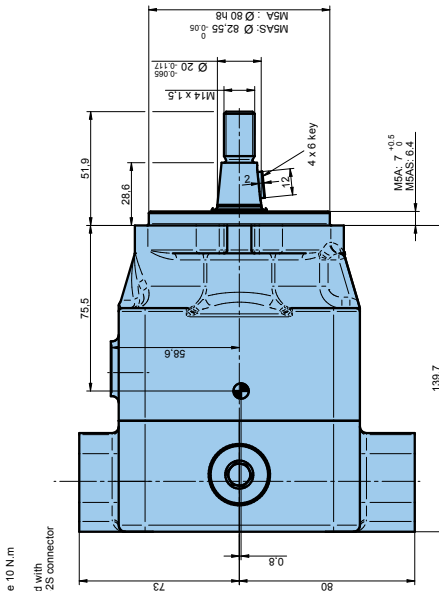
Weight : 11,2 kg



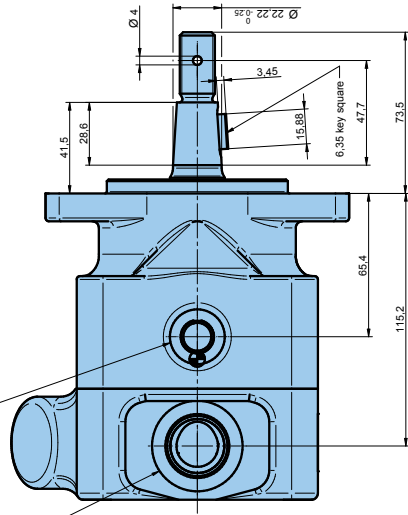
Shaft code 6
ISO G20N keyed

Shaft code 2
SAE B keyed

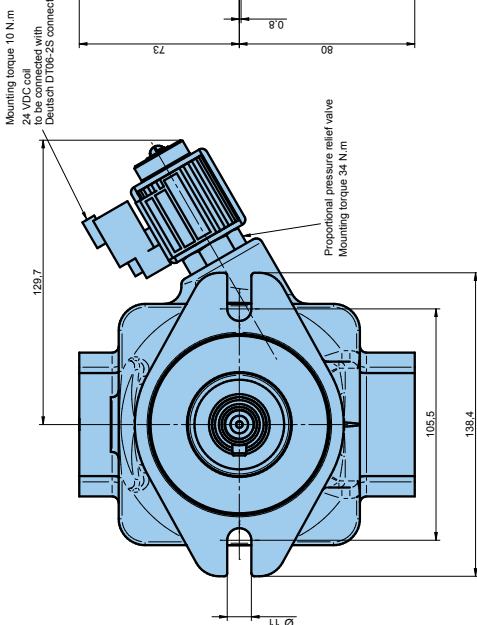
☉ Centre of gravity (bi-rotational version)



Shaft code 5
Keyed taper 1:5



Shaft code 1
SAE B - J744 (Modified)
Taper 1:25 : 1000



THREADED PORT
W: SAE 12 (SAE J1926/1)
Y: M22 x 1.5 (ISO 6149)
Z: 3/4" BSPP

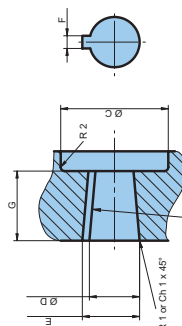
UNI-ROTATIONAL VERSION

THREADED DRAIN PORT
W: SAE 6 (SAE J1926/1)
Y: M12 x 1.5 (ISO 6149)
Z: 1/4" BSPP

"B" OUTLET THREADED PORT
W: SAE 12 (SAE J1926/1)
Y: M22 x 1.5 (ISO 6149)
Z: 3/4" BSPP

"A" INLET THREADED PORT
W: SAE 10 (SAE J1926/1)
Y: M18 x 1.5 (ISO 6149)
Z: 1/2" BSPP

Shaft	Code 1	Code 5
Ø C	54.0	35.8/36.2
Ø D	22,09/22,22	19.8/20.0
E	25.64/25.77	22.3/22.43
F	6.31/6.36	4.03/4.08
G	31,6/32,0	21,9/22,1

