## WATEROUS

Pump Model (Located on Pump Serial Plate)	Transmi F
CM, CMU, CMH, CMUH	
CS, CSU, CSH, CSUH	
CLS	
CGVG Inverted CM, CMU	
CXS	C20 Serie
S101	

WaterousCompany, 125 Hardman Avenue South, South St. Paul, Minnesota 55075 USA (651) 450-5000 www.waterousco.com Note: When ordering parts, provide Pump, Transmission or PTO Serial Number.

**Document Number** SPL82507

### **Priming Valve and Piping Service Parts List**

VAP (Vacuum Activated) Priming Valve

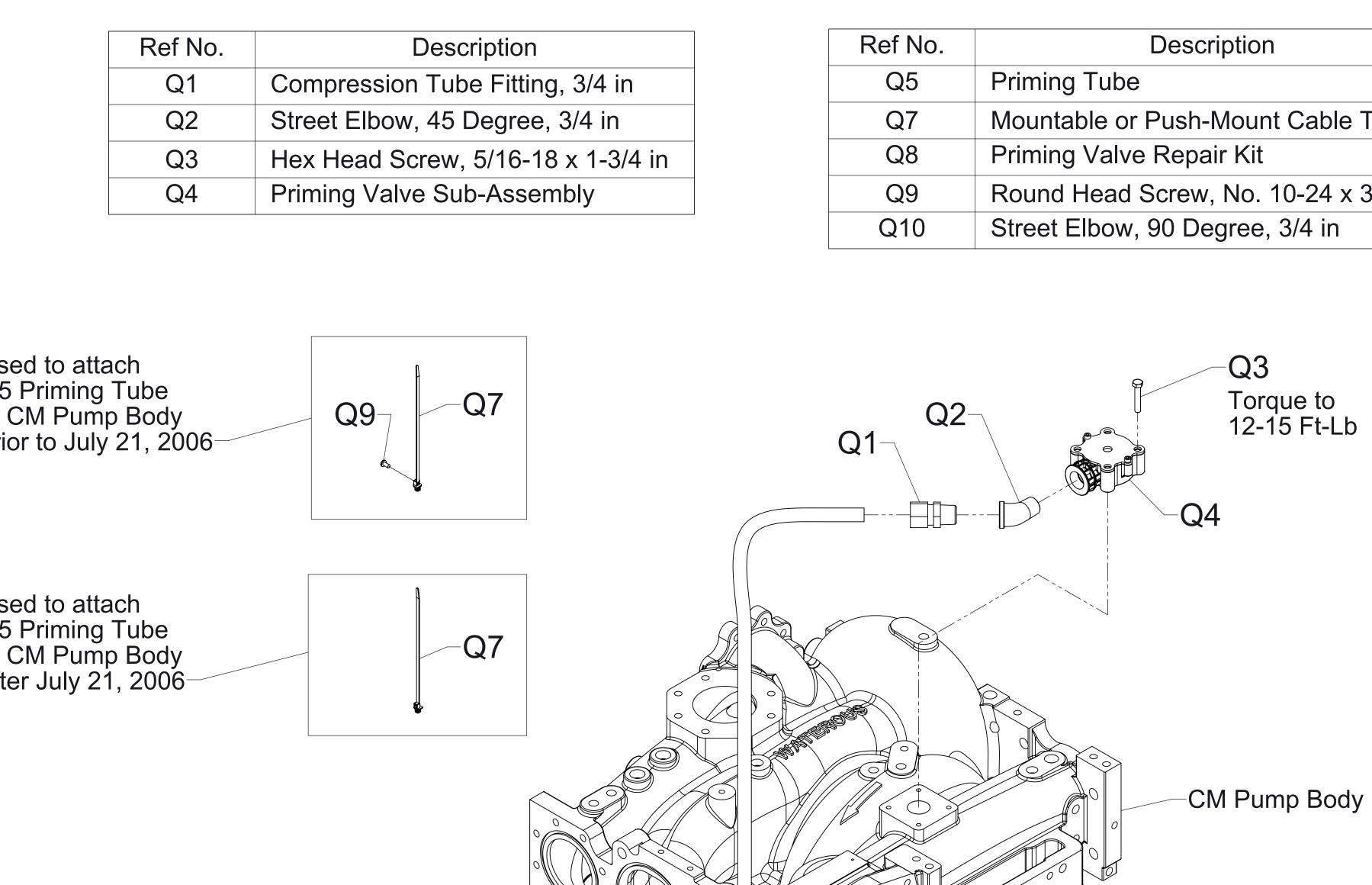
#### Index:

