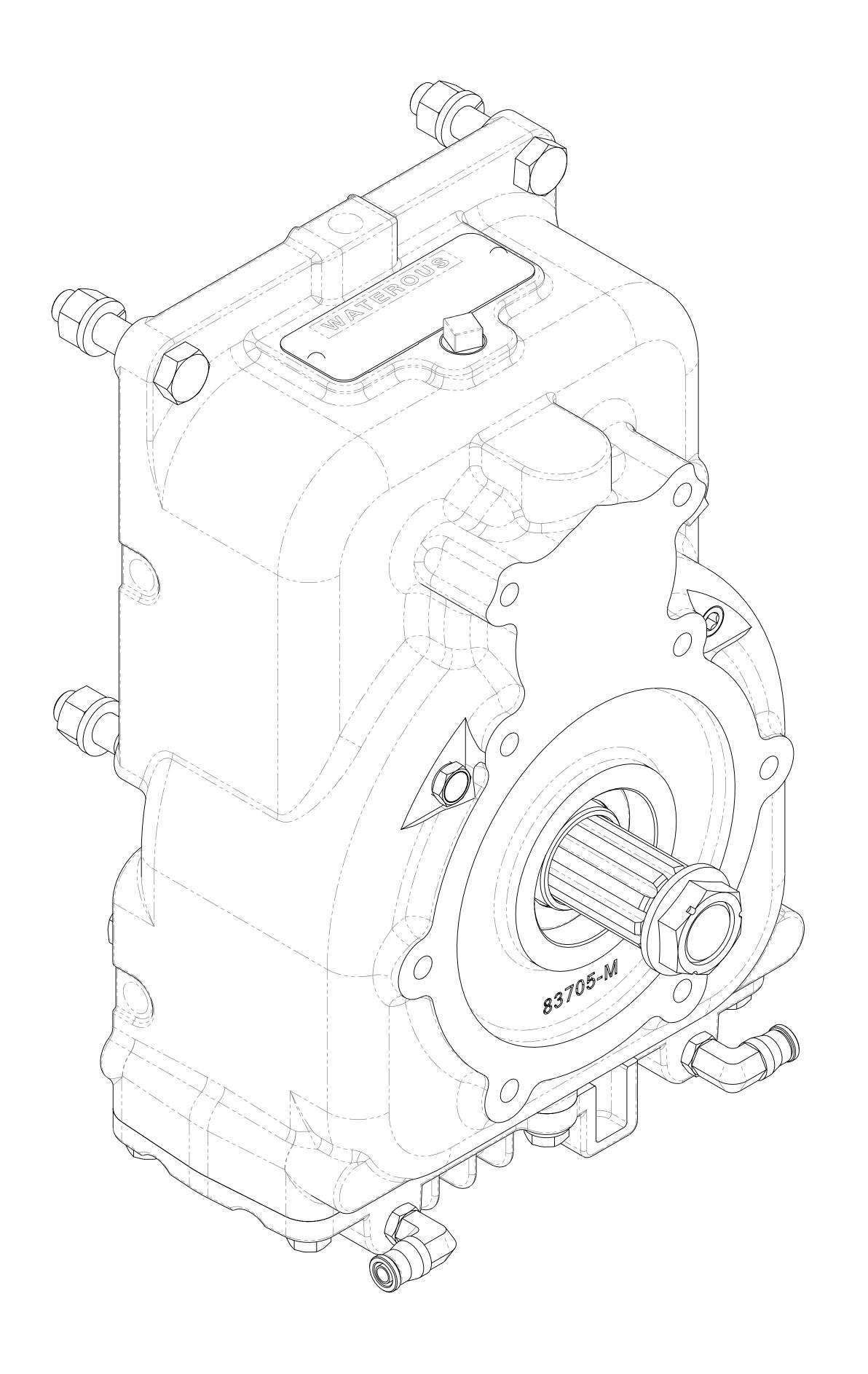
Document Number
 Issue Date
 Rev. Date

 SPL83741
 1/31/2020
 09/11/20

Heavy Duty K Transmission Assy 83741

Pump Model	Impeller Shaft type	Extended Shaft for CAFS Drive	Input Type	See Sheet
		NIa	Standard 1-3/8in. SAE Spline	2
CXN, CXS, CXV	One-Piece	No	Hydraulic Flange Adapter	3
		Yes	Standard 1-3/8in. SAE Spline	4
CGV, CGVR,	One Diese	NI/A	Standard 1-3/8in. SAE Spline	5
CGVG	One-Piece	N/A	Hydraulic Flange Adapter	6
CM, CS	Separable	N/A	Standard 1-3/8in. SAE Spline	7
HL200, HL300,	Canarabla	No	Standard 1-3/8in. SAE Spline	8
HL400	Separable	Yes	Standard 1-3/8in. SAE Spline	9
	Oil Coo	ler Fittings CX, CG		10
	Oil Cooler Fittings	s HL200, HL300, HL4	400, HLU	11
	Oil Cooler Fittings -	HL400 with Short Int	ake Fitting	12
	Oil Coo	ler Fittings CM, CS		13
Pump N	Mounting Positions - C	il Level, Breather, Dra	in, and Vent locations	14-15



11	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
Т6	Cover-Bearing	
T7	Gasket-Molded	
Т8	Shaft-Drive	
Т9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	
T10	Spacer-Shaft, Impeller	
T11	O-Ring, 4-3/8 x 4-5/8 in	
T12	O-Ring, 3-1/4 x 3-1/2 in	T24
T13	Seal-Oil, 1-5/8 x 2-7/16 in	
T14	Seal-Oil, 1-5/8 x 2-1/2 in	
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	
T24	Screw-Drive, #6 x 1/4 in	T41
T25	Screw-Hex Hd, 3/8-16 x 1 in	
T26	Washer-Lock, 3/8 in	T27
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	T29—
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	T30
T29	Washer-Lock, 1/2 in	
T30	Nut-Hex, 1/2-13	
T36 T38	Bearing, Ball, Double Row, 35 x 72 x 27 mm	
T39	Washer-Lock, Bearing, W07 Nut-Lock, Bearing, N07	T47 Torque nut to 400-450 LB-FT.
T41	Plate-Serial	Torque nat to 400-430 EB-1 1.
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm	
T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm	T39————————————————————————————————————
T46	Sleeve-Seal, Oil	T48— T46
T47	Nut-Self Locking, 1-20 UNEF-2B	
T48	Key-Square, 3/8 x 1-3/4 in	
	T45— T11—	
Impeller shaf shown for ref See impeller service parts	ft and key ference. shaft slist.	T125 T25 T25 T25 T25 T25 T26 T27 T27 T28 T29 T29 T29 T72

Ref No.

