	Gold Cup pumps         Model number           Example model number:													
	P 11	Р		-2	R	1	*	-40	2	-B	00	-0	В	0
	Р													
Displacement														
5.00 cu.in./rev. (98 cc/rev.)	6													
7.25 cu.in./rev. (119 cc/rev.)	7													
8.00 cu.in./rev. (131 cc/rev.)	8													
11.0 cu.in./rev. (180 cc/rev.)	11													
4.0 cu.in./rev. (229 cc/rev.)	14													
24.6 cu.in./rev. (403 cc/rev.)	24													
30.6 cu.in./rev. (501 cc/rev.)	30	1												
Гуре		Б												
Fixed displacement, closed circuit		F M												
Fixed displacement with high torque thru-drive, closed circuit		P												
Variable displacement, closed circuit		X												
Variable displacement with medium torque thru-drive, closed circuit		S												
Variable displacement with high torque thru-drive, closed circuit		R												
Variable displacement with high torque thru-drive & shuttle package, closed circuit		L												
Variable displacement, open circuit (for P6, 7, 8, 11, & 14 only)		V												
Variable displacement, open & closed circuit (for P6, 7, & 8 only)		D												
Efficiency						1								
High efficiency (for P24 only)			Н			1								
Standard efficiency		leave				1								
Shaft						1								
Keyed SAE - mechanical shaft seal (single lip seal on P6/7/8F/M)				-2 or -02		1								
Splined SAE - mechanical shaft seal (single lip seal on P6/7/8F/M)				-3 or -03										
Keyed SAE-D (mounting & shaft) - mechanical shaft seal (for P6/7/8 only)(single lip seal on				-4 or -04										
Splined SAE-D (mounting & shaft) - mechanical shaft seal (for P6/7/8 only)(single lip seal o	n P6/7/8	F/M)		-5 or -05										
Keyed SAE - double lip shaft seal				-7 or -07										
Splined SAE - double lip shaft seal				-8 or -08										
Keyed (long) SAE - double lip shaft seal				-9 or -09										
Keyed (long) SAE - mechanical shaft seal				-10										
Rotation														
Clockwise					R									
Counter-clockwise					L									
Vitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle	ess otherv	wise spe	cified)	)		1 4								
Seals Vitrile (Buna N) 3PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls	ess otherv	wise spe	cified)	)		1 4 5	*							
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls	ess otherv	wise spe	cified)				*	omit						
Vitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only)	ess otherv	wise spe	cified)				*	omit -10						
Nitrile (Buna N) EPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Clourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement)	ess otherv	wise spe	cified)				*	-10						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Plourocarbon (Viton) <b>Design letter</b> (assigned by manufacturer) <b>Primary controls</b> None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control w/ adjustable maximum volume stops	ess otherv	wise spe	cified)				*							
Nitrile (Buna N) EPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Clourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement)							*	-10 -2A						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control w/ adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment)							*	-10 -2A -2H						
Vitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control w/ adjustable maximum volume stops _ylinder control - 3 position (spring centered with zero adjustment) _ylinder control - 2 position electro-hydraulic w/ adjustable maximum volume stop (spring							*	-10 -2A -2H -2M						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control w/ adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered) electro-hydraulic Notary servo - spring centered Notary servo - spring centered w/ adjustable maximum volume stops							*	-10 -2A -2H -2M -2N -40 -4A						
Nitrile (Buna N)  IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle  Plourocarbon (Viton)  Design letter (assigned by manufacturer)  Primary controls  None (for fixed displacement units only)  Serew adjustment (spring offset to maximum displacement)  Cylinder control - 3 position (spring centered with zero adjustment)  Cylinder control - 2 position (spring centered with zero adjustment)  Cylinder control - 3 position (spring centered) electro-hydraulic  Notary servo - spring centered wi dijustable maximum volume stops  Cotary servo - spring centered wi automatic brake control	offset to						*	-10 -2A -2H -2M -2N -40 -4A -4B						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) <b>Design