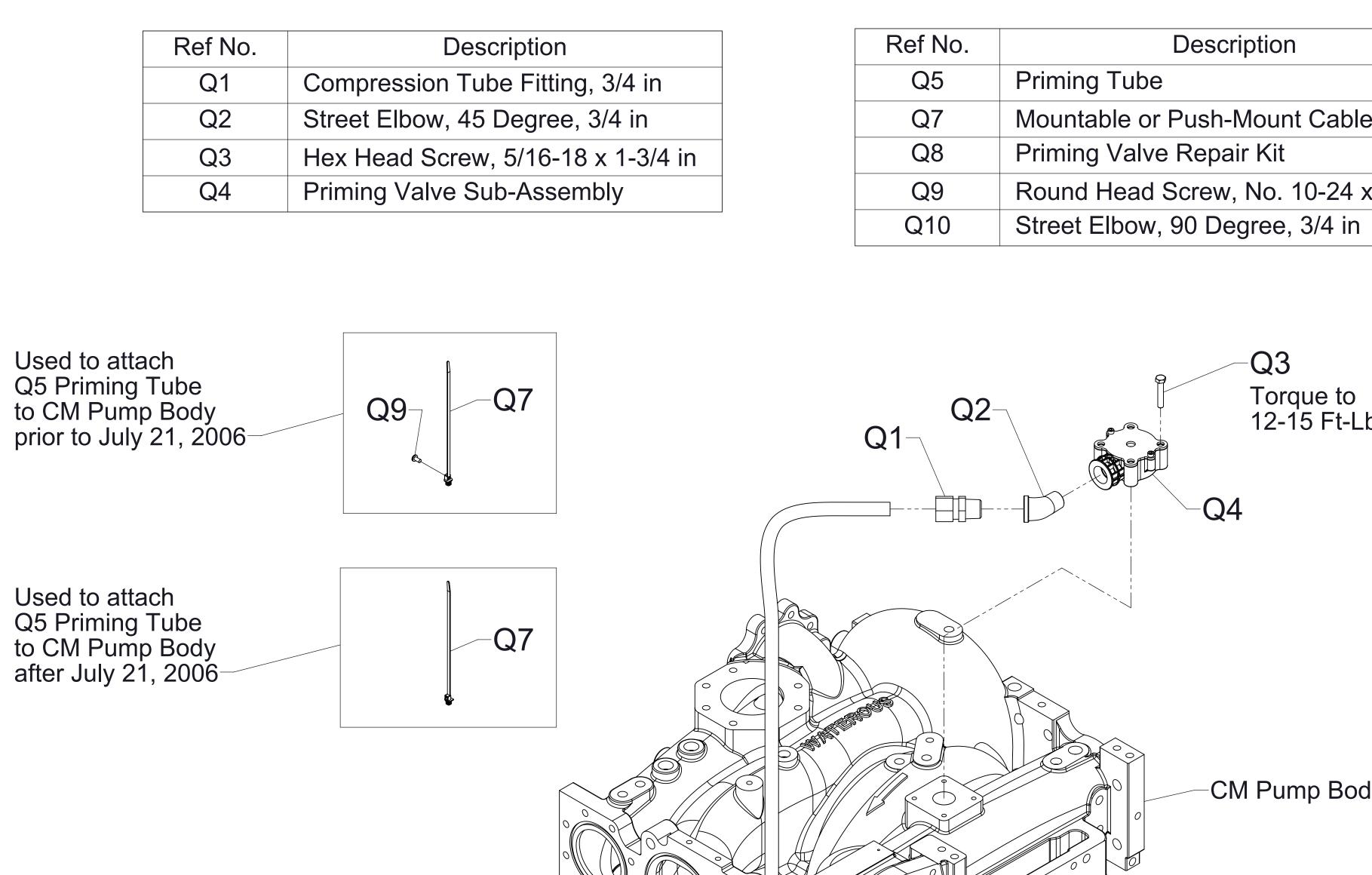
nission Model (Located on Pump Serial Plate				See Page	
		Pump Material	Priming Valve Mounting	Valve and Piping	Solenoid (When Pump has multiple VAP Valves)
	Δ.11	Iron	4-Bolt	2	
	All	Bronze	3/8 NPT Nipple	3	
	Δ.11	Iron	4-Bolt	4	
	All	Bronze	3/8 NPT Nipple	5	
	All	Iron or Bronze	3/8 NPT Nipple	6	
	All	Iron or Bronze	3/8 NPT Nipple	7	
es –	Pump on Front (Input Shaft Side)	Iron	4-Bolt	8	
	Pump on Rear (Output Shaft Side)	Iron	4-Bolt	9	13
	D, K, PA or T	Iron	4-Bolt	10	
	All	Iron	4-Bolt	11	
All		Iron or Bronze	3/8 NPT Nipple	12	

#### Issue Date 04/17/06

#### Rev. Date 03/21/22

Ref No.	De
Q1	Compression T
Q2	Street Elbow, 4
Q3	Hex Head Screv
Q4	Priming Valve S

