



PISTON PUMP Z SERIES

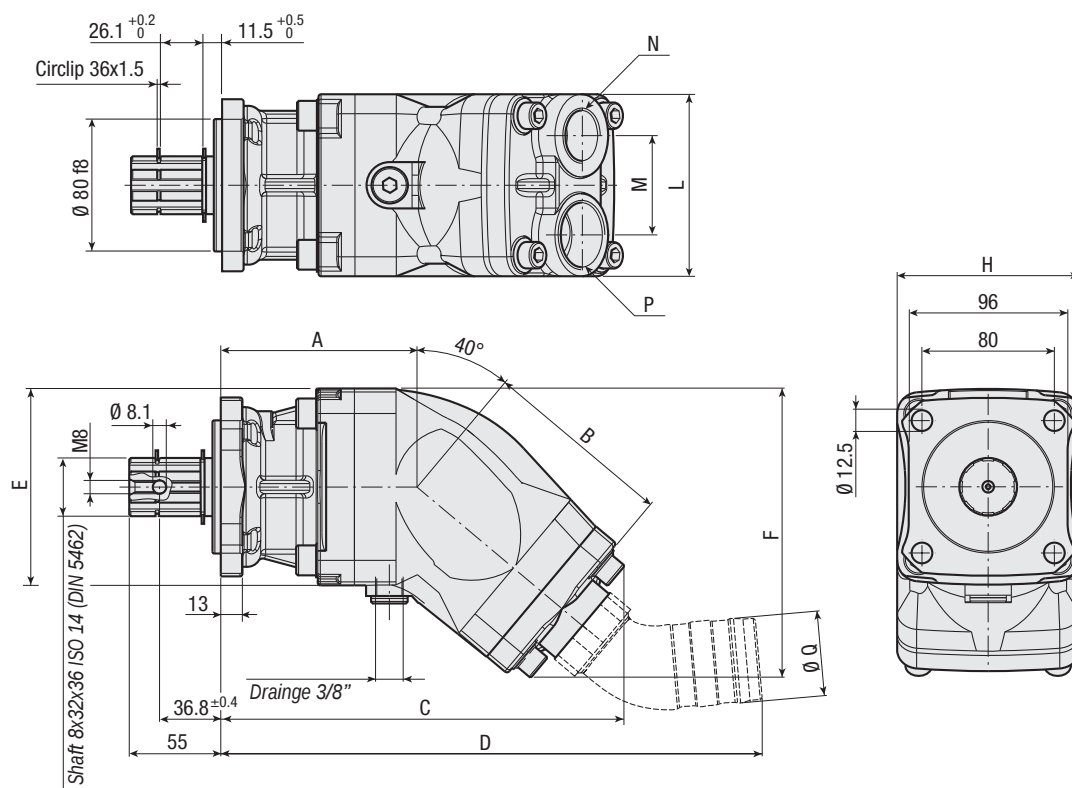
GEMMA PISTON POMPA Z SERİSİ



SPECIFICATIONS AND TECHNICAL DATA

PISTON PUMP Z

CODE			35703431/32	35704731/32	35706431/32	35708431/32	35710631/32
Displacement	Vg	cm ³ /n cm ³ /rev.	34.60	47.39	64.08	84.38	107.70
Max operating pressure	P1	bar	450	450	450	400	350
Max peak pressure (≤ 0.1 s)	P3		500	500	500	450	400
Max intermittent speed (P ≤ 30 bar)	n3	n/min r.p.m.	3000	2500	2500	2000	2000
Max continuous speed (≤ P1)	n1		2300	1900	1900	1600	1500
Min intermittent speed (≤ P1 x 0.5) (max 30 s)	n4		300				
Suction pressure (absolute)	P	bar	0.7 ÷ 1.5				
Operating viscosity range	√	cST	9 ÷ 75				
Optimal viscosity range	√		15 ÷ 46				
Start up max viscosity	√		1000				
Fluid temperature °C (t)	t	°C	-25° ÷ 80°				



SPECIFICATIONS AND TECHNICAL DATA

CODE	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	OUTLET N	INLET		WEIGHT kg
												P	Q mm	
35703431/32	109	113	220	308	107	157	107.5	102	95	46	3/4" G	1" G	45	10.5
35704731/32	109	113	220	308	107	157	107.5	102	95	46	3/4" G	1" G	45	10.5
35705631/32	118	128	240	328	118	173	107.5	110	110	60	1" G	1" 1/4 G	51	13.5
35706431/32														
35708431/32	118	128	240	328	118	173	107.5	110	110	60	1" G	1" 1/4 G	51	13.5
35710631/32	118	128	240	328	118	173	107.5	110	110	60	1" G	1" 1/4 G	51	13.5

Piston pump Z series reserves the right to modify the technical data mentioned into this catalogue without notice.
The herewith mentioned data are not bounding.