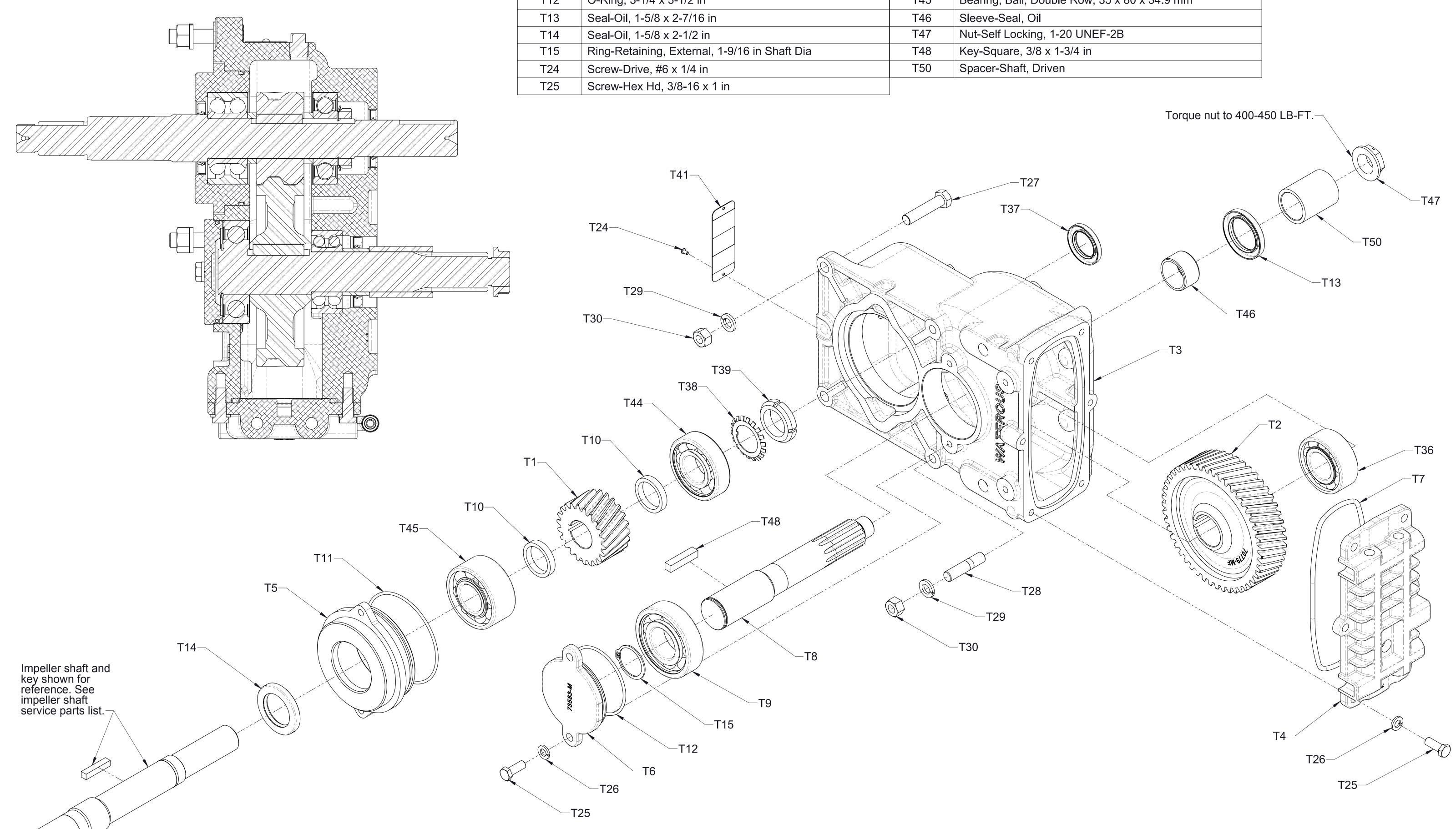
T1

Gear-Driven

IVEL INO.	Description	
T1	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	
T5	Housing-Bearing	
T6	Cover-Bearing	
T7	Gasket-Molded	
Т8	Shaft-Drive	
Т9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	T24—
T10	Spacer-Shaft, Impeller	
T11	O-Ring, 4-3/8 x 4-5/8 in	
T12	O-Ring, 3-1/4 x 3-1/2 in	
T13	Seal-Oil, 1-5/8 x 2-7/16 in	
T14	Seal-Oil, 1-5/8 x 2-1/2 in	T32—
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	T32—
T24	Screw-Drive, #6 x 1/4 in	
T25	Screw-Hex Hd, 3/8-16 x 1 in	
T26	Washer-Lock, 3/8 in	
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	T48—
T29	Washer-Lock, 1/2 in	T29—
T30	Nut-Hex, 1/2-13	
T31	Bushing-Adapter	
T32	Adapter-Case Gear, Class C, Hyd Motor	
T33	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in	
T36	Bearing, Ball, Double Row, 40 x 80 x 30.2 mm	
T38	Washer-Lock, Bearing, W07	T39— T13
T39	Nut-Lock, Bearing, N07	T38—
T41	Plate-Serial	T8
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm	T44—
T45	Bearing, Ball, Olligle Row, 35 x 80 x 34.9 mm	
T48	Key-Square, 3/8 x 1-3/4 in	T3
140	Trey-oquare, 5/6 x 1-5/4 III	
	T45—	
	T11—	
	T5—	
	T14—	
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Impeller shaft	and key	
Impeller shaft shown for refe See impeller s service parts li	erence.	
service parts li	ist.	
		The stands of th
		T25 T28
		T29
		T30 T26
		T25

Ref No.

Ref No.	Description	Ref No.	Description
T1	Gear-Driven	T26	Washer-Lock, 3/8 in
T2	Gear-Drive	T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in
Т3	Case-Transmission	T28	Stud-Coarse, 1/2-13 x 2-1/4 in
T4	Pan-Oil, Cooler	T29	Washer-Lock, 1/2 in
T5	Housing-Bearing	T30	Nut-Hex, 1/2-13
T6	Cover-Bearing	T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm
T7	Gasket-Molded	T37	Seal-Oil, 1-1/4 x 2 in
T8	Shaft-Drive, Extended	T38	Washer-Lock, Bearing, W07
Т9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	T39	Nut-Lock, Bearing, N07
T10	Spacer-Shaft, Impeller	T41	Plate-Serial
T11	O-Ring, 4-3/8 x 4-5/8 in	T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm
T12	O-Ring, 3-1/4 x 3-1/2 in	T45	Bearing, Ball, Double Row, 35 x 80 x 34.9 mm
T13	Seal-Oil, 1-5/8 x 2-7/16 in	T46	Sleeve-Seal, Oil
T14	Seal-Oil, 1-5/8 x 2-1/2 in	T47	Nut-Self Locking, 1-20 UNEF-2B
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	T48	Key-Square, 3/8 x 1-3/4 in
T24	Screw-Drive, #6 x 1/4 in	T50	Spacer-Shaft, Driven
T25	Screw-Hex Hd, 3/8-16 x 1 in		



Transmission Assembly
One Piece Impeller Shaft, 1-3/8in. SAE Splined Input
With Extended Shaft for CAFS Drive
CXN, CXS, CXV

SPL83741 Page 4 of 15

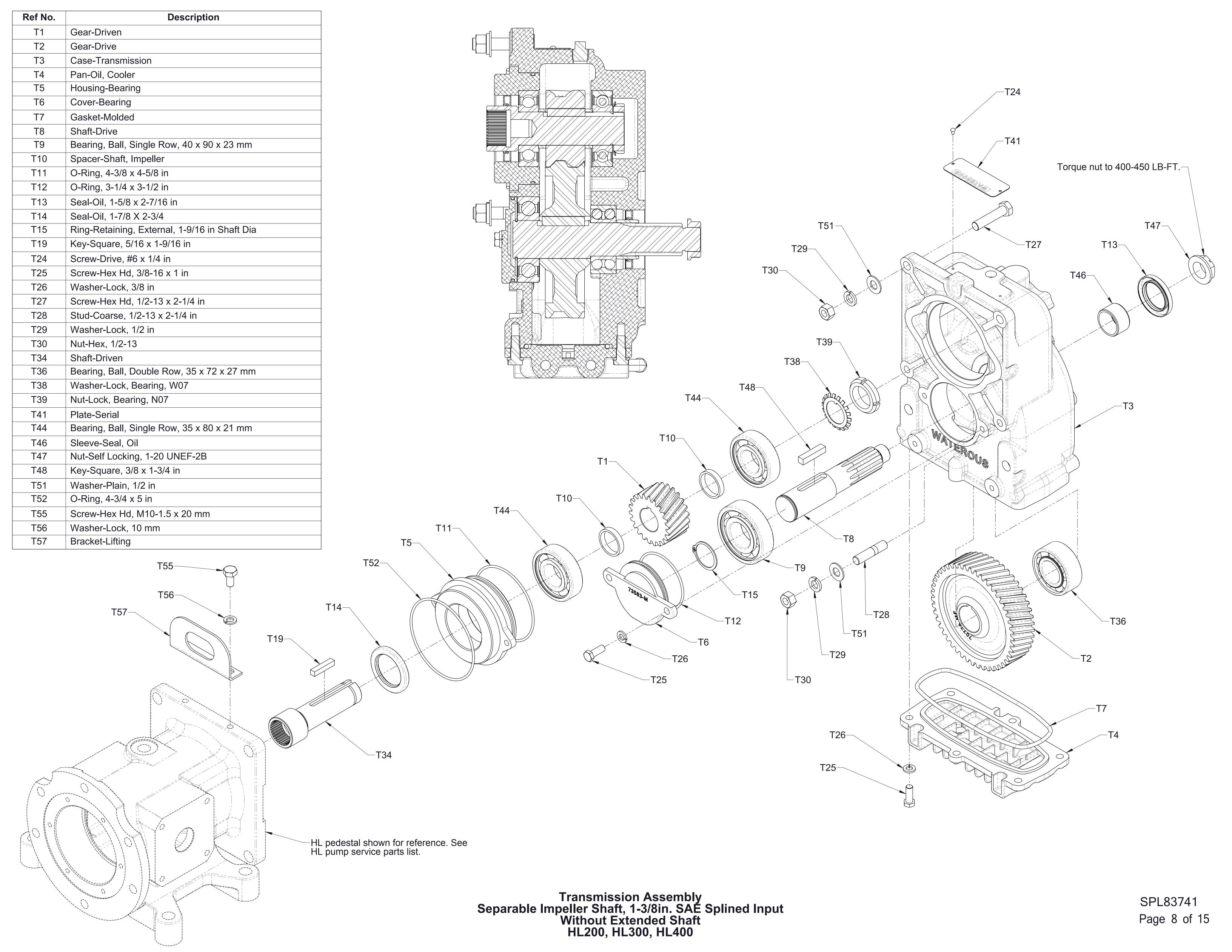
Ref No.	Description	
T1	Gear-Driven	
T2	Gear-Drive	
Т3	Case-Transmission	
T4	Pan-Oil, Cooler	T24—
T5	Housing-Bearing	124
T6	Cover-Bearing	
T6	Disk-Cover	T41—
T7	Gasket-Molded	
T8	Shaft-Drive	
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	
T10	Spacer-Shaft, Impeller	
T11	O-Ring, 4-3/8 x 4-5/8 in	
T12	O-Ring, 3-1/4 x 3-1/2 in	
T13	Seal-Oil, 1-5/8 x 2-7/16 in	T29—
T14	Seal-Oil, 1-5/8 x 2-1/2 in	
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	
T24	Screw-Drive, #6 x 1/4 in	T30—
T25	Screw-Hex Hd, 3/8-16 x 1 in	
T26	Washer-Lock, 3/8 in	Targue put to 400 450
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	Torque nut to 400-450
T28	Stud-Coarse, 1/2-13 x 2-1/4 in	
T29	Washer-Lock, 1/2 in	T13
T30	Nut-Hex, 1/2-13	T39—
T35	Spacer-Shaft, Impeller	T38— T46
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm	T48—
T38	Washer-Lock, Bearing, W07	
T39	Nut-Lock, Bearing, N07	T44— ——————————————————————————————————
T41	Plate-Serial	
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm	T10
T46	Sleeve-Seal, Oil	
T47	Nut-Self Locking, 1-20 UNEF-2B	
T48	Key-Square, 3/8 x 1-3/4 in	
L		
	T44—	T8
	T11—	
	T5—	T28
		T9
	T14—	
و ما د به ما اد مردما		T15
Impeller sha key shown f	for	
key shown to reference. Simple shows	See \ \ \(\)	
impeller sha service part	is list.	
		T30
		-T26 $-$ T2
	With vertical or inverted transmiss	-T6
		T25 With horizontal transmission
		T26— T7
		T25
		T4 T4

