3PE

Aluminium gear pumps

Technical Catalogue

E0.130.0416.02.00IM02

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	Displacement		Working pressure P1**		Intermittent pressure P ²		Peak pressure P³		Max. speed	Min. speed
GROUP 3 - E SERIES	cm³/rev	cu.in /fev	bar	psi	bar	psi	bar	psi	mi	in-1
3PE - 21*	20.6	1.26	250	3625	280	4060	300	4350	3000	600
3PE - 27	27	1.65	250	3625	280	4060	300	4350	3000	600
3PE - 33	33.5	204	250	3625	280	4060	300	4350	3000	600
3PE - 38	38.7	236	250	3625	280	4060	300	4350	2750	500
3PE - 46	46.9	286	250	3625	270	3915	280	4060	2750	500
3PE - 55	54.1	33	220	3140	240	3480	250	3625	2500	400
3PE - 65	63.1	385	200	2900	220	3140	240	3480	2500	400
3PE - 75*	73.4	4.48	180	2610	200	2900	220	3140	2500	400

^{*}Displacements 21 and 75 are special release, please contact sales department.

GROUP 3.5 - C SERIES	cm³/rev	cu.in /fev	bar	psi	bar	psi	bar	psi	mi	in-1
3.5PC - 55	54.8	334	250	3625	280	4060	300	4350	2750	400
3.5PC - 64	63.2	3 <i>8</i> 5	250	3625	280	4060	300	4350	2750	350
3.5PC - 75	74.7	4.55	230	3330	250	3625	280	4060	2500	300
3.5PC - 87	88	5 <i>3</i> 6	210	3040	230	3330	260	3750	2250	300
3.5PC - 98*	99	603	200	2900	220	3140	250	3625	2000	300

^{*}Displacement 98 are special release, please contact sales department.

For bidirectional pump the max pressure has to be reduced of 10%.

The max pressure is refered to pumps with flanged ports, using the threaded ports the pump life could be reduced.

^{**}For working conditions, using exclusively pressure P1, the value of max. speed must be reduced of 10%.

GEAR PUMPS "E" SERIES

Aluminium Body

SHAFTS AND FLANGES COMBINATION

3PE	CODE P2 - European stand.	CODE B6 - German stand.	CODE P3 - European stand. for 3,5PC	CODE \$3 - SAE B
CODE 35 - Tapered 1:5		35B6		
CODE 38 - Tapered 1:8	38P2			
CODE 48 - Tapered 1:8 for 3,5PC			48P3	
CODE 55 - SAE B 13T				55S3
CODE 56 - SAE BB 15T				56S3
CODE 87 - SAE B parallel				87S3
CODE 88 - SAE BB parallel				88S3
CODE 05 - Tang drive for electric motors		05B6		

Displacements up to 4.48cu.in. fev Pressure up to 4350psi



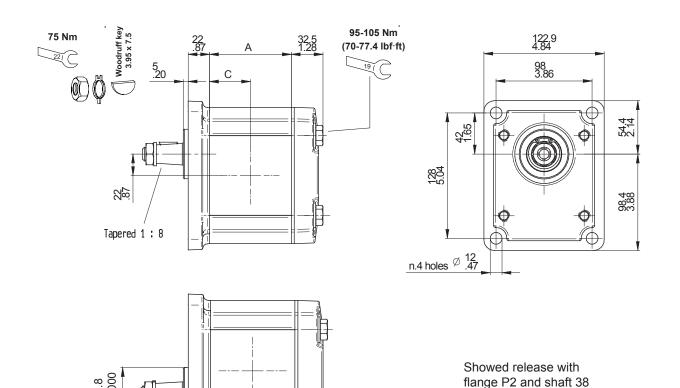
GEAR PUMPS

Displacements up to 73.4 cm³/rev Pressure up to 300 bar

ASSEMBLING DIMENSIONS

Туре		21*	27	33	38	46	55	65	75*
Displacement	cm³/rev	20.6	27	33.5	38.7	46.9	54.1	63.1	73.4
	cu.in./rev	<i>1.2</i> 6	1. <i>6</i> 5	204	2 <i>3</i> 6	2 <i>8</i> 6	33	3 <i>8</i> 5	<i>4.4</i> 8
Dimension A	mm	74	79	84	88	104	110	117	124
	in	2 <i>9</i> 1	3 <i>1</i> 1	3 <i>3</i> 1	3 <i>4</i> 6	<i>4.0</i> 9	<i>4.3</i> 3	4.61	4.88
Dimension C	mm	37	39.5	42	44	52	55	58.5	62
	in	1. <i>4</i> 6	<i>1.5</i> 6	1. <i>6</i> 5	1. 73	205	217	2 <i>3</i> 0	2 44
Weight	kg	8.6	8.9	9.1	9.4	10.1	10.5	10.8	11.2
	lbs	19	196	<i>2</i> 0 <i>1</i>	<i>2</i> 06	<i>2</i> 2.3	<i>2</i> 3	<i>2</i> 3 <i>8</i>	<i>2</i> 4.6

^{*}Displacements 21 and 75 are special release, please contact sales department.