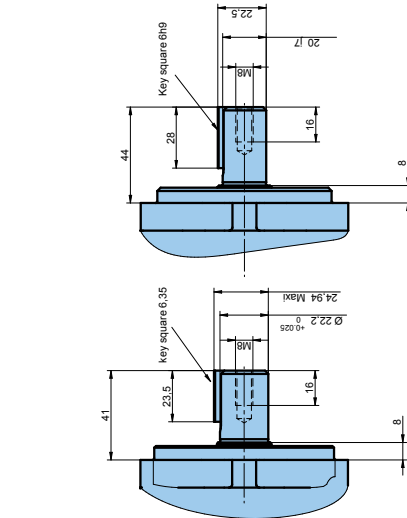
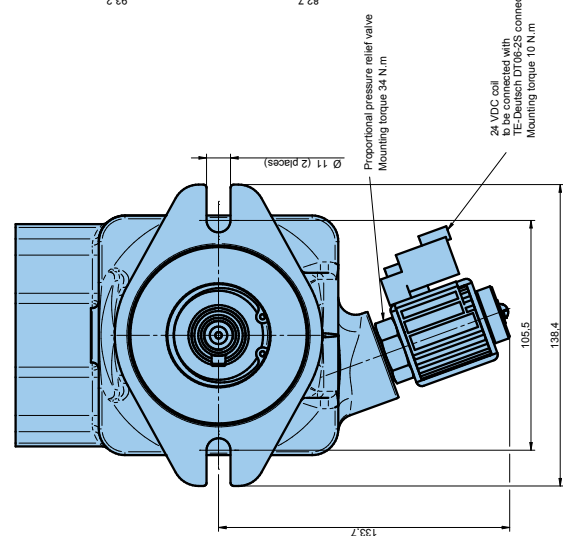
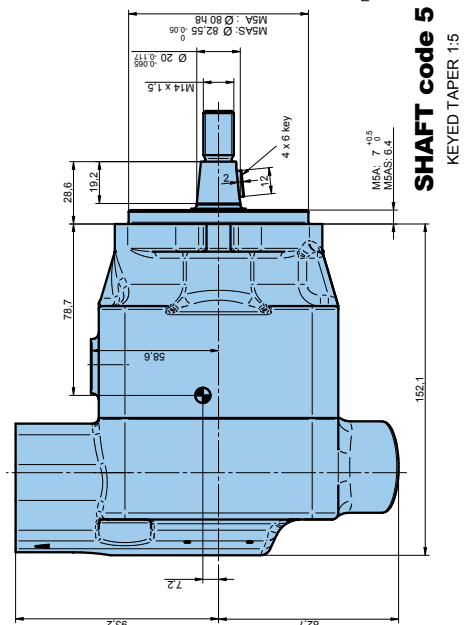
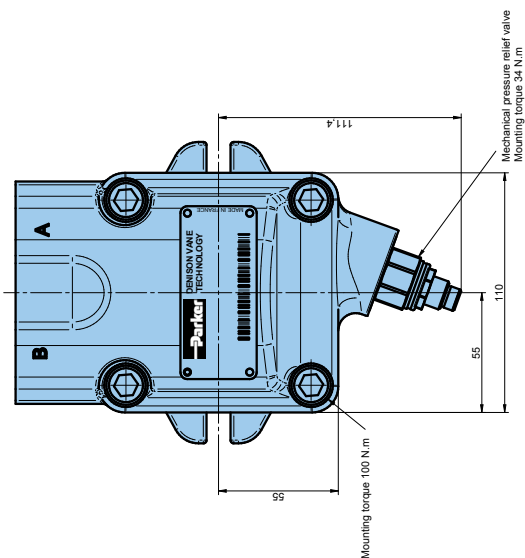


Torque of the nut : 80 Nm ¹⁾

¹⁾ This torque is for a steel coupling and a nut of at least grade 8.8 quality. It is compulsory to install a castle nut and cotter pin for right-hand rotation and bi-rotational use.