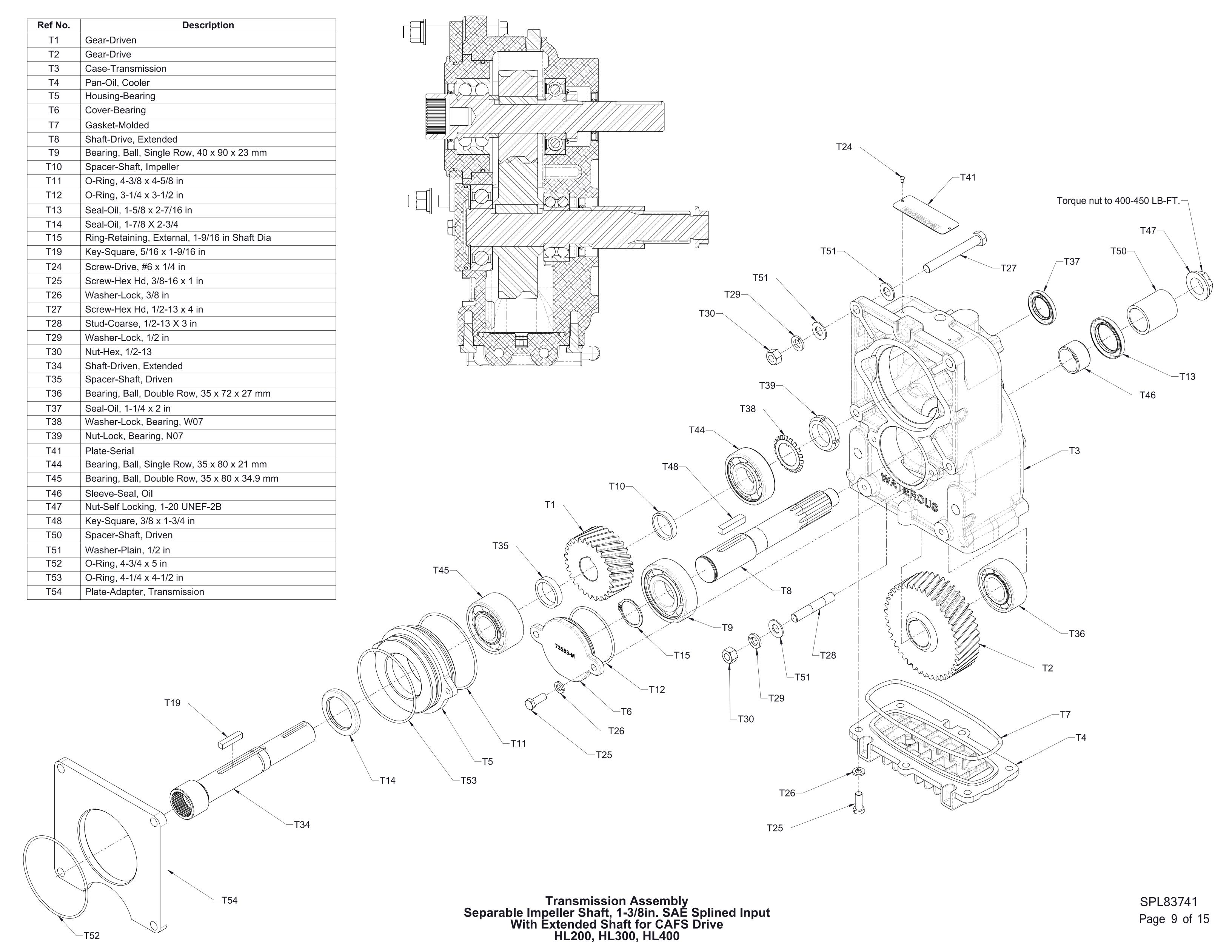
Ret No.	Description		
T1	Gear-Driven		
T2	Gear-Drive		
Т3	Case-Transmission		
T4	Pan-Oil, Cooler		
T5	Housing-Bearing		
T6	Disk-Cover		
Т6	Cover-Bearing		
Т7	Gasket-Molded	T24—	
Т8	Shaft-Drive		
Т9	Bearing, Ball, Single Row, 40 x 90 x 23 mm	T31—	
T10	Spacer-Shaft, Impeller		
T11	O-Ring, 4-3/8 x 4-5/8 in		
T12	O-Ring, 3-1/4 x 3-1/2 in		
T13	Seal-Oil, 1-5/8 x 2-7/16 in	T41	
T14	Seal-Oil, 1-5/8 x 2-1/2 in		
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia	T13—	
T24	Screw-Drive, #6 x 1/4 in		
T25	Screw-Hex Hd, 3/8-16 x 1 in	T29—	
T26	Washer-Lock, 3/8 in		Т22
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in	T30—	
T28	Stud-Coarse, 1/2-13 x 2-1/4 in		
T29	Washer-Lock, 1/2 in		
T30	Nut-Hex, 1/2-13		
T31	Bushing-Adapter		
T32	Adapter-Case Gear, Class C, Hyd Motor		−T32
T33	Screw-Cap, Hex Soc Hd, 7/16-14 x 1-1/4 in	T39—	
T35	Spacer-Shaft, Impeller	Т38—	
T36	Bearing, Ball, Double Row, 40 x 80 x 30.2 mm		
T38	Washer-Lock, Bearing, W07	T44—	
T39	Nut-Lock, Bearing, N07		
T41	Plate-Serial	T10—	
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm		
T48	Key-Square, 3/8 x 1-3/4 in		
Impeller key sho reference impeller service	The shaft and wn for its shaft parts list. With vertical inverted trans	T15 T28 T28	
		Transmission Assembly One Piece Impeller Shaft, SAE Class C Hydraulic Adapter Without Extended Shaft CGV, CGVG, CGVR	SPL83741 Page 6 of 15

Ref No.