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Displacements up to 4.48cu.in. fev Pressure up to 4.350psi

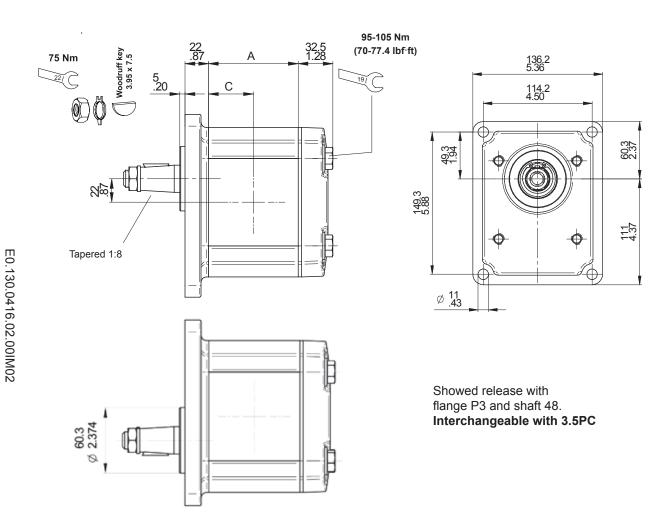


Displacements up to 73.4 cm³/rev Pressure up to 300 bar

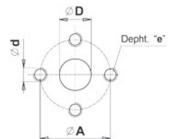
ASSEMBLING DIMENSIONS

Туре		46	55	65	75*
Displacement	cm³/rev	46.9	54.1	63.1	73.4
	cu.in./rev	2 <i>8</i> 6	33	3 <i>8</i> 5	<i>4.4</i> 8
Dimension A	mm 104		110	117	124
	in 4 <i>0</i> 9		4 33	4 <i>6</i> 1	4 <i>8</i> 8
Dimension C	mm	52	55	58.5	62
	in	2 <i>0</i> 5	217	2.30	2 44
Weight	kg	10.1	10.5	10.8	11.2
	lbs	<i>2</i> 2.3	<i>2</i> 3	<i>2</i> 3.8	<i>2</i> 4.6

^{*}Displacements 75 are special release, please contact sales department.



FLANGED AND THREADED PORTS



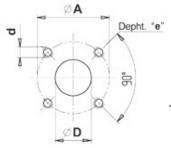
INLET OUTLET TYPE UNI-DIRECTIONAL ØΑ ØΒ ØΑ ØD е е 27 16 40 From 21 to 55 M10 M8 (1.06") (063") (1.57") (201") 16 (0*63*′) 16 (063") 33 62 21 51 From 65 to 75 M12 M10 (1.3') (244") (083′) (201")

code P

Flanged ports european standard

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BI-DIRECTIONAL PUMPS Special version available on request.

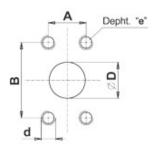


OUTLET TYPE INLET UNI-DIRECTIONAL ØΒ ØΑ ØΒ ØΑ d d е е **PUMPS** 22 21 (Q*8*6") M8 M8 (217") (0.51") (Q 75") (217") (Q51") 27 From 27 to 75 (1.06")

code B

Flanged ports german standard

BI-DIRECTIONAL PUMPS Special version available on request.



$=$ \bigcirc	TYPE			INLET			OUTLET					
UNI-DIRECTIONAL PUMPS		ØD	В	A	d	е	ØD	В	A	d	е	
	From 21 to 38	26 (1. <i>02</i> ′)	52.4 (2 <i>0</i> 6′)	26.2 (1. <i>03</i> ′)	M10	18 <i>(</i> 0 71")	19 <i>(Q 75")</i>	47.6 (1. <i>87</i> ")			18	
	From 46 to 75	32 (1. <i>2</i> 6′)	58.7 (2.31")	30.2 (1.19')			26 (1.02')	52.4 (2 <i>0</i> 6′)	26.2 (1. <i>0</i> 3′)		(Q 71")	

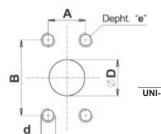
code W

Flanged ports SAE J518 METRIC THREAD =

BI-DIRECTIONAL PUMPS Special version available on request.

