

External gear pump High Performance AZPG



▶ Platform G

- ► Fixed displacement
- ▶ Size 22 ... 100
- ▶ Continuous pressure up to 250 bar
- ▶ Intermittent pressure up to 280 bar

Features

- ► Consistently high quality due to high-volume series production
- ▶ Long service life
- Slide bearings for high loading
- Drive shafts conforming to ISO or SAE and customer-specific solutions
- ► Line connections: Connection flanges or screw-in threads
- ▶ Combinations of several pumps possible

Contents

Product description	2
AZPG preferred types product overview	3
Single pump type code	2
Multiple pump type code	6
Technical data	8
Hydraulic fluid	10
Gear pumps with integrated valves	11
Drive	12
Max. transmissible drive torques	14
Multiple gear pumps	15
Diagrams/characteristic curves	16
Dimensions – drive shaft	21
Dimensions – front cover	22
Dimensions – line connections	23
Dimensions – preferred series	24
Accessories	58
Spare parts	59
Project planning notes	60
Order number overview	61
AZ Configurator	64
Fit/ISII ENCE ann	6/

Product description

General

The key task of external gear pumps is to convert mechanical energy (torque and rotational speed) into hydraulic energy (flow and pressure). To reduce heat loss, Rexroth external gear units are designed to be extremely efficient. This efficiency is achieved through pressure-dependent gap sealing and high-precision manufacturing technology.

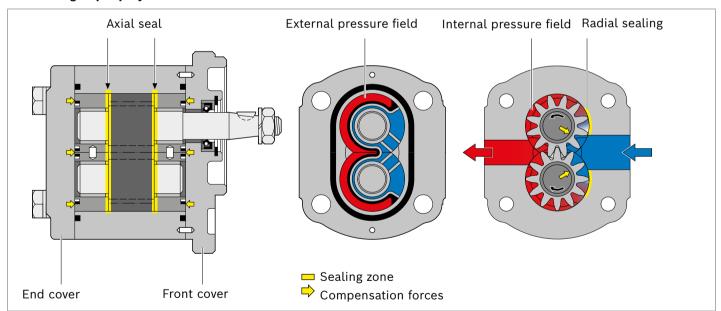
Rexroth external gear pumps are available in four frame sizes: Platforms B, F, N and G, with different gear widths within a platform for different displacements. The pumps come in Standard, High-Performance, SILENCE and SILENCE PLUS versions. Additional versions with different flanges, shafts, valve attachments and multiple pump combinations are also available.

Design

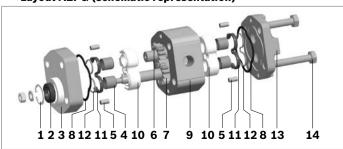
The external gear pump consists essentially of a pair of gear wheels supported in bearing bushings and the housing with a front cover and an end cover.

The drive shaft protrudes from the front cover where it is usually sealed by the shaft seal. The bearing forces are absorbed by slide bearings. These bearings were designed for high pressures and have excellent emergency running properties, especially at low rotational speeds. The gear wheels have 12 teeth. This keeps both flow pulsation and noise emission to a minimum. The internal sealing of the pressure chambers is achieved by delivery pressure-dependent forces. This ensures optimum efficiency. On the rear side, the movable bearing bushings are pressurized with working pressure and pressed as seals against the gear wheels. The pressurized compression areas are limited by special seals. The seal in the area between the gear teeth and the housing is ensured by the smallest of gaps that adjust depending on the pressure between the gear teeth and housing.

▼ External gear pump layout



▼ Layout AZPG (schematic representation)



- Retaining ring
- 2 Shaft seal
- **3** Front cover
- **4** Slide bearings
- Centering pin
- **6** Gear wheel
- **7** Drive shaft

- 8 Housing seal ring
- 9 Pump housing
- **10** Bearing bushing
- 11 Axial field seal
- **12** Supporting element
- 13 End cover
- 14 Torx screws

AZPG preferred types product overview

Version	Page	Version	Page	Version	Page
	22	· i i i i i i i i i i i i i	23		24 25 26
	27 28 29		30 31 32		33 34 35
	36 37 38		39 40 41		42
	43 44 45		46 47 48		49
;;;;	50 51	i ci	52 54 55		53

4 **AZPG** | External gear pump High Performance Single pump type code

Single pump type code¹⁾

01	02		03	04		05	06	07	08	09	10	11		12	13	14
AZI	P G	-		2	_								-			
	nal gear unit													•	•	
01	External gear	r pump										,	,			AZP
Serie																
02	High Perform	nance,	Platforn	n G												G
Serie	s															
03	Reinforced b	earings	5													1
	Standard bea	arings														2
	Standard bea	arings,	housing	g in GJS-4	100											3
Versi	Version															
04	Corrosion-res	sistant	, pinnec	d												2
Size (NG)															
05	For geometri	c displ	acemer	nt $oldsymbol{V}_{g}$ [cm 3	³], see "	Table of	f values"	022	025 02	28 032	036 040	045 05	0 056	63 070	080 100	.]
Direc	tion of rotation	on														
06	Viewed on di	rive sha	aft			lockwis	е									R
					C	counter-clockwise										
Drive	shaft				5	Suitable front cover										
07	Tapered shaf	t	1:5		E	3										С
			1:8		()										Н
	Splined shaf	t	SAE J	744 22-4	13T ()										D
			SAE J	744 25-4	15T (,						,		Е
	Parallel keye	d	SAE J	744 22-1	()		,			,	,				Q
	shaft		ISO Ø	25 mm	>	(Α
Front	cover														-	-
08	Rectangular	flange	Ø105	mm												В
	Rectangular															0
	2-hole flange	<u>:</u>	Ø101.	.6 mm	5	SAE J74	4 101-2 B									С
Line o	connection															-
09	SAE rectangu	ular flaı	nge, me	tric threa	d å	 										07
	SAE rectangu					 										40
	Square flang		<u> </u>			K in										20
	Square flang					***										30
	SAE thread (, BOSS	O-ring		*										12
Seali	ng material					r			-							
	NBR (nitrile	rubber)													М
.	FKM (fluoroe															P
	(1140106		,													⊢ '

^{1) -} Some type code combinations are not possible.

NBR (nitrile rubber), shaft seal made of FKM (fluoroelastomer)

Please select the desired pump with the help of the selection tables (preferred types) or after consultation with Bosch Rexroth.

⁻ Further options are available on request.

End cover

11	With axial pressure and suction p	port		Α
	Without valve (standard)			В
	With pressure relief valve	Pressure discharge	Internal	D
	With flow control valve	Residual flow	External	E
			Internal	S
	With pressure relief valve and flo	w control valve		V

Valve setting pressure relief valve (parameter only required for end cover with pressure relief valve and/or flow control valve)

1	2	Without pressure relief valve	XXX]
		Cracking pressure in bar, 3-digit, e.g. 180 bar	180	

Valve setting flow control valve (parameter only required for end cover with pressure relief valve and/or flow control valve)

13	Without flow control valve	XX
	Flow in l/min, 2-digit, e.g. 9 l/min	09

Special version

14	Special version	sxxxx	
----	-----------------	-------	--

6

Multiple pump type code¹⁾

0	1	02		03	04		05	06	07	08	09	10	11	12
A	ZP	G	-			-								
	•				•	•	•	•	•	•		-	•	
	1	ear unit												
01	Exte	rnal gear	pump											AZP
Serie	es ²⁾													
02	High	-Perform	ance	1.0 to 7.1	1 cm³/rev				Data she	et 10088				В
				4.0 to 28	-				Data she	et 10089				F
					6 cm ³ /rev				Data she	et 10091				N
				22.5 to 1	00 cm ³ /rev				Data she	et 10093				G
	SILE	NCE		4.0 to 28	-				Data she	et 10095				S
					6 cm ³ /rev				Data she	et 10092				Т
					3 cm³/rev				Data she	et 10098				U
	SILE	NCE PLU	JS	12.0 to 2	8 cm ³ /rev				Data she	et 10094				J
Serie	s (ac	cording t	o data :	sheet of pun	np stage 1)									
03	Stan	dard bea	rings											1
	Rein	forced b	earings											2
Versi	i on (a	ccording	to data	sheet of pu	mp stage 1)								
04	Phos	sphated,	pinned										,	1
	Chro	omated, p	oinned											2
Size	(NG) ³	3)												·
05	T		e with o	data sheet fo	or the indivi	dual serie	es							
Direc	tion	of rotation	n											
06	View	ved on dr	ive sha	ft			clockwise			,			,	R
						-	counter-cl	ockwise						L
Drive	shaf	t (relates	to pur	np stage 1)										
07	1			data sheet fo	or pump sta	ge 1								
Fron				mp stage 1)	-									
08	1			data sheet fo	or pump sta	ge 1								
Line	conne	ection (n	er pum	p stage) ⁴⁾										
	1			data sheet fo	or the indivi	dual serie	es 1							
	'	aterial												
10	_	(nitrile i	uhher)											М
'0		(fluoroe		-r)										P
	_			, shaft seal r	made of FK	M (fluoro	elastomer)							K
End	1			pump stage)		(1.0010								, ,
	T					n stage								
	11 In accordance with data sheet for last pump stage pecial version													

- $_{
 m 1)}\,$ Some type code combinations are not possible.
 - Please select the desired pump with the help of the selection tables (preferred types) or after consultation with Bosch Rexroth.
 - Further special options are available on request
- 2) A letter is to be selected for each pump stage, e.g. 3-way pump AZPJ + AZPJ + AZPB: JJB
- 3) A numerical value is to be selected for each pump stage, e.g. 3-way pump 028/016/2.0

sxxxx

4) A numerical value is to be selected for each pump stage, e.g. 3-way pump 202020

12 Special version

Example for 4-way pump:

AZPG... 032... + AZPG... 022... + AZPJ...016... + AZPJ...012...

01	02		03	04		05	06	07	80	09	10	11	_
AZP	GGJJ	-	2	2	_	032/022/016/012	R	С	В	20202020	K	В	

Technical data

▼ Table of values

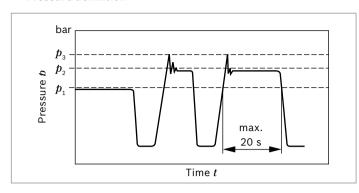
Size					22	25	28	32	36	40	45
Series								2x			
Geometric displacement per revolution	ent,		V_{g}	cm ³	22.5	25	28	32	36	40	45
Pressure at suction po	absolute	p_{e}	bar				0.7 3				
Maximum continuous		p_1	bar	250	250	250	250	250	250	250	
Maximum intermittent	pressure ²⁾		p_2	bar	280	280	280	280	280	280	280
Maximum pressure pe	ak		<i>p</i> ₃	bar	300	300	300	300	300	300	300
		<i>p</i> < 100 bar	n_{min}	rpm	500	500	500	500	500	500	500
Minimum rotational	$v = 12 \text{ mm}^{2/}\text{s}$	<i>p</i> = 100 180 bar	n_{min}	rpm	1200	1200	1000	1000	1000	800	800
speed at		<i>p</i> = 180 bar <i>p</i> ₂	n_{min}	rpm	1400	1400	1400	1400	1200	1200	1000
	ν =25 mm ^{2/} s	at p_2	n_{min}	rpm	600	600	500	500	500	500	500
Maximum rotational sp	peed	at p_2	$n_{\sf max}$	rpm	3000	3000	3000	2800	2800	2800	2600
Size					50	56	63	70	80	100	
Series											
Geometric displacement per revolution	ent,		V_{g}	cm ³	50	56	63	70	80	100	
Pressure at suction po	<u>-</u>										
	ort S ¹⁾	abs.	p_{e}	bar			0.7	3			
Max. continuous press		abs.	<i>p</i> _e <i>p</i> ₁	bar bar	220	195	0.7	3	90	80	
Max. continuous press Max. intermittent pres	sure	abs.			220 250	195 225			90	80	
	sure	abs.	<i>p</i> ₁	bar			170	120			
Max. intermittent pres	sure	<i>p</i> < 100 bar	p ₁ p ₂	bar bar	250	225	170 200	120 150	120	100	
Max. intermittent pres	sure ssure ²⁾		p_1 p_2 p_3 n_{\min}	bar bar bar	250 280	225 250	170 200 230	120 150 180	120 150	100	
Max. intermittent pres Max. pressure peak	sure ssure ²⁾	<i>p</i> < 100 bar	p_1 p_2 p_3 n_{\min}	bar bar bar rpm	250 280 500	225 250 500	170 200 230 500	120 150 180 500	120 150 500	100 120 500	
Max. intermittent pres Max. pressure peak Minimum rotational	sure ssure ²⁾	$p < 100 \text{ bar}$ $p = 100 \dots 180 \text{ bar}$ $p = 180 \text{ bar} p_2$	p_1 p_2 p_3 n_{\min}	bar bar bar rpm	250 280 500 800	225 250 500 800	170 200 230 500 800	120 150 180 500 800	120 150 500 800	100 120 500 800	

General technical data			
Weight	m	kg	See chapter "Dimensions"
Installation position			No restrictions
Type of mounting			Flange or through-bolting with spigot
Line connections			See chapter "Dimensions"
Direction of rotation viewed on drive shaft			Clockwise or counterclockwise; only operate the pump in the direction indicated
Drive shaft loading			Axial and radial forces upon consultation only
A b.: b		0.0	-30 to +80 with NBR seals (NBR = nitrile rubber)
Ambient temperature range	τ	°C	-20 to +110 with FKM seals (FKM = fluoroelastomer)

In the case of tandem pumps, the suction-side pressure difference between the individual pump stages must not exceed 0.5 bar.

²⁾ Limited service life for line connections with thread and $p_2 > 210~{\rm bar}$

▼ Pressure definition



 p_1 Max. continuous pressure

p₂ Max. intermittent pressure

 p_3 Max. pressure peak

Determining the operating characteristics										
Flow	$q_{\rm v} = \frac{V_{\rm g} \times n \times \eta_{\rm v}}{1000}$	[l/min]								
Torque	$M = \frac{V_{\rm g} \times \Delta p}{20 \times \pi \times \eta_{\rm hm}}$	[Nm]								
Power	$P = \frac{2 \pi \times M \times n}{60000} = \frac{q_{v} \times \Delta p}{600 \times \eta_{t}}$	— [kW]								

Key

 $V_{\rm g}$ Displacement per revolution [cm³]

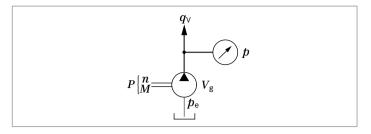
 Δp Differential pressure [bar] ($\Delta p = p - p_e$)

 $\it n$ Rotational speed [rpm]

 $\eta_{\rm v}$ Volumetric efficiency

 η_{hm} Hydraulic-mechanical efficiency

 $\eta_{\rm t}$ Total efficiency ($\eta_{\rm t}$ = $\eta_{\rm v} \times \eta_{\rm hm}$)

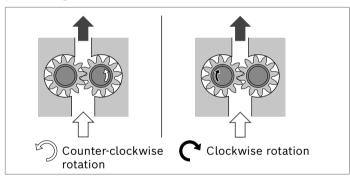


Notice

- ► The chapters "Characteristic curves" and "Diagrams" contain diagrams for a rough calculation.
- ► Please observe the safety requirements for the overall system.
- ► Please contact us regarding applications with frequent load cycles.

▼ Direction of rotation viewed on drive shaft

The dimensional drawings in the chapter "Dimensions" show pumps for clockwise rotation. The position of the drive shaft and/or the position of suction and pressure port changes for counter-clockwise rotation.



Hydraulic fluid

The external gear unit is designed for operation with HLP mineral oil according to DIN 51524 1–3. For higher loading, Bosch Rexroth recommends HLP according to DIN 51524 Part 2 as a minimum.¹⁾

See the following data sheets for application instructions and requirements for selecting hydraulic fluid, behavior during operation as well as disposal and environmental protection before you begin project planning:

▶ 90220: Hydraulic fluids based on mineral oils and related hydrocarbons

Selection of hydraulic fluid

Bosch Rexroth evaluates hydraulic fluids on the basis of the Fluid Rating according to the technical data sheet 90235.

Hydraulic fluids with positive evaluation in the Fluid Rating are provided in the following technical data sheet:

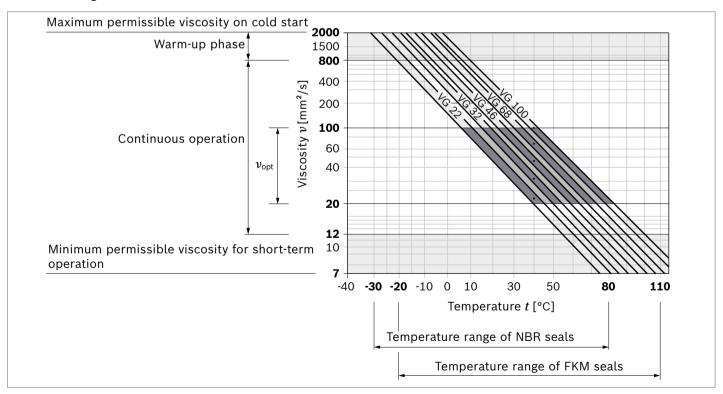
▶ 90245: Bosch Rexroth Fluid Rating List for Rexroth hydraulic components (pumps and motors)

The hydraulic fluid should be selected so that the operating viscosity in the operating temperature range is within the optimum range (ν_{opt} ; see selection diagram).

Viscosity and temperature of hydraulic fluids

Viscosity range	
Permissible in continuous operation	ν = 12 800 mm ² /s
Recommended in continuous operation	$v_{\rm opt}$ = 20 100 mm ² /s
Permissible for cold start	$v_{\text{max}} \le 2000 \text{ mm}^2/\text{s}$
Temperature range	
With NBR seals (NBR = nitrile rubber)	t = -30 °C +80 °C
With FKM seals (FKM = fluoroelastomer)	t = -20 °C +110 °C

▼ Selection diagram



Notice

► Please observe the information on the filtration of hydraulic fluid (see chapter "Project planning notes").

¹⁾ Other hydraulic fluids on request.

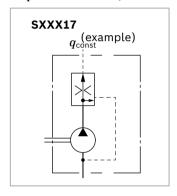
Gear pumps with integrated valves

In order to reduce piping complexity, a flow control valve or pressure relief valve can be integrated in the cover of the gear pump. Such solutions are used, for instance, for the hydraulic oil supply of power steering systems. The pump delivers a constant flow irrespective of the rotational speed. The residual flow is either returned internally to the suction port or distributed externally to other consumers.



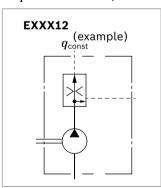
▼ 3-way flow control valve, residual flow return in suction line

qconst = 2 to 30 l/min



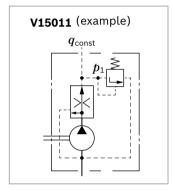
▼ 3-way flow control valve, external residual flow return, loadable

 $q_{const} = 2 \text{ to } 30 \text{ l/min}$



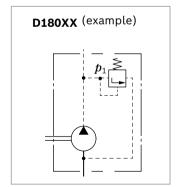
▼ 3-way flow control valve with pressure relief valve, residual flow return in suction line

$$q$$
const = 2 to 30 l/min; p 1 = 100 to 180 bar



▼ Pressure relief valve, pressure discharge into suction line

$$p_1 = 5 \text{ to } 250 \text{ bar}$$

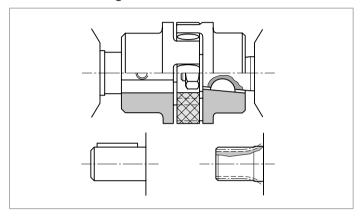


Drive

12

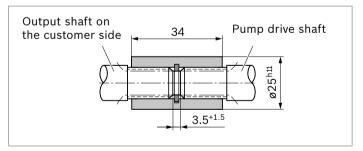
1. Elastic couplings

- ► The coupling may not transfer any radial or axial forces to the pump.
- ► The radial runout deviation from the shaft to the spigot should not exceed 0.2 mm.
- ► See the coupling manufacturer's assembly instructions for shaft misalignment tolerances.