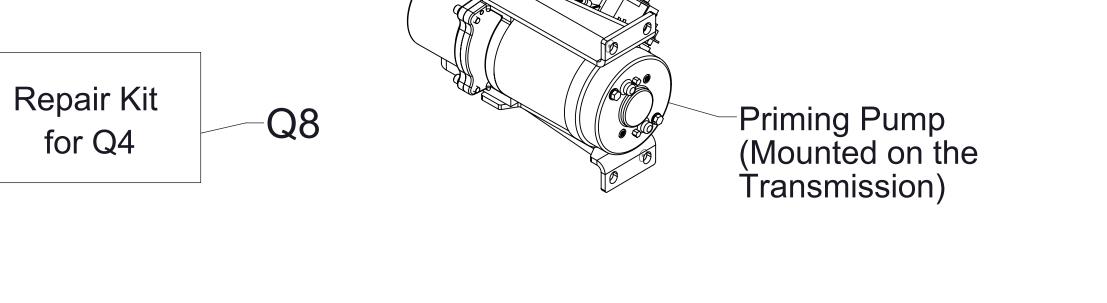




Q5-

Q2

Rear Mounted Transmission



Q1

Ø

Use Teflon thread tape on threads

Q10

Front Mounted Transmission

Iron CM, CMU, CMH, CMUH Pump Models

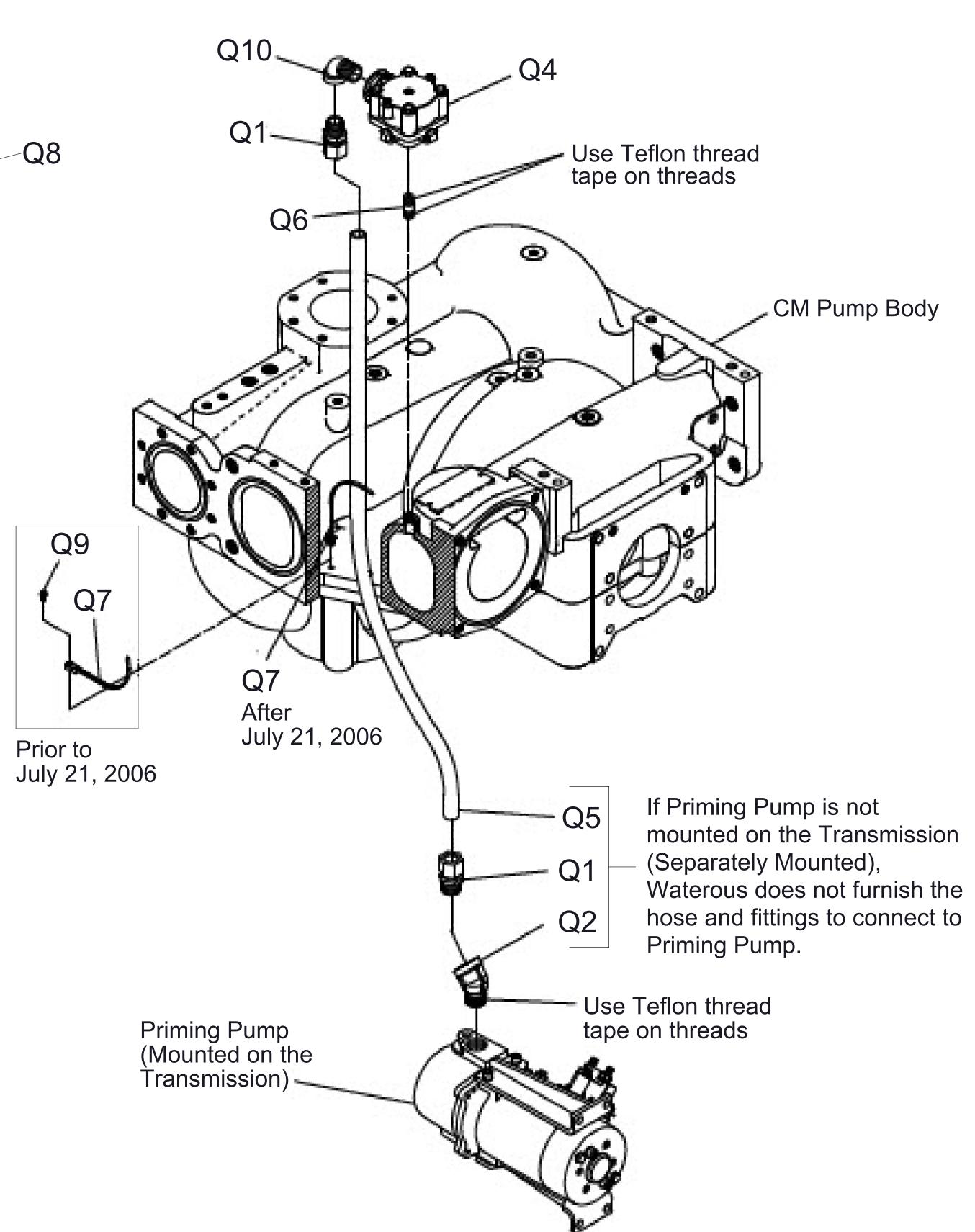
Tie	
3/8 in	

If Priming Pump is not mounted on the Transmission (Separately Mounted) Waterous does not furnish the hose and fittings to connect to Priming Pump.

