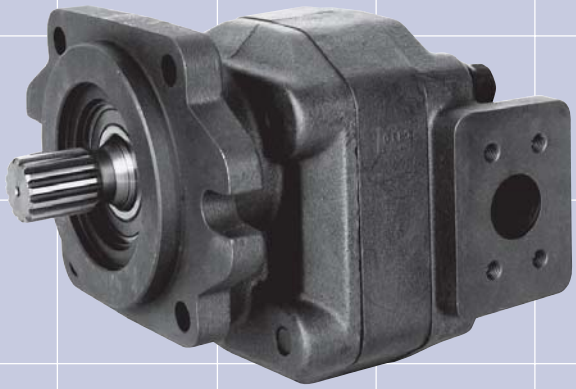
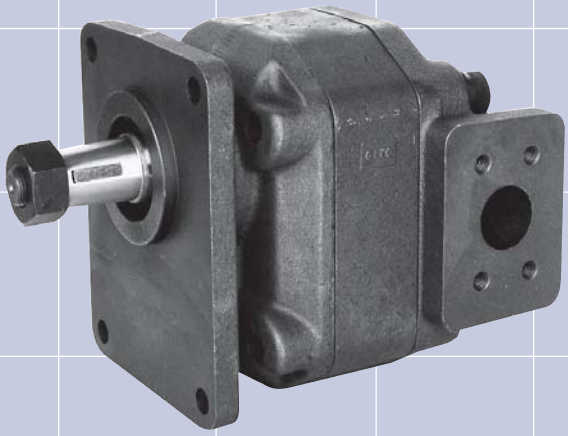
Roquet

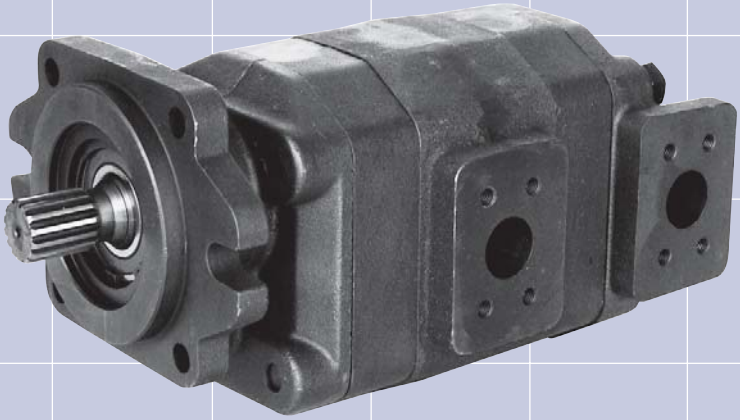
Componentes oleo-dinámicos

Hydraulic components

02.06.01/12 00







Bomba de engranajes
Gear Pump

PNC

NOMENCLATURAS REFERENCIAS | 1 | PNC | 80 | D | A | 01 | M | –* | ***CODING SYSTEM***

Tipo / *Type*

1	Sin polea / *Without pulley*
13	Con cojinete de apoyo y retén. *With ball bearing and shaft SEAL*
14	Con dos retenes y fuga exterior. *With two shafts seals and external drain.*

Modelo / *Model*

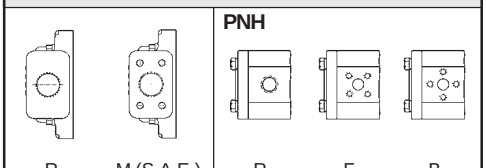
PNC	Bomba de engranajes *Gear pump*	
PNJ	Bomba doble *Double pump*	PNC-PNC
PNK	Bomba doble *Double pump*	PNC-PNA
PNH	Bomba doble *Double pump*	PNC-L
PNZ	Bomba doble *Double pump*	PNC-LO