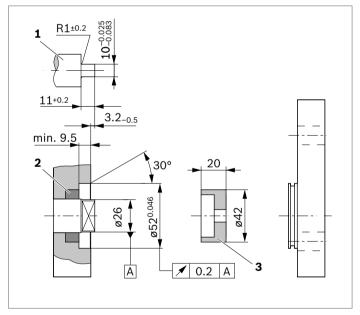
2. Coupling sleeve

- ► To be used for splined shaft profile according to DIN and SAE
- ► Attention: Make sure no radial or axial forces act on the pump drive shaft or coupling sleeve. The coupling sleeve should freely move in the axial direction.
- ► The distance between the pump drive shaft and the output shaft on the customer side should be 3.5^{+1.5} mm
- Reserve installation space for the retaining ring.
- ► Oil-bath or oil-mist lubrication required



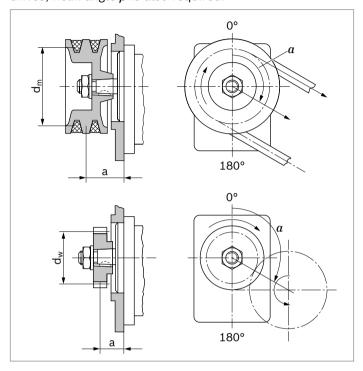
3. Tang drive coupling

- ► For attaching the pump directly to an electric motor or combustion engine, gearbox, etc.
- ► Pump drive shaft with special tang drive coupling and driver (3)
- ▶ No shaft seal
- ► Drive-side installation and sealing according to the following recommendations and dimensions
- ▶ Drive shaft on the customer side (1)
 - Case-hardened steel DIN EN 10084, e.g. 20 MnCrS 5 case-hardened 1.0 deep; HRA 83^{±2}
 - Seal ring contact surface ground without rifling $R_{\text{max}} \le 4 \mu \text{m}$
- ► Radial shaft seal ring on the customer side (2)
 - Provide with rubber cover (see DIN 3760, type AS, or double-lipped ring)
 - Provide installation edges with 15° slant or install shaft seal with protection sleeve



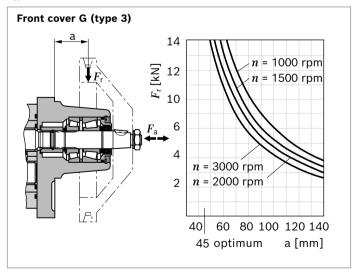
4. V-belt and straight gear wheel or helical gear drives without outrigger bearing

For V-belt or gear wheel drives, please contact us and indicate the application and mounting conditions (dimensions a, d_m , d_w and angle α). For helical gear drives, helix angle β is also required.



5. Outrigger bearing

Pumps with outrigger bearing are offered to eliminate possible problems when the pumps are driven by V-belts or gear wheels. The diagrams show the radial and axial load capacity in relation to a bearing service life of $L_{\rm H}$ = 1000 h.



14

Max. transmissible drive torques

Splined shafts

Drive shaft	:	M _{max}	Nominal	p _{2 max}
Code	Designation	Nm	size	bar
			2245	280
			50	250
			56	225
D	SAE J744 22-4 13T	300	63	200
			70	150
			50	120
			100	100
			2245	280
			50	250
			56	225
Е	SAE J744 25-4 15T	450	63	200
			70	150
			80	120
			100	100

Parallel keyed shafts

Drive shaft		M _{max}	Nominal	$p_{2 \; max}$
Code	Designation	Nm	size	bar
			2236	280
			40	250
			45	225
			50	200
Q	SAE J744 22-1	180	56	180
			63	160
			70	140
			80	120
			100	100
			40	280
			50	250
٨	ISO Ø25 mm	160	63	200
А	130 25 11111	160	70	150
			80	120
			100	100

Tapered shafts

Drive shaft		M _{max}	Nominal	p _{2 max}
Code	Туре	Nm	size	bar
		,	2245	280
			50	250
			56	225
С	1 : 5	290	63	200
			70	150
			80	120
			100	100
			2245	280
			50	250
			56	225
Н	1 : 8	240	63	200
			70	150
			80	120
			100	100

Multiple gear pumps

Gear pumps are well-suited to multiple arrangements, where the drive shaft of the first pump stage is extended to a second and possibly third pump stage. The shafts for each pump stage are typically connected via a driver. The individual pump stages are usually hydraulically isolated and have separate suction ports. A joint suction port or separate suction ports that are hydraulically connected is available on request. For the configuration of multiple pumps, Bosch Rexroth recommends arranging the pump stage with the largest displacement on the drive side.

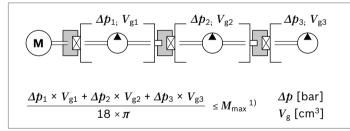
Notice

The characteristics of the single pumps generally apply; however, certain restrictions need to be observed:

- ► Max. rotational speed: This is determined by the largest pump stage used.
- ► **Pressures:** These are limited by the max. transmissible torques from drive shaft, through drive and driver.

Addition of drive torques

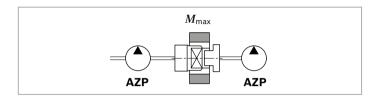
With multiple pumps, note that the drive torques of the subsequent stages are summed up according to the following formula:



This may result in pressure limitations in each pump stage.

Standard through drive (tang drive coupling)

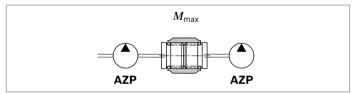
For Platform G pumps, the driver for the next pump stage can support loads up to $M_{\rm max}$ = 130 Nm. This may result in pressure limitations for subsequent pump stages. Subsequent pumps of a smaller series determine the max. transmissible torque.



Downstream pump		M _{max} [Nm]
Platform G	AZPG	130
	AZPU	130
Platform N	AZPN	95
	AZPT	95
Platform F	AZPF	65
	AZPS	65
Platform B	AZPB	25

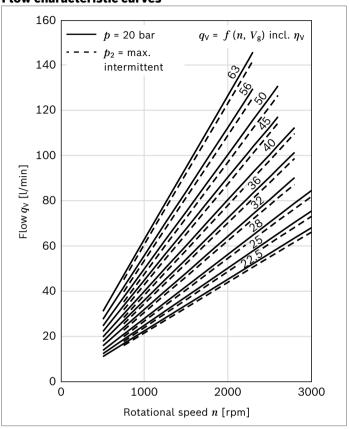
Reinforced through drive

Reinforced through drives (for up to $M_{\rm max}$ = 320 Nm) are available for applications with higher torques/torsional vibrations. Design available on request.



Diagrams/characteristic curves

Flow characteristic curves

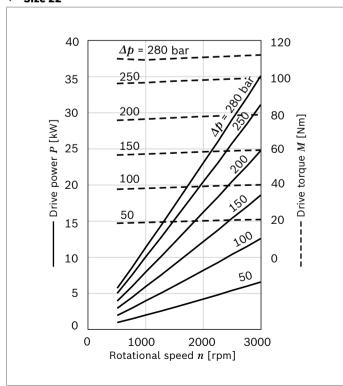


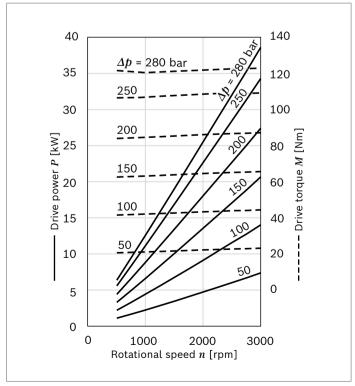
Notice

► Characteristic curves measured at $v = 32 \text{ mm}^2/\text{s}$ and t = 50 °C

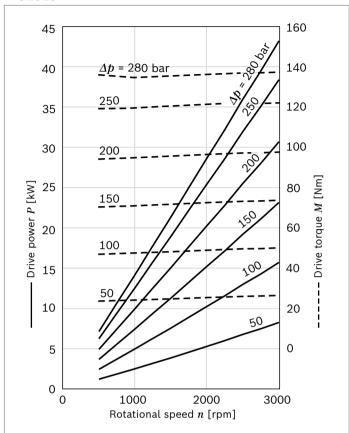
Performance charts

▼ Size 22

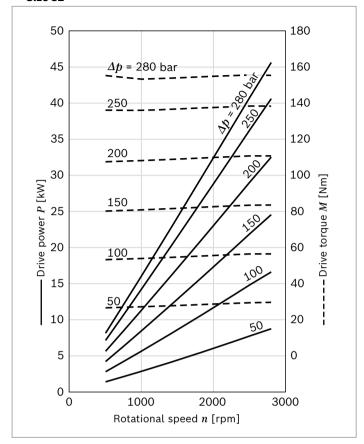




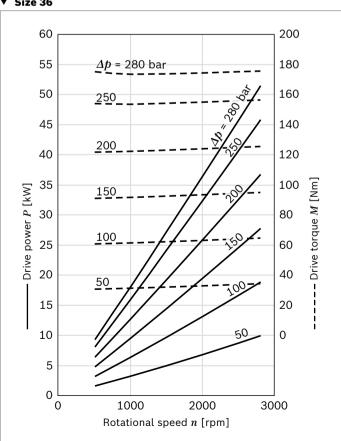
▼ Size 28

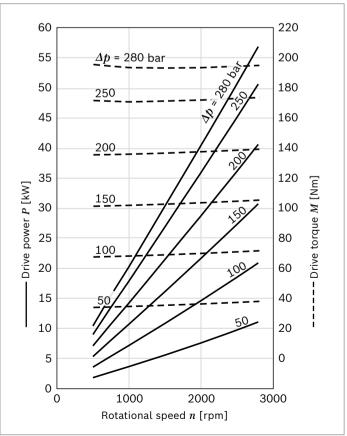


▼ Size 32

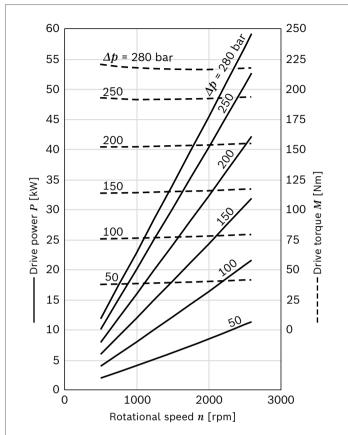


▼ Size 36

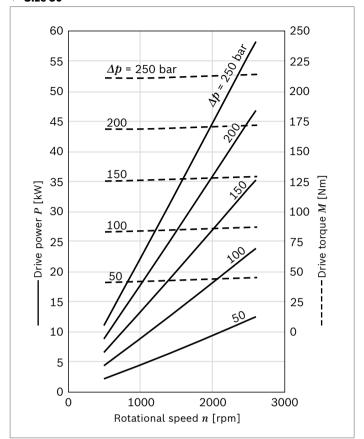




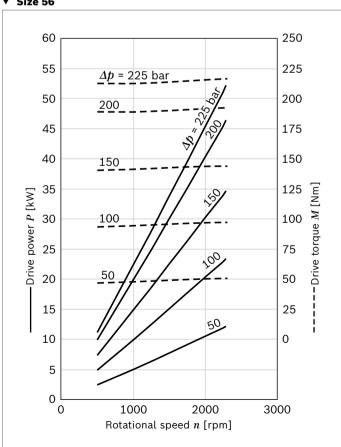
▼ Size 45

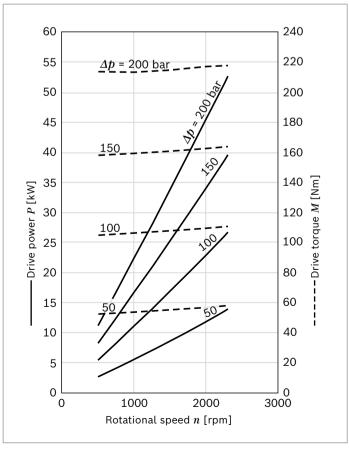


▼ Size 50



▼ Size 56





Noise charts

Noise levels based on rotational speed, pressure range between 10 bar and pressure value p_2 (see chapter "Technical data").

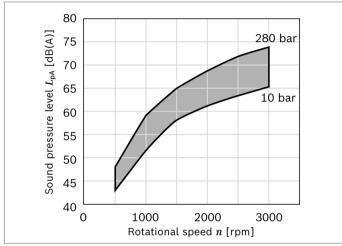
These are typical characteristics for each size. They describe the airborne sound emitted solely by the pump. Ambient factors (installation site, piping, other system components) were not included.

The values refer to a single pump.

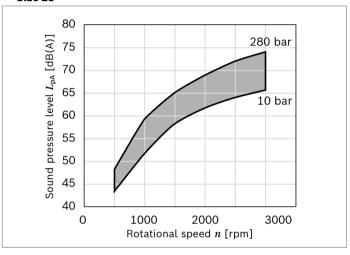
Notice

- ► Characteristic curves measured at v = 32 mm²/s, t = 50 °C.
- ► Sound pressure level calculated from noise measurements made in a low reflection measuring room according to DIN 45635 Part 26.
- ▶ Distance from measuring sensor to pump: 1 m.

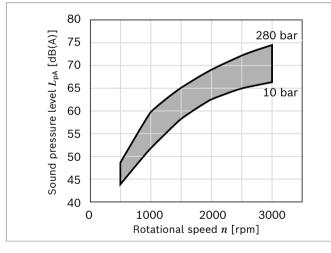


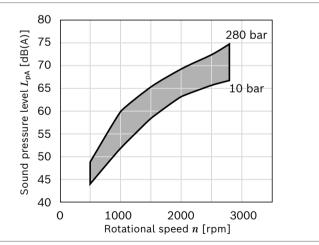


▼ Size 25

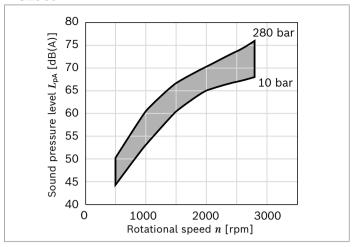


▼ Size 28

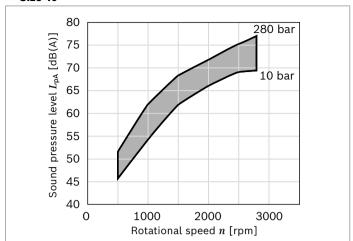




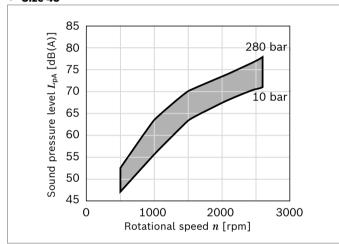
▼ Size 36



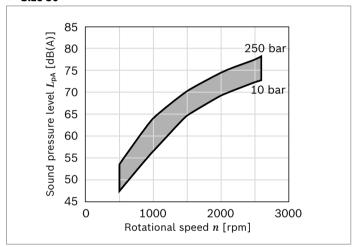
▼ Size 40



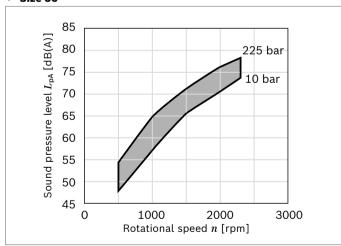
▼ Size 45

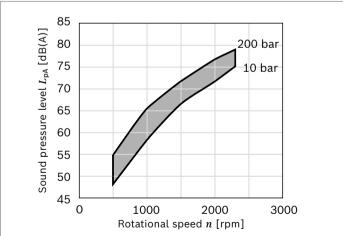


▼ Size 50



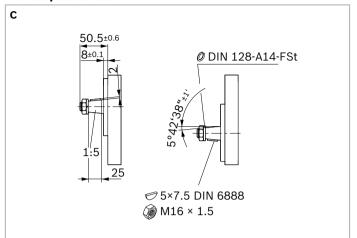
▼ Size 56



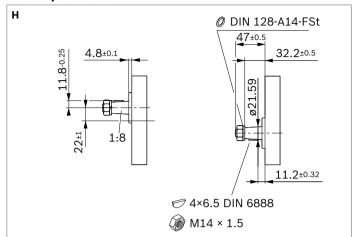


Dimensions - drive shaft

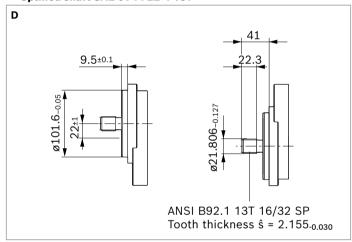
▼ 1:5 tapered shaft



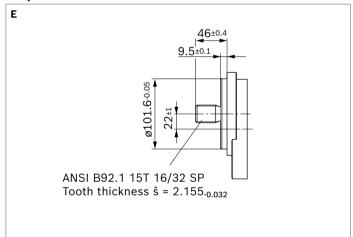
▼ 1:8 tapered shaft



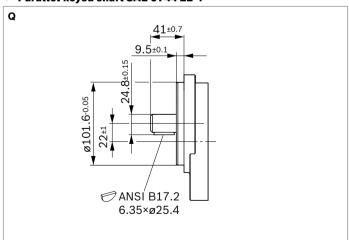
▼ Splined shaft SAE J744 22-4 13T



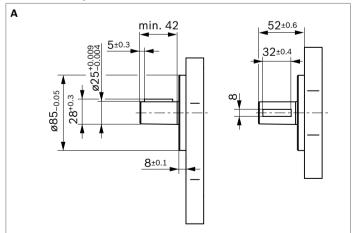
▼ Splined shaft SAE J744 25-4 15T



▼ Parallel keyed shaft SAE J744 22-1

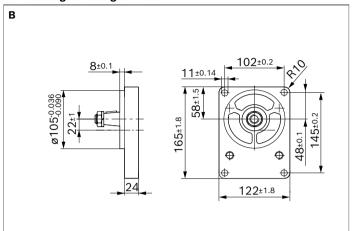


▼ Parallel keyed shaft ISO Ø25 mm

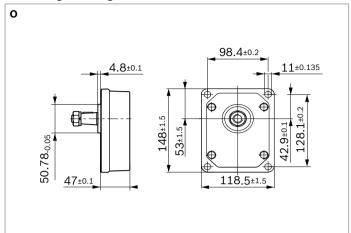


Dimensions - front cover

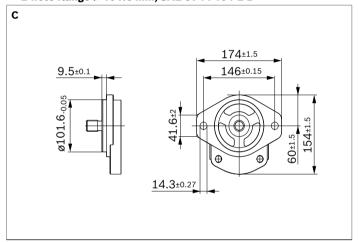
▼ Rectangular flange Ø105 mm



▼ Rectangular flange Ø50.78 mm

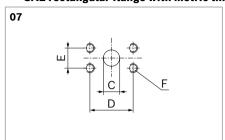


▼ 2-hole flange Ø101.6 mm, SAE J744 101-2 B



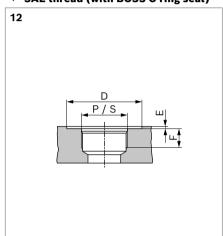
Dimensions - line connections

▼ SAE rectangular flange with metric threads



Size	Press	ure side			Sucti	on side		
	С	D	E	F	С	D	E	F
	mm	mm	mm		mm	mm	mm	
22 28	18	47.6	22.2	_	25	52.4	26.2	- M10; 18 mm deep
32 50	25	52.4	26.2	M10; 18 mm deep	32	58.7	30.2	- Mito; to min deep
56 70	32	58.7	30.2		38	69.8	35.8	M12 22 mm doon
80 100	38	69.8	35.8	M12; 23 mm deep	50	77.8	42.8	- M12; 23 mm deep

▼ SAE thread (with BOSS O ring seal)

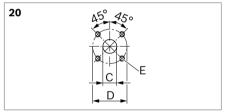


Size	Pressure side				Suction side			
	Р	D	E	F	S	D	E	F
		mm	mm	mm		mm	mm	mm
22 28	1 1/16-12 UN-2B	45			1 5/16-12 UN-2B	50		
32 45	1 5/16-12 UN-2B	50	0.5	19	1 5/8-12 UN-2B	58	0.5	19
50 63	1 5/8-12 UN-2B	58			1 7/8-12 UN-2B	68		

Line connections in end cover

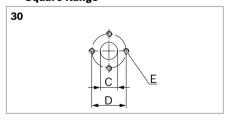
Size	Pressure side			Suction side		
	P	E	F	S	E	F
		mm	mm		mm	mm
22 28	1 1/16-12 UN-2B	1	10	1 5/16-12 UN-2B	1	19
32 63	1 5/16-12 UN-2B	- 1	19	1 5/8-12 UN-2B	- 1	19

