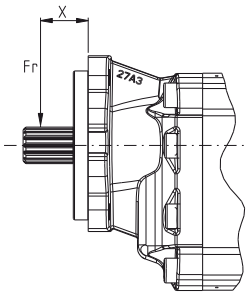
FORMULA 30 PERMISSIBLE RADIAL LOADING

SAE



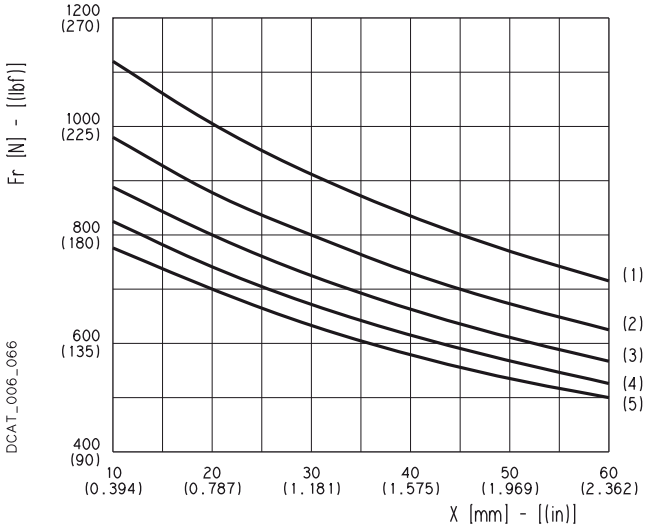
X= Distance of the radial load result from the mounting flange.

Fatigue life (hours) L_h= **1000 [h]**

Each curve has been obtained at:
(1) 1000 min $^{-1}$
(2) 1500 min $^{-1}$
(3) 2000 min $^{-1}$
(4) 2500 min $^{-1}$
(5) 3000 min $^{-1}$

VERSION

1 - 2



Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

CASAPPA

Formula

HOW TO ORDER SINGLE PUMPS

1	2	3		4	5		6	7		8
Pump type	Rotation	Version	–	Drive shaft	Mounting flange	–	Ports positon	Ports IN/OUT	–	Seals
FP30•17	S	0	–	04	S3	–	L	OD/OD	–	N

1 Pump type	CODE
cm^3/rev	
17,28	FP 30•17
26,70	FP 30•27
34,56	FP 30•34
39,27	FP 30•38
43,98	FP 30•43
51,83	FP 30•51
61,26	FP 30•61
73,82	FP 30•73
81,68	FP 30•82

2 Rotation	CODE
Left	S
Right	D
Reversible	R
Reversible with internal drain	B

3 Version	CODE
Without outboard bearing	0
With outboard bearing	1
With outboard bearing and indep. shaft	2

4 Drive shaft	CODE
SAE “B” spline (13 teeth)	04
SAE “B” straight	32
SAE “BB” spline (15 teeth)	05
SAE “BB” straigh	33

5 Mounting flange	CODE
SAE “B” 2-4 holes	S3

CODE	6 Ports position
L	Side

CODE	7 Ports IN/OUT	
SAE STRAIGHT THREAD PORTS (ODT)		
Side	Pump type	
OB/OB	FP 30•17	
OD/OD	FP 30•27	
OD/OD	FP 30•34	
OD/OD	FP 30•38	
OF/OD	FP 30•43	
OF/OE	FP 30•51	
OF/OE	FP 30•61	
OG/OF	FP 30•73	
OG/OF	FP 30•82	

CODE	8 Seals (a)
N	Buna (standard)
V	Viton
N Bz	Buna and Bronze thrust plates
V Bz	Viton and Bronze thrust plates