letter (assigned by manufacturer)</b> <b>Primary controls</b> None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake control Rotary servo - spring centered w/ adjustabl	offset to						*	-10 -2A -2H -2M -2N -40 -4A -4B -4C						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Sylinder control v/ adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment) Sylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position (spring centered) electro-hydraulic Solary servo - spring centered Rotary servo - spring centered w/ adjustable maximum volume stops Solary servo - spring centered w/ adjustable maximum volume stops Solary servo - spring centered w/ adjustable maximum volume stops Solary servo - spring centered w/ adjustable maximum volume stops Solary servo - spring centered w/ adjustable maximum volume stops & automatic brake corrol Rotary servo - spring centered w/ adjustable maximum volume stops & automatic brake corrol	offset to						*	-10 -2A -2H -2M -2N -40 -4A -4B -4C -5A						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design Letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Sylinder control w adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position (spring centered) electro-hydraulic Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops	offset to						*	-10 -2A -2H -2M -2N -40 -4A -4A -4B -4C -5A -5C						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) <b>Design letter (assigned by manufacturer)</b> <b>Primary controls</b> None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered) electro-hydraulic Notary servo - spring centered Notary servo - spring centered Notary servo - spring centered w/ adjustable maximum volume stops Cotary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Clettro-hydraulic stroker w/ adjustable maximum volume stops Betror-hydraulic stroker w/ adjustable maximum volume stops & automatic brake control High IQ with 10 gpm servovalve & volume indicator	offset to						*	-10 -2A -2H -2M -2N -40 -4A -4A -4B -4C -5A -5C -7D						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Plourocarbon (Viton) Posign letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maxi	offset to						*	-10 -2A -2H -2M -40 -4A -4A -4B -4C -5A -5C -7D -7F						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design Letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Zylinder control - 3 position (spring centered with zero adjustment) Zylinder control - 3 position (spring centered with zero adjustment) Zylinder control - 3 position (spring centered with zero adjustment) Zylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered Rotary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable max	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control // adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position electro-hydraulic brack control Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable ma	offset to						*	-10 -2A -2H -2M -40 -4A -4A -4C -5A -5C -7D -7F -7J -7K						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) Pesign Letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered w/ adjustable maximum volume stops Sotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Bleetro-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Automatic brake control High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & 4A (rotary servo) control High IQ with 4DC01 valve & 4A (rotary servo) control High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & tolume indicato	offset to						*	-10 -2A -2H -2M -40 -4A -4A -4B -4C -5A -5C -7D -7F -7J -7K -8A						
Nitrile (Buna N) PR (not available when using "SA" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position electro-hydraulic w adjustable maximum volume stops Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered v adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Ale figh IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Notary servo - spring centered servosive set AA (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Notary servo set Prime Strops Hydraulic stroker w/ adjustable maximum volume stops Notary servosive set AB (maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Notary Strops wet wet Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Notary Strops wet wet Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroker w/ adjustable maximum volume stops Hydraulic stroke	offset to						*	-10 -2A -2H -2N -40 -4A -4B -4C -5A -5C -7D -7F -7J -7K -8A -8C						