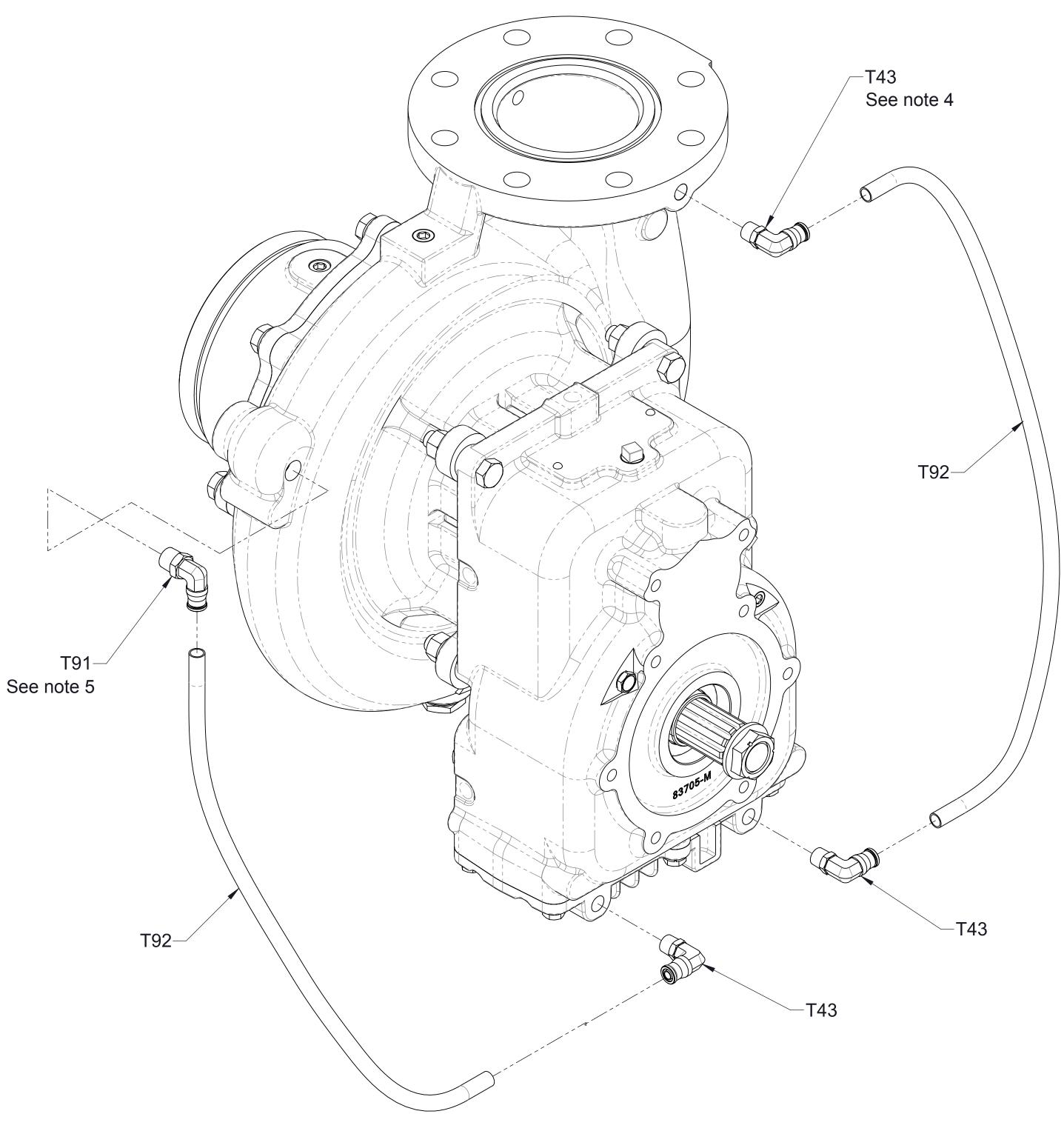
T1	Gear-Driven		
T2	Gear-Driveri Gear-Drive		
T3	Case-Transmission		
T4	Pan-Oil, Cooler		
T5	Housing-Bearing		
T6	Cover-Bearing		
T7	Gasket-Molded		
	Shaft-Drive	∕−T24	
T9	Bearing, Ball, Single Row, 40 x 90 x 23 mm		
T10	Spacer-Shaft, Impeller		
	O-Ring, 4-3/8 x 4-5/8 in		
	O-Ring, 3-1/4 x 3-1/2 in		
	Seal-Oil, 1-5/8 x 2-7/16 in		
T14	Seal-Oil, 1-5/8 X 2-7/10 III Seal-Oil, 1-7/8 X 2-3/4		
T15	Ring-Retaining, External, 1-9/16 in Shaft Dia		
T19	2.83 ratio: Key-Rectangular, 1/4 x 5/16 x 1-9/16 in All other ratios: Key-Square, 5/16 x 1-9/16 in		
T24	Screw-Drive, #6 x 1/4 in	T29— —T27	
T25	Screw-Hex Hd, 3/8-16 x 1 in		
T26	Washer-Lock, 3/8 in	T30—	
T27	Screw-Hex Hd, 1/2-13 x 2-1/4 in		
T28	Stud-Coarse, 1/2-13 x 2-1/4 in		
T29	Washer-Lock, 1/2 in	T47	
T30	Nut-Hex, 1/2-13	Torque nut to 400-450	0 LB-FT.
T34	Shaft-Driven	T13	
T36	Bearing, Ball, Double Row, 35 x 72 x 27 mm		
T38	Washer-Lock, Bearing, W07	T39— —T46	
T39	Nut-Lock, Bearing, N07	T38—	
T41	Plate-Serial	T48—	
T44	Bearing, Ball, Single Row, 35 x 80 x 21 mm		
T46	Sleeve-Seal, Oil	T44———————————————————————————————————	
T47	Nut-Self Locking, 1-20 UNEF-2B	T10—	
T48	Key-Square, 3/8 x 1-3/4 in		
T49	Boot-Sealing		
T49—	T11- T19- T34-	T10 T10 T10 T10 T10 T10 T10 T10	II I
		Canarable Impallar Chaft 1 2/0in CAE Calined Input	SPL83741 Page 7 of 15

Ref No.



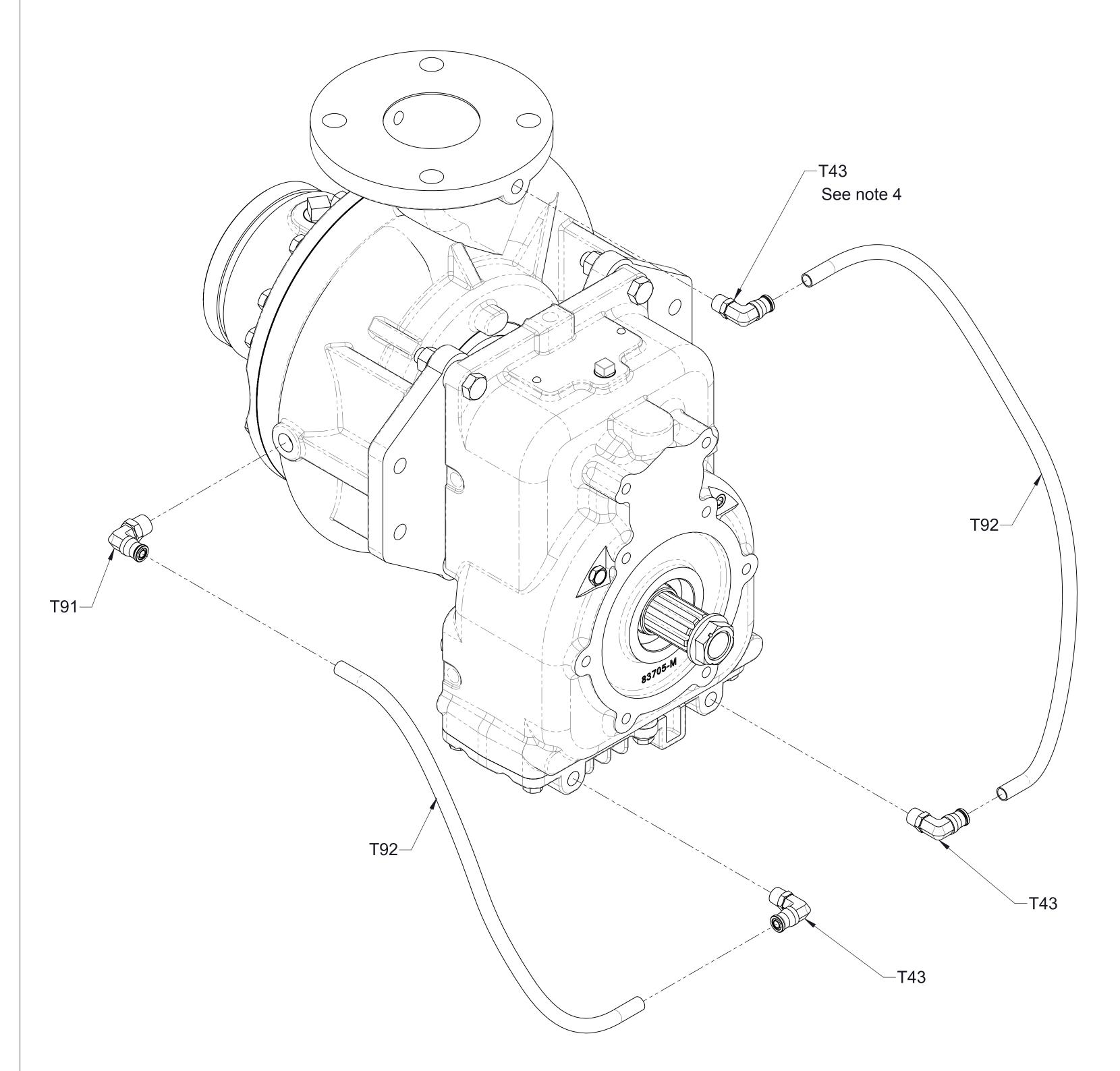


Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T91	Fitting-Elbow, 3/8 PTC X 3/8 MNPT, 90°
T92	Tubing, 3/8, Green



