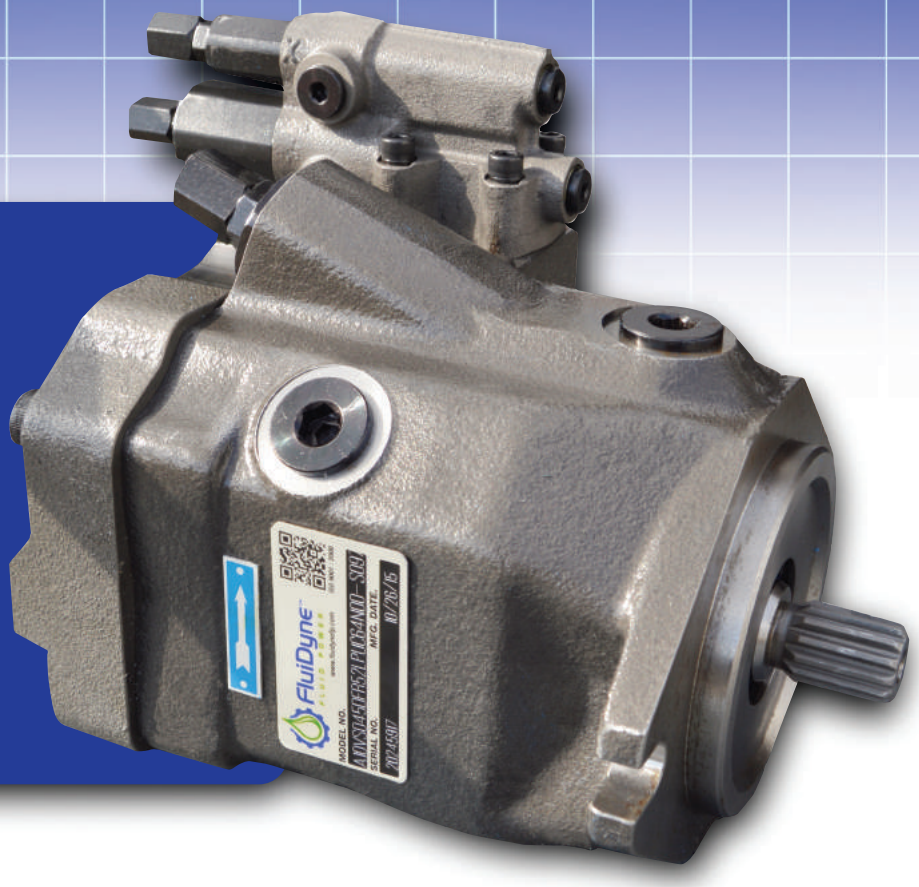
FluiDyne™
FLUID POWER

Replacement Pumps & Parts
A10V-31 / A10V-52/53

- 10, 18, 28, 45, 60, 63, 71, 74, 100 & 140 frame sizes available
- Industrial & mobile, single & thru shaft models, 31, 52 and 53 Design
- DR, DFR, DRG, DFLR, DFR1, LA*D controls
- Same Day shipment of units or parts orders
- SAE & Metric Units



www.FluiDyneFP.com
Email:Sales@FluiDyneFP.com

Model Code Breakdown

CAD Drawings Available
www.FluiDyneFP.com

Sample Code:

A10V(S)O	71	DR	/	31	R	P	S	C	62	N00	–	S097

Size & Mounting

Displacement V gmax (in³/rev) cm³/rev

10 (0.61)	18 (1.10)	28 (1.71)	45 (2.75)	cm³/rev (in³/rev)

60 (3.66)	63 (3.84)	71 (4.33)	74 (4.51)	100 (6.10)	140 (8.54)

Control Devices

Pressure control	DR
Pressure remote control	DRG
Pressure and flow control	DFR
Pressure and flow (X-T port blocked)	DFR1
Pressure, Flow & HP	DFLR
Pressure, Flow & HP (53 SERIES)	LA*D

*Minimum Start of control
- LA5D-10 TO 35 BAR (145 - 507 PSI)
- LA6D-36 TO 70 BAR (522 - 1015 PSI)
- LA7D-71 TO 105 BAR (1030 - 1523 PSI)
- LA8D-106 TO 140 BAR (1537 - 2031 PSI)
- LA9D-141 TO 230 BAR (2045 - 3336 PSI)