▼ Square flange



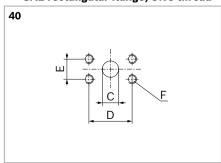
Size	Press	ure side	•	Suction	n side	
	С	D	E	С	D	E
	mm	mm		mm	mm	
22 63	18	55	M8; 13 mm deep	26	55	M8; 13 mm deep

▼ Square flange



Size	Press	ure side		Suction	on side	
	С	D	E	С	D	E
	mm	mm		mm	mm	
22 56	18	39.7	M8; 13 mm deep	26	50.8	- M10 12 mm doon
63	26	50.8	M10; 13 mm deep	36	62	— M10; 13 mm deep

▼ SAE rectangular flange, UNC thread

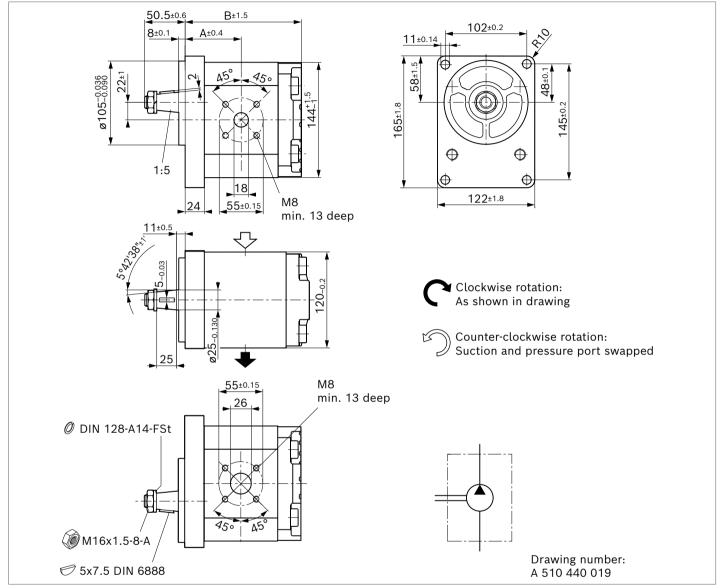


Size Pressure side					Suction si			
	С	D	E	F	С	D	E	F
	mm	mm	mm		mm	mm	mm	
22 36	19	47.6	22.2	3/8-16 UNC-2B;	25	52.4	26.2	3/8-16 UNC-2B; 18 mm deep
40 50	25	52.4	26.2	18 mm deep	32	58.7	30.2	7/16-14 UNC-2B; 18 mm deep
56 63	32	58.7	30.2	7/16-14 UNC-2B; 18 mm deep	38	69.8	35.8	1/2-13 UNC-2B 18 mm deep

Dimensions - preferred series

▼ 1:5 tapered shaft with rectangular flange ø105 mm

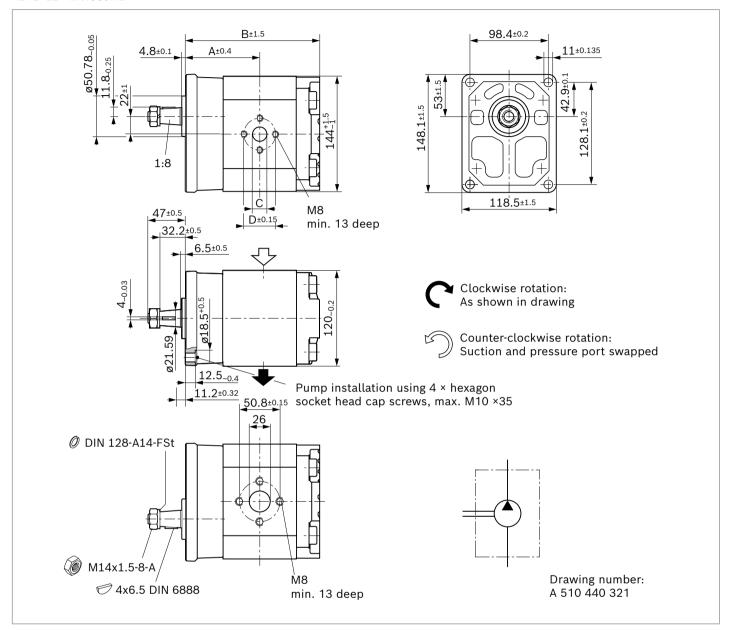
AZPG-22- ... **CB20**MB



NG	Order number		Max. intermittent	Max. rotational	Weight	Dimensions	
	Direction of rotation	1	pressure p_2 [bar]	speed n _{max}	m	A	В
	Counter-clockwise	Clockwise		[rpm]	[kg]	mm	mm
22	0510725441	0510725164	280	3000	10.3	60.9	124.6
25	0510725442	0510725165	280	3000	10.4	61.9	126.6
28	0510725443	0510725166	280	3000	10.5	63.2	129.1
32	0510725444	0510725167	280	2800	10.7	64.8	132.4
36	0510725445	0510725168	280	2800	10.9	66.4	135.7
40	0510725446	0510725169	280	2800	11.0	68.1	139.0
45	0510725447	0510725170	280	2600	11.2	70.1	143.1
50	0510825324	0510825024	250	2600	11.4	72.2	147.2
56	0510825325	0510825025	225	2300	11.7	74.7	152.2
63	0510825326	0510825026	200	2300	12.0	77.6	158.0

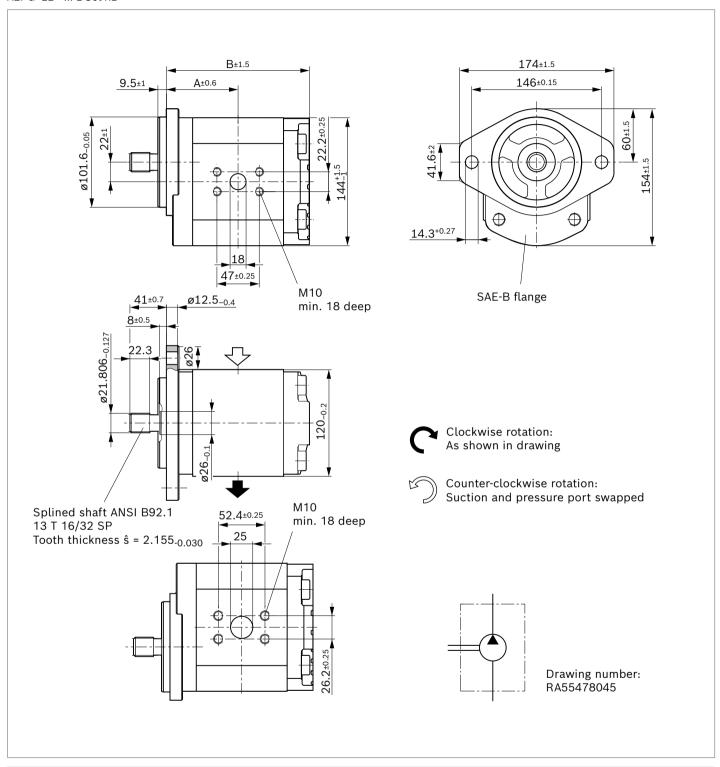
▼ 1:8 tapered shaft with rectangular flange ø50.78 mm

AZPG-22- ... **HO30**MB



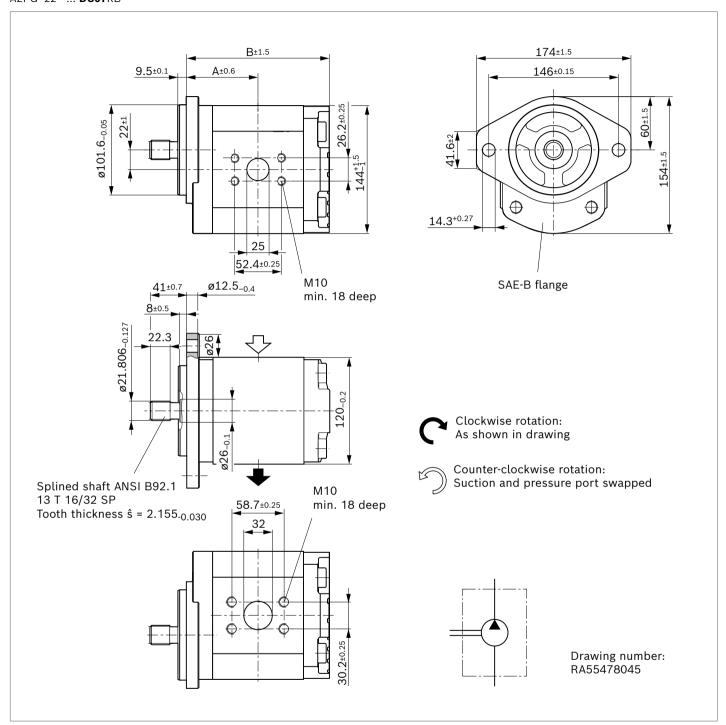
NG	Order number	Order number		Max. rotational	Weight	Dimensions	
	Direction of rotation	ı	pressure p_2 [bar]	speed n _{max}	m [lea]	Α	В
	Counter-clockwise Clockwise			[rpm]	[kg]	mm	mm
22	0510725448	0510725171	280	3000	9.6	63.9	147.8
25	0510725449	0510725172	280	3000	9.7	84.9	149.8
28	0510725450	0510725173	280	3000	9.8	86.2	152.3
32	0510725451	0510725174	280	2800	10.0	87.8	155.6
36	0510725452	0510725175	280	2800	10.1	89.4	158.9
40	0510725453	0510725176	280	2800	10.3	91.1	162.3
45	0510725454	0510725177	280	2600	10.5	93.1	166.3
50	0510825327	0510825027	250	2600	10.7	95.2	170.5
56	0510825328	0510825028	225	2300	11.0	97.7	175.4
63	0510825329	0510825029	200	1800	11.2	100.6	181.3

AZPG-22- ... **DC07**KB



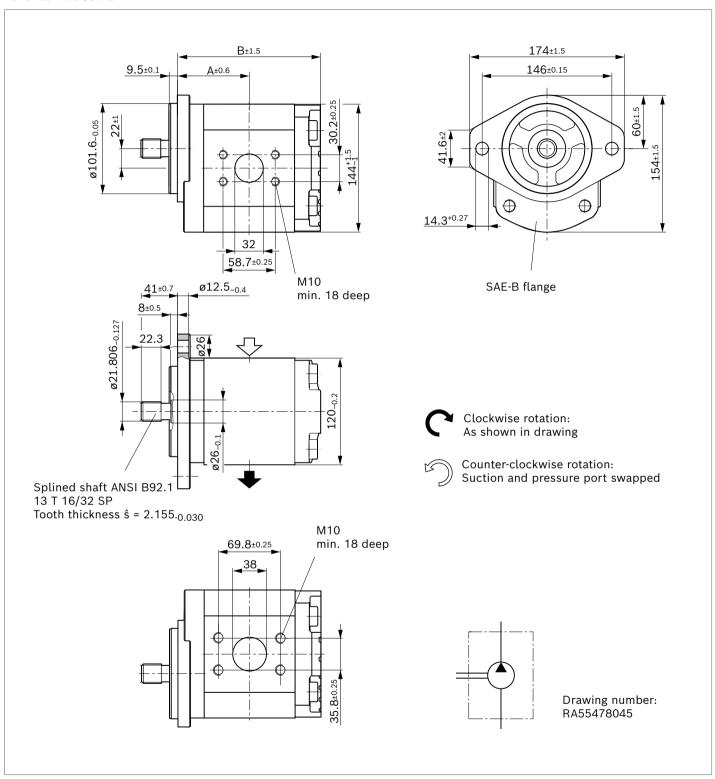
NG	NG Order number Direction of rotation		Max. intermittent Max. pressure p_2 [bar] speed [rpm]	Max. rotational	Weight	Dimensions	
				speed n _{max}	m [kg]	Α	В
	Counter-clockwise	Clockwise		[1,611]		mm	mm
22	0510725434	0510725157	280	3000	9.6	66.4	130.1
25	0510725435	0510725158	280	3000	9.7	67.4	132.1
28	0510725436	0510725159	280	3000	9.8	68.7	134.6

AZPG-22- ... **DC07**KB



Order number	Order number		Max. rotational	Weight	Dimensions	
Direction of rotation		pressure p_2 [bar]	speed n _{max}	m [ka]	Α	В
Counter-clockwise	Clockwise		[rpm]	[kg]	mm	mm
0510725437	0510725160	280	2800	10.0	70.3	137.9
0510725438	0510725161	280	2800	10.1	71.9	141.2
0510725439	0510725162	280	2800	10.3	73.6	144.5
0510725440	0510725163	280	2600	10.5	75.6	148.6
0510825321	0510825021	250	2600	10.7	77.7	152.7
	Direction of rotation Counter-clockwise 0510725437 0510725438 0510725439 0510725440	Direction of rotation Counter-clockwise Clockwise 0510725437 0510725160 0510725438 0510725161 0510725439 0510725162 0510725440 0510725163	Direction of rotation pressure p₂ [bar] Counter-clockwise Clockwise 0510725437 0510725160 280 0510725438 0510725161 280 0510725439 0510725162 280 0510725440 0510725163 280	Counter-clockwise Clockwise 0510725437 0510725160 280 2800 0510725438 0510725161 280 2800 0510725439 0510725162 280 2800 0510725440 0510725163 280 2600	Counter-clockwise Clockwise 0510725437 0510725160 280 2800 10.0 0510725438 0510725161 280 2800 10.1 0510725439 0510725162 280 2800 10.3 0510725440 0510725163 280 2600 10.5	Counter-clockwise Clockwise 280 2800 10.0 70.3 0510725438 0510725161 280 2800 10.1 71.9 0510725439 0510725162 280 2800 10.1 71.9 05107254490 0510725163 280 2800 10.3 73.6 0510725440 0510725163 280 2600 10.5 75.6

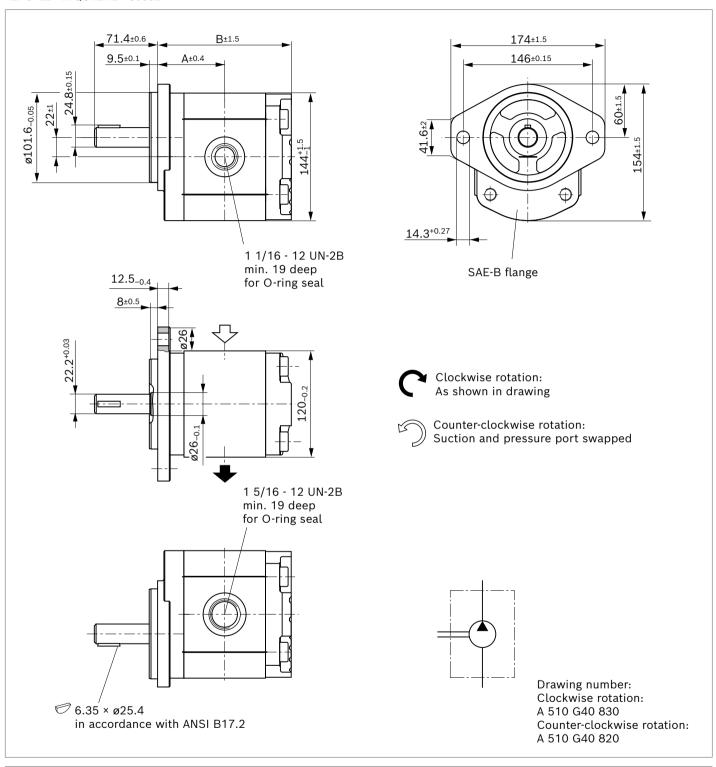
AZPG-22- ... **DC07**KB



NG	Order number Direction of rotation		Max. intermittent		Weight Dimensions		
			pressure p_2 [bar]	pressure p_2 [bar] speed n_{max} [rpm]	m [kg]	Α	В
	Counter-clockwise	Clockwise		[i þiii]	[vg]	mm	mm
56	0510825322	0510825022	225	2300	11.0	80.2	157.7
63	0510825323	0510825023	200	2300	11.3	83.1	163.5

▼ Parallel keyed shaft (SAE J744 22-1) with SAE J744 101-2 (B) 2-hole flange

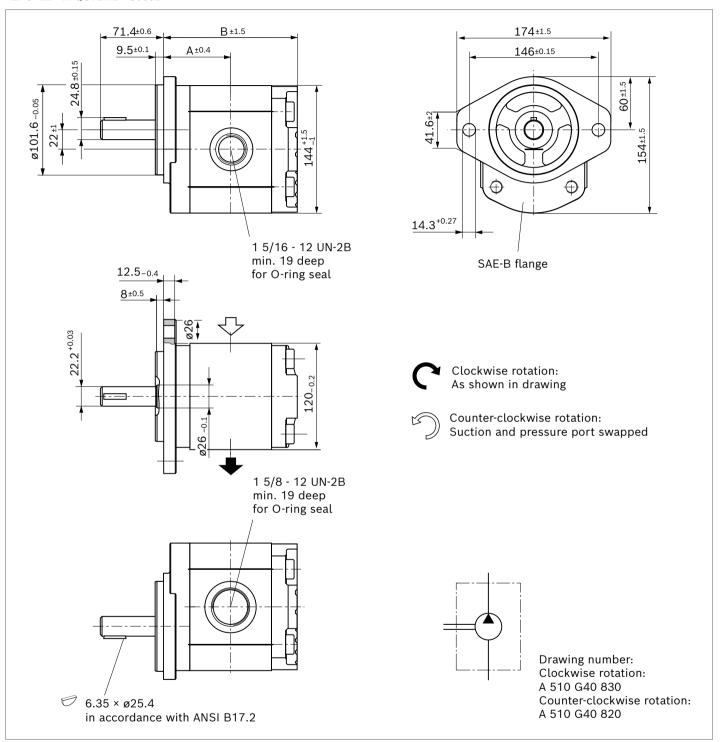
AZPG-22- ... QC12MB - S0662



NG	Order number Direction of rotation		Max. intermittent	Maximum rotational speed n _{max} [rpm]	Dimensions	
			pressure p_2 [bar]		A	В
	Counter-clockwise	Clockwise		լւիույ	mm	mm
22	9510490132	9510490122	250	3000	66.4	130.3
25	9510490133	9510490123	250	3000	67.4	132.3
28	9510490134	9510490124	250	3000	68.7	134.8

▼ Parallel keyed shaft (SAE J744 22-1) with SAE J744 101-2 (B) 2-hole flange

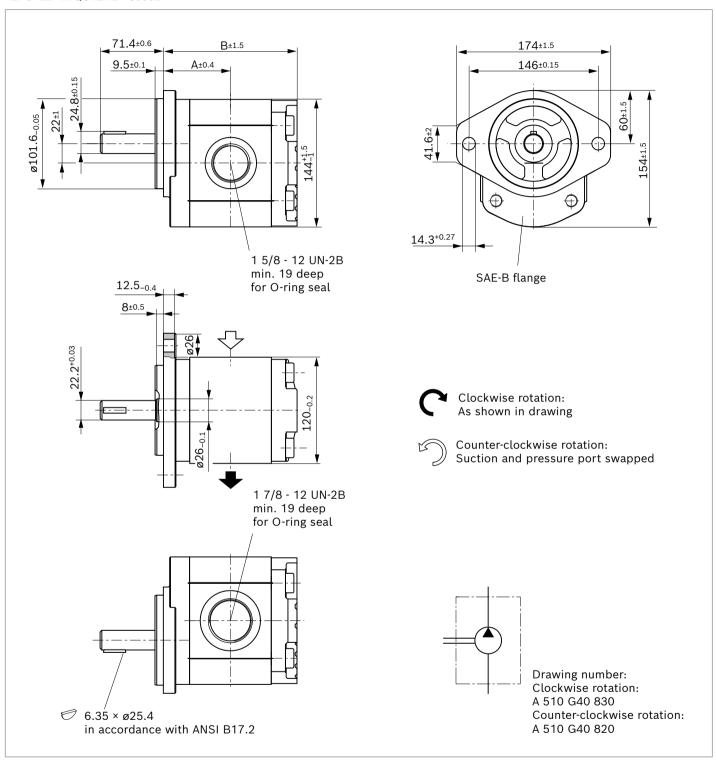
AZPG-22- ... QC12MB - S0662



NG	Order number Direction of rotation			Maximum rotational	Dimens	Dimensions	
			pressure p_2 [bar]	speed n _{max}	Α	В	
	Counter-clockwise	Clockwise		[rpm]	mm	mm	
32	9510490135	9510490125	250	2800	70.3	138.1	
36	9510490136	9510490126	250	2800	71.9	141.5	
40	9510490137	9510490127	250	2800	73.6	144.8	
45	9510490138	9510490128	250	2800	75.6	148.8	