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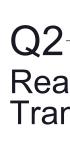
Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q6	Pipe Nipple, 3/8 NPT x 1-1/2 in
Q2	Street Elbow, 45 Degree, 3/4 in	Q7	Mountable or Push-Mount Cable Tie
Q4	Priming Valve Sub-Assembly	Q8	Priming Valve Repair Kit
Q5	Priming Tube	Q9	Round Head Screw, No. 10-24 x 3/8 in
		Q10	Street Elbow, 90 Degree, 3/4 in

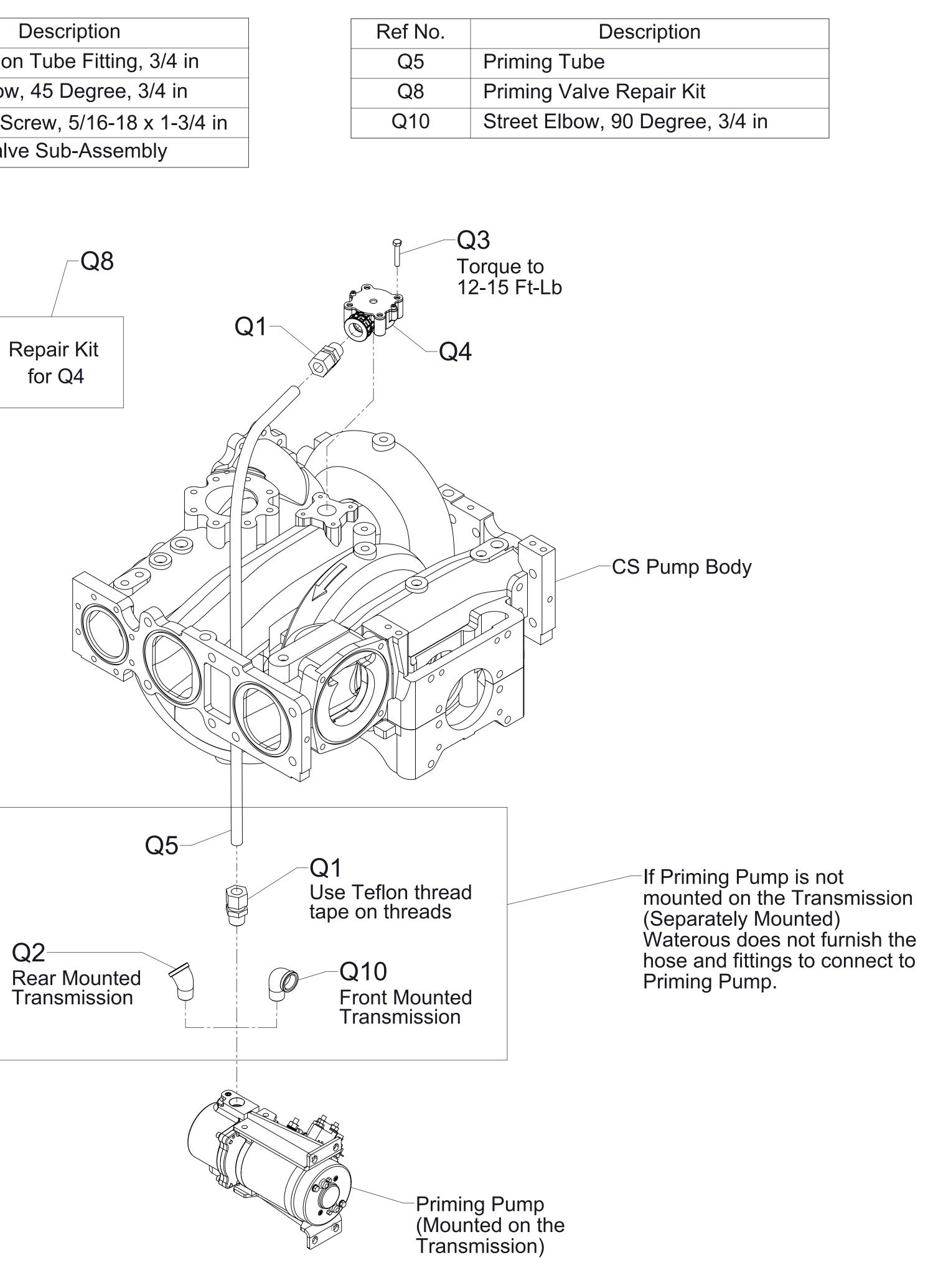




Bronze CM, CMU, CMH, CMUH Pump Models

