Vickers®

Service Data

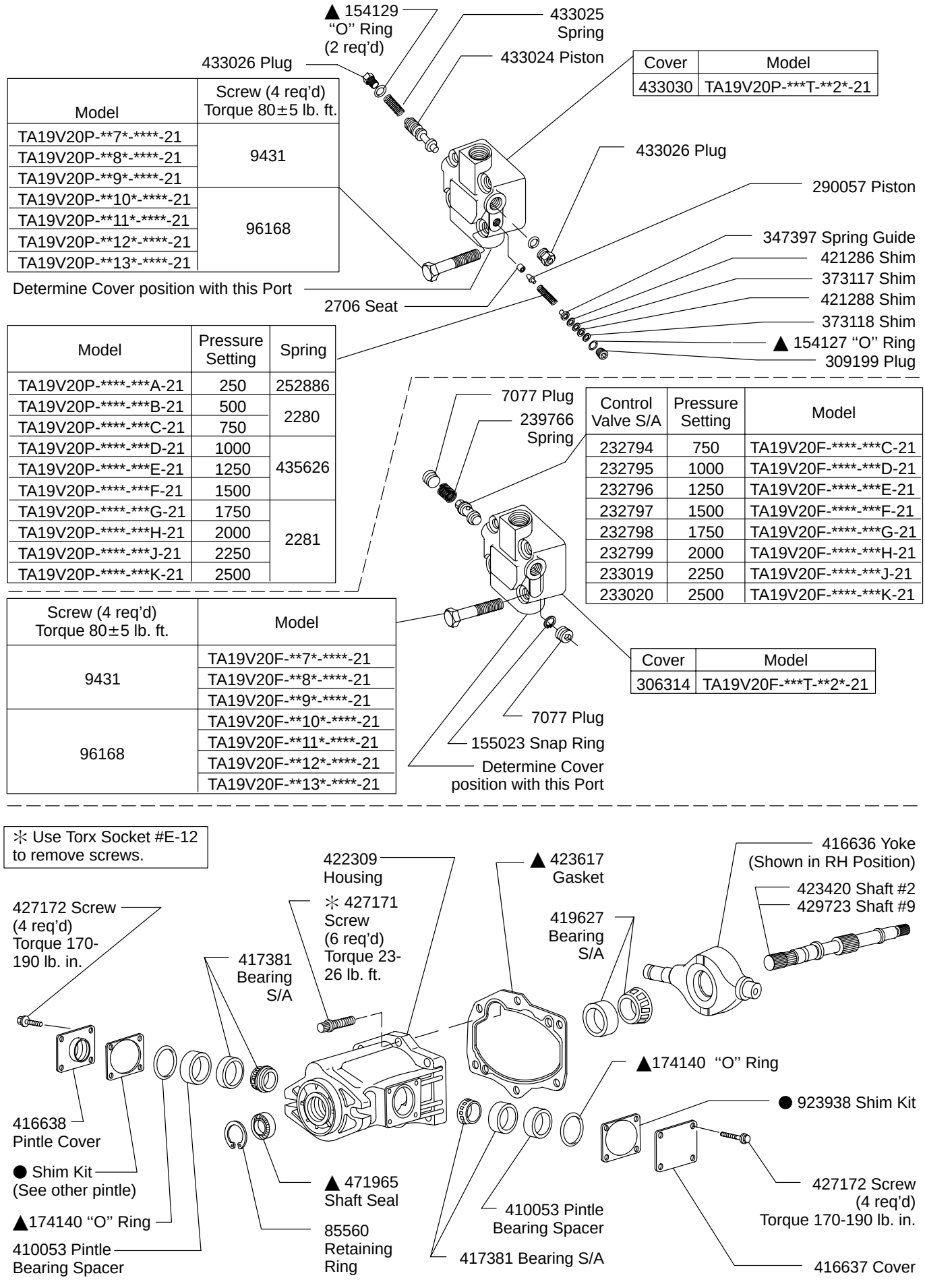
Transmissions

Single Transmission Pump with Single Vane Pump

TA19V20*-21

Revised 11/01/89

M-2846-S



Model	Screw (4 req'd) Torque 80±5 lb. ft.
TA19V20P-**7*-****-21	9431
TA19V20P-**8*-****-21	
TA19V20P-**9*-****-21	
TA19V20P-**10*-****-21	96168
TA19V20P-**11*-****-21	
TA19V20P-**12*-****-21	
TA19V20P-**13*-****-21	