▼ Parallel keyed shaft (SAE J744 22-1) with SAE J744 101-2 (B) 2-hole flange

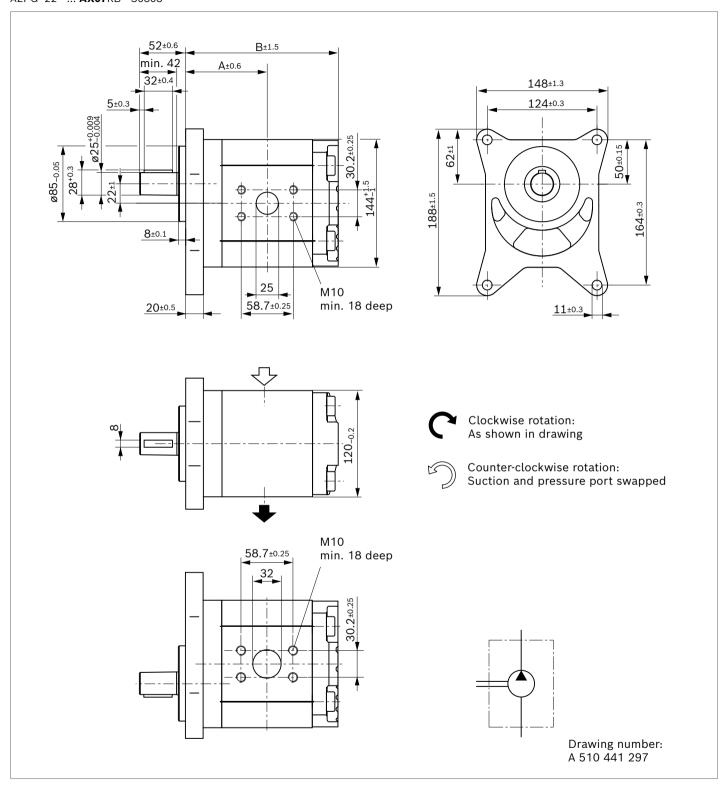
AZPG-22- ... QC12MB - S0662



NG	Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	A	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
50	9510490139	9510490129	220	2600	77.7	153.0
56	9510490140	9510490130	195	2300	80.2	157.9
63	9510490141	9510490131	170	2300	83.1	163.8

▼ Parallel keyed shaft (ISO Ø25 mm) with special version of the front cover

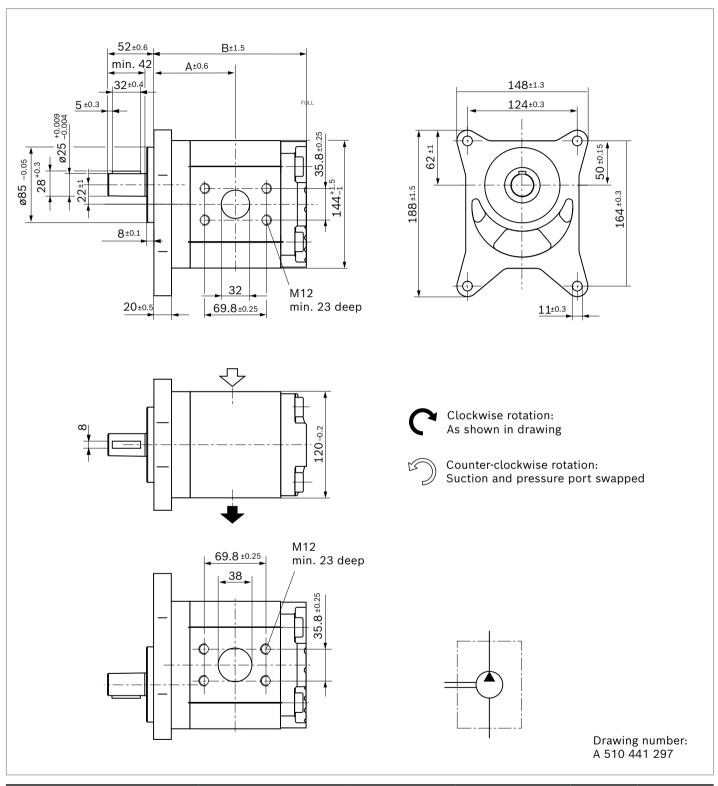
AZPG-22- ... **AX07**KB - S0303



NG	Order number			Maximum rotatio-	Dimensions	
	Direction of rotation		pressure p_2 [bar]	nal speed n _{max} [rpm]	Α	В
	Counter-clockwise	Clockwise		լւխույ	mm	mm
40	0510725432	0510725147	280	2800	85.1	157.7
50	0510825314	0510825015	250	2600	89.2	165.9

▼ Parallel keyed shaft (ISO \emptyset 25 mm) with special version of the front cover

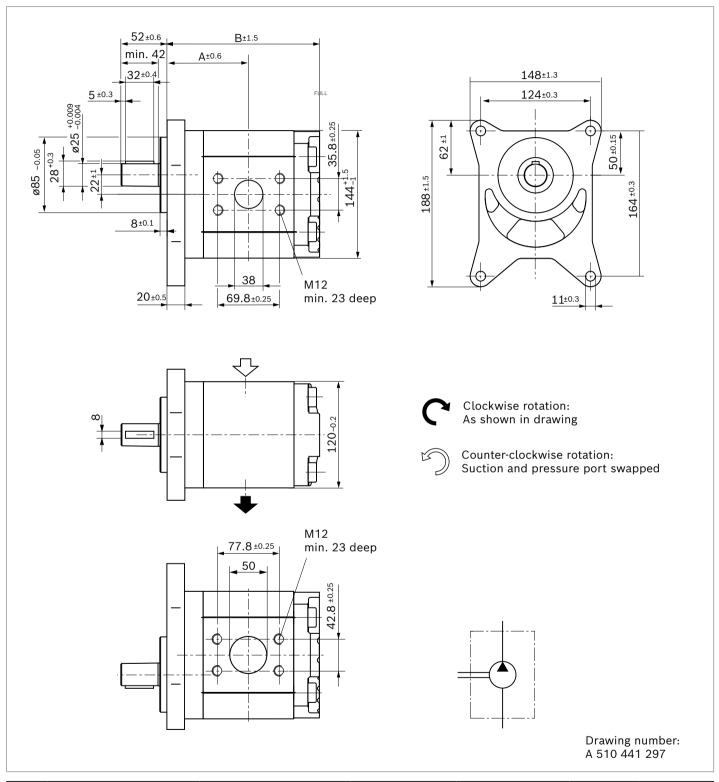
AZPG-22- ... **AX07**KB - S0303



NG	Order number			Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	Α	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
63	0510825315	0510825016	200	2300	94.6	176.7
70	0510825316	0510825017	150	2200	97.5	182.5

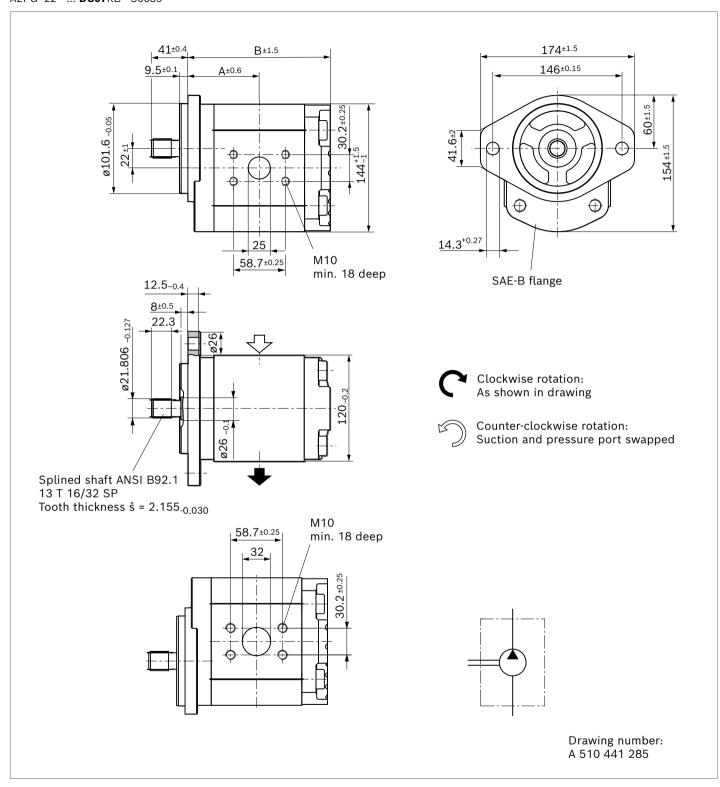
▼ Parallel keyed shaft (ISO Ø25 mm) with special version of the front cover

AZPG-22- ... **AX07**KB - S0303



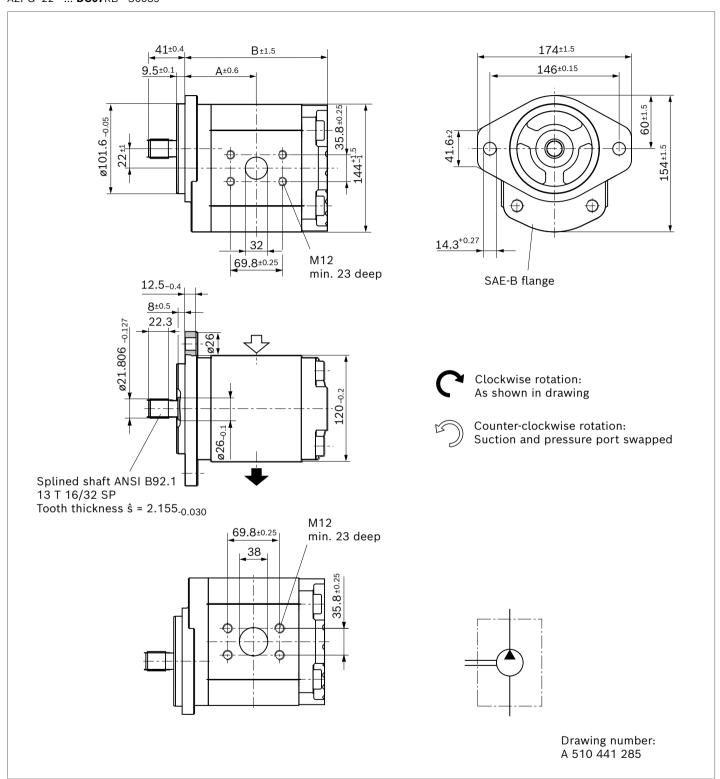
NG	Order number Direction of rotation		Max. intermittent N	Maximum rotational speed n _{max}	Dimension	s
			pressure p_2 [bar]		Α	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
80	0510825317	0510825018	120	2200	100.6	190.7
100	0510825318	0510825019	100	1700	109.8	207.2

AZPG-22- ... DC07KB - S0039



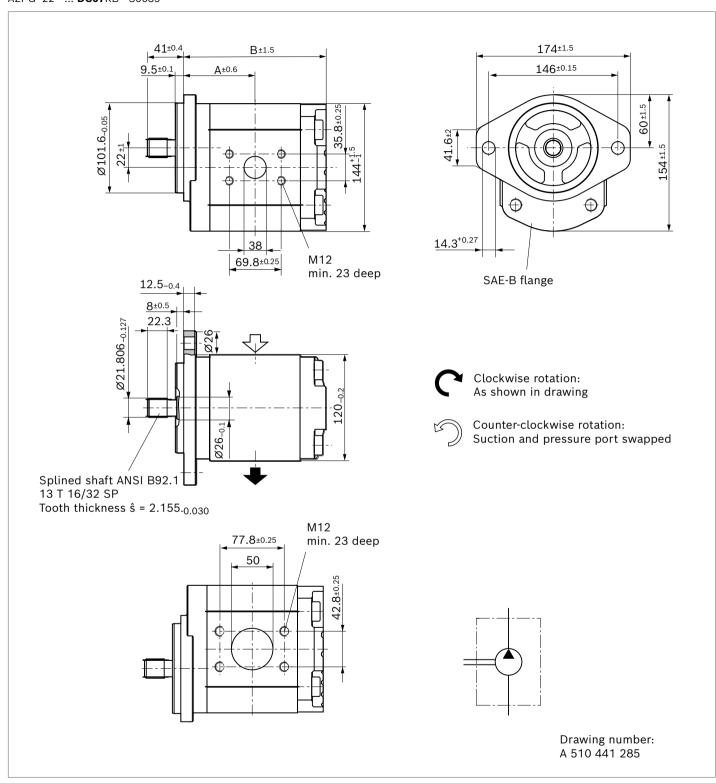
NG	NG Order number Direction of rotation			Maximum rotational speed n _{max} [rpm]	Dimensions	
			pressure p_2 [bar]		Α	В
	Counter-clockwise	Clockwise		[1 hiii]	mm	mm
40	0510725421	0510725136	280	2800	73.6	144.8
50	0510725420	0510725135	250	2600	77.7	153.0

AZPG-22- ... DC07KB - S0039



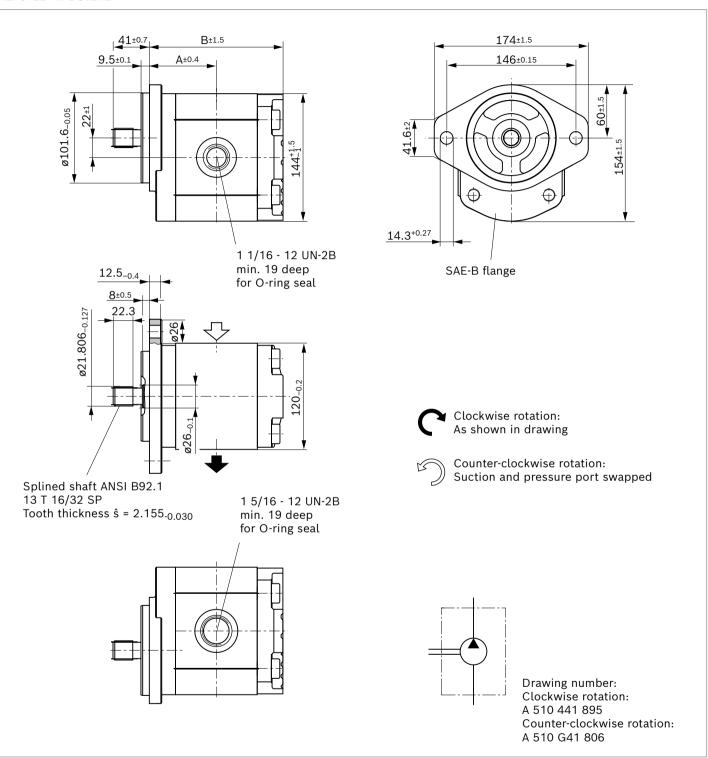
NG	Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max} [rpm]	Α	В
	Counter-clockwise	Clockwise		[i biii]	mm	mm
63	0510825313	0510825011	200	2300	83.1	163.8
70	0510825312	0510825014	150	2200	86.0	169.5

AZPG-22- ... DC07KB - S0039



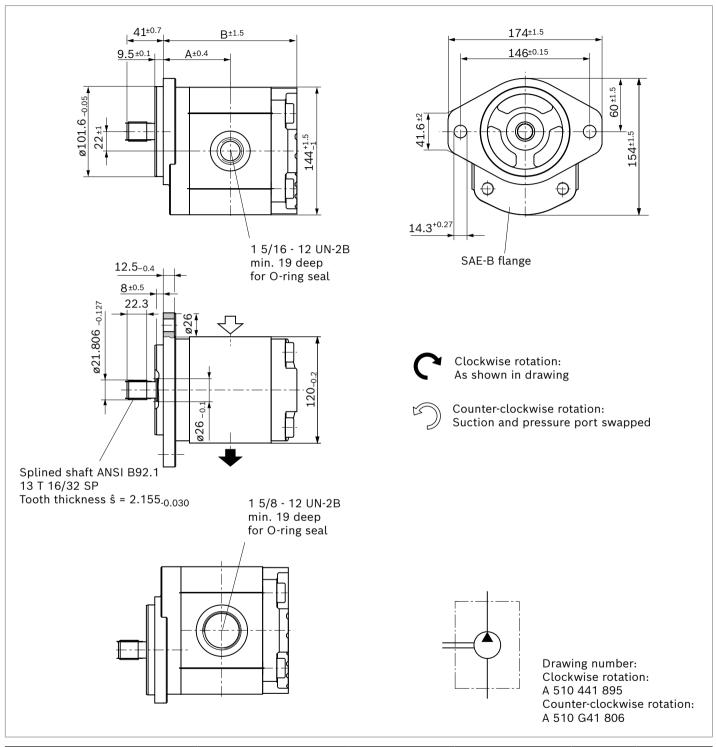
NG	NG Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max} [rpm]	A	В
	Counter-clockwise	Clockwise		[rpiii]	mm	mm
80	0510825311	0510825012	120	2200	90.1	177.8
100	0510825310	0510825013	100	1700	98.3	194.3

AZPG-22- ... **DC12**MB



l Dimensions	
A B	3
mm n	nm
66.4 1	30.3
67.4 1	32.3
68.7 1	34.8
67	3.4 1 7.4 1

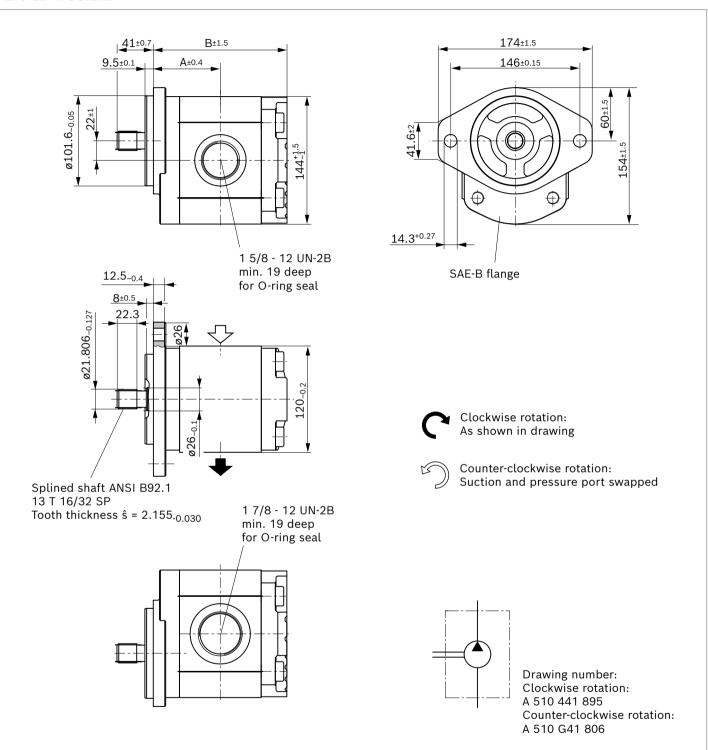
AZPG-22- ... **DC12**MB



NG	NG Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	Α	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
32	9510490014	9510490004	250	2800	70.3	138.1
36	9510490015	9510490005	250	2800	71.9	141.5
40	9510490016	9510490006	250	2800	73.6	144.8
45	9510490017	9510490007	250	2600	75.6	148.8