Ref No.	De
Q1	Compression 7
Q2	Street Elbow, 4
Q3	Hex Head Scre
Q4	Priming Valve



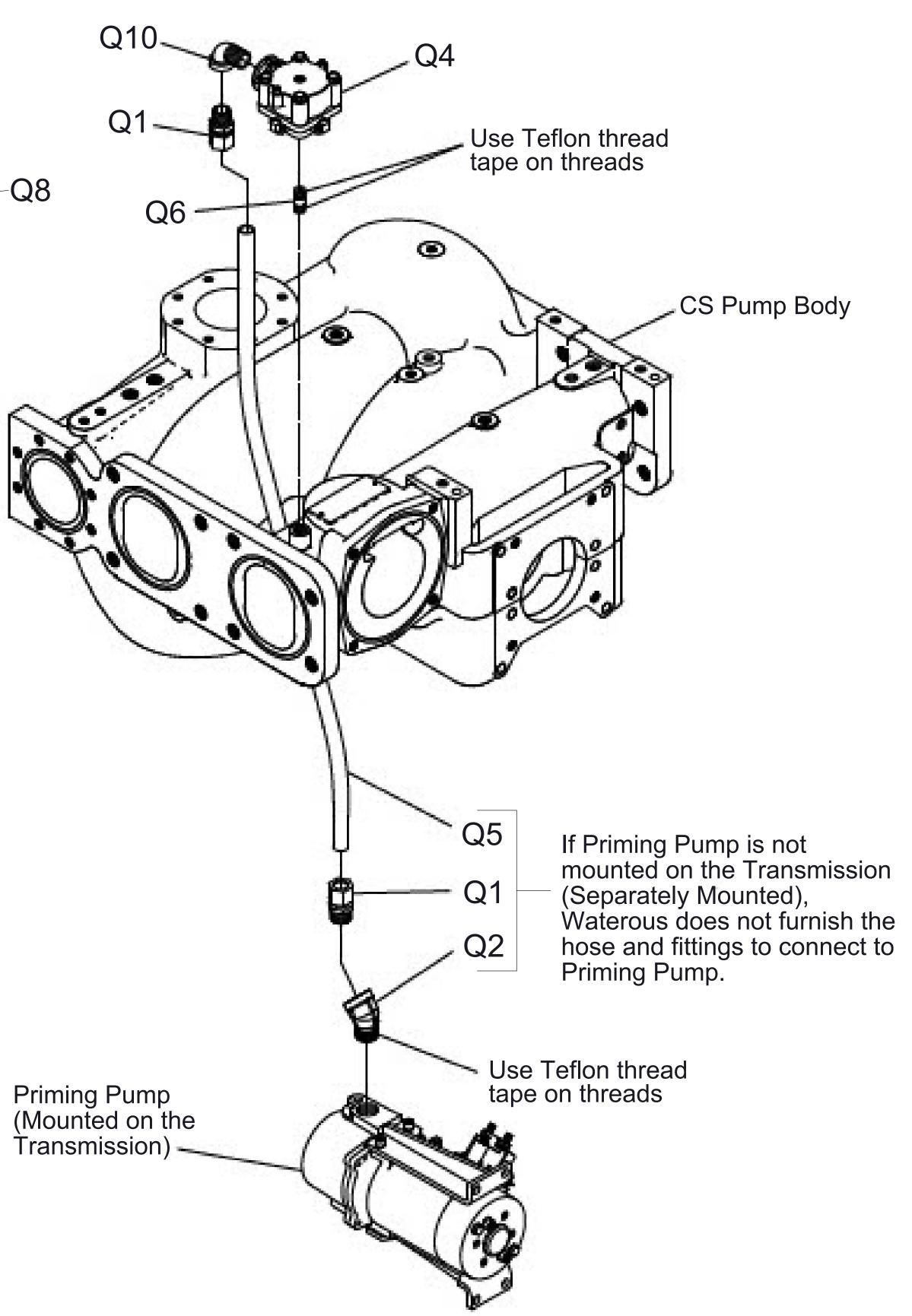


#### Iron CS, CSU, CSH, CSUH Pump Models

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Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q6	Pipe Nipple, 3/8 NPT x 1-1/2 in
Q2	Street Elbow, 45 Degree, 3/4 in	Q8	Priming Valve Repair Kit
Q4	Priming Valve Sub-Assembly	Q10	Street Elbow, 90 Degree, 3/4 in
Q5	Priming Tube		·