Caudal bomba a 1500 RPM a 0 bar
Pump flow rate at 1500 RPM and 0 bar

Ver hoja técnica
See technical data

Datos adicionales
Additional data

Formas conexión tomas
Port connection form



Tipo tapas / *Fixing flange*

01 - 09 - 10 - 11 - 50

Forma eje motriz
Driving shaft form

A - E - F - G - H - J - S - X

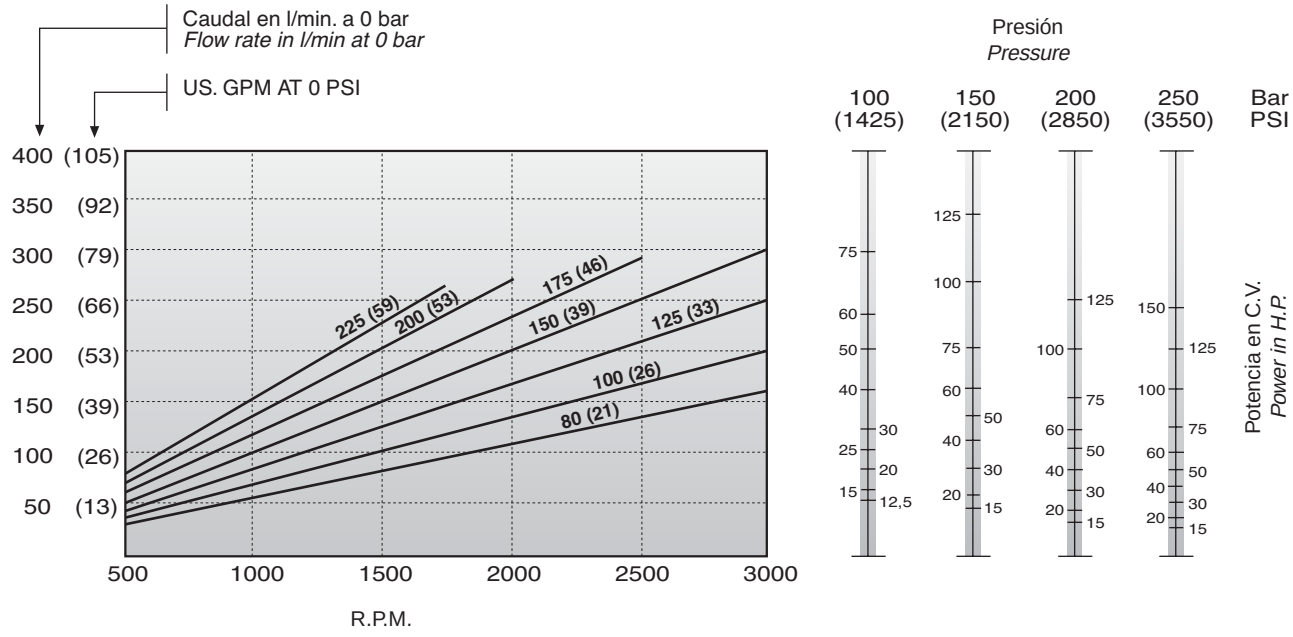
Sentido de giro / *Rotation direction*

D	Derecha / *Clockwise*
I	Izquierda / *Counterclockwise*

Índice
Index

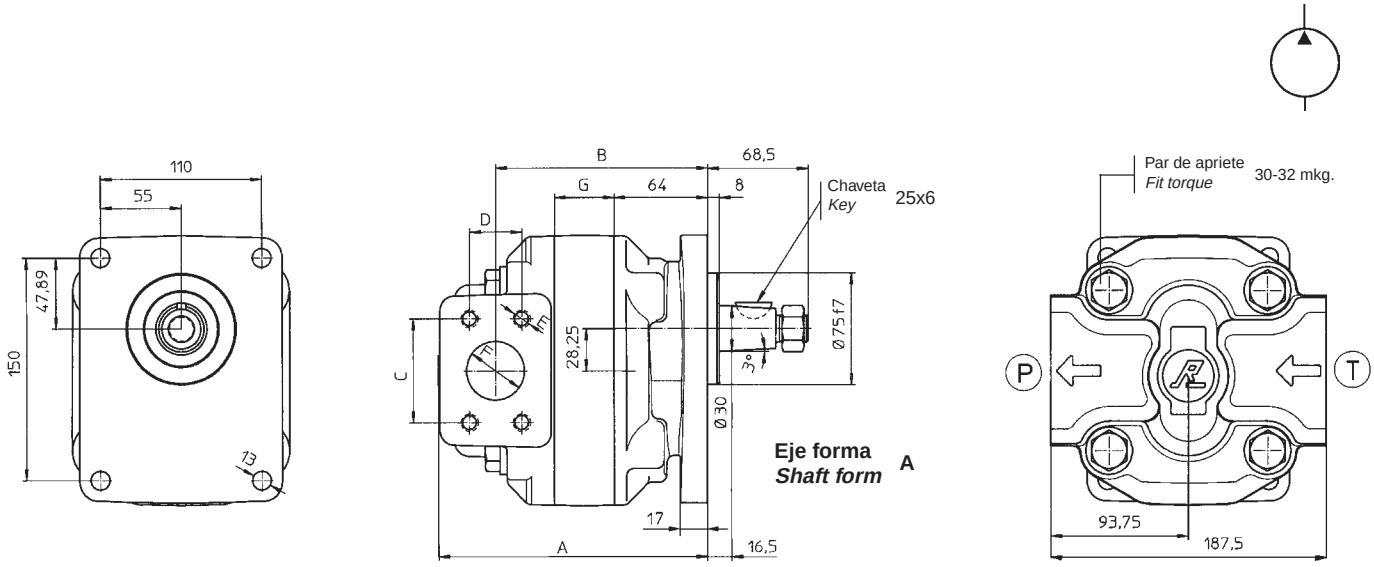
Datos técnicos hidráulicos *Hydraulic technical data*								
Caudal bomba *Pump flow rate*	L/min. 1500 R.P.M *(US. GPM 1500 RPM)*	80 (21)	100 (26)	125 (33)	150 (39)	175 (46)	200 (53)	225 (59)
Cilindrada *Displacement*	cm^3/v - cc/rev *(in^3/rev)*	53,3 (3,27)	66,6 (4,06)	83,3 (5,08)	100 (6,10)	116,6 (7,11)	133,3 (8,13)	150 (9,15)
Presión máx. continua en *Cont. max. pressure*	bar *(PSI)*	260 (3700)		250 (3550)		225 (3200)	200 (2850)	175 (2500)
Presión máx. inter. 5 seg. max. *Intermittent max. pressure*	bar *(PSI)*	290 (4100)		275 (3900)		250 (3550)	225 (3200)	200 (2850)
R.P.M. máximas *Max. R.P.M.*		3000				2500	2000	1750
Mínimas R.P.M. según presión *Min. R.P.M. at given pressures*	100 bar (1425 PSI)	400				350		
	175 bar (2500 PSI)	450				400		
	250 bar (3550 PSI)	550				-	-	-
Aceite recomendado *Fluid to be used*		ISO 6743 tipo HM, HV ó HG						
Viscosidad *Viscosity range*		ISO 3448 cat. VG32-VG46						
Grado de limpieza del aceite *Recommended fluid cleanliness*		19/16 s/. ISO 4406 ó RP70H						
Temperatura de trabajo del aceite *Oil temperature*		5°C... 60°C 40°F...140°F						
Temperatura ambiente *Ambient temperature*		-20°C... +80°C -70°F... +175°F						

Diagrama de caudales y potencias
Flow rate and power diagram

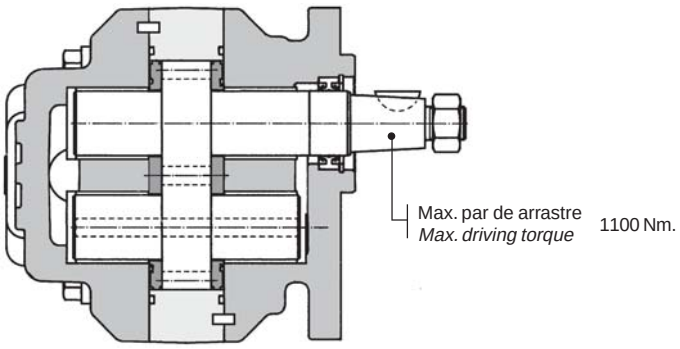


NOTA: Estos diagramas han sido obtenidos con un aceite de viscosidad VG 46 y una temperatura de 50°C.
NOTE: These results have been obtained with VG 46 viscosity oil and at 50 deg. C (122°F).