Series

Series	31	18, 28, 45, 71, 74, 100, 140
	52/53	10, 45, 60/63 displacements available

Direction of Rotation

Viewed from shaft end	clockwise	R
	counter-clockwise	L

Seals

Buna-N (NBR per DIN ISO 1629)	P
FPM (Flurocarbon/Viton)	V
EPR	E

Shafts

Type	10	18	28	45	60/63	71/74	100	140	
Keyed	3/4"	3/4"	7/8"	1"	1 1/4"	1 1/4"	1 1/2"	1 3/4"	K
Splined	3/4-11T	3/4-11T	7/8-13T	1-15T	1 1/4-14T	1 1/4-14T	1 1/2-17T	1 3/4-13T	S
Splined "S"-Reinforced	-	3/4-11T	7/8-13T	1-15T	1 1/4-14T	1 1/4-14T	1 1/2-17T	-	R
Splined Non-Thru Drive	5/8-9T	5/8-9T	3/4-11T	7/8-13T	1-15T	1-15T	1 1/4-14T	-	U
Splined "U"-Reinforced	-	-	-	7/8-13T	1-15T	-	1 1/4-14T	-	W
Splined "Full Spline"	-	-	-	-	7/8-13T	-	-	-	Q
Keyed Metric	18mm	18mm	22mm	25mm	32mm	32mm	40mm	45mm	P

Special Suffix

Max volume stop adjust (std)	S097 [5]
Omit if none required	—

[5] Available on all 52/53 design, and 31 design side port

Thru Drives

Without thru drive (Non-Thru Drive)				N00
With thru drive to accept a secondary pump				K**
Mtg Flg	**Hub**	**Sealing**	**To Mount**	
82-2 (A)	3/4" keyed (A-B)	axial	A10V18 (K)	K40
101-2 (B)	7/8" keyed (B)	axial	A10V28 (K)	K03
101-2 (B-B)	1" keyed (B-B)	axial	A10V45 (K)	K05
127-2 (C)	1-1/4" keyed (C)	axial	A10V71 (K),	K08
127-2 (C)	1-1/2" keyed (C)	radial	A10V100 (K)	K38
152-4 (D)	1-3/4" keyed (D)	axial	A10V140 (K)	K21
82-2 (A)	5/8" 9T (A)	axial	A10V18(U,W), 10(U)	K01
82-2 (A)	3/4" 11T (A-B)	axial	A10V18(S,R), 10(S)	K52
101-2 (B)	7/8" 13T (B)	axial	A10V28(S,R), 45(U,W)	K68/K02
101-2 (B)	1" 15T (B - B)	axial	A10V45(S,R), 60(U,W)	K04
127-2 (C)	1-1/4" 14T (C)	axial	A10V71(S,R), 100 (U,W)	K07/K15
127-2 (C)	1-1/2" 17T (C-C)	axial	A10V100(S,R), 85(S)	K24
152-4 (D)	1-3/4" 13T (D)	axial	A10V140(S,R)	K17

Couplings sold separately for our thru drive units.

Service Ports

Rear ports, Metric Thread	11 [1) 2)]	4-Bolt Flange ports (except where noted)
Rear ports, Metric Thread	41 [1) 2) 4)]	
Rear ports, UNC Thread	61 [1) 2) 3)]	
Rear ports, UNC Thread	91 [1) 2)]	
Side ports, Metric Thread	12	
Side ports, Metric Thread	42 [4)]	
Side ports, UNC Thread	62 [3)]	
Side ports, UNC Thread	92	
Rear ports, Metric Threaded	14	Str. Thread O-ring ports (52/53 Series)
Rear ports, UNC Threaded	64	

[1] A10V28-140 only
[2] All REAR porting, Non-thru drive only
[3] A10V71; 8-Threaded holes on Pressure port code 61/91 & 62/92
[4] A10V71 & 74 only

Mounting Flange

pilot diameter (in/mm)

	10	18	28	45	60/63	71/74	100	140	CODE
SAE 2 Bolt	SAE "A" 3.25"	SAE "A" 3.25"	SAE "B" 4.0"	SAE "B" 4.0"	SAE "B" 4.0"	SAE "C" 5.0"	SAE "C" 5.0"	-	C
ISO 2 Bolt Metric	80 mm	80 mm	100 mm	100 mm	-	125 mm	125 mm	-	A
SAE 4 Bolt	-	-	-	-	SAE "C" 5.0"	-	-	SAE "D" 6.0"	D
ISO 4 Bolt Metric	-	-	-	-	-	-	-	180 mm	B