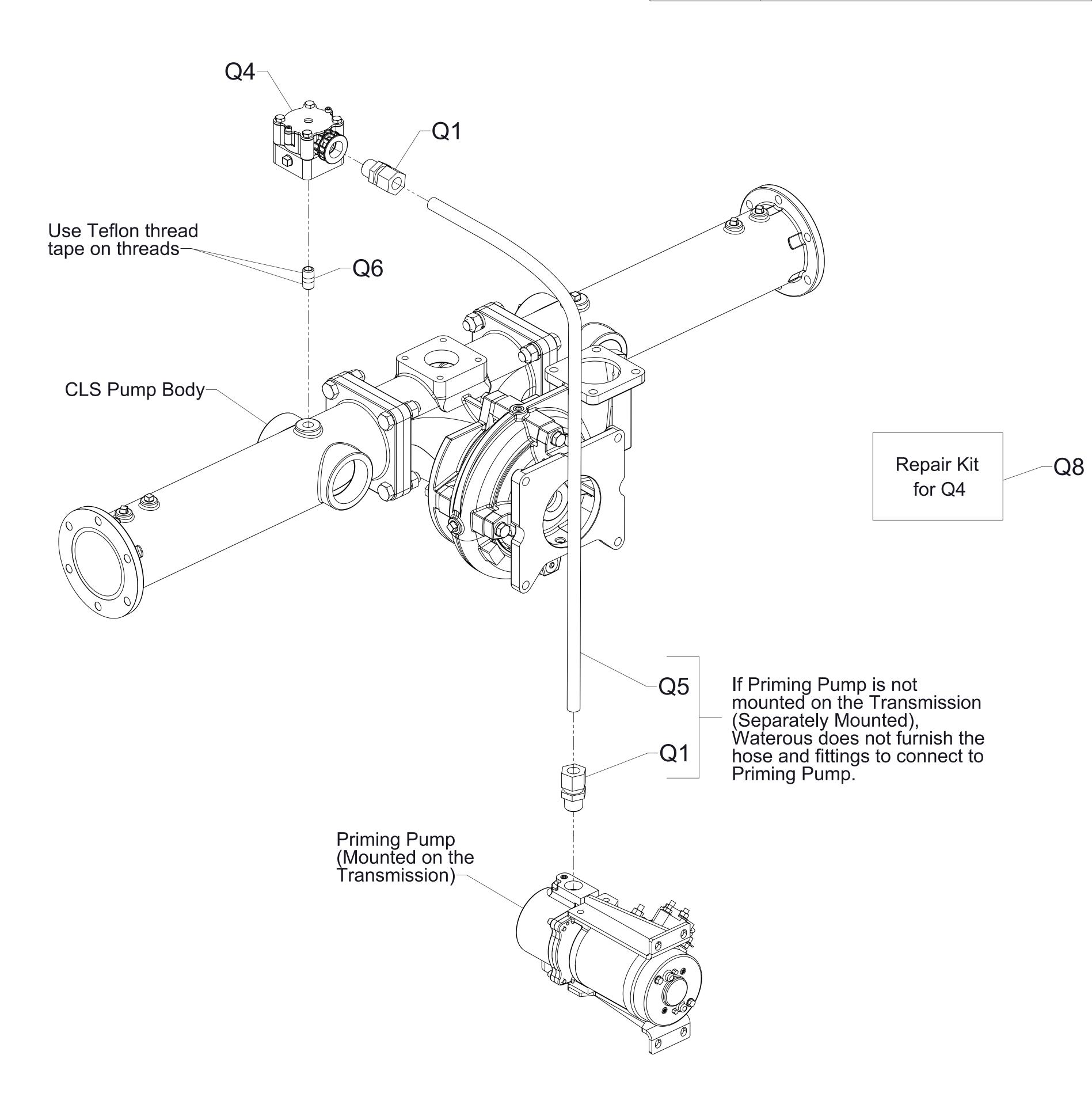
Repair Kit for Q4	Q8



Bronze CS, CSU, CSH, CSUH Pump Models

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Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q5	Priming Tube
Q4	Priming Valve Sub-Assembly	Q6	Pipe Nipple, 3/8 NPT x 1-1/2
		Q8	Priming Valve Repair Kit

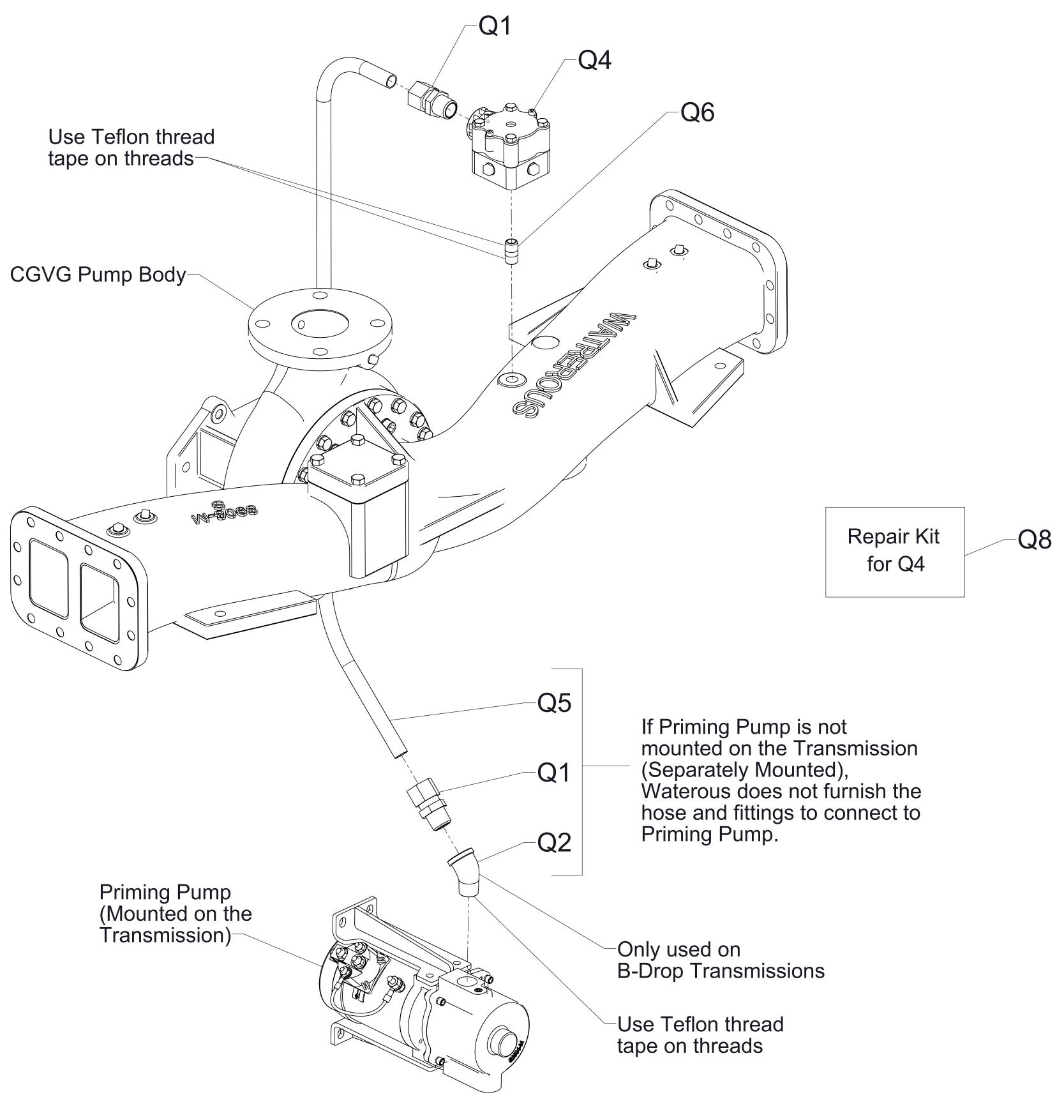


### **CLS Pump Model**

2	in		

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Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in
Q2	Street Elbow, 45 Degree, 3/4 in
Q4	Priming Valve Sub-Assembly