Tapa tipo *Front flange type* 01

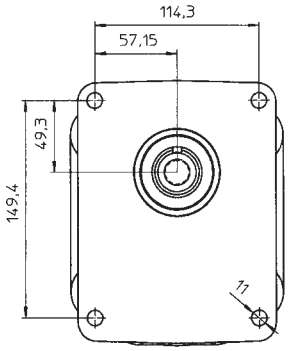


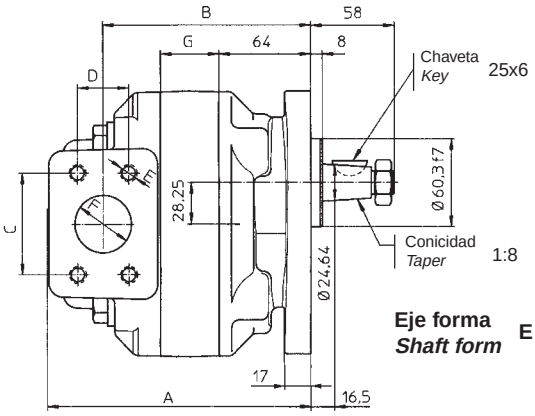
Sentido de giro *Rotation sense*	Aspiración *Suction*	Presión *Pressure*
*D Derecha *Clockwise*	T	P
*I Izquierda *Counter Clockwise*	P	T



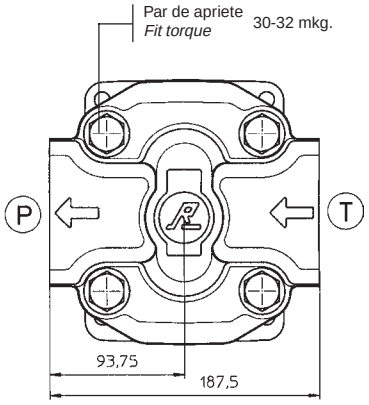
Referencia *Reference*	Cilindrada cm³/v *Displacement cc/r.*	G	A	B	Presión *Pressure*				Aspiración *Suction*				Peso *Weight* Kg.
					C	D	E	F	C	D	E	F	
1 PNC80*A01M	53,3	41	184	145	58,7	30,2	M.10	32	69,8	35,7	M.12	38	23
1 PNC100*A01M	66,6	47,5	190,5	151,5									24
1 PNC125*A01M	83,3	55,5	198,5	159,5									25
1 PNC150*A01M	100	64	207	168	69,8	35,7	M.12	38	77,8	42,9	M.12	50	26
1 PNC175*A01M	116,6	72	215	176									27
1 PNC200*A01M	133,3	80,5	223,5	184,5									28
1 PNC225*A01M	150	88,5	231,5	192,5									29

Tapa tipo *Front flange type* 10

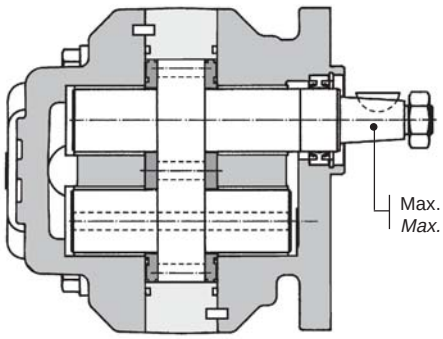




Eje forma **E**
Shaft form



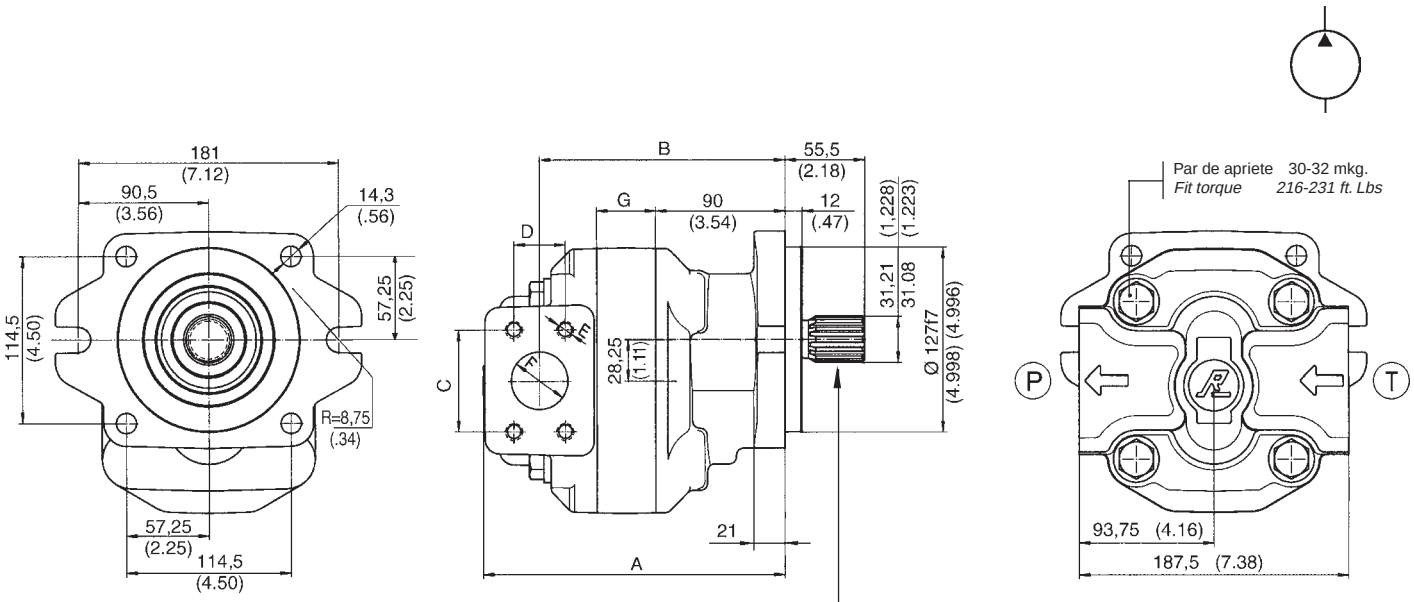
Sentido de giro *Rotation sense*		Aspiración *Suction*	Presión *Pressure*
*D	Derecha *Clockwise*	T	P
*I	Izquierda *Counter Clockwise*	P	T



Max. par de arrastre *Max. driving torque* 800 Nm.