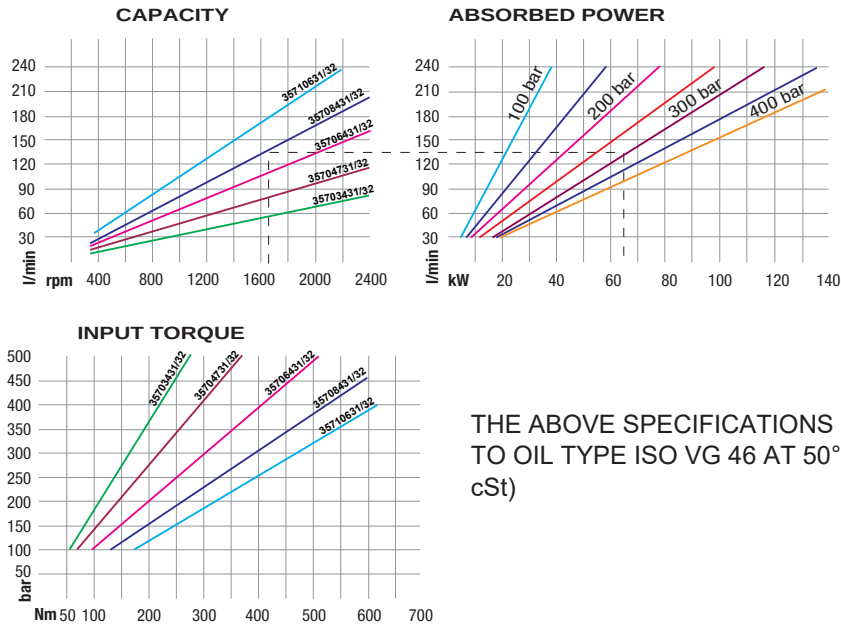


TECHNICAL DATA

TEKNIK VERİLER



DIAGRAMS



THE ABOVE SPECIFICATIONS REFER TO OIL TYPE ISO VG 46 AT 50° C ($\gamma = 30$ cSt)

FILTERING

> Filtering on return line (or outlet) recommended. Refer to the side table.

A filter on the inlet is not recommended because of possible cavitation problems.

If it is necessary, the suction pressure limit of -0,3 bar (corresponding to 0,7 absolute bar) must be respected.

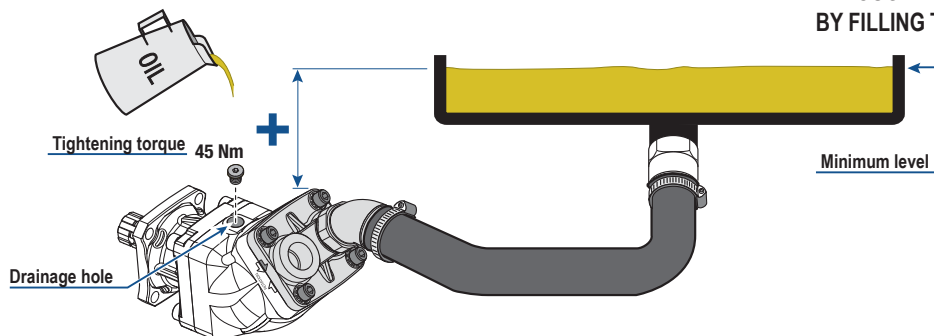
Working Press P2	Contamination		Filter $\beta_x = 75$
	NAS 1638	ISO 4406	
≤ 200 bar	10	19/16	25 μm
< 300 bar	9	18/15	20 μm
≥ 300 bar	8	17/14	10 μm

FITTINGS

> Make use of cylindric gas-fi ttings (BSP) with O-ring, bonded-seal on the pump. Do NOT use fittings with conical thread (NPT).

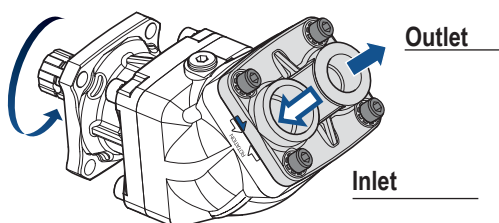
INSTALLATION INSTRUCTIONS

BEFORE STARTING UP MAKE SURE THAT THE PUMP IS FILLED WITH OIL, EITHER BY BLEEDING THE AIR THROUGH THE DRAINAGE HOLE OR BY FILLING THE PUMP PREVIOUSLY.



Failing to observe this rule may cause damages to the pump.

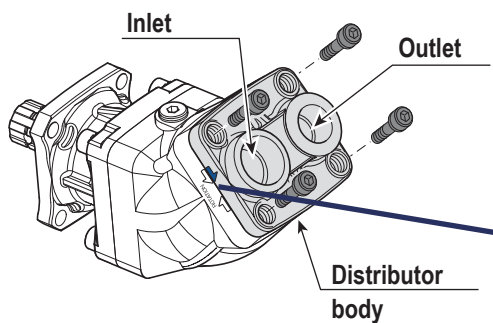
DIRECTION OF ROTATION-CHANGE OF ROTATION



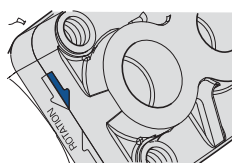
Choosing the direction of rotation.

CLOCKWISE ROTATING PUMP
(ANTICLOCKWISE ROTATING P.T.O.)

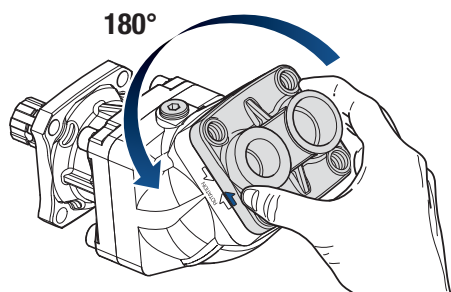
Tightening torque
screws 80 Nm



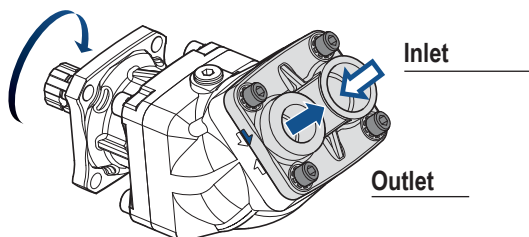
To change the direction of rotation remove the 4 screws and, keeping the distributor body close to the pump, rotate it by 180°. Tighten the 4 screws at 80 ± 5 Nm.



ARROW + NOTCH =
DIRECTION OF ROTATION



WARNING:
during this operation the distributor body must not move away from the pump body more than 2 mm.



ANTICLOCKWISE ROTATING PUMP
(CLOCKWISE ROTATING P.T.O.)