GEAR PUMPS "E" SERIES





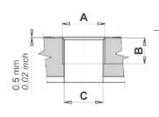
UNI-DIRECTIONAL

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7	TYPE			INLET		OUTLET						
S		ØD	В	Α	d	е	ØD	В	Α	d	е	
	From 21 to 38	26 (1.02')	52.4 (2 <i>0</i> 6′)	26.2 (1. <i>O</i> 3′)	3/8 16 UNC	18	19 <i>(Q 75")</i>	47.6 (1.87")	22.2 (0.87")	3/8	18 (<i>Q 71"</i>)	
	From 46 to 75	32 (1. <i>2</i> 6′)	58.7 (2.31")	30.2 (1.19′)	7/16 14 UNC	(0.71")	26 (1.02')	52.4 (2 <i>0</i> 6′)	26.2 (1. <i>O3</i> ′)	16 UNC		

code S

Flanged ports SAE J518 AMERICAN STANDARD THREAD

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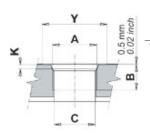
OUTLET TYPE INLET UNI-DIRECTIONAL PUMPS Α В С Α В С From 22 27 G1 21 to 38 (0.86") (1.06") 27 (1.*0*6′) 22 G1 (0*8*6″) 24 (O*94*") 32.5 (1.*2*8′) From G1 1/4 46 to 75

code G

Threaded ports GAS (BSPP)



BI-DIRECTIONAL PUMPS Special version available on request.



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code R

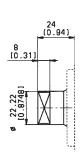
Threaded ports SAE (ODT)

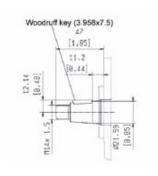
_											
\neg	TYPE			INLET		OUTLET					
UNI-DIRECTIONAL PUMPS		Α	В	С	Y	К	Α	В	С	Y	к
	From 21 to 38	1-5/16-12 UN (SAE 16)	19	25 (Q <i>9</i> 8')	49 (1.93')	3.3 (O12')	1-1/16-12 UN (SAE 12)	19 <i>(Q 75')</i>	21 (0 <i>83</i> ")	41 (1.16')	3.3 (Q13')
	From 46 to 75	1-5/8-12 UN (SAE 20)	(Q 75')	27 (1.06')	58 (2 <i>2</i> 8′)		1-5/16-12 UN (SAE 16)		25 (Q <i>9</i> 8')	49 (1. <i>9</i> 3′)	

BI-DIRECTIONAL PUMPS Special version available on request.



DRIVE SHAFTS



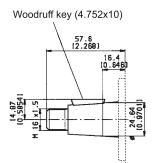


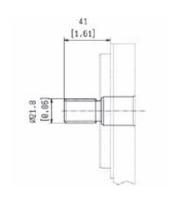
code 05 Max torque 180 Nm (1590 lbf in)

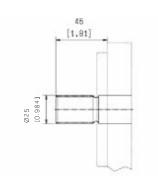
Tang drive for electric motors

code 35 Max torque 260 Nm (2300 lbf in)
European tapered 1:5

code 38 Max torque 250 Nm (2213 lbf in)
European tapered 1:8





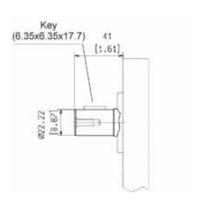


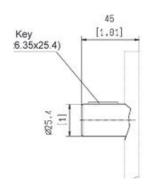
code 48 Max torque 350 Nm (3100 lbf in)
European tapered 1:8 for 3.5PC

code 55 Max torque 330 Nm (2921 lbf in)
SAE B 13T-16/32DP Ansi B92 1a 1976

code 56 Max torque 480 Nm (4250 lbf in)

SAE BB 15T-16/32DP Ansi B92 1a 1976

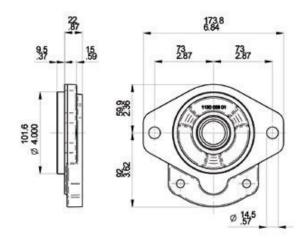


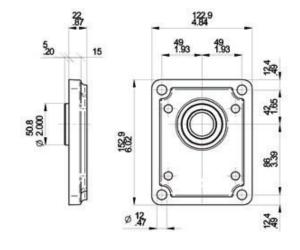


code 87 Max torque 220 Nm (1950 lbf in)
SAE B Parallel

code 88 Max torque 320 Nm (2830 lbf in)
SAE BB Parallel

MOUNTING FLANGES

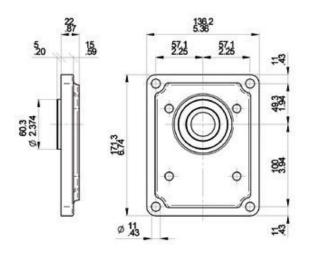


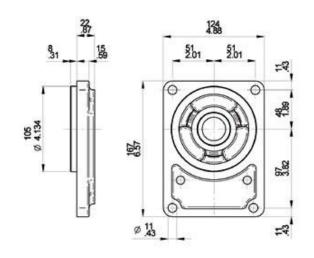


SAE B 2 Bolts

With shaft code 55-56-87-88

P2 European standard
With shaft code 38





P3 European standard for 3.5PC
With shaft code 48

B6 German standard
With shaft code 05-35

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