Performance Data

(A) A10V / VSO 18, 28, 45, 71, 74, 100, 140, Series 31

Frame Size	18	28	45	71	100	140
Size cm^3/rev	18	28	45	71	100	140
Flow @ 1800 rpm	8.6 gpm 32.4 lpm	13.2 gpm 50.4 lpm	21.5 gpm 81.6 lpm	33.7 gpm 128 lpm	47.5 gpm 180 lpm	66.5 gpm 252 lpm
Pressure	4000 PSI 280 BAR	4000 PSI 280 BAR	4000 PSI 280 BAR	4000 PSI 280 BAR	4000 PSI 280 BAR	4000 PSI 280 BAR
Peak Pressure	5100 PSI 350 BAR	5100 PSI 350 BAR	5100 PSI 350 BAR	5100 PSI 350 BAR	5100 PSI 350 BAR	5100 PSI 350 BAR
Maximum Flow	15.7 gpm 59.4 lpm	22 gpm 84 lpm	31 gpm 117 lpm	41 gpm 156 lpm	53 gpm 200 lpm	67 gpm 252 lpm
Maximum Speed	3300 RPM	3000 RPM	2600 RPM	2200 RPM	2000 RPM	1800 RPM

Performance Data

(A) A10V / V(S)O 10, 45, 60, 63 Series 52/53

Frame Size	10	45	60	63
Size cm^3/rev	10.5	45	60	63
Flow @ 1800 rpm	4.99 gpm 18.5 lpm	21.5 gpm 81 lpm	28.4 gpm 107 lpm	29.8 gpm 112.8 lpm
Pressure	3600 PSI 250 BAR	3600 PSI 250 BAR	3600 PSI 250 BAR	3600 PSI 250 BAR
Peak Pressure	4000 PSI 315 BAR	4000 PSI 315 BAR	4000 PSI 315 BAR	4000 PSI 315 BAR
Maximum Flow	9.7 gpm 37 lpm	31 gpm 117 lpm	41 gpm 155 lpm	43 gpm 163 lpm
Maximum Speed	3600 RPM	2600 RPM	2600 RPM	2600 RPM

Replacement Parts & Features

Features Include:

- Maximum Stop Adjustment
- Long Service Life
- Low Noise Level
- Wide Range of Controls
- SAE Metric Mounting Flanges and Shafts
- Two Case Drain Connections
- Continuous Operating Pressure 4000 PSI (280 Bar)

Parts List:

- Rotating Groups
- Shafts
- Seal Kits
- Lens Plates
- Bearing Kits
- Cradles

We carry a complete line of new FluiDyne as well as Rexroth Remanufactured A10V Pumps. These units provide an alternative to expensive redesign projects, they are tested to meet OEM specifications (providing a long service life) and are ready for immediate shipment.

ISO 9001:2008
REGISTERED FIRM

A10VSO**/31 REPLACEMENT PARTS

A10VS018/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85266
CRADLE (YOKE) LH	WF85263
CRADLE (YOKE) RH	WF85261
FRONT BEARING SUB ASSY	WF85371
LENS PLATE LH	WF85259
LENS PLATE RH	WF85258
REAR BEARING SUB ASSY	WF85372
ROTATING GROUP (NO LENS PLATE)	WF85257
SEAL KIT BUNA	WF85434
SEAL KIT EPR	WF85600
SEAL KIT VITON	WF85361
SHAFT "K" NON THRU	WF85262
SHAFT "P" NON THRU	WF85388
SHAFT "R" NON THRU	WF85253
SHAFT "S" NON THRU	WF85234
SHAFT "U" NON THRU	WF85379
SHAFT "K" THRU	WF85462
SHAFT "S" THRU	WF85451