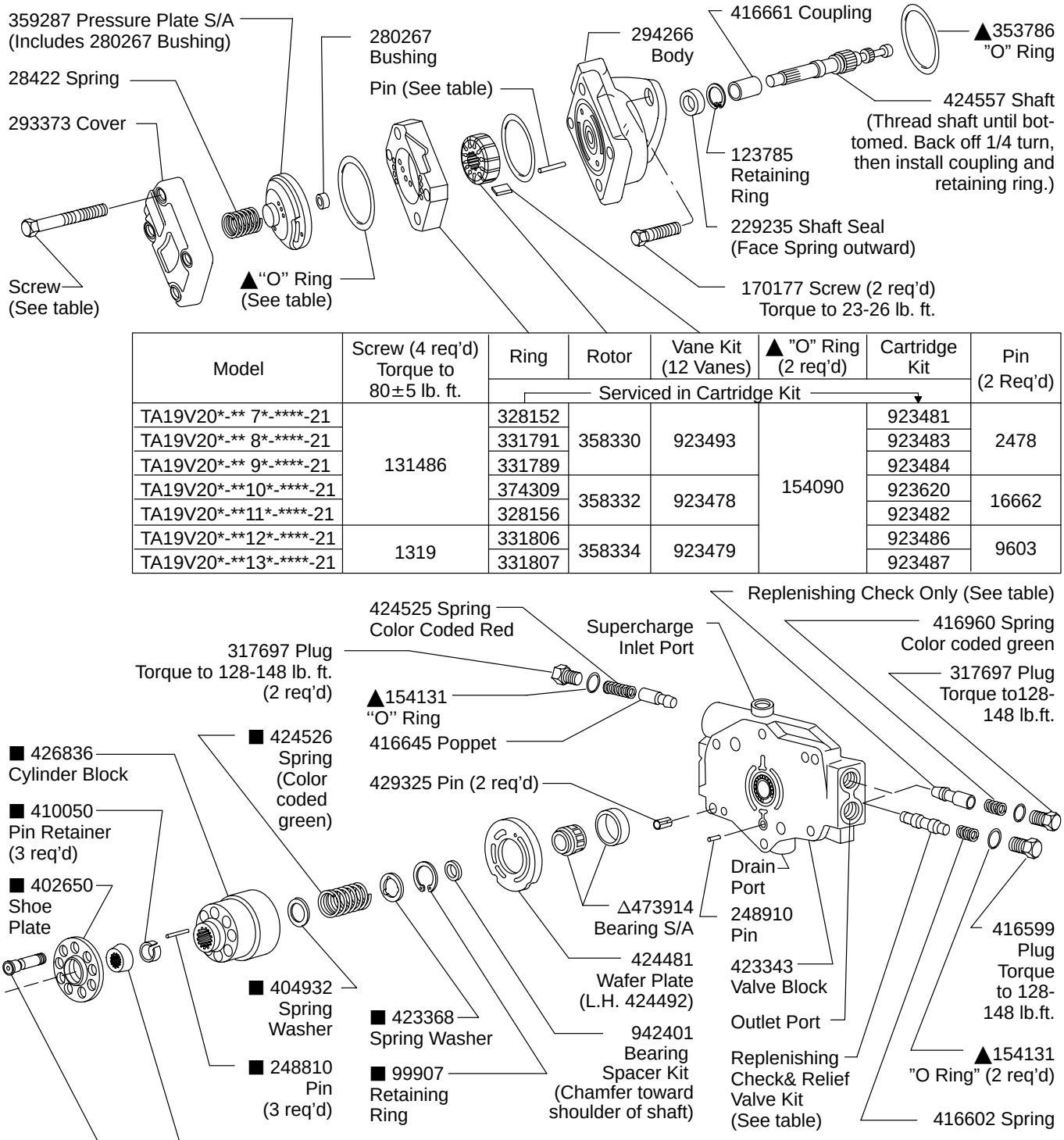
Cover	Model
433030	TA19V20P-***T-**2*-21

Model	Pressure Setting	Spring
TA19V20P-****-***A-21	250	252886
TA19V20P-****-***B-21	500	2280
TA19V20P-****-***C-21	750	
TA19V20P-****-***D-21	1000	435626
TA19V20P-****-***E-21	1250	
TA19V20P-****-***F-21	1500	
TA19V20P-****-***G-21	1750	2281
TA19V20P-****-***H-21	2000	
TA19V20P-****-***J-21	2250	
TA19V20P-****-***K-21	2500	