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls Screw adjustment (spring offset to maximum displacement) Sylinder control v/ adjustable maximum volume stops Cylinder control - 3 position (spring centered with zero adjustment) Sylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered Notary servo - spring centered w/ adjustable maximum volume stops (spring Cylinder control - 3 position (adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Settor-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Electo-hydraulic stroker w/ adjustable	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Plourocarbon (Viton) Design Letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered) electro-hydraulic Notary servo - spring centered Notary servo - spring centered w/ adjustable maximum volume stops Stary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary with 4DC01 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Notary with stroker w/ adjustable maximum volume stops Notary with Server w/ adjustable maximum volume stops Notary with Server w/ adjustable maximum volume stops Notary without servered with stroker w/ adj	offset to						*	-10 -2A -2H -2N -40 -4A -4B -4C -5A -5C -7D -7F -7J -7K -8A -8C						
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) Pesign Lettre (assigned by manufacturer) Primary controls Sorew adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered widajustable maximum volume stops Rotary servo - spring centered widjustable maximum volume stops High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & 4A (rotary servo) control High IQ with 4DCO1 valve & 4A (rotary servo) control High IQ with 4DCO1 valve & 4A (rotary servo) control High IQ with 4DCO1 valve & A (potary servo) control High IQ with 4DCO1 valve & A (potary servo) control High IQ with 4DCO1 valve & A (potary servo) control High IQ with 4DCO1 valve & A (potary servo) control High IQ with 4DCO1 valve & A (potary servo) control High IQ	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	omit					
Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position electro-hydraulic w/ adjustable maximum volume stops Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered v/ adjustable maximum volume stops Cotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops A (rotary servo) control High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DC01 valve & volume indicator High IQ with 4DC01 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Beetor-hydraulic stroker w/ adjustable maximum volume stops None (for fixed displacement units only)	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	omit					
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Nitrile (Buna N) PR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls Sorew adjusted isplacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered widjustable maximum volume stops (spring Control - 3 position (spring centered) electro-hydraulic Rotary servo - spring centered widjustable maximum volume stops Rotary servo - spring centered widjustable maximum volume stops Rotary servo - spring centered widjustable maximum volume stops Rotary servo - spring centered widjustable maximum volume stops Betero-hydraulic stroker widjustable maximum volume stops Electro-hydraulic stroker widjustable maximum volume stops Electro-hydraulic stroker widjustable maximum volume stops Automatic brake control High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DCOI valve & volume indicator High IQ with 4DCOI valve & volume indicator High IQ with 4DCOI valve & 4A (rotary servo) control Hydraulic stroker wi adjustable maximum volume stops Electro-hydraulic stroker wi adjustable maximum volume stops Secondary controls None (for fixed displacement units only) Volume indicator	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2					
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Design letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Zylinder control - 3 position (spring centered with zero adjustment) Zylinder control - 3 position (spring centered with zero adjustment) Zylinder control - 2 position electro-hydraulic w/ adjustable maximum volume stop (spring Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered w/ adjustable maximum volume stops (spring Cylinder control - 3 position (adjustable maximum volume stops Cylinder control - 4 adjustable maximum volume stops Cylinder control - 4 adjustable maximum volume stops Cotary servo - spring centered w/ adjustable maximum volume stops Cotary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volu	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4					