A10VS045/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85134
CRADLE (YOKE) LH	WF85121
CRADLE (YOKE) RH	WF85120
FRONT BEARING SUB ASSY	WF85230
LENS PLATE LH	WF85109
LENS PLATE RH	WF85108
REAR BEARING SUB ASSY	WF85231
ROTATING GROUP (NO LENS PLATE)	WF85141
SEAL KIT BUNA	WF85272
SEAL KIT EPR	WF85684
SEAL KIT VITON	WF85245
SHAFT "K" NON THRU	WF85114
SHAFT "R" NON THRU	WF85365
SHAFT "S" NON THRU	WF85115
SHAFT "U" NON THRU	WF85229
SHAFT "P" NON THRU KEYED	WF85291
SHAFT "K" THRU	WF85211
SHAFT "P" THRU	WF85697
SHAFT "S" THRU	WF85216
SHAFT "T" THRU	WF85535
SHAFT "U" THRU	WF85149

A10VS0100/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85264
CRADLE (YOKE) LH	WF85329
CRADLE (YOKE) RH	WF85328
FRONT BEARING SUB ASSY	WF85241
LENS PLATE LH	WF85326
LENS PLATE RH	WF85327
REAR BEARING SUB ASSY	WF85542
ROTATING GROUP (NO LENS PLATE)	WF85204
SEAL KIT BUNA	WF85331
SEAL KIT EPR	WF85665
SEAL KIT VITON	WF85243
SHAFT "K" NON THRU	WF85330
SHAFT "P" NON THRU	WF85443
SHAFT "S" NON THRU	WF85333
SHAFT "U" NON THRU	WF85332
SHAFT "K" THRU	WF85442
SHAFT "P" THRU	WF85622
SHAFT "S" THRU	WF85386
SHAFT "U" THRU	WF85387
SHAFT "W" THRU	WF85529

A10VS028/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85133
CRADLE (YOKE) LH	WF85119
CRADLE (YOKE) RH	WF85118
FRONT BEARING SUB ASSY	WF85366
LENS PLATE LH	WF85107
LENS PLATE RH	WF85106
REAR BEARING SUB ASSY	WF85367
ROTATING GROUP (NO LENS PLATE)	WF85140
SEAL KIT BUNA	WF85130
SEAL KIT VITON	WF85136
SEAL KIT EPR	WF85667
SHAFT "P" KEYED	WF85429
SHAFT "K" NON THRU	WF85112
SHAFT "R" NON THRU	WF85448
SHAFT "S" NON THRU	WF85113
SHAFT "K" THRU	WF85181
SHAFT "R" THRU	WF85254
SHAFT "S" THRU	WF85220

A10VS071/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85135
CRADLE (YOKE) LH	WF85123
CRADLE (YOKE) RH	WF85122
FRONT BEARING SUB ASSY	WF85201
LENS PLATE LH	WF85111
LENS PLATE RH	WF85110
REAR BEARING SUB ASSY	WF85228
ROTATING GROUP (NO LENS PLATE)	WF85142
SEAL KIT BUNA	WF85132
SEAL KIT EPR	WF85687
SEAL KIT VITON	WF85138
SHAFT "K" NON THRU	WF85116
SHAFT "P" NON THRU	WF85431
SHAFT "S" NON THRU	WF85117
SHAFT "K" THRU	WF85209
SHAFT "R" THRU	WF85255
SHAFT "S" THRU	WF85151

A10VS0140/31

DESCRIPTION	FLUIDYNE PART #
CRADLE BEARING KIT	WF85265
CRADLE (YOKE) LH	WF85340
CRADLE (YOKE) RH	WF85339
FRONT BEARING SUB ASSY	WF85363
LENS PLATE LH	WF85337
LENS PLATE RH	WF85232
REAR BEARING SUB ASSY	WF85362
ROTATING GROUP (NO LENS PLATE)	WF85200
SEAL KIT BUNA	WF85439
SEAL KIT EPR	WF85686
SEAL KIT VITON	WF85244
SHAFT "K" NON THRU	WF85440
SHAFT "S" NON THRU	WF85344
SHAFT "K" THRU	WF85341
SHAFT "S" THRU	WF85470

Other pump components we supply are:

- Couplings for thru shafts, seals
- Piston kits, springs, bolts and washers
- Multiple pressure controls options
- Various valve blocks (porting) for LH & RH