M5A - M5AS motor with side ports

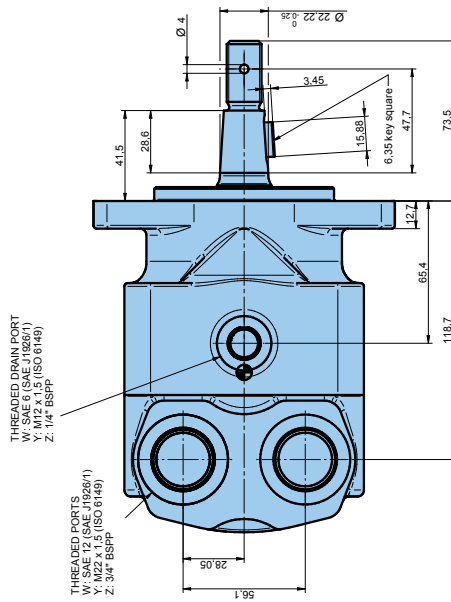
Weight : 12,2 kg



SHAFT code 2
 SAE B KEYED

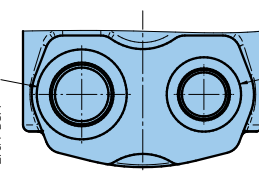
SHAFT code 6
 ISO G20N KEYED

Centre of gravity (bi-rotational version)

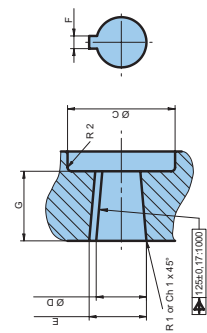


SHAFT code 1
 SAE B-1744
 (Modified)
 TAPER 125 : 1000

Uni-rotational version
 B OUTLET THREADED PORT
 W: SAE 12 (SAE J1926/1)
 Y: SAE 12 (ISO 6149)
 Z: 3/4" BSPP