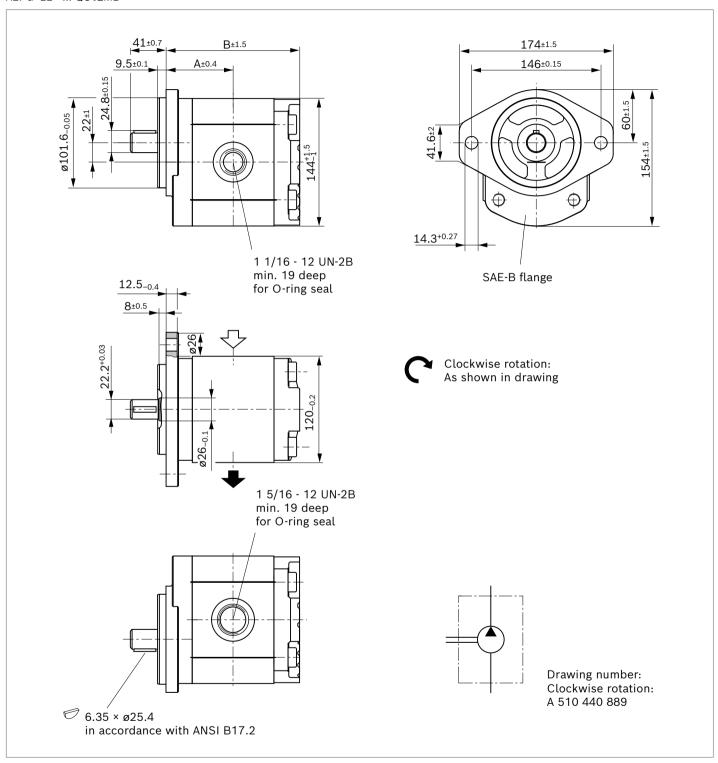
AZPG-22- ... **DC12**MB

40



NG	Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	A	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
50	9510490018	9510490008	220	2600	77.7	153.0
56	9510490019	9510490009	195	2300	80.2	157.9
63	9510490020	9510490010	170	2300	63.1	163.8

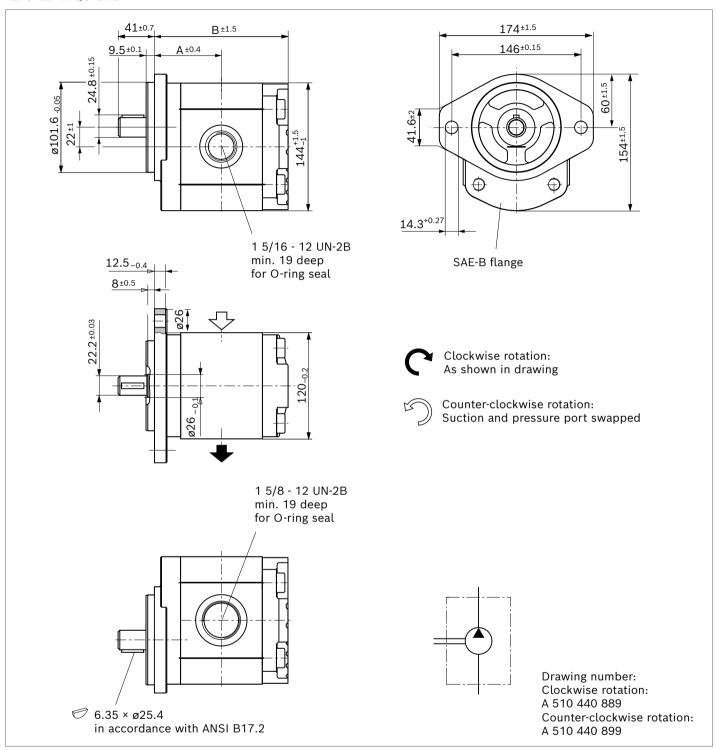
AZPG-22- ... **QC12**MB



NG	Order number Direction of rotation		Max. intermittent	Maximum rotational	Dimensions	
			pressure p_2 [bar] speed n_{max}		Α	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
22		9510490021	250	3000	66.4	130.3
25		9510490022	250	3000	67.4	132.3
28		9510490023	250	3000	68.7	134.8

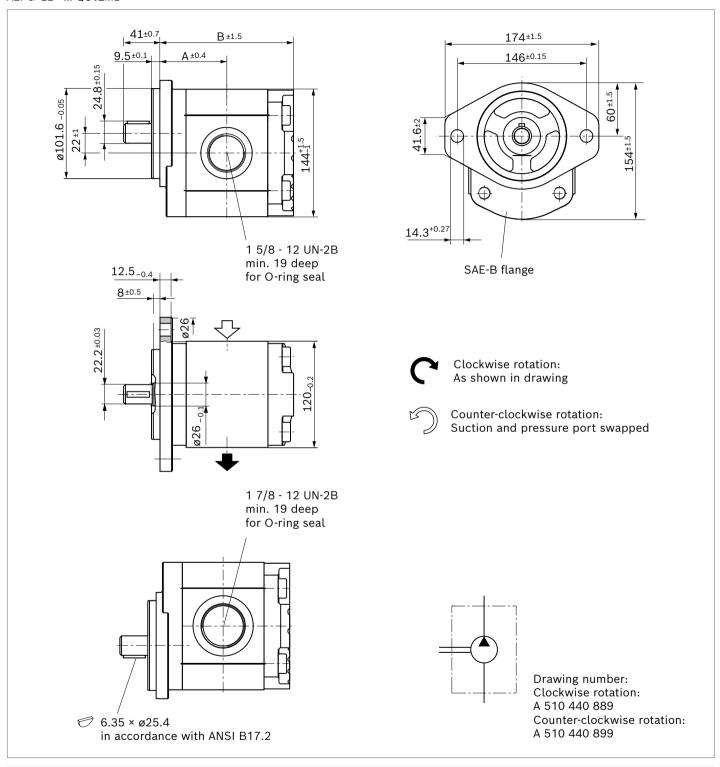
AZPG-22- ... **QC12**MB

42



NG	Order number	Order number		maximum rotationat	Dimensi	Dimensions	
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	Α	В	
	Counter-clockwise	Clockwise		[rpm]	mm	mm	
32	9510490034	9510490024	250	2800	70.3	138.1	
36	9510490035	9510490025	250	2800	71.9	141.5	
40		9510490026	250	2800	73.6	144.8	
45	9510490037	9510490027	250	2600	75.6	148.8	

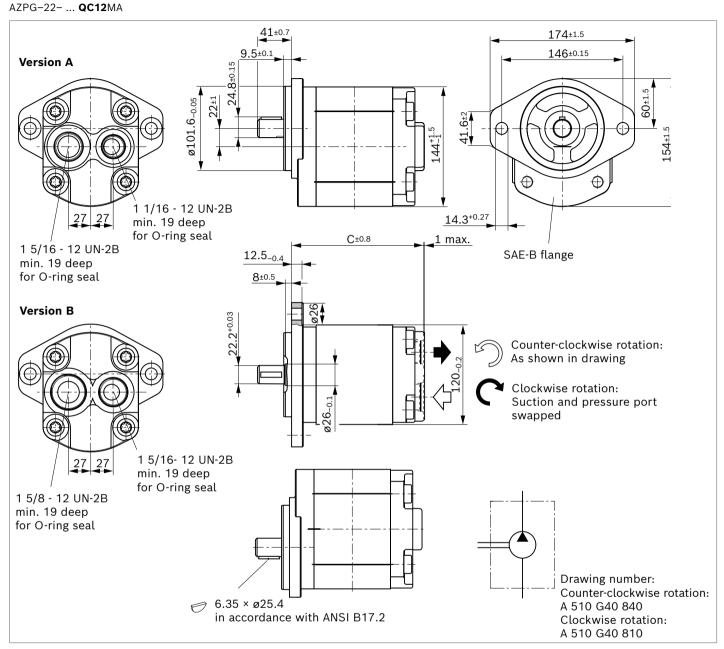
AZPG-22- ... **QC12**MB



NG	Order number		Max. intermittent	Maximum rotational	Dimensions	
	Direction of rotation		pressure p_2 [bar] speed n_{max}		Α	В
	Counter-clockwise	Clockwise		[rpm]	mm	mm
50	9510490038	9510490028	220	2600	77.7	153.0
56	9510490039	9510490029	195	2300	80.2	157.9
63	9510490040	9510490030	170	2300	83.1	163.8

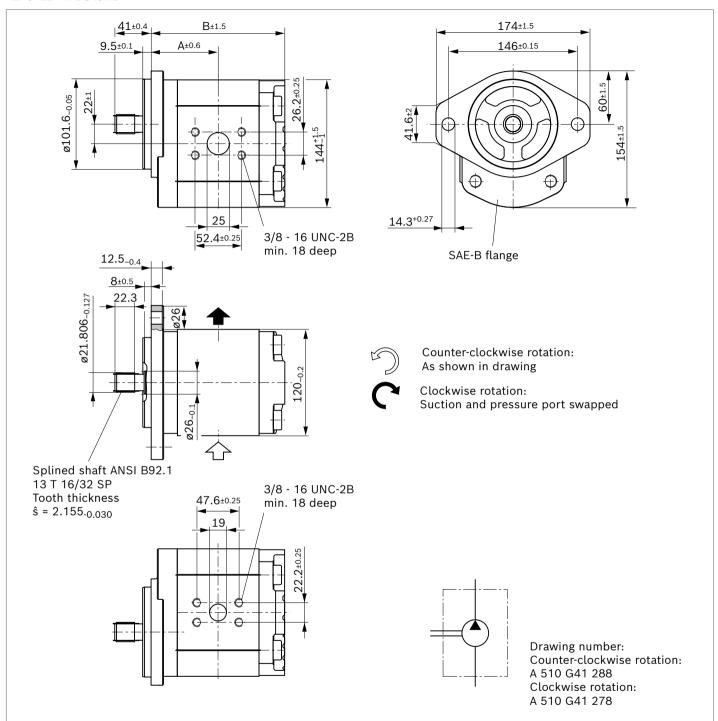
44

raiditti koyou shari (ozi o 144 il



NG	Order number		Max. intermittent Max. rotational		Dimensions	Version
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	С	
	Counter-clockwise	Clockwise		[rpm]	mm	
22	9510490111	9510490101	250	3000	141.2	A
25	9510490112	9510490102	250	3000	143.2	A
28	9510490113	9510490103	250	3000	145.7	A
32	9510490114	9510490104	250	2800	149.0	В
36	9510490115	9510490105	250	2800	152.4	В
40	9510490116	9510490106	250	2800	155.7	В
45	9510490117	9510490107	250	2600	159.7	В
50	9510490118	9510490108	220	2600	163.9	В
56	9510490119	9510490109	195	2300	169.8	В
63	9510490120	9510490110	170	2300	174.7	В

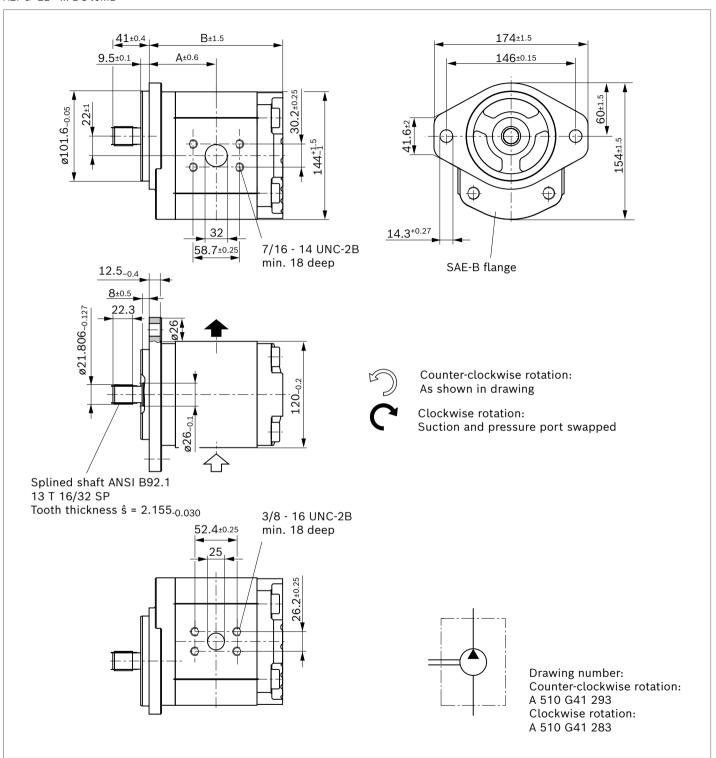
AZPG-22- ... **DC40**MB



NG	Order number		Max. intermittent	Max. rotational	Dimensions	
	Direction of rotation			Α	В	
	Counter-clockwise Clockwise [rpm]		[rpm]	mm	mm	
22	9510490051	9510490041	250	3000	66.4	130.3
25	9510490052	9510490042	250	3000	67.4	132.3
28	9510490053	9510490043	250	3000	68.7	134.8
32	9510490054	9510490044	250	2800	70.3	138.1
36	9510490055	9510490045	250	2800	71.9	141.5

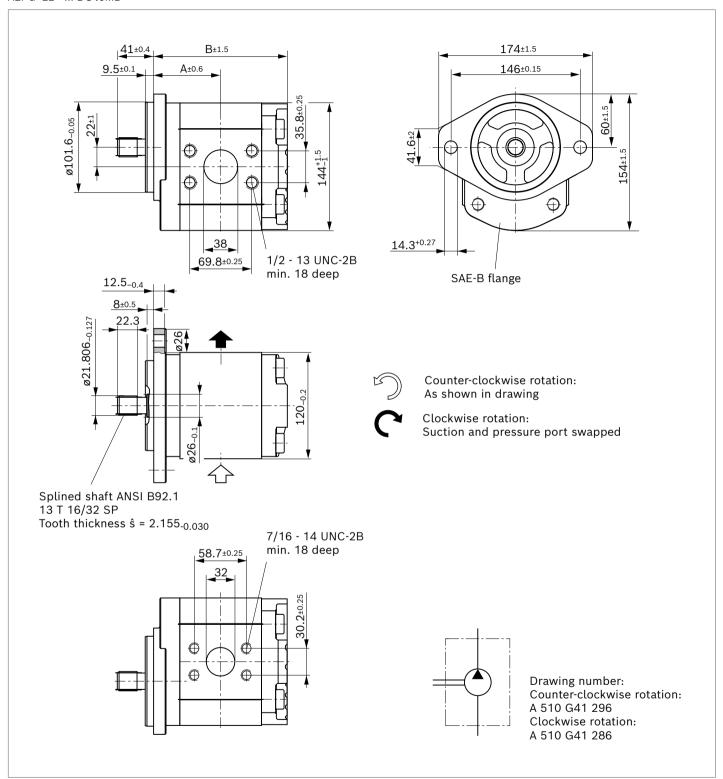
AZPG-22- ... **DC40**MB

46



NG	Order number Direction of rotation Counter-clockwise Clockwise		Max. intermittent		Dimensions		
			pressure p_2 [bar]	pressure p_2 [bar] speed n_{max}		В	
				[rpm]	mm	mm	
40	9510490056	9510490046	250	2800	73.6	144.8	
45	9510490057	9510490047	250	2600	75.6	148.8	
50	9510490058	9510490048	220	2600	77.7	153.0	

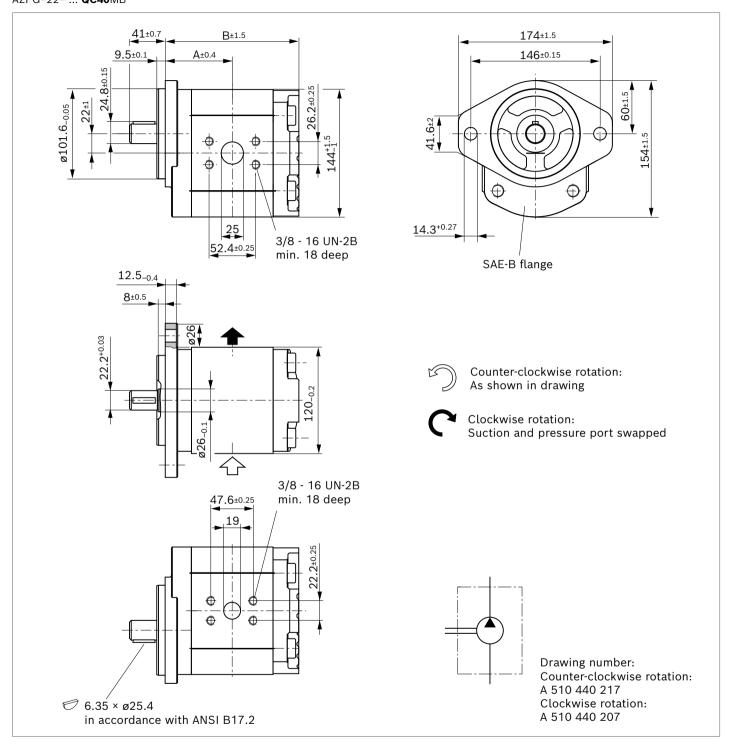
AZPG-22- ... **DC40**MB



NG			Max. intermittent		Dimensions	
			pressure p_2 [bar] speed n_{max}		A	В
	Counter-clockwise	Clockwise		[i biii]	mm	mm
56	9510490059	9510490049	195	2300	80.2	157.9
63	9510490060	9510490050	170	2300	83.1	163.8

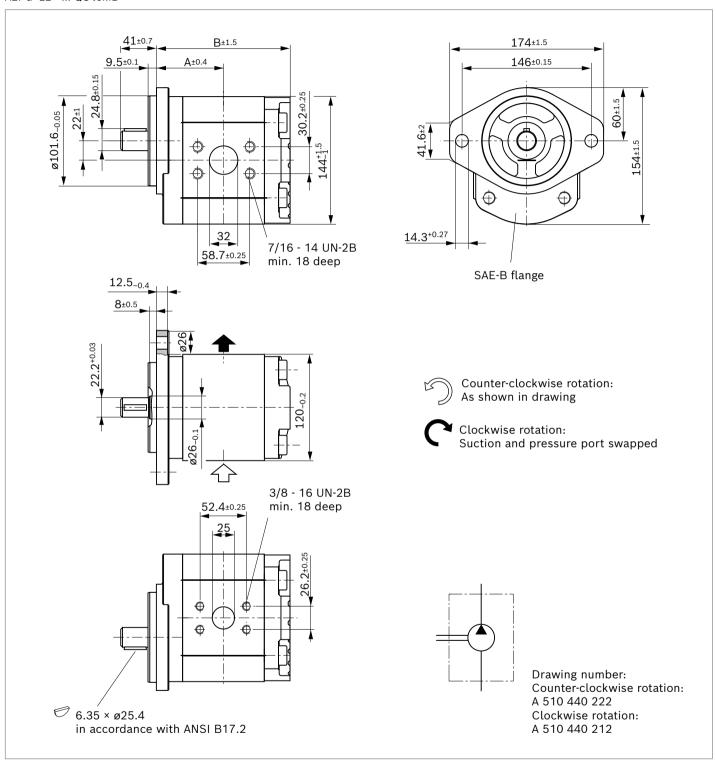
48

AZPG-22- ... **QC40**MB



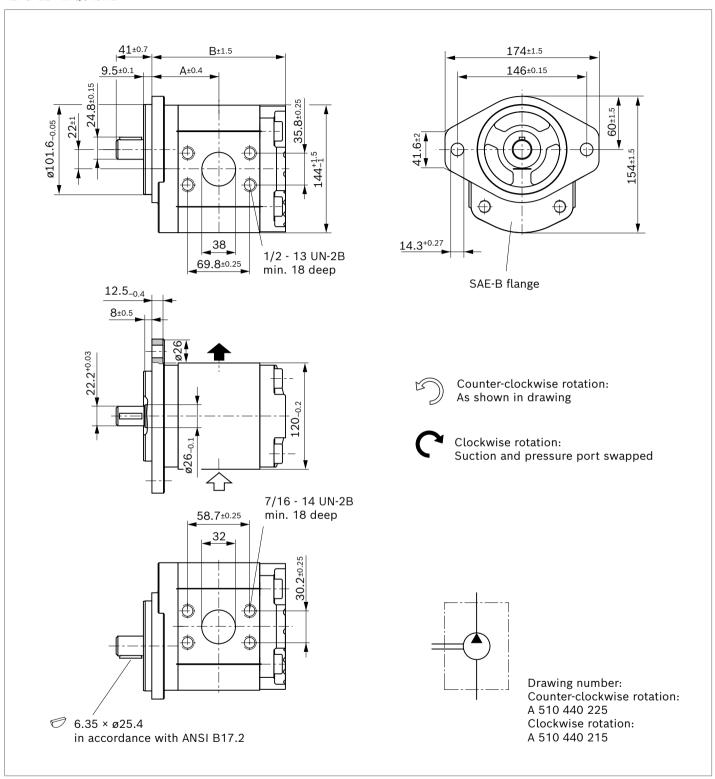
NG	Order number Direction of rotation		Max. intermittent	Max. rotational	Dimensions	
			pressure p_2 [bar]	speed n _{max}	Α	В
	Counter-clockwise	Counter-clockwise Clockwise [rpm]	mm	mm		
22	9510490091	9510490081	250	3000	66.4	130.3
25	9510490092	9510490082	250	3000	67.4	132.3
28	9510490093	9510490083	250	3000	68.7	134.8
32	9510490094	9510490084	250	2800	70.3	138.1
36	9510490095	9510490085	250	2800	71.9	141.5