Referencia *Reference*	Cilindrada cm³/v *Displacement cc/r.*	G	A	B	Presión *Pressure*				Aspiración *Suction*				Peso *Weight* Kg.
					C	D	E	F	C	D	E	F	
1 PNC80*E10M	53,3	41	184	145	58,7	30,2	M.10	32	69,8	35,7	M.12	38	23
1 PNC100*E10M	66,6	47,5	190,5	151,5									24
1 PNC125*E10M	83,3	55,5	198,5	159,5									25
1 PNC150*E10M	100	64	207	168	69,8	35,7	M.12	38	77,8	42,9	M.12	50	26
1 PNC175*E10M	116,6	72	215	170									27
1 PNC200*E10M	133,3	80,5	223,5	184,5									28
1 PNC225*E10M	150	88,5	231,5	192,5									29

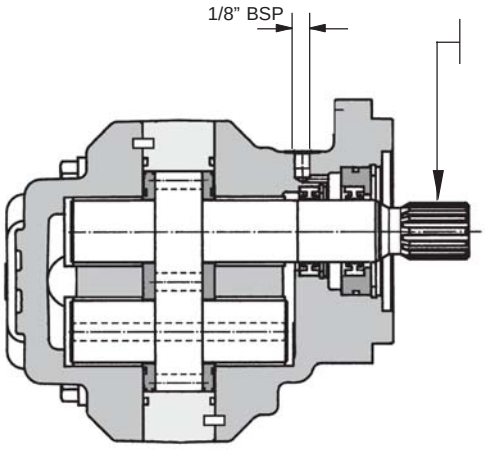
Tapa tipo *Front flange type* 09



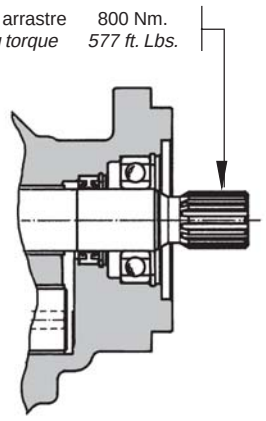
Sentido de giro *Rotation sense*		Aspiración *Suction*	Presión *Pressure*
⁎D	Derecha *Clockwise*	T	P
⁎I	Izquierda *Counter Clockwise*	P	T

Eje forma / Shaft form G

Características / *Spline data*
ANSI B92.1
Diametral pitch 12/24
Angulo de presión / *Pressure angle* 30°
Nº de dientes / *Teeth number* 14



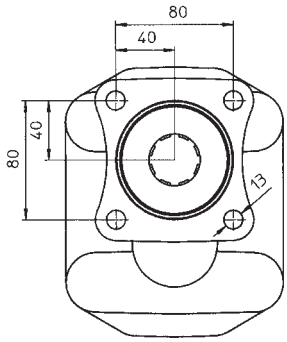
▲ 14 PNC... Con dos retenes y fuga exterior.
With two shafts seals and external drain.

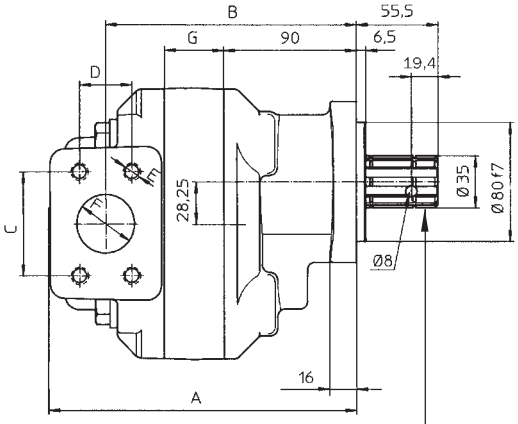


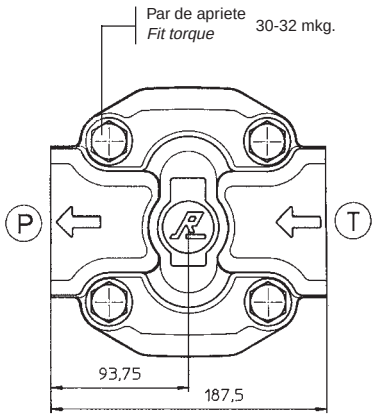
▲ 13 PNC... Con cojinete de apoyo y retén.
With ball bearing and shaft seal.

Referencia *Reference*	Cilindrada *Displacement*		G mm *(in.)*	A mm *(in.)*	B mm *(in.)*	Presión *Pressure*				Aspiración *Suction*				Peso *Weight*	
	cm^3/v *cc/r.*	$in^3/rev.$				C	D	E	F	C	D	E	F	Kg.	Lb.
▲ PNC80⁎G09M	53,3	3,27	41 (1,61)	210 (8,26)	171 (6,73)	58,7 (2,31)	30,2 (1,18)	M.10	32 (1,25)	69,8 (2,75)	35,7 (1,40)	M.12	38 (1,49)	25,5	56,1
▲ PNC100⁎G09M	66,6	4,06	47,5 (1,87)	216,5 (8,52)	177,5 (6,98)									26,5	58,3
▲ PNC125⁎G09M	83,3	5,08	55,5 (2,18)	224,5 (8,83)	185,5 (7,30)									27,5	60,5
▲ PNC150⁎G09M	100	6,10	64 (2,51)	233 (9,17)	194 (7,63)	69,8 (2,75)	35,7 (1,40)	M.12	38 (1,49)	77,8 (3,06)	42,9 (1,68)	M.12	50 (1,96)	28,5	62,7
▲ PNC175⁎G09M	116,6	7,11	72 (2,83)	241 (9,48)	202 (7,95)									29,5	64,9
▲ PNC200⁎G09M	133,3	8,13	80,5 (3,16)	249,5 (9,82)	210,5 (8,28)									30,5	67,1
▲ PNC225⁎G09M	150	9,15	88,5 (3,48)	257,5 (10,13)	218,5 (8,60)									31,5	69,3

Tapa tipo *Front flange type* 50

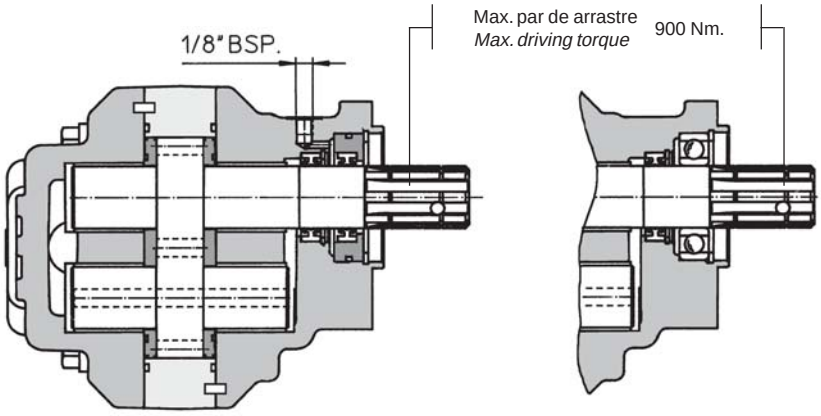






Sentido de giro *Rotation sense*		Aspiración *Suction*	Presión *Pressure*
*D	Derecha *Clockwise*	T	P
*I	Izquierda *Counter Clockwise*	P	T

Eje forma / Shaft form X
Características / *Spline data* DIN-5462 B - 8 x 32 x 36 Ancho del diente / *Tootd width* 6 H8 Nº de dientes / *Teeth number* 8



▲ 14 PNC... Con dos retenes y fuga exterior.
With two shafts seals and external drain.