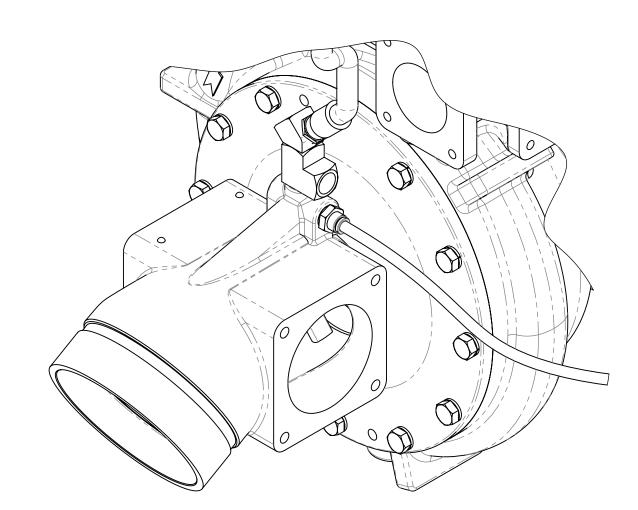
- Notes:
 CW input, vertical transmission, discharge UP shown.
 Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 Route hoses so water drains either through pump or oil cooler
 Elbow on disharge flange may need to be mounted on opposite side of flange if there is interferance with the transmission in certain configurations.
 Prior to July 22, 2020 T91 elbow was T89 3/8 PTC x 3/8 NPT straight adapter.

Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T91	Fitting-Elbow, 3/8 PTC X 3/8 MNPT, 90°
T92	Tubing, 3/8, Green

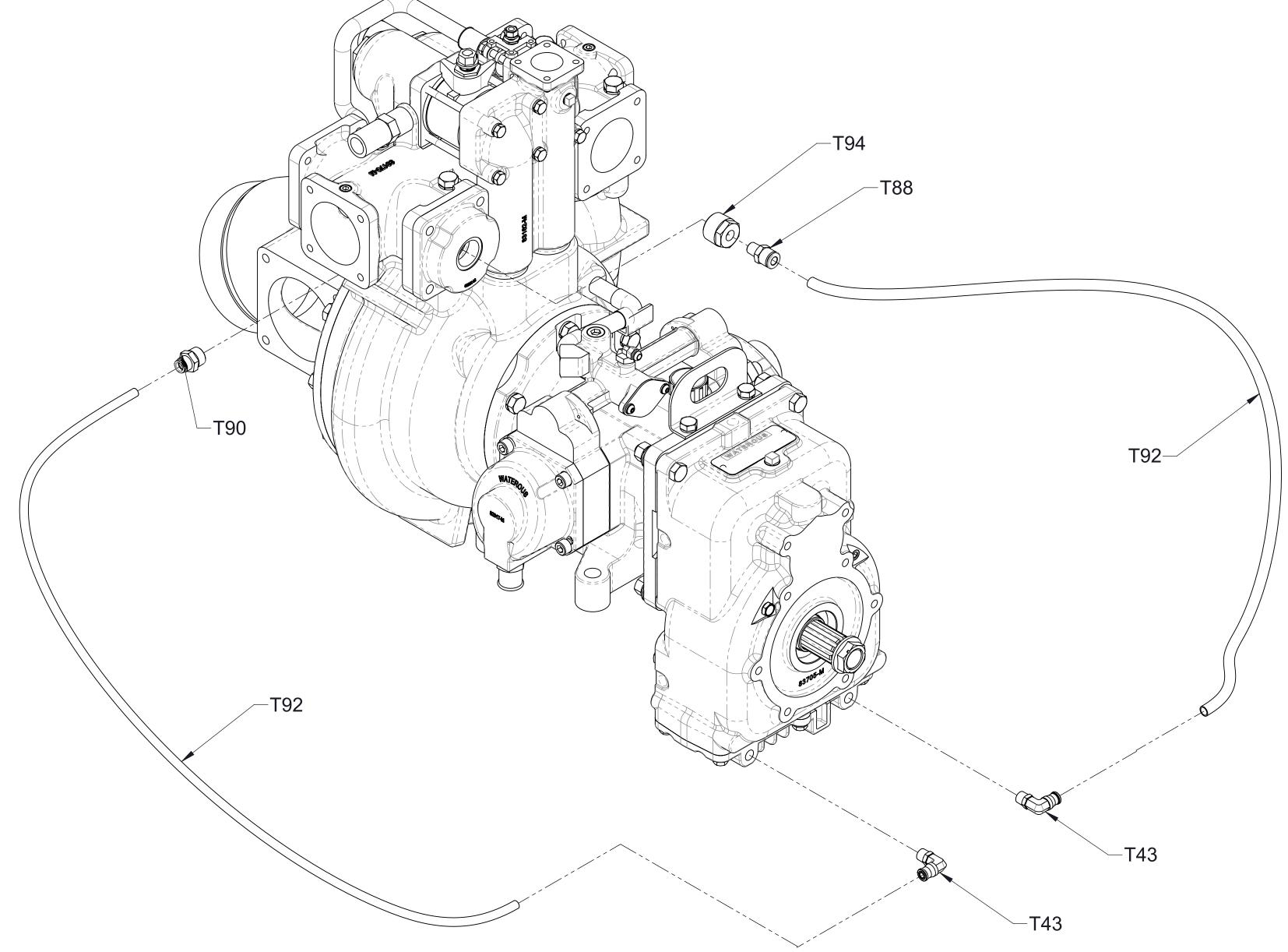


- Notes:
 1. CW input, vertical transmission, discharge UP shown.
 2. Tubing to be cut to required length depending on input rotation and pump/transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Elbow on disharge flange may be mounted on opposite side of flange if it provides a better hose route depending on the pump and transmission configurations.

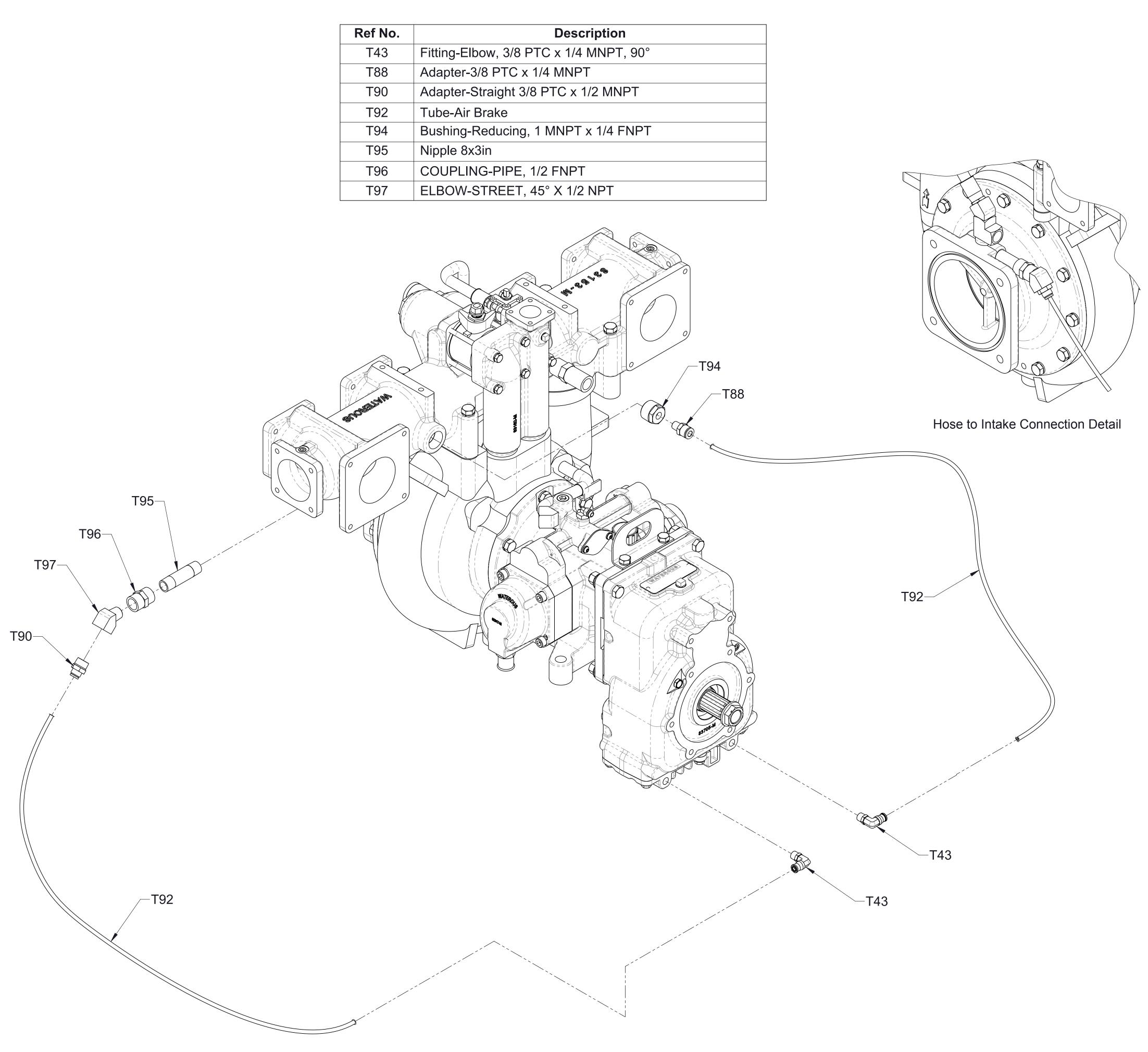
Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T90	Adapter-Straight 3/8 PTC x 1/2 MNPT
T92	Tubing, 3/8, Green
T94	Bushing-Reducing, 1 MNPT x 1/4 FNPT