AZPG-22- ... **QC40**MB



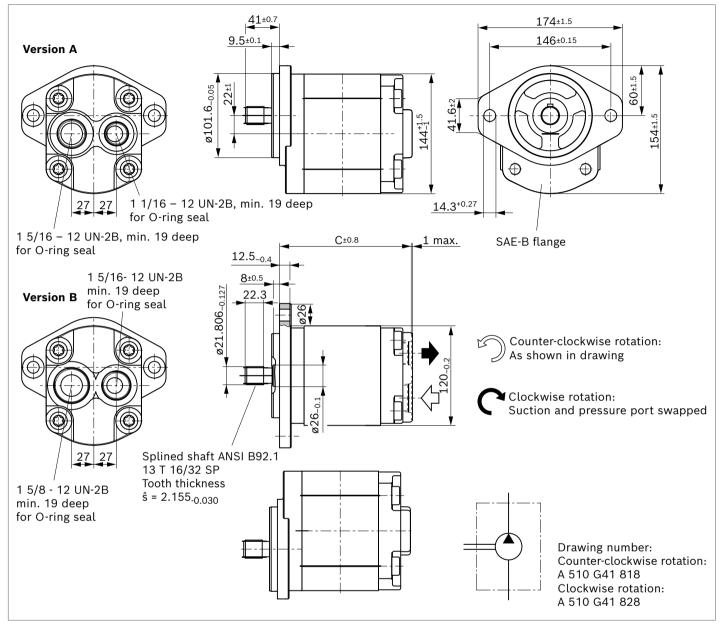
NG	Order number		Max. intermittent		Dimensions		
	Direction of rotation		pressure p_2 [bar]		A	В	
	Counter-clockwise Clockwise			[rpm]	mm	mm	
40	9510490096	9510490086	250	2800	73.6	144.8	
45	9510490097	9510490087	250	2600	75.6	148.8	
50	9510490098	9510490088	220	2600	77.7	153.0	

AZPG-22- ... **QC40**MB



NG	Order number	,	Max. intermittent	Max. rotational	Dimensions		
	Direction of rotation		pressure p_2 [bar]	speed n _{max}	A	В	
	Counter-clockwise	Clockwise	[Dar]	[rpm]	mm	mm	
56	9510490099	9510490089	195	2300	80.2	157.9	
63	9510490100	9510490090	170	2300	83.1	163.8	

AZPG-22- ... **DC12**MA

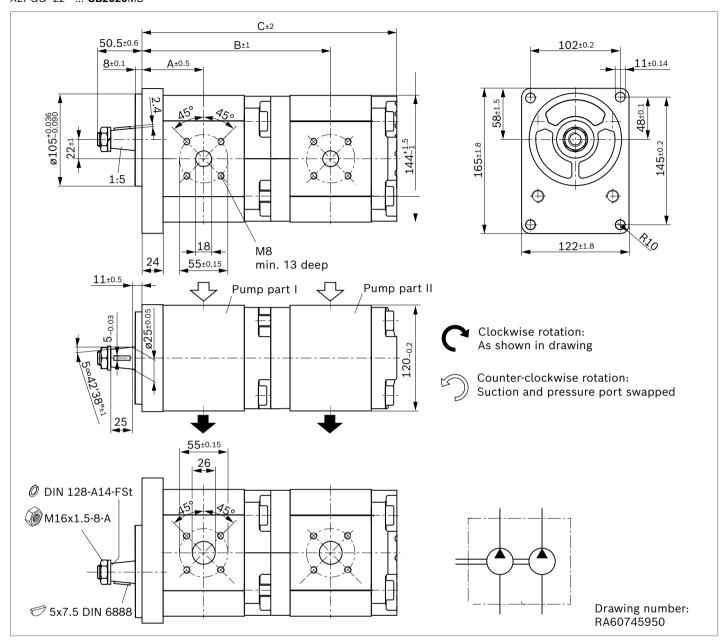


NG	Order number		Max. intermittent	Max. rotational	Dimensions	Version
	Direction of rotation	1	pressure p_2	speed n _{max}	С	
	Counter-clockwise	Clockwise	[bar]	[rpm]	mm	
22	9510490071	9510490061	250	3000	141.2	A
25	9510490072	9510490062	250	3000	143.2	A
28	9510490073	9510490063	250	3000	145.7	A
32	9510490074	9510490064	250	2800	149.0	В
36	9510490075	9510490065	250	2800	152.4	В
40	9510490076	9510490066	250	2800	155.7	В
45	9510490077	9510490067	250	2600	159.7	В
50	9510490078	9510490068	220	2600	163.9	В
56	9510490079	9510490069	195	2300	169.8	В
63	9510490080	9510490070	170	2300	174.6	В

▼ 1:5 tapered shaft with rectangular flange ø105 mm

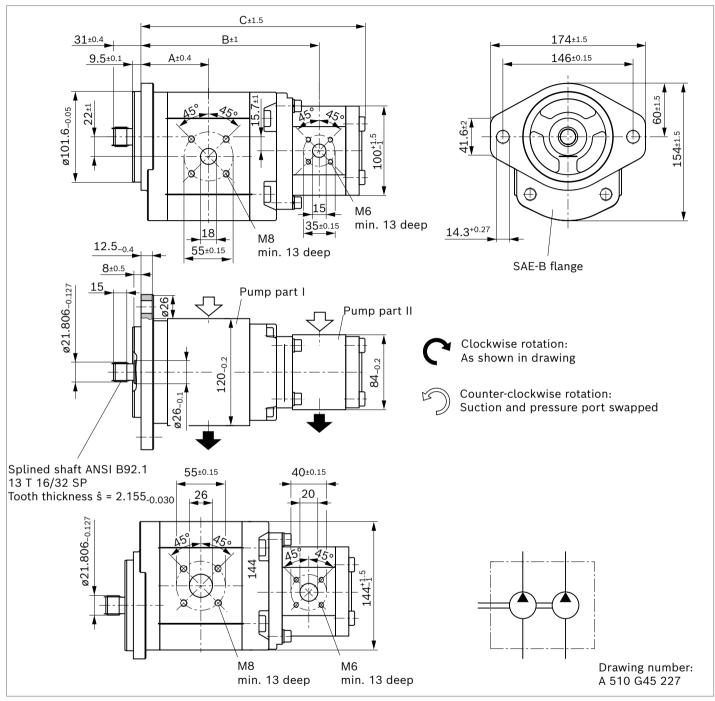
AZPGG-22- ... **CB2020**MB

52



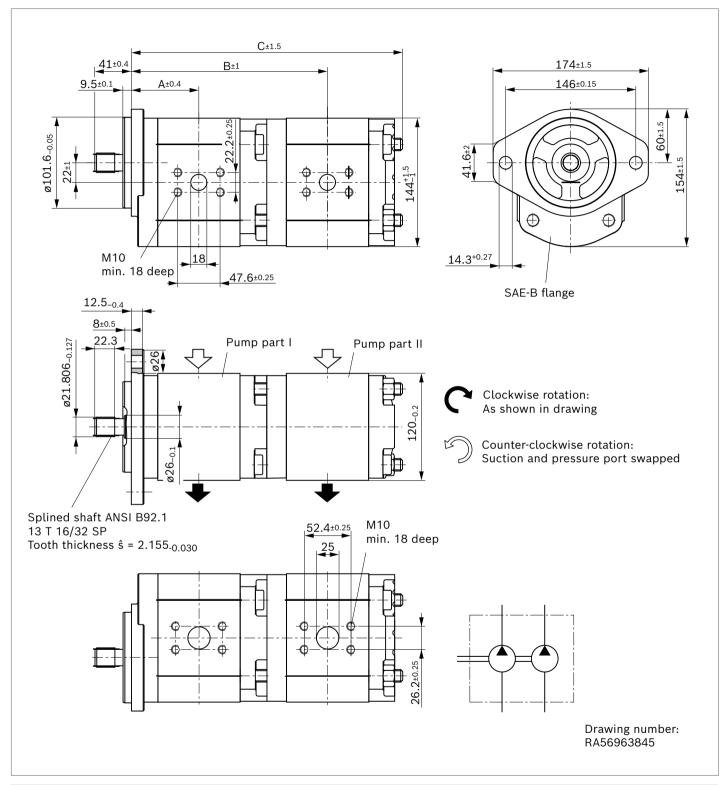
NG		Order number	_	Max. in	termittent	Max. rotational	Dimen	sions	
		Direction of rotation	1	pressur [bar]	e p ₂	speed n _{max}	Α	В	С
				[bai]		[rpm]	mm	mm	mm
ΡI	PΙΙ	Counter-clockwise	Clockwise	PΙ	P II				
22	22	0510765430	0510765115	280	280	3000	60.9	186.4	250.4
32	22	0510767337	0510767079	280	280	2800	64.8	194.2	258.2
32	32	0510767336	0510767078	280	230	2800	64.8	198.1	266.0
40	22	0510768332	0510768051	260	280	2800	68.1	200.9	264.8
40	32	0510768331	0510768050	230	230	2800	68.1	204.8	272.6
40	40	0510768330	0510768049	230	180	2800	68.1	208.1	279.3
45	22		0510769033	230	280	2600	70.1	204.9	268.9
45	32		0510769032	200	230	2600	70.1	208.9	276.3
45	40		0510769031	200	180	2600	70.1	212.2	283.3
45	45	0510769325	0510769030	200	160	2600	70.1	214.2	287.4
56	40		0510865013	170	180	2300	74.7	221.3	292.4

AZPGF-22- ... **DC2020**MB



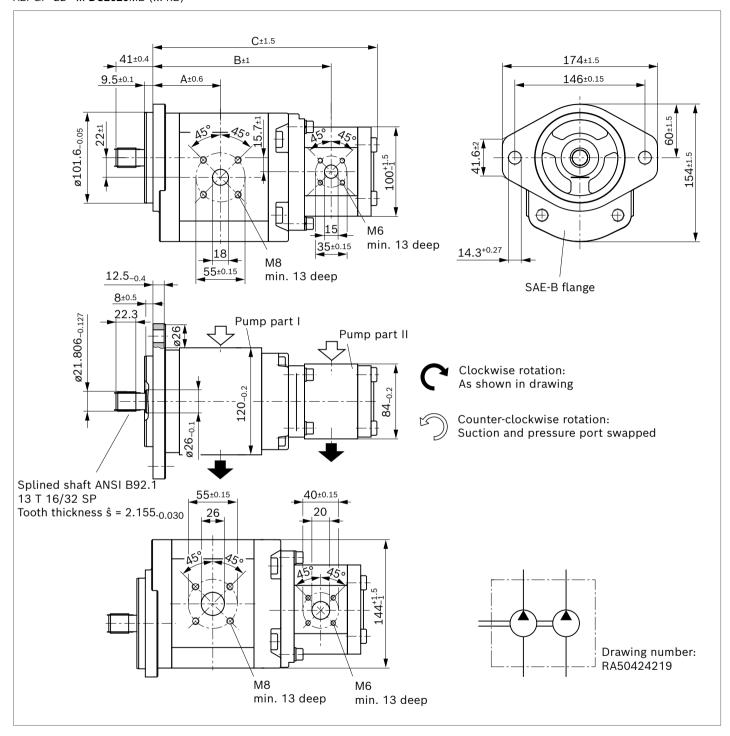
NG		Order number	Order number		ermittent	Max. rotatio-	Dimens	ions	
		Direction of rotation		pressure	e p ₂ [bar]	nal speed n _{max}	A	В	С
						[rpm]	mm	mm	mm
PΙ	PΙΙ	Counter-clockwise	Clockwise	PΙ	PΙΙ				
22	16		0510765118	250	230	3000	66.4	181.2	236.2
32	16			250	230	2800	70.3	189.0	244.0
56	16	0510665320	0510767067	200	230	2300	80.2	208.8	263.8
56	16	0510665319		200	190	2300	80.2	208.8	268.8
56	22		0510865016	200	190	2300	80.2	216.4	274.2

AZPGG-22- ... **DC0707**MB



NG	G Order number			Max. int	ermittent	Max. rotational	Dimens	Dimensions			
	Direction of rotation			pressure p_2 [bar]		speed n _{max} [rpm]	A mm	B mm	C mm		
PΙ	ΡII	Counter-clockwise	Clockwise	ΡI	PΙΙ						
28	28		0510766016	260	260	2500	68.7	198.7	269.2		

AZPGF-22- ... **DC2020**MB (... KB)

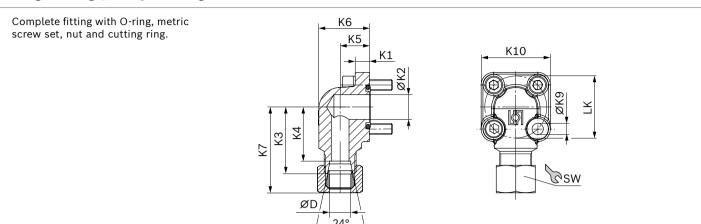


NG		Order number		Max. in	termittent	Max. rotational	Dimens	ions	
	Direction of rotation		1	pressure $m{p}_2$ [bar]		speed n _{max}	Α	В	С
				[Dai]		[rpm]	mm	mm	mm
ΡI	PII	Counter-clockwise	Clockwise	PΙ	PII				
32	11	0510767324 ¹⁾		280	280	1700	70.3	188.5	235.6
32	14		0510767066	280	260	2800	70.3	189.0	240.6
32	16	0510767330		280	230	2800	70.3	189.0	244.0
32	16	0510767328 ¹⁾	0510767064 ¹⁾	280	230	2800	70.3	189.0	244.0
40	14		0510768043	280	260	2800	73.6	195.6	247.3
45	11	0510769318 ¹⁾		250	280	1700	75.6	199.2	246.4
45	16	0510769319 ¹⁾		250	230	1700	75.6	199.7	254.8
45	16		0510769022	280	230	2600	75.6	199.7	254.8
45	19	0510769321	0510769023	280	190	2600	75.6	199.7	259.8

¹⁾ Version with shaft seal in FKM (type code: ...KB)

Accessories

90° angled flange, for square flange 20

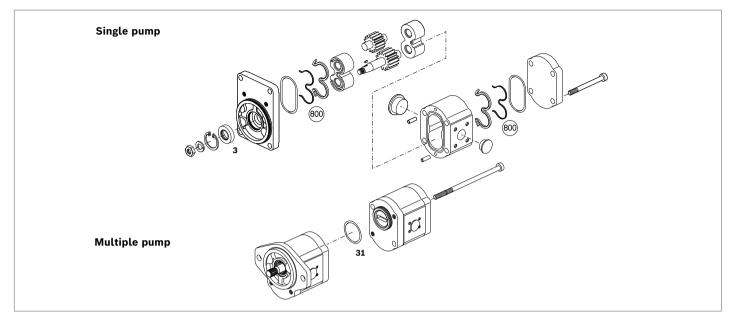


LK	D	Series ¹⁾	Material	p_{max}	K1	K2	КЗ	K4	K5	К6	K7	К9	K10	sw	Scr	ews	O-ring	Weight
mm	mm		number	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	2 ×	2 ×	NBR	kg
55	20	S	1 515 702 004	250	13	18.2	45	34.5	24	38	57	8.4	58	36	M8 × 25	M8 × 50	32 × 2.5	0.62
55	30	S	1 545 719 006	250	12	26.5	49	38.5	32	51	63.5	8.4	58	50	M8 × 25	M8 × 50	32 × 2.5	0.63
55	35	L	1 515 702 005	100	12	26.5	49	38.5	32	52	61	8.4	58	50	M8 × 25	M8 × 60	32 × 2.5	0.77
55	42	L	1 515 702 019	100	12	26.5	49	38	40	64	61.5	8.4	58	60	M8 × 25	M8 × 70	32 × 2.5	1.04

Notice

Max. permissible tightening torques can be found in the "General instruction manual for external gear units" (07012-B).

Spare parts



Page	Type code	Seal kit "G"	Shaft seal	Quantity	Dimensions	Material
		NBR	Pos. 3			
23	AZPG – 22 –CB20MB	1517010231	1510283072	1	42×26×7	NBR
24	AZPG – 22 –HO30MB	1517010231	1510283072	1	42×26×7	NBR
25, 26, 27	AZPG – 22 –DC07KB	1517010231	1510283069	1	42×26×7	FKM
28, 29, 30	AZPG – 22 –QC12MB – S0662	1517010231	1510283072	1	42×26×7	NBR
31, 32, 33	AZPG - 22AX07KB - S0303	1517010231	1510283069	1	42×26×7	FKM
34, 35, 36	AZPG - 22DC07KB - S0039	1517010231	1510283069	1	42×26×7	FKM
37, 38, 39	AZPG – 22 –DC12MB	1517010231	1510283072	1	42×26×7	NBR
40, 41, 42	AZPG – 22 –QC12MB	1517010231	1510283072	1	42×26×7	NBR
43	AZPG – 22 –QC12MA	1517010234	1510283072	1	42×26×7	NBR
44, 45, 46,	AZPG – 22 –DC40MB	1517010231	1510283072	1	42×26×7	NBR
47, 48, 49	AZPG – 22 –QC40MB	1517010231	1510283072	1	42×26×7	NBR
50	AZPG – 22 –DC12MA	1517010234	1510283072	1	42×26×7	NBR
51, 52	AZPGG - 22 CB2020MB			1	42×26×7	NBR
	Pump stage 1	1517010231	1510283072	1	42×26×7	NBR
			1510283075	1	42×26×7	FKM
	Pump stage 2	1517010208				
53	AZPGF - 22 DC2020MB					
	Pump stage 1	1517010231	1510283069	2	42×26×7	FKM
	Pump stage 2	1517010208				
54	AZPGG - 22 DC0707MB					
	Pump stage 1	1517010231	1510283072	1	42×26×7	NBR
			1510283075	1	42×26×7	FKM
	Pump stage 2	1517010231				
55, 56	AZPGF-22 DC2020MB					
	Pump stage 1	1517010231	1510283069	2	42×26×7	FKM
	Pump stage 2	1517010208				
For multiple pumps	O-ring: Pos. 31	1900210145				NBR

Project planning notes

Technical data

All specified technical data is based on manufacturing tolerances and apply with certain constraints. Note that this makes certain deviations possible and that technical data may vary with certain constraints (e.g., viscosity).

Pumps by Bosch Rexroth come tested for function and performance.

The pump should only be operated to tested data (see chapter "Technical data").

Characteristic curves

When dimensioning the gear pump, please observe the max. possible application data based on the characteristic curves in this document.

Filtration of the hydraulic fluid

Since the majority of premature failures in gear pumps occur due to contaminated hydraulic fluid, filtration should maintain a cleanliness level of at least 20/18/15 as defined by ISO 4406.

This can reduce contamination to an acceptable degree in terms of particle size and concentration.

Bosch Rexroth generally recommends full-flow filtration. Basic contamination of the hydraulic fluid used may not exceed class 20/18/15 according to ISO 4406. Experience has shown that even new fluids are often above this value. In this case, a filling device with a special filter should be used.

Bosch Rexroth is not liable for wear due to contamination.

For hydraulic systems or devices with function-related critical failure effects, such as steering and brake valves, the selected type of filtration must be adapted to the sensitivity of these devices.

Notice

When used as an auxiliary steering pump, the vehicle manufacturer should make sure that the steering system continues to operate safely as per ECE R-79 even if the auxiliary steering pump fails.

Further information

Installation drawings and dimensions are valid at date of publication, subject to modifications.