A10VSO**/52/53 REPLACEMENT PARTS

A10VS010 52/53

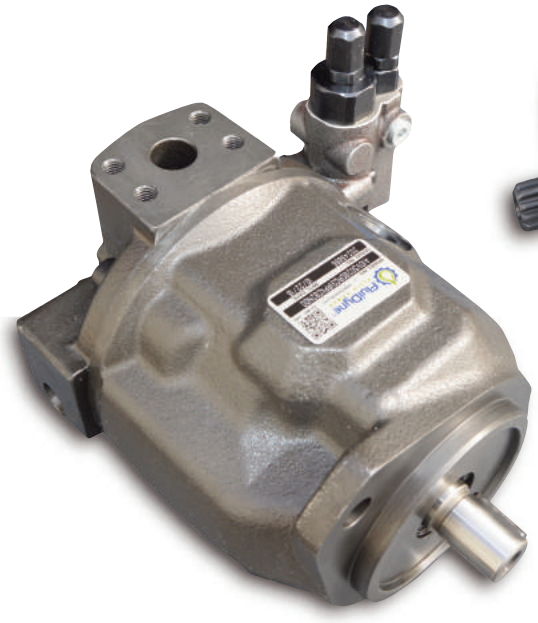
DESCRIPTION	FLUIDYNE PART #
52/53	A10VS010
BEARING REAR S/A	WF85745
BEARING FRONT S/A	WF85746
CRADLE RH	WF85577
CRADLE LH	WF85576
LENS PLATE RH	WF85573
LENS PLATE LH	WF85574
ROT GROUP (NO LENS PLATE)	WF85572
SADDLE BEARING KIT	WF85578
SEAL KIT BUNA 52	WF85579
SEAL KIT EPR 52	WF85690
SEAL KIT VITON 52	WF85656
SHAFT "K" KEYED SAE	WF85692
SHAFT "P" KEYED METRIC	WF85580
SHAFT "U" SPLINED SAE	WF85660
SHAFT "S" SPLINED SAE	WF85636

A10VS045 52/53

DESCRIPTION	FLUIDYNE PART #
BEARING KIT SADDLE 52/53	WF85146
CRADLE LH	WF85351
CRADLE RH	WF85352
LENS PLATE RH	WF85108
LENS PLATE LH	WF85109
ROTATING GROUP (NO LENS PLATE)	WF85141
SEAL KIT BUNA 52	WF85131
SEAL KIT EPR 52	WF85689
SEAL KIT VITON 52	WF85137
SHAFT "P" KEYED METRIC	WF85291
SHAFT "P" KEYED METRIC THRU	WF85697
SHAFT "K" KEYED THRU	WF85211
SHAFT "K" N-THRU	WF85114
SHAFT "S" SPLINED THRU	WF85216
SHAFT "U" SPLINED THRU	WF85149
SHAFT "W" SPLINED THRU	WF85608
SHAFT "S" SPLINED NON THRU	WF85115
SHAFT "U" SPLINED NON THRU	WF85229
SHAFT "W" SPLINED NON THRU	WF85668
SHAFT "R" THRU	WF85170
SHAFT "T" THRU 7/8" OD	WF85535
SHAFT "R" "1" 15T NON THRU	WF85365

A10VS060/63 52/53

DESCRIPTION	FLUIDYNE PART #
BEARING KIT SADDLE 52/53	WF85491
BEARING REAR S/A	WF85490
BEARING FRONT S/A	WF85489
CRADLE LH	WF85485
CRADLE RH	WF85484
LENS PLATE LH	WF85483
LENS PLATE RH	WF85482
ROTATING GROUP (NO LENS PLATE)	WF85566
SEAL KIT BUNA 52	WF85210
SEAL KIT EPR 52	WF85688
SEAL KIT VITON 52	WF85492
SHAFT "K" KEYED NON THRU	WF85478
SHAFT "R" SPLINE NON THRU	WF85486
SHAFT "S" SPLINE NON THRU	WF85487
SHAFT "U" SPLINE NON THRU	WF85488



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FLUID POWER

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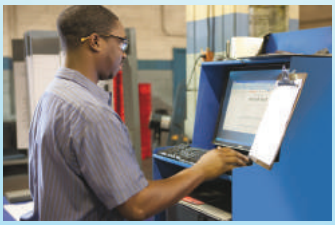
FluiDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering expertise
- Decoding special part number
- Identification of parts within units
- Advice on component repair and assembly
- Component failure analysis
- Massive local stock
- New application component selection
- Same day shipments
- 18 month warranty



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FLUIDYNE FLUID POWER OVER 35 YEARS OF QUALITY 1976-2018

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7/2018