Ref No.	Description
Q5	Priming Tube
Q6	Pipe Nipple, 3/8 NPT x 1-
Q8	Priming Valve Repair Kit

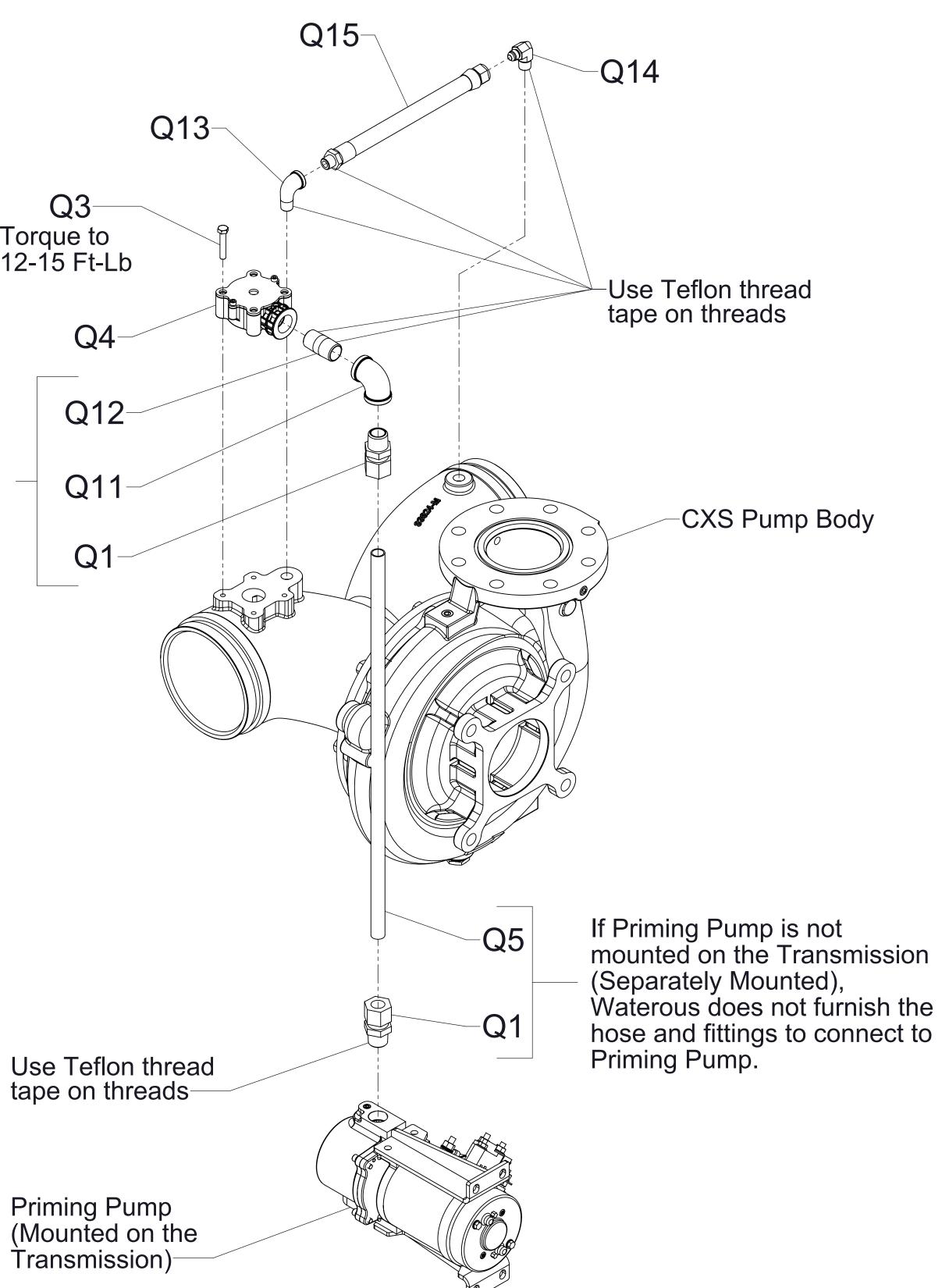
CGVG Pump Model (Inverted CM, CMU Models) -1/2 in

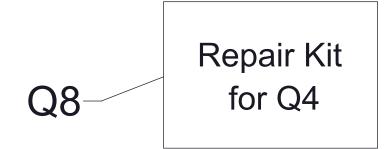
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Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q11	Elbow, 90 Deg., 3/4 in
Q3	Hex Head Screw, 5/16-18 x 1-3/4 in	Q12	Pipe Nipple, 3/4 NPT x 2 in
Q4	Priming Valve Sub-Assembly	Q13	Street Elbow, 90 Deg., 3/8 ir
Q5	Priming Tube	Q14	Elbow, 90 Deg., 3/8 in
Q8	Priming Valve Repair Kit	Q15	Hose, 3/8 NPT x 12 in
			1

Q3 Torque to 12-15 Ft-Lb

If Priming Pump is not mounted on the Transmission (Separately Mounted), Waterous does not furnish the hose and fittings to connect to Priming Pump.