Hose to Intake Connection Detail

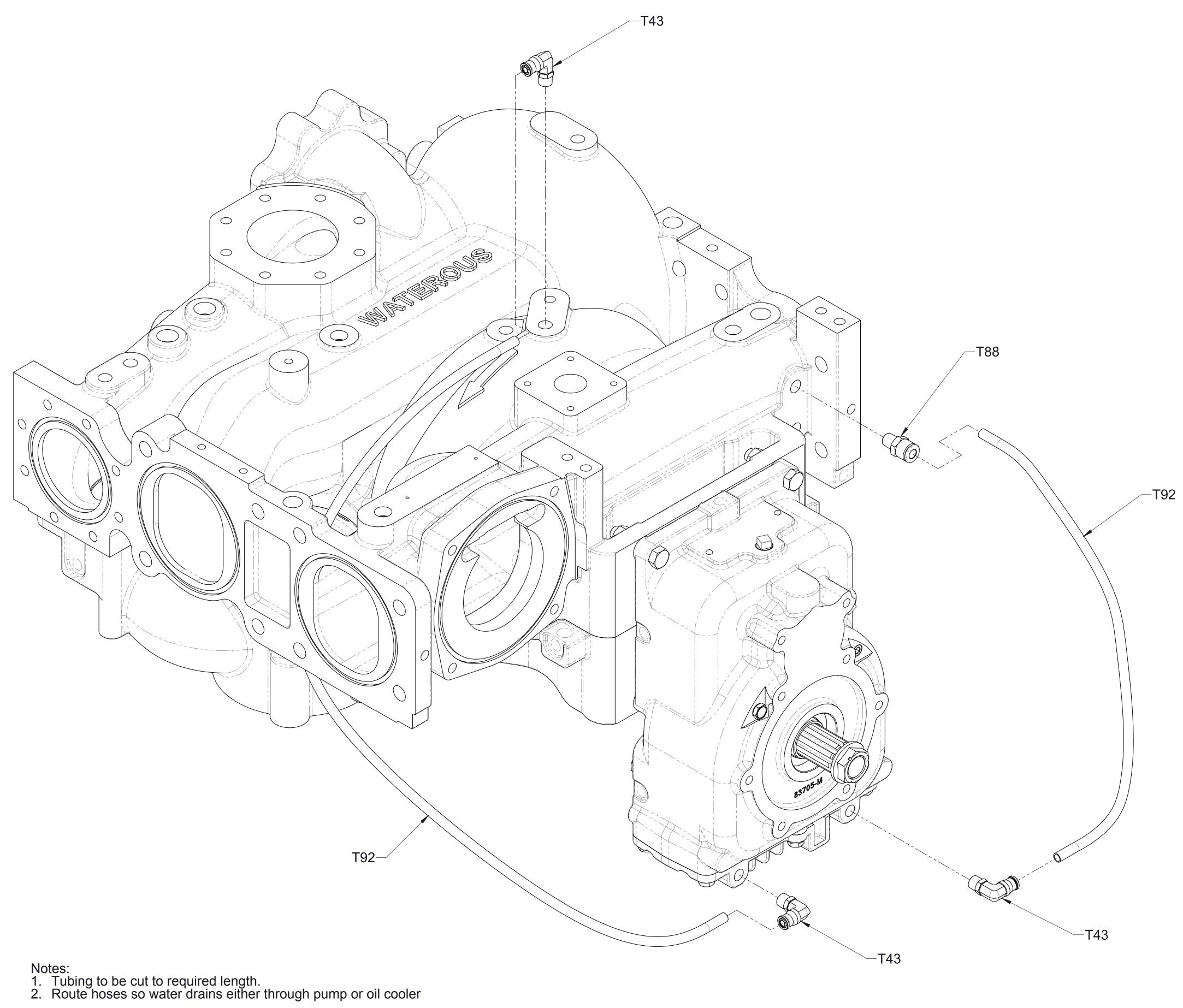


- Notes:
 1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing in certain configurations.