Control Valve S/A	Pressure Setting	Model
232794	750	TA19V20F-****-***C-21
232795	1000	TA19V20F-****-***D-21
232796	1250	TA19V20F-****-***E-21
232797	1500	TA19V20F-****-***F-21
232798	1750	TA19V20F-****-***G-21
232799	2000	TA19V20F-****-***H-21
233019	2250	TA19V20F-****-***J-21
233020	2500	TA19V20F-****-***K-21

Screw (4 req'd) Torque 80±5 lb. ft.	Model
9431	TA19V20F-**7*-****-21
	TA19V20F-**8*-****-21
	TA19V20F-**9*-****-21
96168	TA19V20F-**10*-****-21
	TA19V20F-**11*-****-21
	TA19V20F-**12*-****-21
	TA19V20F-**13*-****-21

Cover	Model
306314	TA19V20F-***T-**2*-21



Model	Screw (4 req'd) Torque to 80±5 lb. ft.	Ring	Rotor	Vane Kit (12 Vanes)	▲ "O" Ring (2 req'd)	Cartridge Kit	Pin (2 Req'd)
		Serviced in Cartridge Kit					
TA19V20*-** 7*-****-21	131486	328152	358330	923493	154090	923481	2478
TA19V20*-** 8*-****-21		331791				923483	
TA19V20*-** 9*-****-21		331789				923484	
TA19V20*-**10*-****-21		374309	358332	923478		923620	16662
TA19V20*-**11*-****-21		328156				923482	
TA19V20*-**12*-****-21	1319	331806	358334	923479		923486	9603
TA19V20*-**13*-****-21		331807				923487	

Model	Replenishing Check & Relief Valve Kit (2 req'd)	Replenishing Check (2 req'd)
TA19V20**-**R	942429 - 5000 psi	———
TA19V20**-001	942430 - 3500 psi	
TA19V20**-**0	NONE	416645
TA19V20**-014	942428 - 3000 psi	———
TA19V20**-016	942427 - 4000 psi	
TA19V20**-53	941189 - 4500 psi	

▲ Included in 920155 Seal Kit

■ Included in 923936 Rotating Group

CAUTION

Replenishing check/reliefs and replenishing check valves are used in any combination in this equipment. The combinations are determined by the application. DO NOT interchange valve positions or a major malfunction of the equipment may result.

Model Code

TA 19 V20 * * -2 * * - * * * * * * 21

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 Transmission Pump

2 Flow Rating
@ 1800 rpm

19 – 19 USgpm

3 Auxiliary Vane Pump

4 Vane Pump Cover

F - Flow control
P - Priority flow
Omit - Standard cover

5 Rotation
(Viewed from shaft end)

R - Right Hand (CW)
L - Left Hand (CCW)

6 Input Shaft

2 - SAE B-B splined

7 Control Pintle
(Location viewed from shaft end w/drain port up)

A - Right hand
B - Left hand

8 Main Relief Valve

R - Relief valve
O - No relief valve

9 Ring Capacity
@ 1200 rpm

07 - 7 USgpm
08 - 8 USgpm
09 - 9 USgpm
10 - 10 USgpm
11 - 11 USgpm
12 - 12 USgpm
13 - 13 USgpm

10 Vane Pump Inlet Position
(Viewed from cover end)

A - 45° CCW from case drain
C - 135° CW from case drain

11 Outlet Port Positions
(Viewed from cover end)

A - Opposite inlet
B - 90° CCW from inlet
C - Inline with inlet
D - 90° CW from inlet

12 Flow Rate

Orifice in "F" cover:
2, 4, 6, 8, 10 USgpm
Orifice in "P" cover:
1, 2, 2.5, 3, 4, 5, 6, 7, 8 USgpm

13 Vane Pump Relief Valve Setting
("F" & "P" cover)

*** A** - 250 psi
*** B** - 500 psi
C - 750 psi
D - 1000 psi
E - 1250 psi
F - 1500 psi
G - 1750 psi
H - 2000 psi
J - 2250 psi
K - 2250 psi

* "P" Cover only

14 Design

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 18/16/13 or cleaner. Selections from Eaton OFP, OFR, and OFRS series are recommended.

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