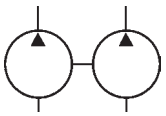
▲ 13 PNC... Con cojinete de apoyo y retén.
With ball bearing and shaft seal.

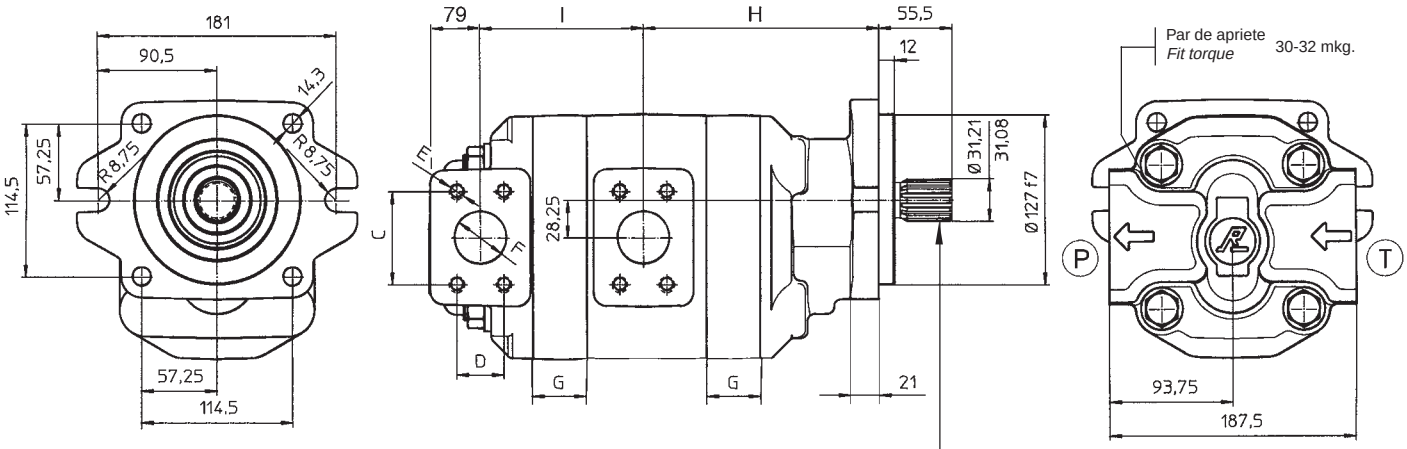
Referencia *Reference*	Cilindrada cm³/v *Displacement cc/r.*	G	A	B	Presión *Pressure*				Aspiración *Suction*				Peso *Weight* Kg.
					C	D	E	F	C	D	E	F	
▲ PNC80*X50M	53,3	41	210	171	58,7	30,2	M.10	32	69,8	35,7	M.12	38	24,5
▲ PNC100*X50M	66,6	47,5	216,5	177,5									25,5
▲ PNC125*X50M	83,3	55,5	224,5	185,5									26,5
▲ PNC150*X50M	100	64	233	194	69,8	35,7	M.12	38	77,8	42,9	M.12	50	27,5
▲ PNC175*X50M	116,6	72	241	202									28,5
▲ PNC200*X50M	133,3	80,5	249,5	210,5									29,5
▲ PNC225*X50M	150	88,5	257,5	218,5									30,5

Bomba doble de engranajes
Double Gear Pump
Tapa tipo / Front Flange type 09

Serie Type

PNJ



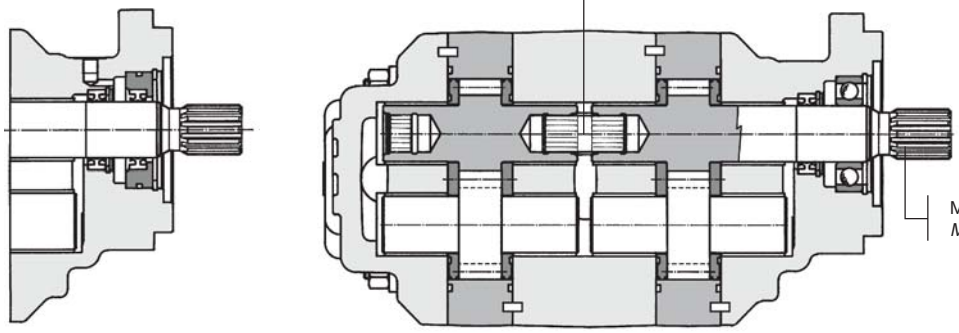


Sentido de giro *Rotation sense*		Aspiración *Suction*	Presión *Pressure*
⁎D	Derecha *Clockwise*	T	P
⁎I	Izquierda *Counter Clockwise*	P	T

Eje forma / Shaft form G

Características / *Spline data*
ANSI B92.1
Diametral pitch 12/24
Angulo de presión / *Pressure angle* 30°
Nº de dientes / *Teeth number* 14

Max. par de arrastre
Max. driving torque 350 Nm.



Max. par de arrastre
Max. driving torque 800 Nm.

▲
14 PNJ...
Con dos retenes y fuga exterior.
With two shafts seals and external drain.

▲
13 PNJ...
Con cojinete de apoyo y retén.
With ball bearing and shaft seal.