Further information and notes on project planning can be found in the "General instruction manual for external gear units" (07012-B, chapter 5.5)

Order number overview

Order number	Туре	Page
0510725441	AZPG-22-022LCB20MB	24
0510725442	AZPG-22-025LCB20MB	24
0510725443	AZPG-22-028LCB20MB	24
0510725444	AZPG-22-032LCB20MB	24
0510725445	AZPG-22-036LCB20MB	24
0510725446	AZPG-22-040LCB20MB	24
0510725447	AZPG-22-045LCB20MB	24
0510825324	AZPG-22-050LCB20MB	24
0510825325	AZPG-22-056LCB20MB	24
0510825326	AZPG-22-063LCB20MB	24
0510725164	AZPG-22-022RCB20MB	24
0510725165	AZPG-22-025RCB20MB	24
0510725166	AZPG-22-028RCB20MB	24
0510725167	AZPG-22-032RCB20MB	24
0510725168	AZPG-22-036RCB20MB	24
0510725169	AZPG-22-040RCB20MB	24
0510725170	AZPG-22-045RCB20MB	24
0510825024	AZPG-22-050RCB20MB	24
0510825025	AZPG-22-056RCB20MB	24
0510825026	AZPG-22-063RCB20MB	24
0510725448	AZPG-22-022LHO30MB	25
0510725449	AZPG-22-025LHO30MB	25
0510725450	AZPG-22-028LHO30MB	25
0510725451	AZPG-22-032LHO30MB	25
0510725452	AZPG-22-036LHO30MB	25
0510725453	AZPG-22-040LHO30MB	25
0510725454	AZPG-22-045LHO30MB	25
0510825327	AZPG-22-050LHO30MB	25
0510825328	AZPG-22-056LHO30MB	25
0510825329	AZPG-22-063LHO30MB	25
0510725171	AZPG-22-022RHO30MB	25
0510725172	AZPG-22-025RHO30MB	25
0510725173	AZPG-22-028RHO30MB	25
0510725174	AZPG-22-032RHO30MB	25
0510725175	AZPG-22-036RHO30MB	25
0510725176	AZPG-22-040RHO30MB	25
0510725177	AZPG-22-045RHO30MB	25
0510825027	AZPG-22-050RHO30MB	25
0510825028	AZPG-22-056RHO30MB	25
0510825029	AZPG-22-063RHO30MB	25
0510725434	AZPG-22-022LDC07KB	26
0510725435	AZPG-22-025LDC07KB	26
0510725436	AZPG-22-028LDC07KB	26
0510725157	AZPG-22-022RDC07KB	26
0510725158	AZPG-22-025RDC07KB	26

Order number	Туре	Page
0510725437	AZPG-22-032LDC07KB	27
0510725438	AZPG-22-036LDC07KB	27
0510725439	AZPG-22-040LDC07KB	27
0510725440	AZPG-22-045LDC07KB	27
0510825321	AZPG-22-050LDC07KB	27
0510725160	AZPG-22-032RDC07KB	27
0510725161	AZPG-22-036RDC07KB	27
0510725162	AZPG-22-040RDC07KB	27
0510725163	AZPG-22-045RDC07KB	27
0510825021	AZPG-22-050RDC07KB	27
0510825322	AZPG-22-056LDC07KB	28
0510825323	AZPG-22-063LDC07KB	28
0510825022	AZPG-22-056RDC07KB	28
0510825023	AZPG-22-063RDC07KB	28
9510490132	AZPG-22-022LQC12MB-S0662	29
9510490133	AZPG-22-025LQC12MB-S0662	29
9510490134	AZPG-22-028LQC12MB-S0662	29
9510490122	AZPG-22-022RQC12MB-S0662	29
9510490123	AZPG-22-025RQC12MB-S0662	29
9510490124	AZPG-22-028RQC12MB-S0662	29
9510490135	AZPG-22-032LQC12MB-S0662	30
9510490136	AZPG-22-036LQC12MB-S0662	30
9510490137	AZPG-22-040LQC12MB-S0662	30
9510490138	AZPG-22-045LQC12MB-S0662	30
9510490125	AZPG-22-032RQC12MB-S0662	30
9510490126	AZPG-22-036RQC12MB-S0662	30
9510490127	AZPG-22-040RQC12MB-S0662	30
9510490128	AZPG-22-045RQC12MB-S0662	30
9510490139	AZPG-22-050LQC12MB-S0662	31
9510490140	AZPG-22-056LQC12MB-S0662	31
9510490141	AZPG-22-063LQC12MB-S0662	31
9510490129	AZPG-22-050RQC12MB-S0662	31
9510490130	AZPG-22-056RQC12MB-S0662	31
9510490131	AZPG-22-063RQC12MB-S0662	31
0510725432	AZPG-22-040LAX07KB-S0303	32
0510825314	AZPG-22-050LAX07KB-S0303	32
0510725147	AZPG-22-040RAX07KB-S0303	32
0510825015	AZPG-22-050RAX07KB-S0303	32
0510825315	AZPG-22-063LAX07KB-S0303	33
0510825316	AZPG-22-070LAX07KB-S0303	33
0510825016	AZPG-22-063RAX07KB-S0303	33
0510825017	AZPG-22-070RAX07KB-S0303	33
0510825317	AZPG-22-080LAX07KB-S0303	34
0510825318	AZPG-22-0100LAX07KB-S0303	34
0510825018	AZPG-22-080RAX07KB-S0303	34
0510825019	AZPG-22-100RAX07KB-S0303	34

S010725421 AZPG-22-040LDC07KB-50039 35 S510480030 AZPG-22-058RQC12MB 43	Order number	Туре	Page	Order number	Type	Page
S010725420 AZPG-22-OSDLDCOTKB-S0039 35 S010490111 AZPG-22-025LOC12MA 44						
0S10725136 AZPG-22-040RDC07KB-S0039 35 9510490112 AZPG-22-025LQC12MA 44 0S10725135 AZPG-22-05BDC07KB-S0039 35 9510490113 AZPG-22-02BLQC12MA 44 0S10923131 AZPG-22-05BLDC07KB-S0039 36 9510490115 AZPG-22-03BLQC12MA 44 0S10823312 AZPG-22-05BDC07KB-S0039 36 9510490115 AZPG-22-05BLQC12MA 44 0S10823313 AZPG-22-05BDC07KB-S0039 36 9510490115 AZPG-22-05BLQC12MA 44 0S10823310 AZPG-22-100LDC07KB-S0039 37 9510490118 AZPG-22-05BLQC12MA 44 0S10823310 AZPG-22-100LDC07KB-S0039 37 9510490118 AZPG-22-05BLQC12MA 44 0S10823013 AZPG-22-05BDC07KB-S0039 37 9510490101 AZPG-22-02BLQC12MA 44 0S10490011 AZPG-22-02BLDC12MB 38 9510490102 AZPG-22-02BLQC12MA 44 0S10490011 AZPG-22-02BLDC12MB 38 9510490103 AZPG-22-02BRGC12MA 44 0S10490010 AZPG-22-02BRDC12MB 38 9510490103 <						
S010725135 AZPG-22-050RDC07KB-S0039 35 9510490113 AZPG-22-038LQC1ZMA						
0810825313 AZPG-22-063LDC07KB-S0039 36 9510490114 AZPG-22-03LQC1ZMA 44 0810825312 AZPG-22-07LDC07KB-S0039 36 9510490116 AZPG-22-03BLC07ZMA 44 0810825014 AZPG-22-06SRDC07KB-S0039 36 9510490117 AZPG-22-040LC0ZMA 44 0810825014 AZPG-22-06BLDC07KB-S0039 37 9510490117 AZPG-22-06BLC0ZMA 44 0810825313 AZPG-22-08BLDC07KB-S0039 37 9510490119 AZPG-22-06BLC0ZMA 44 0810825310 AZPG-22-20BRDC07KB-S0039 37 9510490110 AZPG-22-02BLC0ZMA 44 0810825013 AZPG-22-20BRDC07KB-S0039 37 9510490110 AZPG-22-02BLC0ZMA 44 0810490012 AZPG-22-20BLDC1ZMB 38 9510490101 AZPG-22-02BRC1ZMA 44 9810490013 AZPG-22-20BLDC1ZMB 38 9510490103 AZPG-22-02BRC1ZMA 44 9810490001 AZPG-22-02BRDC1ZMB 38 9510490104 AZPG-22-02BRC1ZMA 44 9810490002 AZPG-22-02BRDC1ZMB 38 9510490106 AZPG-22-0						
0510825011 AZPG-22-063RDC07KB-S0039 36 9510490116 AZPG-22-040LQC12MA 44 0510825014 AZPG-22-07RDC07KB-S0039 36 9510490117 AZPG-22-050LQ12MA 44 0510825310 AZPG-22-08DL007KB-S0039 37 9510490118 AZPG-22-050LQ12MA 44 0510825310 AZPG-22-08DR007KB-S0039 37 9510490110 AZPG-22-056LQC12MA 44 0510825013 AZPG-22-02BDR007KB-S0039 37 9510490101 AZPG-22-02BC012MA 44 9510490011 AZPG-22-02BLDC12MB 38 9510490101 AZPG-22-02BR012MA 44 9510490012 AZPG-22-02BLDC12MB 38 9510490102 AZPG-22-02BR012MA 44 9510490001 AZPG-22-02BR012MB 38 9510490104 AZPG-22-03BR012MA 44 9510490001 AZPG-22-02BR012MB 38 9510490105 AZPG-22-03BR012MA 44 9510490001 AZPG-22-03BR012MB 38 9510490105 AZPG-22-04BR012MA 44 9510490001 AZPG-22-04BR012MB 38 9510490105 AZPG-22-04BR012MA						
SETIONA AZPG-22-OTORIDCOTKIN-SO039 36 9510490117 AZPG-22-O45LOC12MA 44		· · · · · · · · · · · · · · · · · · ·				
0510825311 AZPG-22-080LDC07KB-50039 37 9510490118 AZPG-22-050LOC12MA 44 0510825310 AZPG-22-100LDC07KB-50039 37 9510490119 AZPG-22-058LOC12MA 44 0510825012 AZPG-22-100RDC07KB-50039 37 9510490120 AZPG-22-02BLCC12MA 44 0510825013 AZPG-22-100RDC07KB-50039 37 9510490101 AZPG-22-02BC0C12MA 44 0510825013 AZPG-22-20ZBLDC12MB 38 9510490102 AZPG-22-02BRCC12MA 44 9510490012 AZPG-22-02BLDC12MB 38 9510490103 AZPG-22-02BRCC12MA 44 9510490013 AZPG-22-02BRC12MB 38 9510490104 AZPG-22-038RC12MA 44 9510490001 AZPG-22-02BRC12MB 38 9510490105 AZPG-22-038RC12MA 44 9510490014 AZPG-22-02BRC12MB 38 9510490107 AZPG-22-03RRC12MA 44 9510490014 AZPG-22-03ELDC12MB 38 9510490107 AZPG-22-05RGC12MA 44 9510490015 AZPG-22-03ELDC12MB 39 9510490018 AZPG-22-05RGC12MA						
SETIONA AZPG-22-100LDC07KB-S0039 37 9510490119 AZPG-22-058L0C12MA 44						
0510825012 AZPG-22-080RDC07KB-S0039 37 9510490120 AZPG-22-020RGC12MA 44 0510825013 AZPG-22-100RDC07KB-S0039 37 9510490110 AZPG-22-022EAC12MA 44 9510490011 AZPG-22-02EDC12MB 38 9510490102 AZPG-22-02ERGC12MA 44 9510490013 AZPG-22-02ELDC12MB 38 9510490103 AZPG-22-03ERGC12MA 44 9510490013 AZPG-22-02ERDC12MB 38 9510490105 AZPG-22-03ERGC12MA 44 9510490001 AZPG-22-02ERDC12MB 38 9510490105 AZPG-22-03ERGC12MA 44 9510490003 AZPG-22-02ERDC12MB 38 9510490105 AZPG-22-03ERGC12MA 44 9510490014 AZPG-22-03EDC12MB 38 9510490107 AZPG-22-045RGC12MA 44 9510490015 AZPG-22-03EDC12MB 39 9510490108 AZPG-22-045RCC12MA 44 9510490015 AZPG-22-04GLDC12MB 39 9510490109 AZPG-22-056RCC12MA 44 9510490015 AZPG-22-04GLDC12MB 39 9510490109 AZPG-22-02ERC12MA <						
0510825013 AZPG-22-100RDC07KB-S0039 37 95104900101 AZPG-22-022RDC12MA 44 9510490011 AZPG-22-025LDC12MB 38 9510490102 AZPG-22-025RDC12MA 44 9510490012 AZPG-22-026LDC12MB 38 9510490103 AZPG-22-028RQC12MA 44 9510490013 AZPG-22-022RDC12MB 38 9510490104 AZPG-22-028RQC12MA 44 9510490001 AZPG-22-025RDC12MB 38 9510490105 AZPG-22-036RQC12MA 44 9510490002 AZPG-22-025RDC12MB 38 9510490106 AZPG-22-045RQC12MA 44 9510490003 AZPG-22-036LDC12MB 38 9510490107 AZPG-22-045RQC12MA 44 9510490015 AZPG-22-036LDC12MB 39 9510490108 AZPG-22-045RQC12MA 44 9510490015 AZPG-22-036LDC12MB 39 9510490108 AZPG-22-056RQC12MA 44 9510490016 AZPG-22-040LDC12MB 39 9510490109 AZPG-22-068RQC12MA 44 9510490016 AZPG-22-036RDC12MB 39 9510490010 AZPG-22-068RQC12MB <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
S\$10490011						
9510490012 AZPG-22-028LDC12MB 38 9510490103 AZPG-22-028RQC12MA 44 9510490013 AZPG-22-028LDC12MB 38 9510490104 AZPG-22-032RQC12MA 44 9510490001 AZPG-22-028RDC12MB 38 9510490105 AZPG-22-038RQC12MA 44 9510490003 AZPG-22-028RDC12MB 38 9510490106 AZPG-22-045RQC12MA 44 9510490003 AZPG-22-028RDC12MB 38 9510490106 AZPG-22-045RQC12MA 44 9510490014 AZPG-22-038LDC12MB 39 9510490107 AZPG-22-045RQC12MA 44 9510490014 AZPG-22-038LDC12MB 39 9510490108 AZPG-22-056RQC12MA 44 9510490015 AZPG-22-038LDC12MB 39 9510490109 AZPG-22-065RQC12MA 44 9510490016 AZPG-22-038LDC12MB 39 9510490109 AZPG-22-065RQC12MA 44 9510490016 AZPG-22-045LDC12MB 39 9510490109 AZPG-22-065RQC12MA 44 9510490004 AZPG-22-045LDC12MB 39 9510490109 AZPG-22-065RQC12MA 44 9510490004 AZPG-22-038LDC12MB 39 9510490010 AZPG-22-065RQC12MA 44 9510490004 AZPG-22-038LDC12MB 39 9510490052 AZPG-22-038LDC40MB 45 9510490006 AZPG-22-038LDC12MB 39 9510490052 AZPG-22-025LDC40MB 45 9510490006 AZPG-22-038LDC12MB 39 9510490053 AZPG-22-035LDC40MB 45 9510490018 AZPG-22-056LDC12MB 39 9510490055 AZPG-22-038LDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 951049004 AZPG-22-038LDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 951049004 AZPG-22-038LDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 951049004 AZPG-22-028RDC40MB 45 9510490004 AZPG-22-056RDC12MB 40 951049004 AZPG-22-038RDC40MB 45 9510490004 AZPG-22-056RDC12MB 40 951049004 AZPG-22-038RDC40MB 45 9510490004 AZPG-22-056RDC12MB 40 951049004 AZPG-22-038RDC40MB 45 9510490002 AZPG-22-056RDC12MB 40 951049004 AZPG-22-038RDC40MB 46 951049002 AZPG-22-025RDC40MB 46 951049002 AZPG-22-025RDC40MB 46 951049004 AZPG-22-038RDC40MB 46 951049002 AZPG-22-038RDC40MB 47 951049002 AZPG-22-038RD						
9510490013 AZPG-22-028LDC12MB 38 9510490104 AZPG-22-032RQC12MA 44 9510490001 AZPG-22-022RDC12MB 38 9510490105 AZPG-22-036RQC12MA 44 9510490002 AZPG-22-028RDC12MB 38 9510490106 AZPG-22-045RQC12MA 44 9510490014 AZPG-22-038LDC12MB 38 9510490108 AZPG-22-045RQC12MA 44 9510490016 AZPG-22-045RQC12MA 44 49 49 49 49 49 44 49 49 44 49 49 40 44 44 49 49 40 40 44						
9510490001 AZPG-22-022RDC12MB 38 9510490105 AZPG-22-036RQC12MA 44 9510490002 AZPG-22-022RDC12MB 38 9510490106 AZPG-22-040RQC12MA 44 9510490014 AZPG-22-032LDC12MB 38 9510490107 AZPG-22-056RQC12MA 44 9510490014 AZPG-22-036LDC12MB 39 9510490109 AZPG-22-056RQC12MA 44 9510490016 AZPG-22-046LDC12MB 39 9510490109 AZPG-22-056RQC12MA 44 9510490017 AZPG-22-046LDC12MB 39 9510490110 AZPG-22-068RQC12MA 44 9510490016 AZPG-22-046LDC12MB 39 9510490051 AZPG-22-02ELDC40MB 45 9510490004 AZPG-22-046RDC12MB 39 9510490052 AZPG-22-02ELDC40MB 45 9510490006 AZPG-22-046RDC12MB 39 9510490053 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-046RDC12MB 39 9510490054 AZPG-22-036LDC40MB 45 9510490019 AZPG-22-066LDC12MB 40 9510490042 AZPG-22-036RDC40MB 45 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
9510490002 AZPG-22-025RDC12MB 38 9510490106 AZPG-22-040RQC12MA 44 9510490003 AZPG-22-028RDC12MB 38 9510490107 AZPG-22-045RQC12MA 44 9510490014 AZPG-22-032LDC12MB 39 9510490108 AZPG-22-056RQC12MA 44 9510490015 AZPG-22-040LDC12MB 39 9510490109 AZPG-22-056RQC12MA 44 9510490016 AZPG-22-045LDC12MB 39 9510490110 AZPG-22-063RQC12MA 44 9510490017 AZPG-22-045LDC12MB 39 9510490051 AZPG-22-02LDC40MB 45 9510490004 AZPG-22-03RDC12MB 39 9510490052 AZPG-22-02ELDC40MB 45 9510490005 AZPG-22-040RDC12MB 39 9510490052 AZPG-22-02BLDC40MB 45 9510490007 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-02BLDC40MB 45 9510490018 AZPG-22-056LDC12MB 39 9510490041 AZPG-22-02BRDC40MB 45 9510490019 AZPG-22-056RDC12MB 40 9510490042 AZPG-22-02BRDC40MB 45						
9510490003 AZPG-22-028RDC12MB 38 9510490107 AZPG-22-024CD12MA 44 9510490014 AZPG-22-032LDC12MB 39 9510490108 AZPG-22-050RQC12MA 44 9510490015 AZPG-22-036LDC12MB 39 9510490101 AZPG-22-063RQC12MA 44 9510490016 AZPG-22-045LDC12MB 39 9510490051 AZPG-22-028LDC40MB 45 9510490004 AZPG-22-032RDC12MB 39 9510490051 AZPG-22-028LDC40MB 45 9510490005 AZPG-22-038RDC12MB 39 9510490052 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-036RDC12MB 39 9510490053 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-046RDC12MB 39 9510490055 AZPG-22-028LDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 9510490055 AZPG-22-028RDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490041 AZPG-22-028RDC40MB 45 9510490020 AZPG-22-056RDC12MB 40 9510490024 AZPG-22-028RDC40MB 45 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
9510490014 AZPG-22-032LDC12MB 39 9510490018 AZPG-22-050RQC12MA 44 9510490015 AZPG-22-036LDC12MB 39 9510490109 AZPG-22-056RQC12MA 44 9510490016 AZPG-22-040LDC12MB 39 9510490110 AZPG-22-063RQC12MA 44 9510490017 AZPG-22-045LDC12MB 39 9510490052 AZPG-22-02CD4C0MB 45 9510490005 AZPG-22-032RDC12MB 39 9510490052 AZPG-22-02ELDC40MB 45 9510490006 AZPG-22-04GRDC12MB 39 9510490053 AZPG-22-03ELDC40MB 45 9510490006 AZPG-22-04GRDC12MB 39 9510490054 AZPG-22-03ELDC40MB 45 9510490007 AZPG-22-04GRDC12MB 39 9510490055 AZPG-22-03ELDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 9510490014 AZPG-22-03ELDC40MB 45 9510490020 AZPG-22-056LDC12MB 40 9510490043 AZPG-22-03ERDC40MB 45 9510490020 AZPG-22-05GRDC12MB 40 9510490044 AZPG-22-03ERDC40MB 45 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
9510490015 AZPG-22-036LDC12MB 39 9510490109 AZPG-22-056RQC12MA 44 9510490016 AZPG-22-040LDC12MB 39 9510490110 AZPG-22-063RQC12MA 44 9510490017 AZPG-22-036LDC12MB 39 9510490051 AZPG-22-025LDC40MB 45 9510490005 AZPG-22-036RDC12MB 39 9510490052 AZPG-22-025LDC40MB 45 9510490005 AZPG-22-036RDC12MB 39 9510490053 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-040RDC12MB 39 9510490054 AZPG-22-036LDC40MB 45 9510490007 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-050LDC12MB 40 9510490055 AZPG-22-036LDC40MB 45 9510490019 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-02ERDC40MB 45 9510490020 AZPG-22-063LDC12MB 40 9510490042 AZPG-22-02ERDC40MB 45 9510490020 AZPG-22-065RDC12MB 40 9510490044 AZPG-22-03ERDC40MB 45 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
9510490016 AZPG-22-040LDC12MB 39 9510490110 AZPG-22-063RQC12MA 44 9510490017 AZPG-22-045LDC12MB 39 9510490051 AZPG-22-022LDC40MB 45 9510490004 AZPG-22-032RDC12MB 39 9510490052 AZPG-22-028LDC40MB 45 9510490005 AZPG-22-040RDC12MB 39 9510490053 AZPG-22-032LDC40MB 45 9510490006 AZPG-22-045RDC12MB 39 9510490054 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-036LDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-025RDC40MB 45 9510490020 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-038RDC40MB 45 9510490010 AZPG-22-056RDC12MB 40 9510490054 AZPG-22-036RDC40MB 46 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
9510490017 AZPG-22-045LDC12MB 39 9510490051 AZPG-22-022LDC40MB 45 9510490004 AZPG-22-032RDC12MB 39 9510490052 AZPG-22-025LDC40MB 45 9510490005 AZPG-22-036RDC12MB 39 9510490053 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-040RDC12MB 39 9510490054 AZPG-22-035LDC40MB 45 9510490017 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 9510490041 AZPG-22-036LDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-02RDC40MB 45 9510490019 AZPG-22-066LDC12MB 40 9510490042 AZPG-22-02RDC40MB 45 9510490020 AZPG-22-056RDC12MB 40 9510490043 AZPG-22-02RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-03RDC40MB 45 9510490010 AZPG-22-068RDC12MB 40 9510490045 AZPG-22-045LDC40MB 46						
9510490004 AZPG-22-032RDC12MB 39 9510490052 AZPG-22-025LDC40MB 45 9510490005 AZPG-22-036RDC12MB 39 9510490053 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-040RDC12MB 39 9510490054 AZPG-22-03LDC40MB 45 9510490018 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-03LDC40MB 45 9510490019 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-02RDC40MB 45 9510490020 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-02SRDC40MB 45 9510490002 AZPG-22-050RDC12MB 40 9510490042 AZPG-22-02SRDC40MB 45 9510490008 AZPG-22-050RDC12MB 40 9510490044 AZPG-22-02SRDC40MB 45 9510490010 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-03RDC40MB 45 9510490021 AZPG-22-02SROC12MB 41 9510490056 AZPG-22-04LDC40MB 46 9510490022 AZPG-22-05RQC12MB 41 9510490058 AZPG-22-04DLD40MB 46				-		
9510490005 AZPG-22-036RDC12MB 39 9510490053 AZPG-22-028LDC40MB 45 9510490006 AZPG-22-040RDC12MB 39 9510490054 AZPG-22-032LDC40MB 45 0510490007 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-056LDC12MB 40 9510490041 AZPG-22-028RDC40MB 45 9510490020 AZPG-22-066LDC12MB 40 9510490042 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-058DC12MB 40 9510490043 AZPG-22-038RDC40MB 45 9510490008 AZPG-22-058DC12MB 40 9510490044 AZPG-22-038RDC40MB 45 95104900010 AZPG-22-058RDC12MB 40 9510490045 AZPG-22-03RDC40MB 45 9510490021 AZPG-22-058RDC12MB 40 9510490056 AZPG-22-03RDC40MB 46 9510490022 AZPG-22-028RQC12MB 41 9510490057 AZPG-22-046LDC40MB 46 9510490023 AZPG-22-03RQC12MB 41 9510490058 AZPG-22-04RDC40MB 46						
9510490006 AZPG-22-040RDC12MB 39 9510490054 AZPG-22-032LDC40MB 45 0510490007 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-022RDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-025RDC40MB 45 9510490020 AZPG-22-063LDC12MB 40 9510490043 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490009 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490001 AZPG-22-066RDC12MB 40 9510490045 AZPG-22-032RDC40MB 45 9510490021 AZPG-22-063RDC12MB 41 9510490056 AZPG-22-040MB 46 9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490033 AZPG-22-036LQC12MB 42 9510490046 AZPG-22-04FDC40MB 46						
0510499007 AZPG-22-045RDC12MB 39 9510490055 AZPG-22-036LDC40MB 45 9510490018 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-02ZRDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-025RDC40MB 45 9510490020 AZPG-22-063LDC12MB 40 9510490043 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490009 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-032RDC40MB 45 9510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-022RQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-028RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490033 AZPG-22-036LQC12MB 41 9510490046 AZPG-22-045RDC40MB 46 9510490037 AZPG-22-036LQC12MB 42 951049004 AZPG-22-056LDC40MB 46 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
9510490018 AZPG-22-050LDC12MB 40 9510490041 AZPG-22-022RDC40MB 45 9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-025RDC40MB 45 9510490020 AZPG-22-063LDC12MB 40 9510490043 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490010 AZPG-22-056RDC12MB 40 9510490056 AZPG-22-036RDC40MB 45 9510490021 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490022 AZPG-22-02RQC12MB 41 9510490058 AZPG-22-045LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490058 AZPG-22-04RDC40MB 46 9510490034 AZPG-22-036LQC12MB 42 9510490046 AZPG-22-04RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 951049004A AZPG-22-05RDC40MB 46 9510490036 AZPG-22-036RQC12MB 42 9510490059 AZPG-22-056LDC40MB 47						
9510490019 AZPG-22-056LDC12MB 40 9510490042 AZPG-22-025RDC40MB 45 9510490020 AZPG-22-063LDC12MB 40 9510490043 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-050RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490009 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-036RDC40MB 45 9510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-02RQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-02BRQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490033 AZPG-22-02BRQC12MB 41 9510490046 AZPG-22-045RDC40MB 46 9510490034 AZPG-22-036LQC12MB 42 9510490046 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050LDC40MB 47 9510490024 AZPG-22-036RQC12MB 42 9510490059 AZPG-22-056RDC40MB 47 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
9510490020 AZPG-22-063LDC12MB 40 9510490043 AZPG-22-028RDC40MB 45 9510490008 AZPG-22-056RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490009 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-036RDC40MB 45 9510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-02ZRQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-02SRQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490033 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 41 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-032LQC12MB 42 9510490048 AZPG-22-05RDC40MB 46 9510490035 AZPG-22-032RQC12MB 42 9510490059 AZPG-22-05RDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490059 AZPG-22-05RDC40MB 47	9510490018	AZPG-22-050LDC12MB	40	9510490041	AZPG-22-022RDC40MB	45
9510490008 AZPG-22-050RDC12MB 40 9510490044 AZPG-22-032RDC40MB 45 9510490009 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-036RDC40MB 45 0510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-022RQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490046 AZPG-22-040RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-05RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-03RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-04GRQC12MB 42 9510490094 AZPG-22-063RDC40MB 47	9510490019			9510490042		
9510490009 AZPG-22-056RDC12MB 40 9510490045 AZPG-22-036RDC40MB 45 0510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-02ZRQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-046RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-063RDC40MB 48 <td>9510490020</td> <td>AZPG-22-063LDC12MB</td> <td>40</td> <td>9510490043</td> <td>AZPG-22-028RDC40MB</td> <td>45</td>	9510490020	AZPG-22-063LDC12MB	40	9510490043	AZPG-22-028RDC40MB	45
0510490010 AZPG-22-063RDC12MB 40 9510490056 AZPG-22-040LDC40MB 46 9510490021 AZPG-22-022RQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-04RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-05RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-063RDC40MB 47 9510490038 AZPG-22-056LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48			40	9510490044		45
9510490021 AZPG-22-022RQC12MB 41 9510490057 AZPG-22-045LDC40MB 46 9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-050RDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-045RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-063RDC40MB 48 9510490038 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-025LQC40MB 48 <td>9510490009</td> <td>AZPG-22-056RDC12MB</td> <td>40</td> <td>9510490045</td> <td>AZPG-22-036RDC40MB</td> <td>45</td>	9510490009	AZPG-22-056RDC12MB	40	9510490045	AZPG-22-036RDC40MB	45
9510490022 AZPG-22-025RQC12MB 41 9510490058 AZPG-22-050LDC40MB 46 9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-025RQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 <td>0510490010</td> <td>AZPG-22-063RDC12MB</td> <td>40</td> <td>9510490056</td> <td>AZPG-22-040LDC40MB</td> <td>46</td>	0510490010	AZPG-22-063RDC12MB	40	9510490056	AZPG-22-040LDC40MB	46
9510490023 AZPG-22-028RQC12MB 41 9510490046 AZPG-22-040RDC40MB 46 9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-056RDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-036LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48 <td>9510490021</td> <td>AZPG-22-022RQC12MB</td> <td>41</td> <td>9510490057</td> <td>AZPG-22-045LDC40MB</td> <td>46</td>	9510490021	AZPG-22-022RQC12MB	41	9510490057	AZPG-22-045LDC40MB	46
9510490034 AZPG-22-032LQC12MB 42 9510490047 AZPG-22-045RDC40MB 46 9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-063LQC12MB 43 9510490095 AZPG-22-036LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48 <td>9510490022</td> <td>AZPG-22-025RQC12MB</td> <td>41</td> <td>9510490058</td> <td>AZPG-22-050LDC40MB</td> <td>46</td>	9510490022	AZPG-22-025RQC12MB	41	9510490058	AZPG-22-050LDC40MB	46
9510490035 AZPG-22-036LQC12MB 42 9510490048 AZPG-22-050RDC40MB 46 9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490028 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490023	AZPG-22-028RQC12MB	41	9510490046	AZPG-22-040RDC40MB	46
9510490037 AZPG-22-045LQC12MB 42 9510490059 AZPG-22-056LDC40MB 47 9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490034	AZPG-22-032LQC12MB	42	9510490047	AZPG-22-045RDC40MB	46
9510490024 AZPG-22-032RQC12MB 42 9510490060 AZPG-22-063LDC40MB 47 9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490028 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490035	AZPG-22-036LQC12MB	42	9510490048	AZPG-22-050RDC40MB	46
9510490025 AZPG-22-036RQC12MB 42 9510490049 AZPG-22-056RDC40MB 47 9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490037	AZPG-22-045LQC12MB	42	9510490059	AZPG-22-056LDC40MB	47
9510490026 AZPG-22-040RQC12MB 42 9510490050 AZPG-22-063RDC40MB 47 9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490024	AZPG-22-032RQC12MB	42	9510490060	AZPG-22-063LDC40MB	47
9510490027 AZPG-22-045RQC12MB 42 9510490091 AZPG-22-022LQC40MB 48 9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490025	AZPG-22-036RQC12MB	42	9510490049	AZPG-22-056RDC40MB	47
9510490038 AZPG-22-050LQC12MB 43 9510490092 AZPG-22-025LQC40MB 48 9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490026	AZPG-22-040RQC12MB	42	9510490050	AZPG-22-063RDC40MB	47
9510490039 AZPG-22-056LQC12MB 43 9510490093 AZPG-22-028LQC40MB 48 9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490027	AZPG-22-045RQC12MB	42	9510490091	AZPG-22-022LQC40MB	48
9510490040 AZPG-22-063LQC12MB 43 9510490094 AZPG-22-032LQC40MB 48 9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490038	AZPG-22-050LQC12MB	43	9510490092	AZPG-22-025LQC40MB	48
9510490028 AZPG-22-050RQC12MB 43 9510490095 AZPG-22-036LQC40MB 48	9510490039	AZPG-22-056LQC12MB	43	9510490093	AZPG-22-028LQC40MB	48
	9510490040	AZPG-22-063LQC12MB	43	9510490094	AZPG-22-032LQC40MB	48
9510490029 AZPG-22-056RQC12MB 43 9510490081 AZPG-22-022RQC40MB 48	9510490028	AZPG-22-050RQC12MB	43	9510490095	AZPG-22-036LQC40MB	48
	9510490029	AZPG-22-056RQC12MB	43	9510490081	AZPG-22-022RQC40MB	48