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls Posign letter (assigned by manufacturer) Primary controls Sorew adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servos - spring centered w/ adjustable maximum volume stops Rotary servos - spring centered w/ adjustable maximum volume stops Rotero-hydraulic stroker w/ adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 10 CO1 valve & volume indicator High IQ with 4DCO1 valve & 4A (rotary servo) control High IQ with 4DCO1 valve & valjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Roterothydraulic stroker w/ adjustable maximum volume stops Recondary controls None (for fixed displacement units only) Volume indicator Forque limiter & volume indicator Corque limiter & volume indicator Forque limiter & volume indicator Sore (for fixed displacement units only) Volume indicator Forque	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4 6					
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Perimary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position electro-hydraulic w/ adjustable maximum volume stops Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered v/ adjustable maximum volume stops Cotary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Notary servo - spring centered w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops Electro-hydraulic stroker w/ adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & 4A (rotary servo) control Hydraulic stroker w/ adjustable maximum volume stops Network w/ adjustable maximum volume stops Notary stroker w/ adjustable maximum volu	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4 6	omit				
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Posign letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 2 position (spring centered) vietor-hydraulic Notary servo - spring centered Notary servo - spring centered wid automatic brake control Rotary servo - spring centered wid adjustable maximum volume stops Stary servo - spring centered wid adjustable maximum volume stops Notary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Rotary servo - spring centered wid adjustable maximum volume stops Retero-hydraulic stroker wi adjustable maximum volume stops Retero-hydraulic stroker wid adjustable maximum volume stops High IQ with 10 gpm servovalve & volume indicator High IQ with 10 cpm servovalve & volume indicator High IQ with 4DCOI valve & 4A (rotary servo) control Hydraulic stroker widjustable maximum volume stops Hydraulic stroker widjustable maximum volume stops Retero-hydraulic stroker widjustable maximum volume stops Retero hydraulic stroker widjustable maximum volume stops Retero-hydraulic stroker widjustable maximum	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4 6	omit -A				
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle "lourocarbon (Viton) Pesign letter (assigned by manufacturer) Primary controls Sorew adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Rotary servo - spring centered // adjustable maximum volume stops Eletro-hydraulic stroker // adjustable maximum volume stops Eletro-hydraulic stroker // adjustable maximum volume stops Eletro-hydraulic stroker // adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & volume indicator High IQ with 4DCO1 valve & valjustable maximum volume stops Hydraulic stroker // adjustable maximum volume stops Eletro-hydraulic stroker // adjustable maximum volume stops Secondary controls None (for fixed displacement units only) Volume indicator Cam position feedback RVDT (DC) Control location None (for fixed displacement units only)	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4 6					