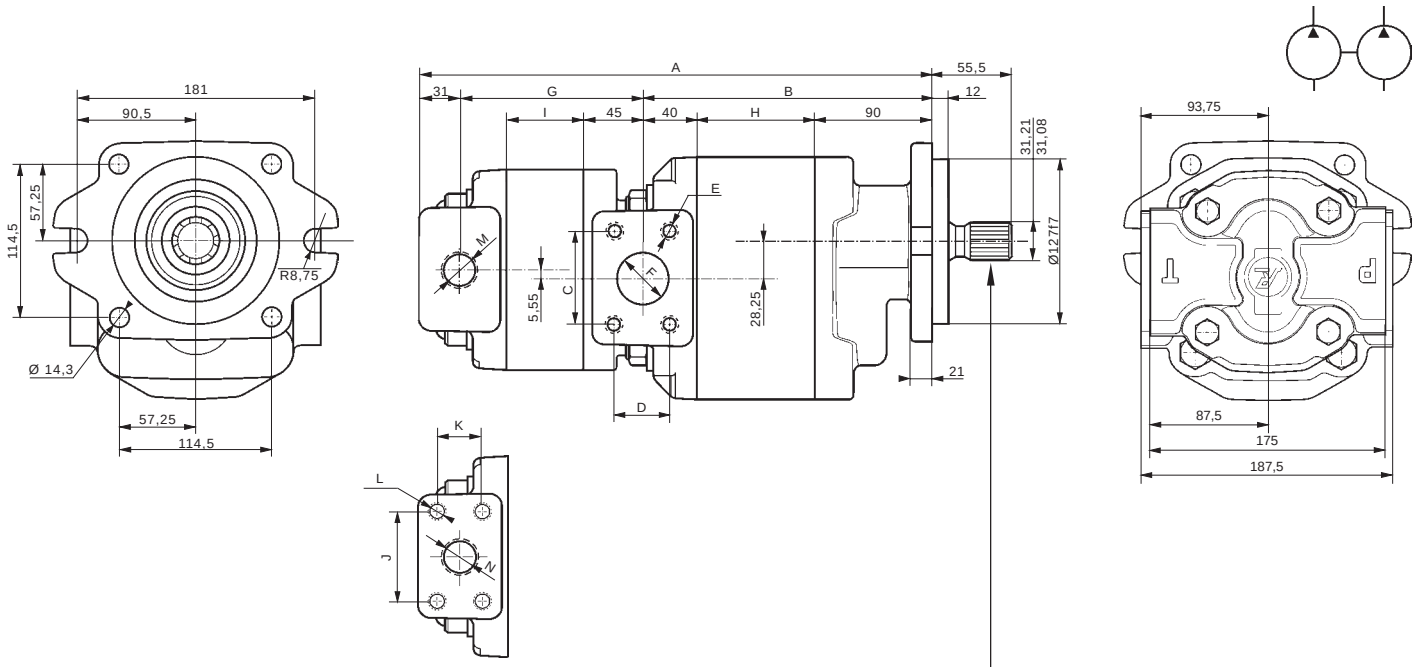
- Sustituir por el caudal deseado a 1500 rpm
  Replace with flow at 1500 rpm

Referencia *Reference*	G	H	I	Presión *Pressure*				Aspiración *Suction*			
				C	D	E	F	C	D	E	F
▲ PNJ80-●⁎G09M	41	179	124	58,7	30,2	M.10	32	69,8	35,7	M.12	38
▲ PNJ100-●⁎G09M	47,5	185,5	130,5								
▲ PNJ125-●⁎G09M	55,5	193,5	138,5								
▲ PNJ150-●⁎G09M	64	202	147	69,8	35,7	M.12	38	77,8	42,9	M.12	50
▲ PNJ175-●⁎G09M	72	290	155								
▲ PNJ200-●⁎G09M	80,5	218,5	163,5								
▲ PNJ225-●⁎G09M	88,5	226,5	171,5								

Bomba doble de engranajes
Double Gear Pump
Tapa tipo / Front Flange type 09

Serie Type

PNK



Sentido de giro *Rotation sense*		Aspiración *Suction*	Presión *Pressure*
*D	Derecha *Clockwise*	T	P
*I	Izquierda *Counter Clockwise*	P	T

Eje forma / Shaft form G

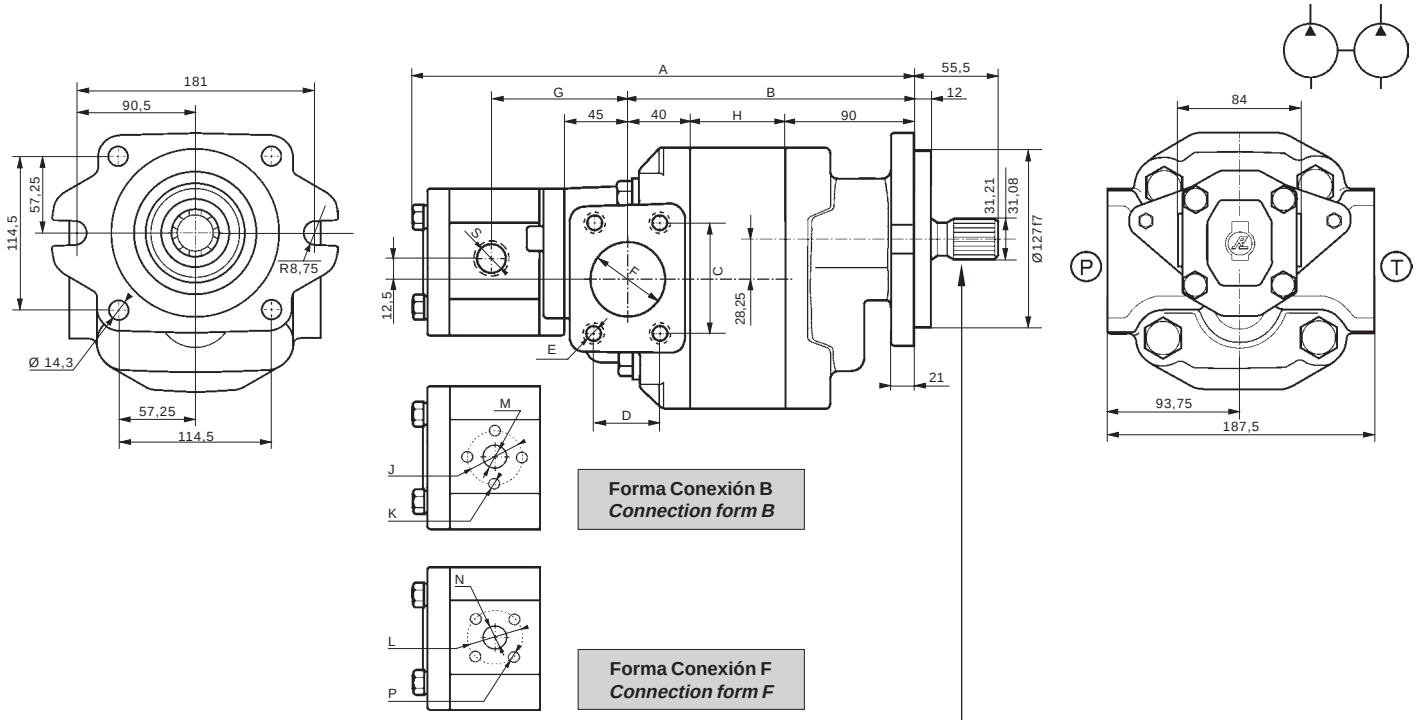
Características / *Spline data*
ANSI B92.1
Diametral pitch 12/24
Angulo de presión / *Pressure angle* 30°
Nº de dientes / *Teeth number* 14