Order number	Туре	Page
9510490082	AZPG-22-025RQC40MB	48
9510490083	AZPG-22-028RQC40MB	48
9510490083	AZPG-22-032RQC40MB	48
9510490084		48
	AZPG-22-036RQC40MB	
9510490096	AZPG-22-040LQC40MB	49
9510490097	AZPG-22-045LQC40MB	49
9510490098	AZPG-22-050LQC40MB	49
9510490086	AZPG-22-040RQC40MB	49
9510490087	AZPG-22-045RQC40MB	49
9510490088	AZPG-22-050RQC40MB	49
9510490099	AZPG-22-056LQC40MB	50
9510490100	AZPG-22-063LQC40MB	50
9510490089	AZPG-22-056RQC40MB	50
9510490090	AZPG-22-063RQC40MB	50
9510490071	AZPG-22-022LDC12MA	51
9510490072	AZPG-22-025LDC12MA	51
9510490073	AZPG-22-028LDC12MA	51
9510490074	AZPG-22-032LDC12MA	51
9510490075	AZPG-22-036LDC12MA	51
9510490076	AZPG-22-040LDC12MA	51
9510490077	AZPG-22-045LDC12MA	51
9510490078	AZPG-22-050LDC12MA	51
9510490079	AZPG-22-056LDC12MA	51
9510490080	AZPG-22-063LDC12MA	51
9510490061	AZPG-22-022RDC12MA	51
9510490062	AZPG-22-025RDC12MA	51
9510490063	AZPG-22-028RDC12MA	51
9510490064	AZPG-22-032RDC12MA	51
9510490065	AZPG-22-036RDC12MA	51
9510490066	AZPG-22-040RDC12MA	51
9510490067	AZPG-22-045RDC12MA	51
9510490068	AZPG-22-050RDC12MA	51
9510490069	AZPG-22-056RDC12MA	51
9510490070	AZPG-22-063RDC12MA	51
0510765430	AZPGG-22-022 / 022LCB2020MB	52-53
0510767337	AZPGG-22-032 / 022LCB2020MB	52-53
0510767336	AZPGG-22-032 / 032LCB2020MB	52-53
0510768332	AZPGG-22-040 / 022LCB2020MB	52-53
0510768331	AZPGG-22-040 / 032LCB2020MB	52-53
0510768330	AZPGG-22-040 / 040LCB2020MB	52-53
0510769325	AZPGG-22-045 / 045LCB2020MB	52-53
0510765115	AZPGG-22-022 / 022RCB2020MB	52-53
0510767079	AZPGG-22-032 / 022RCB2020MB	52-53
0510767078	AZPGG-22-032 / 032RCB2020MB	52-53
0510768051	AZPGG-22-040 / 022RCB2020MB	52-53
0510768050	AZPGG-22-040 / 032RCB2020MB	52-53
0510768049	AZPGG-22-040 / 040RCB2020MB	52-53
-		

Ouden mumb - ::	Turne	Da
Order number	Туре	Page
0510769033	AZPGG-22-045 / 022RCB2020MB	52-53
0510769032	AZPGG-22-045 / 032RCB2020MB	52-53
0510769031	AZPGG-22-045 / 040RCB2020MB	52-53
0510769030	AZPGG-22-045 / 045RCB2020MB	52-53
0510865013	AZPGG-22-056 / 040RCB2020MB	52-53
0510665320	AZPGF-22-056 / 016LDC2020MB	54
0510665319	AZPGF-22-056 / 016LDC2020MB	54
0510765118	AZPGF-22-022 / 016RDC2020MB	54
0510767067	AZPGF-22-056 / 016RDC2020MB	54
0510865016	AZPGF-22-056 / 022RDC2020MB	54
0510766016	AZPGG-22-028 / 028RDC0707MB	55
0510767324	AZPGF-22-032 / 011LDC2020KB	56-57
0510767328	AZPGF-22-032 / 016LDC2020KB	56-57
0510769318	AZPGF-22-045 / 011LDC2020KB	56-57
0510769319	AZPGF-22-045 / 016LDC2020KB	56-57
0510767330	AZPGF-22-032 / 016LDC2020MB	56-57
0510769321	AZPGF-22-045 / 019LDC2020MB	56-57
0510767064	AZPGF-22-032 / 016RDC2020KB	56-57
0510767066	AZPGF-22-032 / 014RDC2020MB	56-57
0510768043	AZPGF-22-040 / 014RDC2020MB	56-57
0510769022	AZPGF-22-045 / 016RDC2020MB	56-57
0510769023	AZPGF-22-045 / 019RDC2020MB	56-57

AZ Configurator

With our practical product selector, it will take you next to no time to find the right solution for your applications, no matter whether you are looking for SILENCE PLUS or any other external gear unit.

Based on a selection of features, the selector guides you through all of the products available for order. By clicking on the order number, you can view and download the following product information: data sheet, dimension sheet, instruction manual, operating conditions and tightening torques.

You can order your selection directly via our online shop and benefit from an additional discount of 2% in this way. And if you need something really quickly, simply use our fast delivery and preferred programs (GoTo). Your order will then be dispatched within 10 business days. You also have the possibility of easily and conveniently configuring your custom external gear unit with our AZ Configurator. All the data required for the project planning of external gear units can be obtained through the menu navigation.

For an existing configuration, the result is the order number, the type code and further information. If your configuration does not result in an orderable product, our online tools give you the possibility of sending a project request directly to Bosch Rexroth. We will then get in contact with you.

Link: www.boschrexroth.com/az-configurator



Fit4SILENCE app

Do you want to quickly determine the noise level of an application but don't have a measuring device at hand? With Fit4SILENCE, this is no longer a problem! Our new noise measurement app for all Android devices can be directly downloaded for free. After calibration, you can start using it straight away and conduct fast, accurate noise measurements with different weightings in no time at all. An additional measuring device is no longer required since calibrated smartphones using the app can achieve an accuracy that approximates professional measuring devices.

Last but not least, the app contains interesting information about SILENCE PLUS technology, including an audio sample.

Link: www.boschrexroth.com/silence-plus

▼ Download the Android app:



Other related documents

Extensive notes and suggestions can be found in the Hydraulic Trainer, volume 3: "Planning and Design of Hydraulic Power Systems", order number R900018538.

Bosch Rexroth AG

Robert-Bosch-Straße 2 71701 Schwieberdingen Germany brm-az.info@boschrexroth.de www.boschrexroth.com © Bosch Rexroth AG 2019. Alle Rechte vorbehalten, auch bzgl. jeder Verfügung, Verwertung, Reproduktion, Bearbeitung, Weitergabe sowie für den Fall von Schutzrechtsanmeldungen. Die angegebenen Daten dienen allein der Produktbeschreibung. Eine Aussage über eine bestimmte Beschaffenheit oder eine Eignung für einen bestimmten Einsatzzweck kann aus unseren Angaben nicht abgeleitet werden. Die Angaben entbinden den Verwender nicht von eigenen Beurteilungen und Prüfungen. Es ist zu beachten, dass unsere Produkte einem natürlichen Verschleiß- und Alterungsprozess unterliegen.