(a) Choose the seals according to the temperature shown on page 2

ORDER EXAMPLE

Standard pump FP 30•27 S0 - 04 S3 - L OD/OD - N

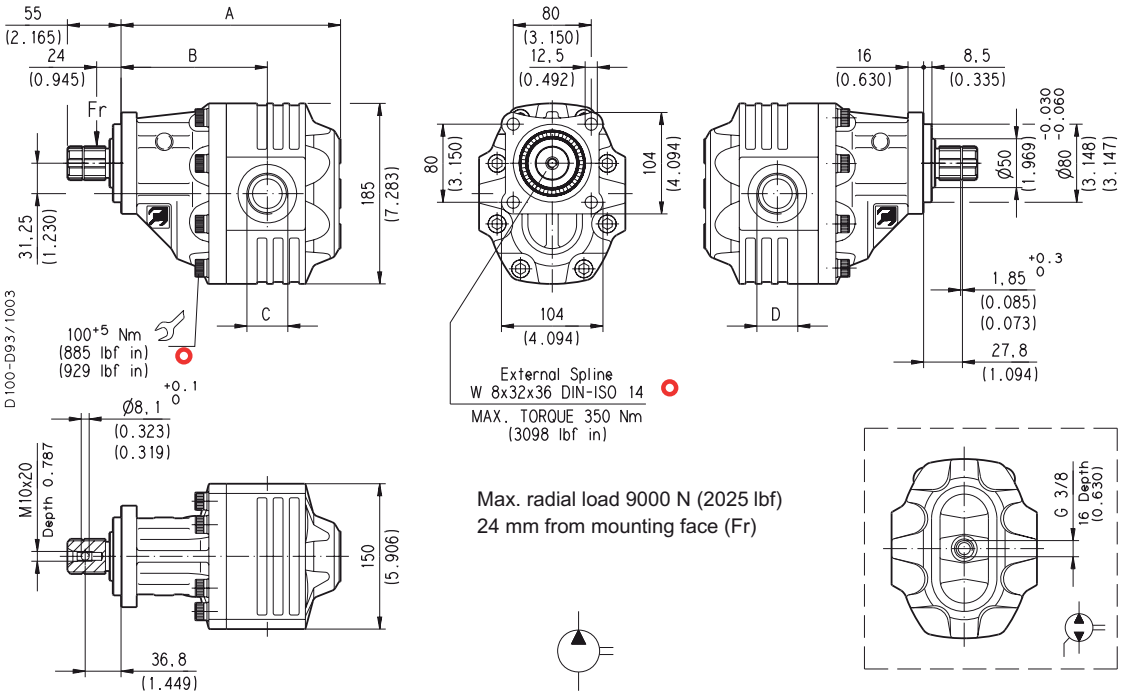
Special version pump FP 30•17 S2 - 32 S3 - L OB/OB - V Bz

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

CASAPPA

FORMULA 40 — HYDRAULIC GEAR PUMPS ISO STANDARD — 16 Z0

GAS STRAIGHT THREAD PORTS
British standard pipe parallel (55°) conforms to UNI - ISO 228



Max. radial load 9000 N (2025 lbf)
24 mm from mounting face (Fr)

Pump type				A	B	C	D	Mass
				mm (in)	mm (in)	IN	OUT	kg
FP 40•63	S D R B	0-16 Z0	L GF/GE-N	199 (7.835)	131 (5.157)	G 1	G 3/4	18,65
FP 40•73				203 (7.992)	135 (5.315)			19,30
FP 40•87			L GG/GF-N	208 (8.189)	140 (5.512)	G 1 1/4	G 1	19,75
FP 40•109				216 (8.504)	141 (5.551)			21
FP 40•133			L GH/GF-N	225 (8.858)	150 (5.906)	G 1 1/2		22,10
FP 40•151				231 (9.094)	156 (6.142)			22,90

Rotation: S=left - D=right - R=reversible - B=reversible internal drain

How to order:

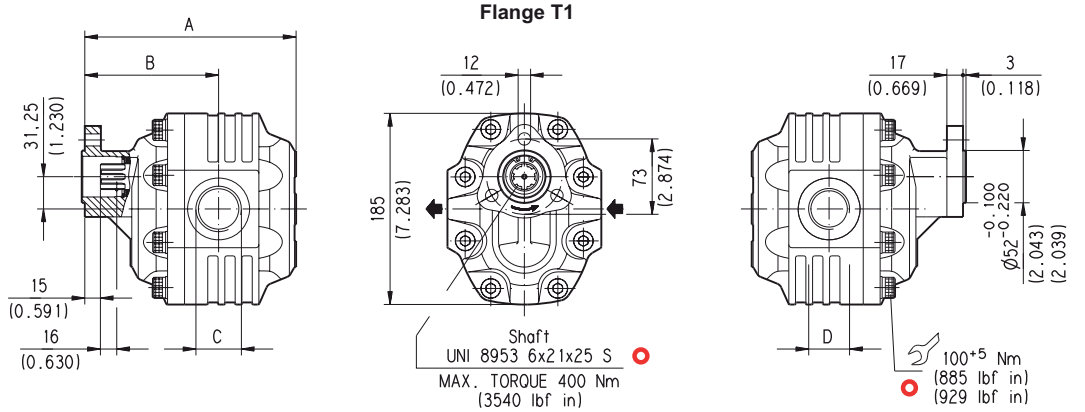
FP 40•63 S0 - 16 Z0 - L GF/GE - N

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

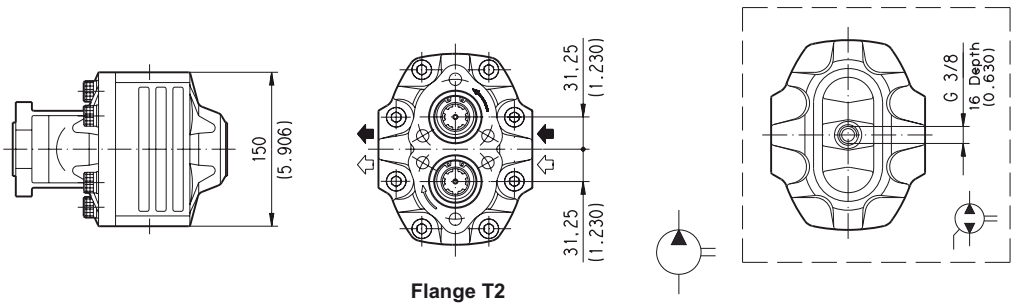
FORMULA 40 | HYDRAULIC GEAR PUMPS ITALIAN STANDARD | 19 T

GAS STRAIGHT THREAD PORTS
British standard pipe parallel (55°) conforms to UNI - ISO 228

Flange T1



D100-D10/1003



Flange T2

Only for rotation S-D

Pump type					A	B	C	D	Mass
					mm (in)	mm (in)	IN	OUT	kg
FP 40•63	S D R B	0-19	T1 T2	L GF/GE-N	187,5 (7.382)	119,5 (4.705)	G 1	G 3/4	16,1
FP 40•73					191,5 (7.539)	123,5 (4.862)			16,5
FP 40•87				L GG/GF-N	196,5 (7.736)	128,5 (5.059)	G 1 1/4	G 1	17
FP 40•109					204,5 (8.051)	129,5 (5.098)			18
FP 40•133				L GH/GF-N	213,5 (8.406)	138,5 (5.453)	G 1 1/2		119,5
FP 40•151					219,5 (8.642)	144,5 (5.689)			20

Rotation: S=left - D=right - R=reversible - B=reversible internal drain

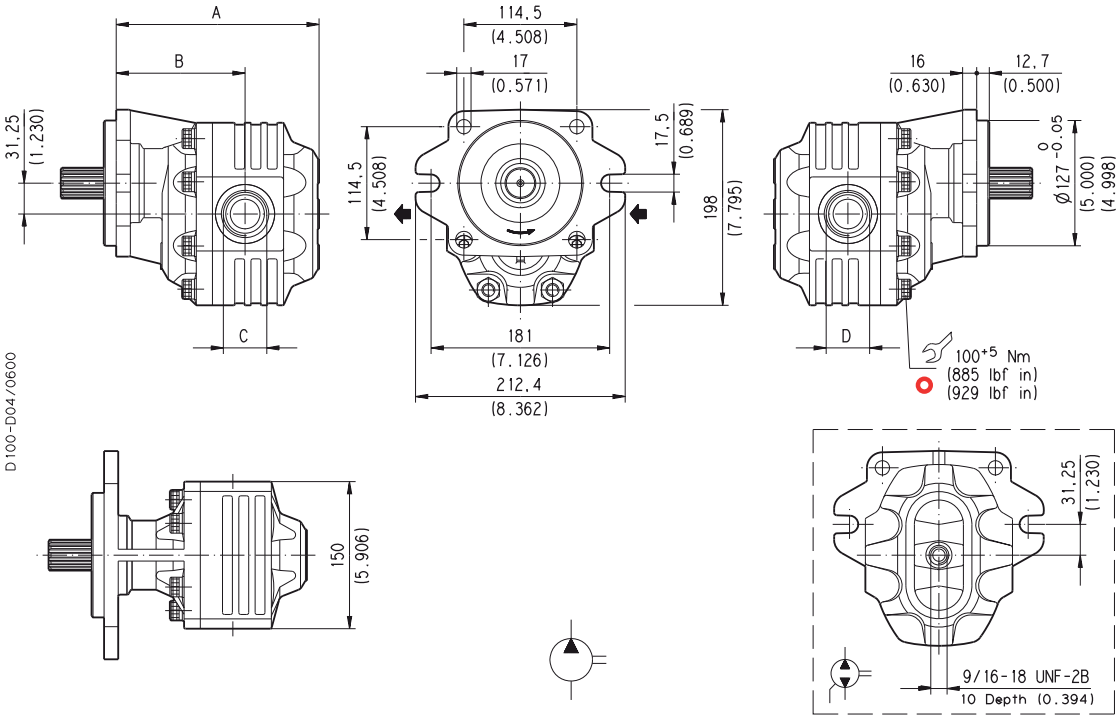
How to order:

FP 40•63 S0 - 19 T1 - L GF/GE - N

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

FORMULA 40 — HYDRAULIC GEAR PUMPS SAE STANDARD — SAE

SAE STRAIGHT THREAD PORTS J514
American straight thread UNC-UNF 60° conforms to ANSI B 1.1



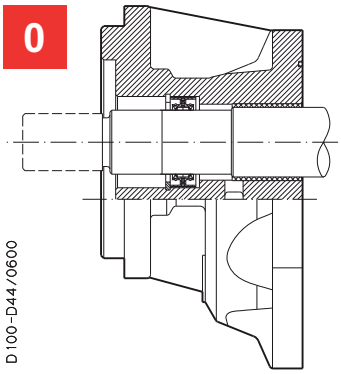
To order see page 32 ÷ 34.

Pump type	A	B	C	D	Ports code		Mass
	mm (in)	mm (in)	IN	OUT	IN	OUT	kg
FP 40•63	188,5 (7.421)	120,5 (4.744)	1-5/16-12 UN-2B	1-1/16-12 UN-2B	**OF**	**OD**	19,5
FP 40•73	192,5 (7.579)	124,5 (4.902)					20
FP 40•87	197,5 (7.776)	129,5 (5.098)	1-5/8-12 UN-2B	1-5/16-12 UN-2B	**OG**	**OF**	20,5
FP 40•109	205,5 (8.091)	130,5 (5.138)					21
FP 40•133	214,5 (8.445)	139,5 (5.492)	1-7/8-12 UN-2B		**OH**		23
FP 40•151	220,5 (8.681)	145,5 (5.728)					25

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

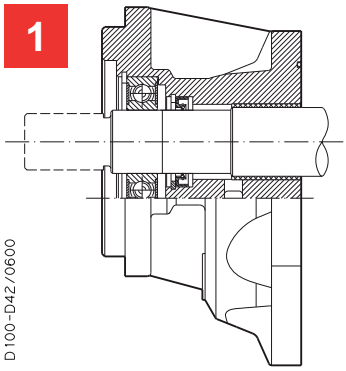
FORMULA 40 SAE VERSION — SAE

0



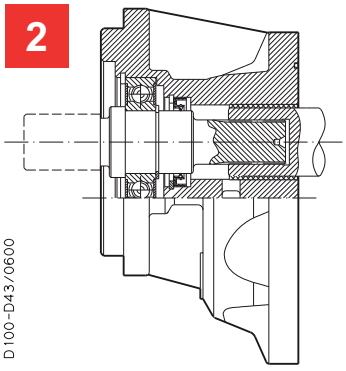
Version for applications without radial and axial load on the drive shaft.

1



Version for applications with low radial load and without axial load on the drive shaft.

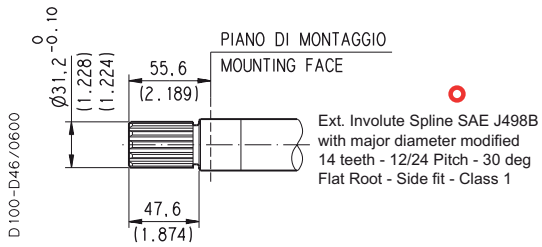
2



Special version with independent shaft for applications with low radial load and without axial load on the drive shaft.

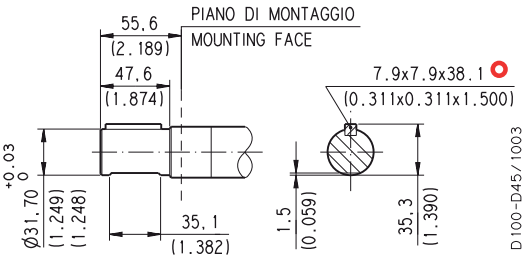
FORMULA 40 SAE END DRIVE SHAFTS — SAE

SAE "C" SPLINE — 06



MAX 900 Nm (7966 lbf in) ◆

SAE "C" STRAIGHT — 34



MAX 600 Nm (5311 lbf in) ◆

◆ For "2" version whichever end shaft, the max. torque applicable is M= 600 Nm (5311 lbf in)

PUMP - VERSION - SHAFT AVAILABILITY TABLE — SAE

Pump type	VERSION			
	0	1	2	
FP 40•63	06	06	06 - 34	SHAFT
FP 40•73	06 - 34	06 - 34	06 - 34	
FP 40•87	06 - 34	06 - 34	06 - 34	
FP 40•109	06	06	06 - 34	
FP 40•133	06 - 34	06 - 34	06 - 34	
FP 40•151	06 - 34	06 - 34	06 - 34	

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de