Referencia *Reference*	Cilindrada *Displacement* cm³/v		A	B	G	H	I	Presión / *Pressure*									Aspiración / *Suction*								
								Conexión / *Connection* M (S.A.E.)								R	Conexión / *Connection* M (S.A.E.)								R
	PNC	PNA						C	D	E	F	J	K	L	N	M	C	D	E	F	J	K	L	N	M
▲ PNK 80 - 36 *G09MR	53.3	24	314	171	111.5	41	31.5	58.7	30.2	M.10	Ø32	52.4	26.2	M.10	26	3/4" BSP	69.8	35.7	M.12	Ø38	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	319		116.5		36.5																		
54 *G09MR		36	324		121.5		41.5																		
66 *G09MR		44	330		128		48																		
▲PNK 100 - 36 *G09MR	66.6	24	320	177.5	111.5	47.5	31.5	58.7	30.2	M.10	Ø32	52.4	26.2	M.10	26	3/4" BSP	69.8	35.7	M.12	Ø38	58.7	30.2	M.10	32	1 BSP
45 *G09MR		30	325		116.5		36.5																		
54 *G09MR		36	330		121.5		41.5																		
66 *G09MR		44	337		128		48																		
84 *G09MR		56	346		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	353		144.5		64.5																		
▲PNK 125 - 36 *G09MR	83.3	24	328	185.5	111.5	55.5	31.5	58.7	30.2	M.10	Ø32	52.4	26.2	M.10	26	3/4" BSP	69.8	35.7	M.12	Ø38	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	333		116.5		36.5																		
54 *G09MR		36	338		121.5		41.5																		
66 *G09MR		44	345		128		48																		
84 *G09MR		56	354		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	361		144.5		64.5																		
110 *G09MR		73,3	369		152		72																		
▲PNK 150 - 36 *G09MR	100	24	337	194	111.5	64	31.5	69.8	35.7	M.12	Ø38	52.4	26.2	M.10	26	3/4" BSP	77.8	42.9	M.12	Ø50	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	342		116.5		36.5																		
54 *G09MR		36	347		121.5		41.5																		
66 *G09MR		44	353		128		48																		
84 *G09MR		56	363		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	370		144.5		64.5																		
110 *G09MR		73,3	377		152		72																		
▲PNK 175 - 36 *G09MR	116,6	24	345	202	111.5	72	31.5	69.8	35.7	M.12	Ø38	52.4	26.2	M.10	26	3/4" BSP	77.8	42.9	M.12	Ø50	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	350		116.5		36.5																		
54 *G09MR		36	355		121.5		41.5																		
66 *G09MR		44	361		128		48																		
84 *G09MR		56	371		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	378		144.5		64.5																		
110 *G09MR		73,3	385		152		72																		
▲PNK 200 - 36 *G09MR	133,3	24	353	210.5	111.5	80.5	31.5	69.8	35.7	M.12	Ø38	52.4	26.2	M.10	26	3/4" BSP	77.8	42.9	M.12	Ø50	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	358		116.5		36.5																		
54 *G09MR		36	363		121.5		41.5																		
66 *G09MR		44	370		128		48																		
84 *G09MR		56	379		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	386		144.5		64.5																		
110 *G09MR		73,3	394		152		72																		
▲PNK 225 - 36 *G09MR	150	24	361	218.5	111.5	88.5	31.5	69.8	35.7	M.12	Ø38	52.4	26.2	M.10	26	3/4" BSP	77.8	42.9	M.12	Ø50	58.7	30.2	M.10	32	1" BSP
45 *G09MR		30	366		116.5		36.5																		
54 *G09MR		36	371		121.5		41.5																		
66 *G09MR		44	378		128		48																		
84 *G09MR		56	387		137.5		57.5					58.7	30.2		32	1" BSP					69.9	35.7	M.12	38	1"1/4 BSP
96 *G09MR		64	394		144.5		64.5																		
110 *G09MR		73,3	402		152		72																		

Bomba doble de engranajes
Double Gear Pump
Tapa tipo / Front Flange type 09

Serie Type

PNH



Forma Conexión B
Connection form B

Forma Conexión F
Connection form F

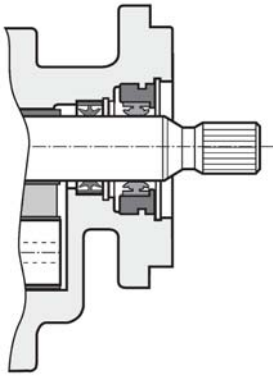
Sentido de giro *Rotation sense*	Aspiración *Suction*	Presión *Pressure*
⁎D Derecha *Clockwise*	T	P
⁎I Izquierda *Counter Clockwise*	P	T