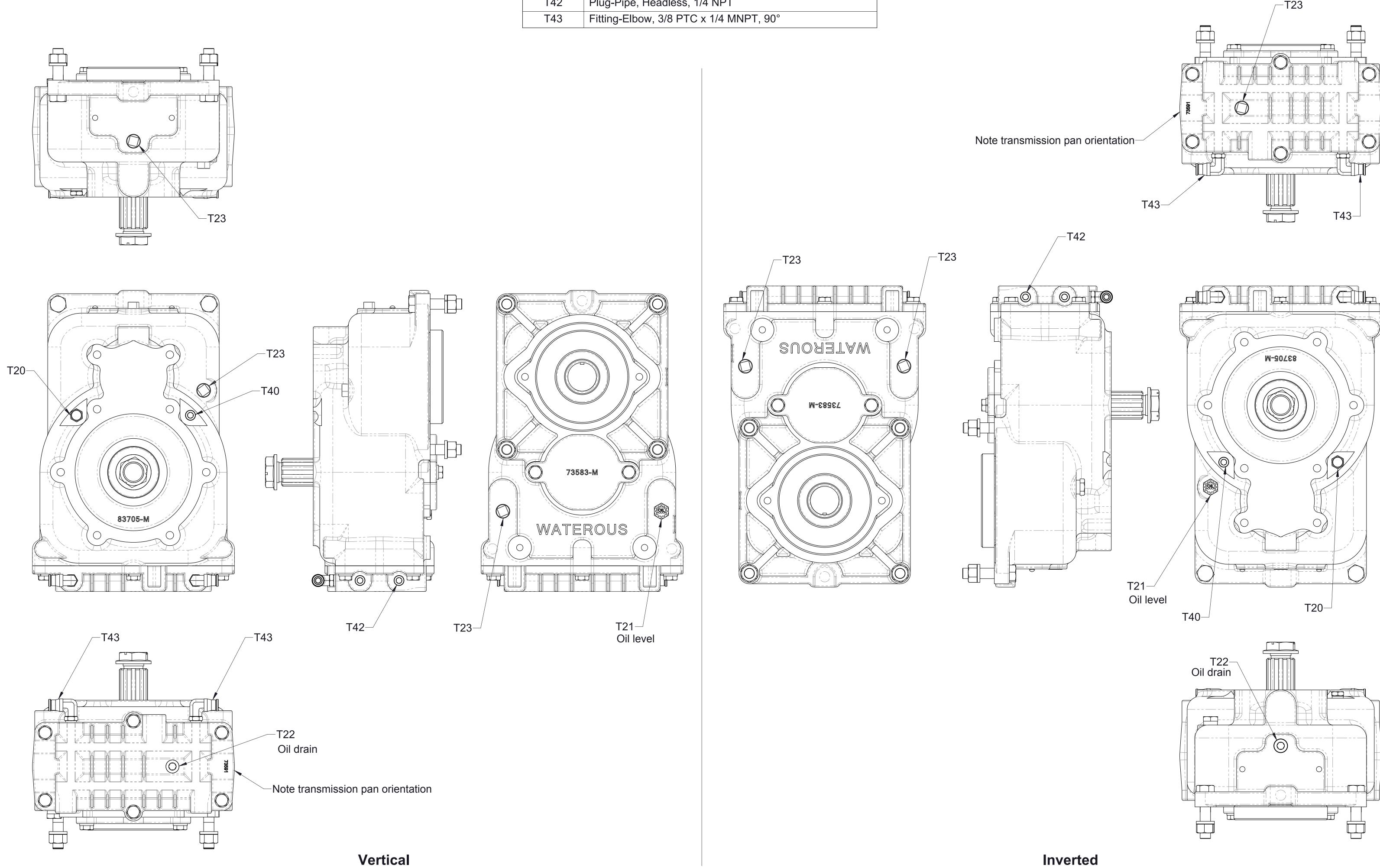


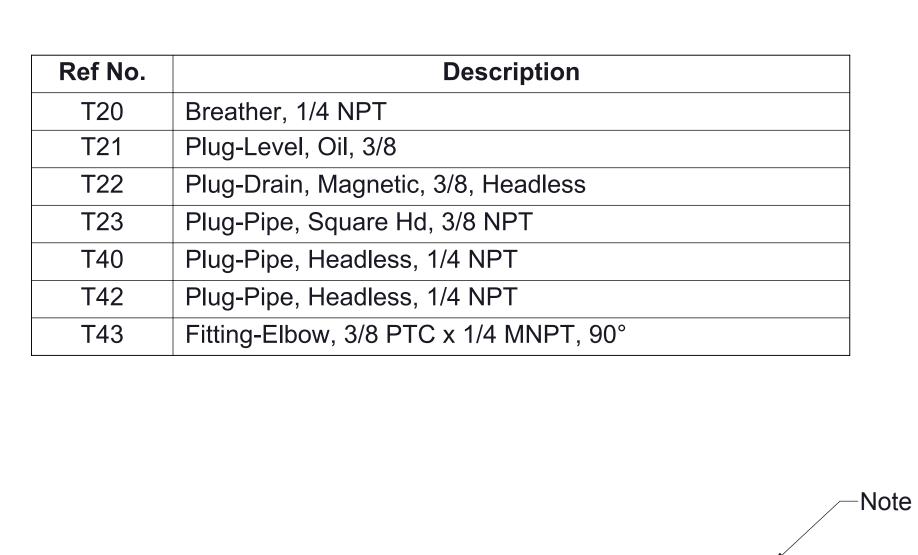
- Notes:
 1. CW input and vertical transmission shown.
 2. Tubing to be cut to required length depending on input rotation and transmission orientation.
 3. Route hoses so water drains either through pump or oil cooler
 4. Cooler lines feeding into oil cooler may be swapped for a better hose routing in certain configurations.

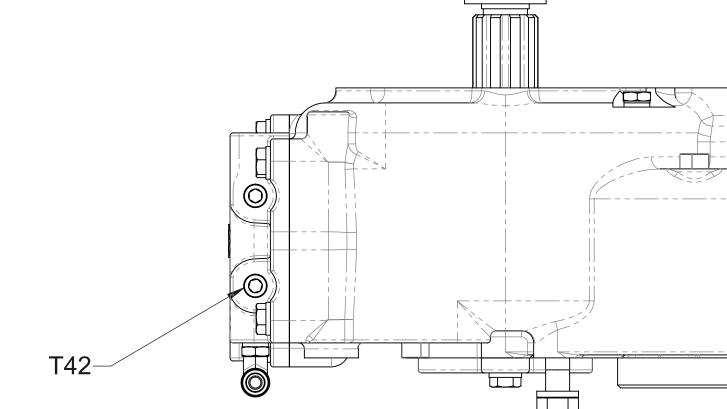
Ref No.	Description
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°
T88	Adapter-3/8 PTC x 1/4 MNPT
T92	Tubing, 3/8, Green

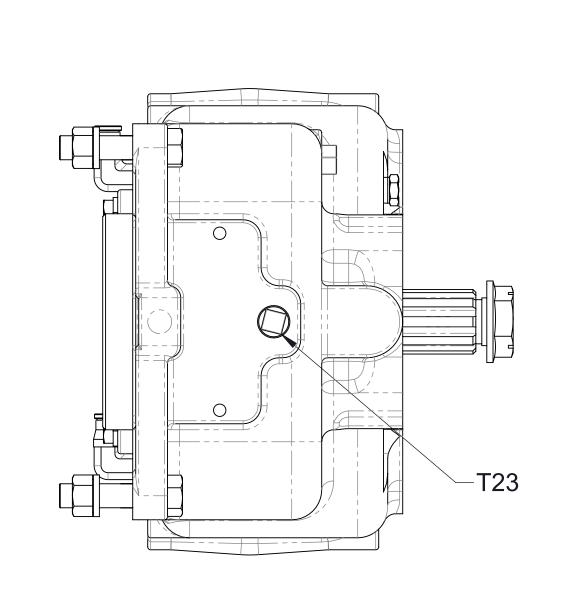


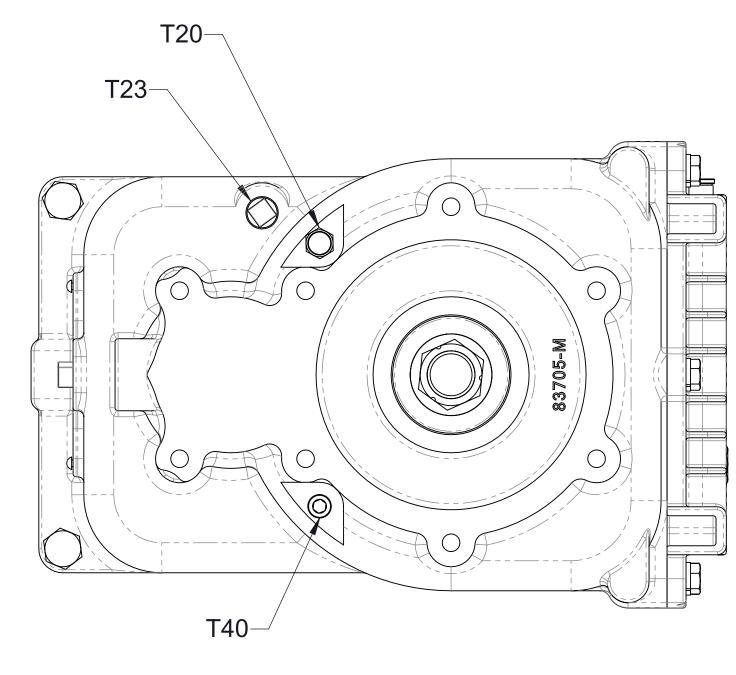
Ref No.	Description
T20	Breather, 1/4 NPT
T21	Plug-Level, Oil, 3/8
T22	Plug-Drain, Magnetic, 3/8, Headless
T23	Plug-Pipe, Square Hd, 3/8 NPT
T40	Plug-Pipe, Headless, 1/4 NPT
T42	Plug-Pipe, Headless, 1/4 NPT
T43	Fitting-Elbow, 3/8 PTC x 1/4 MNPT, 90°