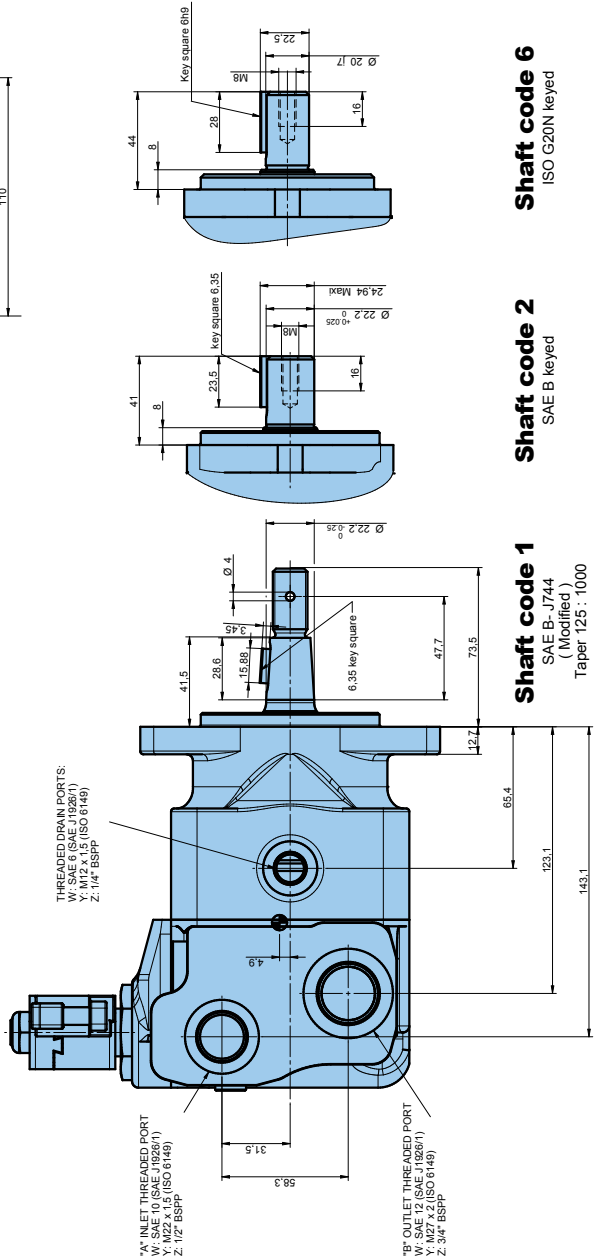
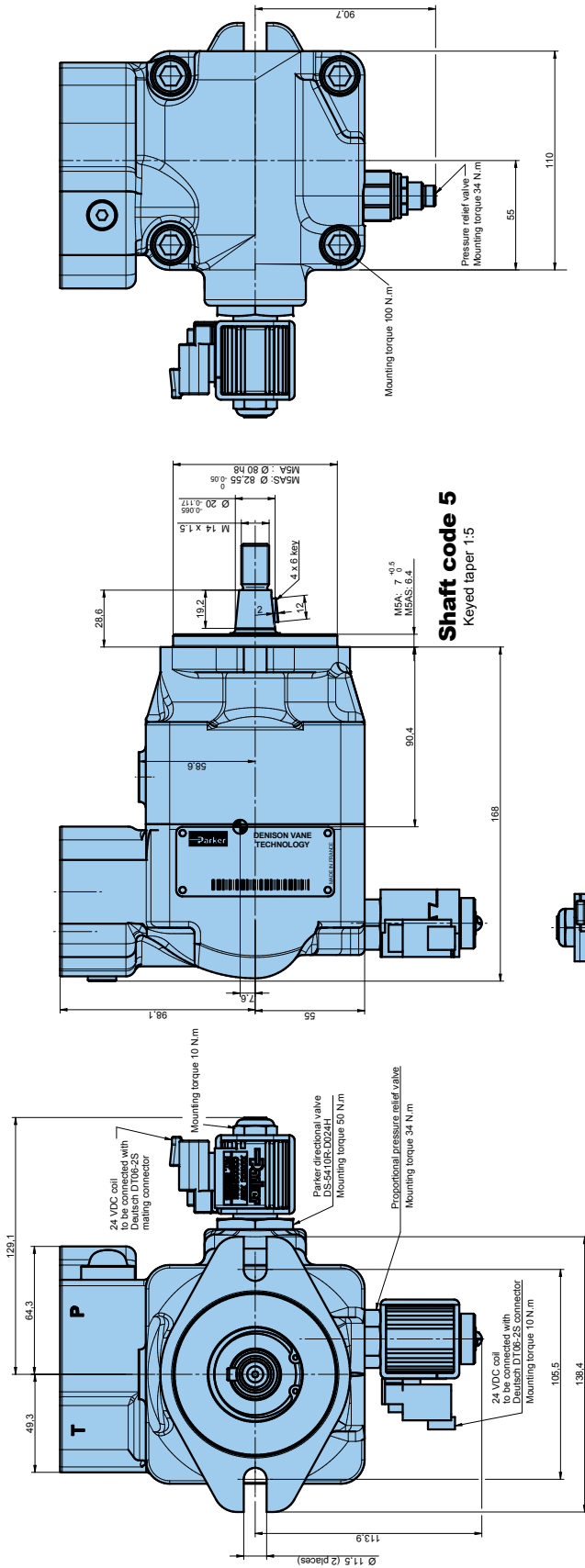
Shaft	Code 1	Code 5
Ø B	54,0	35,8/36,2
Ø C	22,09/22,22	19,8/20,0
E	25,64/25,77	22,3/22,43
F	6,31/6,36	4,03/4,08
G	31,6/32,0	21,9/22,1



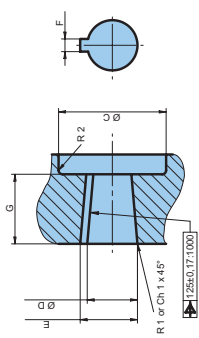
¹⁾ This torque is for a steel coupling and a nut of at least grade 8.8 quality. It is compulsory to install a castle nut and cotter pin for right-hand rotation and bi-rotational use.

M5A - M5AS motor with reverse valve option

Weight : 13,9 kg



Shaft	Code 1	Code 5
Ø C	54,0	35,8/36,2
Ø D	22,09/22,22	19,8/20,0
E	25,64/25,77	22,3/22,43
F	6,31/6,36	4,03/4,08
G	31,6/32,0	21,9/22,1



Torque of the steel nut : 80 Nm ¹⁾

¹⁾ This torque is for a steel coupling and a nut of at least grade 8.8 quality. It is compulsory to install a castle nut and cotter pin for right-hand rotation and bi-rotational use.

Centre of gravity (bi-rotational version)

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US Product Information Centre

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