Eje forma / Shaft form G

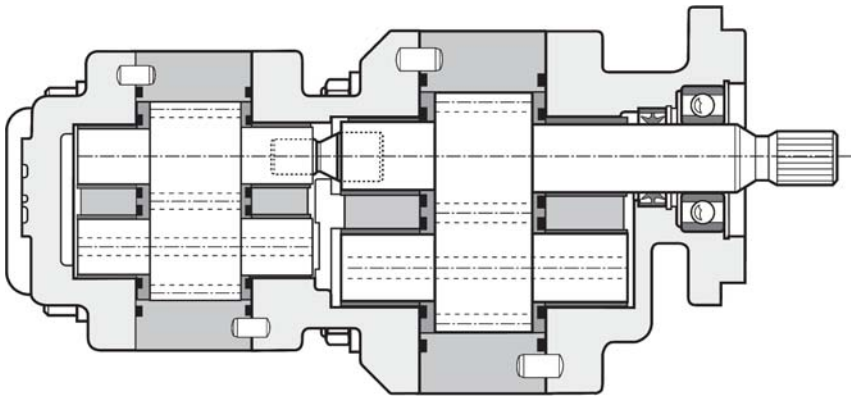
Características / *Spline data*
ANSI B92.1
Diametral pitch 12/24
Angulo de presión / *Pressure angle* 30°
Nº de dientes / *Teeth number* 14

Referencia *Reference*	Cilindrada *Displacement* cm³/v		A	B	G	H	Presión / *Pressure*										Aspiración / *Suction*									
							Conexión / *Connection*										Conexión / *Connection*									
							M(S.A.E.)				R	B			F			M(S.A.E.)				R	B			F	
	PNC	L					C	D	E	F	S	J	K	M	L	P	N	C	D	E	F	S	J	K	M	L	P	N
▲ PNH 80 - 9 *G09MR	53.3	6	304	171	82.5	41	58.7	30.2	M.10	Ø32	3/8" BSP	30	M.6	13.5	35	M.6	15	69.8	35.7	M.12	Ø38	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	308		84.6																							
16 *G09MR		10.6	312		88									15									40	M.8	20			20
22 *G09MR		14.6	319		88																							
27 *G09MR		18	325		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	334		95.5																							
▲PNH 100 - 9 *G09MR	66.6	6	311	177.5	82.5	47.5	58.7	30.2	M.10	Ø32	3/8" BSP	30	M.6	13.5	35	M.6	15	69.8	35.7	M.12	Ø38	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	314		84.6																							
16 *G09MR		10.6	319		88									15									40	M.8	20			20
22 *G09MR		14.6	325		88																							
27 *G09MR		18	331		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	340		96.5																							
▲PNH 125 - 9 *G09MR	83.3	6	319	185.5	82.5	55.5	58.7	30.2	M.10	Ø32	3/8" BSP	30	M.6	13.5	35	M.6	15	69.8	35.7	M.12	Ø38	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	322		84.6																							
16 *G09MR		10.6	327		88									15									40	M.8	20			20
22 *G09MR		14.6	333		88																							
27 *G09MR		18	339		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	348		96.5																							
▲PNH 150 - 9 *G09MR	100	6	327	194	82.5	64	69.8	35.7	M.12	Ø38	3/8" BSP	30	M.6	13.5	35	M.6	15	77.8	42.9	M.12	Ø50	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	331		84.6																							
16 *G09MR		10.6	335		88									15									40	M.8	20			20
22 *G09MR		14.6	342		88																							
27 *G09MR		18	348		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	357		96.5																							
▲PNH 175 - 9 *G09MR	116.6	6	335	202	82.5	72	69.8	35.7	M.12	Ø38	3/8" BSP	30	M.6	13.5	35	M.6	15	77.8	42.9	M.12	Ø50	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	339		84.6																							
16 *G09MR		10.6	343		88									15									40	M.8	20			20
22 *G09MR		14.6	350		88																							
27 *G09MR		18	356		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	365		96.5																							
▲PNH 200 - 9 *G09MR	133.3	6	344	210.5	82.5	80.5	69.8	35.7	M.12	Ø38	3/8" BSP	30	M.6	13.5	35	M.6	15	77.8	42.9	M.12	Ø50	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	347		84.6																							
16 *G09MR		10.6	351		88									15									40	M.8	20			20
22 *G09MR		14.6	358		88																							
27 *G09MR		18	364		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	373		96.5																							
▲PNH 225 - 9 *G09MR	150	6	352	21.5	82.5	88.5	69.8	35.7	M.12	Ø38	3/8" BSP	30	M.6	13.5	35	M.6	15	77.8	42.9	M.12	Ø50	1/2" BSP	30	M6	13.5	40	M.6	15
12 *G09MR		8	355		84.6																							
16 *G09MR		10.6	360		88									15									40	M.8	20			20
22 *G09MR		14.6	366		88																							
27 *G09MR		18	372		88						1/2" BSP											3/4" BSP						
35 *G09MR		23.3	381		96.5																							

Sección / *Section* — PNK

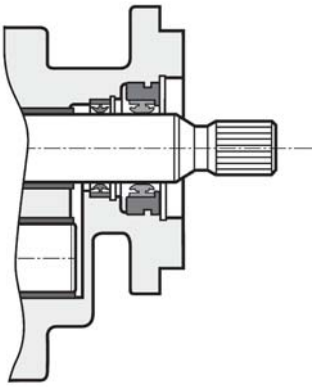


▲
14 PNK... Con dos retenes y fuga exterior.
With two shafts seals and external drain.

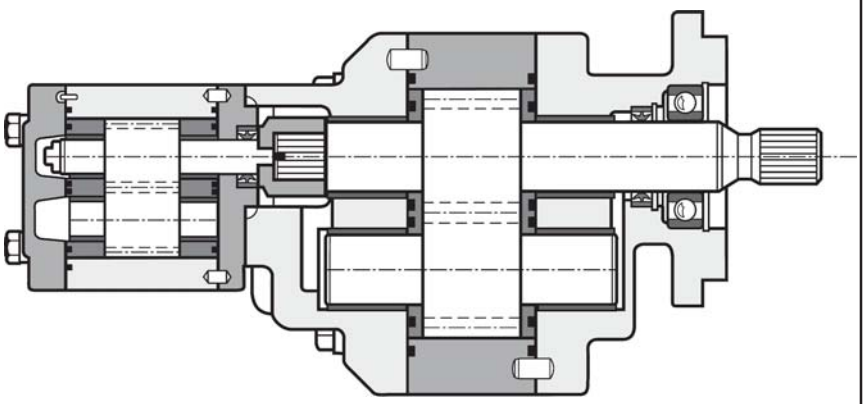


▲
13 PNK... Con cojinete de apoyo y retén.
With ball bearing and shaft seal.

Sección / *Section* — PNH



▲
14 PNH... Con dos retenes y fuga exterior.
With two shafts seals and external drain.



▲
13 PNH... Con cojinete de apoyo y retén.
With ball bearing and shaft seal.

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