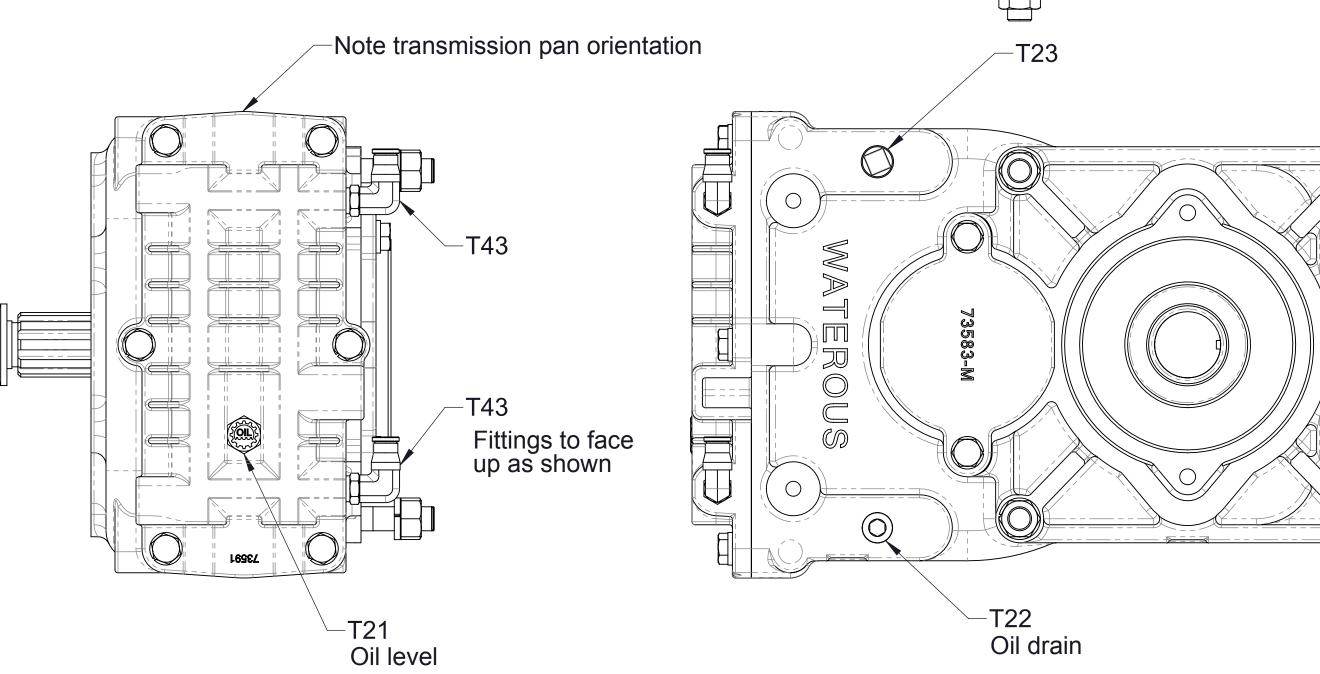


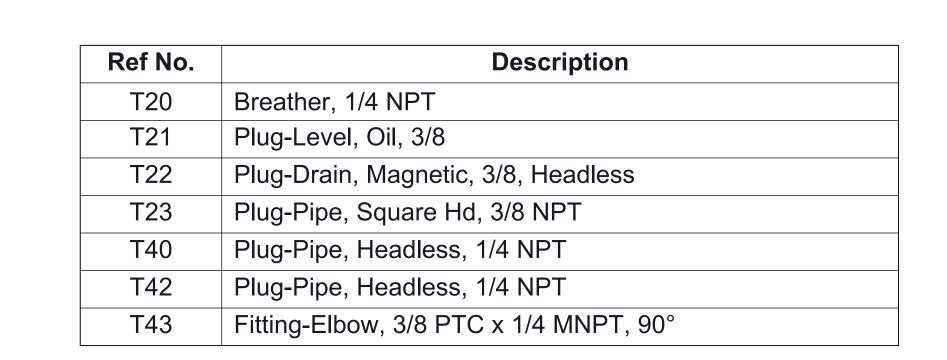




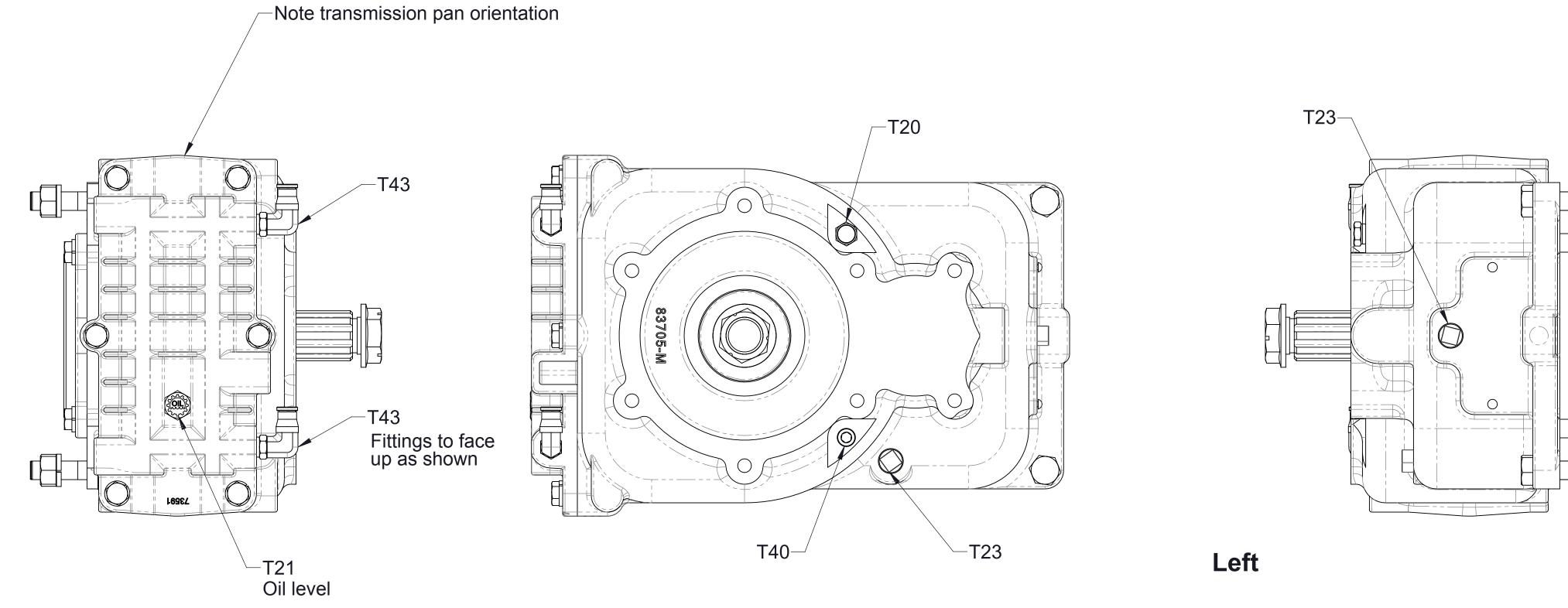


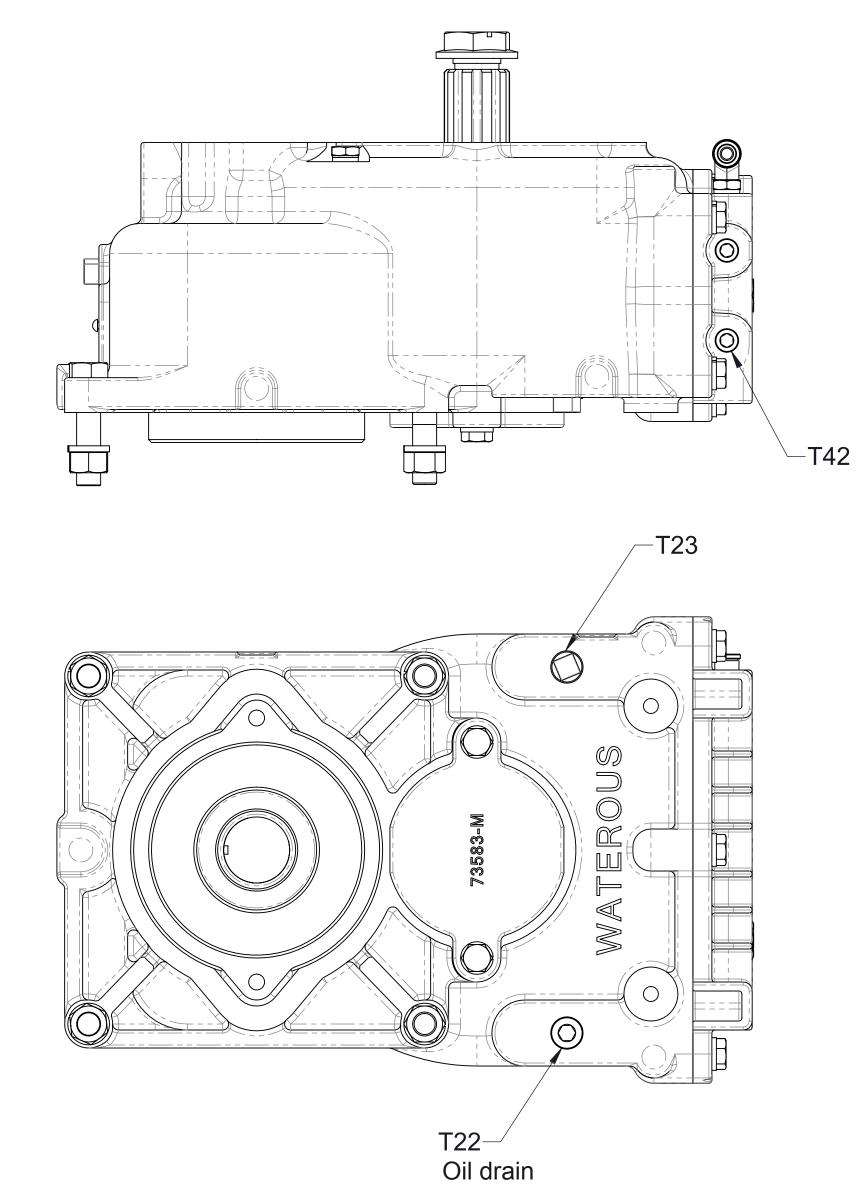






Right





Breather, Drain, Oil Level, Plug, and Cooler Elbow Locations Vertical and Inverted Mounting Positions