Nitrile (Buna N) IPR (not available when using "5A" or "5C" primary controls)(pump will be unpainted unle Flourocarbon (Viton) Poisgin letter (assigned by manufacturer) Primary controls None (for fixed displacement units only) Screw adjustment (spring offset to maximum displacement) Cylinder control - 3 position (spring centered with zero adjustment) Cylinder control - 3 position (spring centered) electro-hydraulic Notary servo - spring centered with zero adjustment) Cylinder control - 2 position (spring centered) electro-hydraulic Notary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Rotary servo - spring centered w/ adjustable maximum volume stops Betero-hydraulic stroker w/ adjustable maximum volume stops Betero-hydraulic stroker w/ adjustable maximum volume stops Betero-hydraulic stroker w/ adjustable maximum volume stops High IQ with 10 gpm servovalve & 4A (rotary servo) control High IQ with 10 CO1 valve & volume indicator High IQ with 10 CO1 valve & 4A (rotary servo) control High IQ with 10 CO1 valve & valumation Secondary controls None (for fixed displacement units only) Volume indicator Control Iocation None (for fixed displacement units only) None (for fixed displacement units only)	offset to						*	-10 -2A -2H -2M -40 -4A -4B -4C -5A -5C -7D -7F -7J -7F -7J -7K -8A -8C -9A	2 4 6	-A				

and Cup pumps sample model number:							M	odel	num	ber s	he
xample model number:	P 11 P	-2	<b>R</b> 1	*	-40	2 -	B 00	-0	В	0	
	r II r	-2	K I	â	-40	2 -		-0	в	U	-
2001 valve, 12VDC with Hirschmann connector							01	-			
001 valve, 240VAC/50Hz with Hirschmann connector							02	-			
001 valve, 110VAC/60Hz, wiring box 001 valve, 12VDC, wiring box							03	-			
							04	-			
etop3 (D03)(NG6) interface, no directional valve							05	-			
001 valve, 24VDC with Hirschmann connector 001 valve, 110VAC/50Hz with Hirschmann connector							00	-			
** controls							07	-			
th deadband							00				
ithout deadband								-			
** controls							01	-			
							00	-			
ithout manual override shutoff							00	-			
ith manual override shutoff (required for F, G, L & K primary options) ** controls							01	-			
5 - 350 psi (5 - 24 bar)							00	-			
							00	-			
5 - 435 psi (5 - 30 bar)							01	-			
00 - 380 psi (7 - 26 bar)							02	-			
50 - 400 psi (10 - 28 bar)								-			
<u>5 - 250 psi (5 - 17 bar)</u>							04	-			
** controls VDC							00	-			
								_			
VDC							01				
ll other controls							00				
educed displacement options for P*F & P*M								_			
andard cam (19-degree)							00	_			
6 with 17-degree cam {5.3 cu.in./rev. (87 cc/rev.)}							10				
7 with 17-degree cam {6.4 cu.in./rev. (105 cc/rev.)}							10				
8 with 17-degree cam {7.1 cu.in./rev. (116 cc/rev.)}							10				
6 with 15-degree cam {4.6 cu.in./rev. (76 cc/rev.)}							20				
7 with 15-degree cam {5.6 cu.in./rev. (92 cc/rev.)}							20				
8 with 15-degree cam {6.2 cu.in./rev. (102 cc/rev.)}							20				
6 with 13-degree cam {4.0 cu.in./rev. (66 cc/rev.)}							30	_			
7 with 13-degree cam {4.8 cu.in./rev. (79 cc/rev.)}							30	_			
8 with 13-degree cam {5.3 cu.in./rev. (88 cc/rev.)}							30	_			
11 with 17-degree cam {9.7 cu.in./rev. (160 cc/rev.)}							10	_			
14 with 17-degree cam {12.5 cu.in./rev. (205 cc/rev.)}							10	_			
11 with 15-degree cam {8.5 cu.in./rev. (140 cc/rev.)}							20	_			
14 with 15-degree cam {10.9 cu.in./rev. (179 cc/rev.)}							20				
24 with 17-degree cam {22.0 cu.in./rev. (360 cc/rev.)}							10				
30 with 17-degree cam {27.2 cu.in./rev. (446 cc/rev.)}							10				
iternal pump											
07 cu.in./rev. (17.5 cc/rev.) (P6/7/8P/S/X/V/D & P11/14V only)							drive is re				
14 cu.in./rev. (35 cc/rev.) (P11/14P/S/X only)							drive is re				
81 cu.in./rev. (46 cc/rev.) (P24/30P/S/X only) (standard)				-0 (omit	t if no	external o	drive is re				
61 cu.in./rev. (26.4 cc/rev.) (P24/30P/S/X only) (auxiliary external replenishing flow requi								-1			
05 cu.in./rev. (17.2 cc/rev.) (P24/30P/S/X only) (auxiliary external replenishing flow requi	ired)							-2			
56 cu.in./rev. (58.3 cc/rev.) (P24/30P/S/X only)								-3			
84 cu.in./rev. (79.3 cc/rev.) (P24/30P/S/X only)								-4			
42 cu.in./rev. (88.8 cc/rev.) (P24/30P/S/X only)								-5			
10 cu.in./rev. (100.0 cc/rev.) (P24/30P/S/X only)								-6			
o internal pump (standard on P*R/L/F/M)								-X			
xternal drive											
one									omit		
anking plate (for P6/7/8/11/14S/X only)									М		1
AE-A (SAE 82-2)(P6/7/8/11/14S/X/R/L/M only)									Α		1
AE-B (SAE 101-2 for P6/7/8S/X/R/L/M & P11/14/24/30S/X)(SAE 101-2 & SAE 101-4 fo		f)							В		
AE-C (SAE 127-2 for P6/7/8R/L/M & P24/30S/X)(SAE 127-2 & SAE 127-4 for P11/14/24	4/30R/L/M)								С		
AE-D (SAE 152-4)(P11/14/24/30R/L/M only)									D		
AE-E (SAE 165-4)(P11/14/24/30R/L/M only)									E		
AE-F (SAE 177-4)(P24/30R/L/M only)									F		
xternal mounting											
o external pump mounted						0 (omit i	f no exter	nal driv	e is rec	uired)	J
sternal pump mounted (requires special modification "-M2")(must be separately specified	d)									1	
pecial modification											
one											С
											-
o paint											