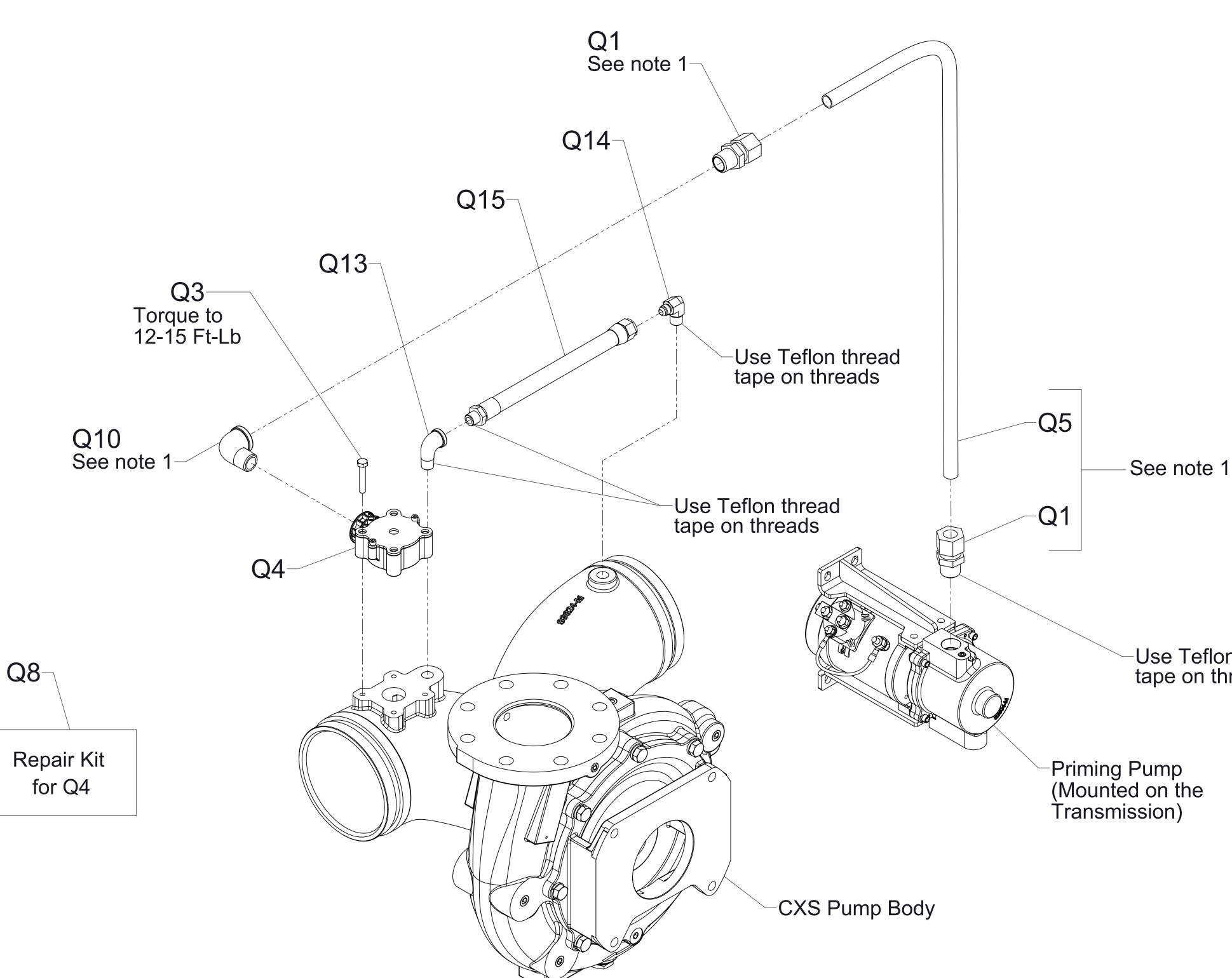




# CXS Pumps Mounted on Front (Input Shaft Side) of C20 Transmissions

in		

Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q10	Street Elbow, 90 Deg., 3/4 ir
Q3	Hex Head Screw, 5/16-18 x 1-3/4 in	Q13	Street Elbow, 90 Deg., 3/8 ir
Q4	Priming Valve Sub-Assembly	Q14	Elbow, 90 Deg., 3/8 in
Q5	Priming Tube	Q15	Hose, 3/8 NPT x 12 in
Q8	Priming Valve Repair Kit		



Note: 1. If Priming Pump is not mounted on the Transmission (Separately Mounted), Waterous does not furnish the hose and fittings to connect to Priming Pump.

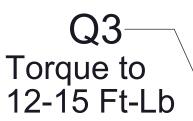
CXS Pumps Mounted on Rear (Output Shaft Side) of C20 Transmissions

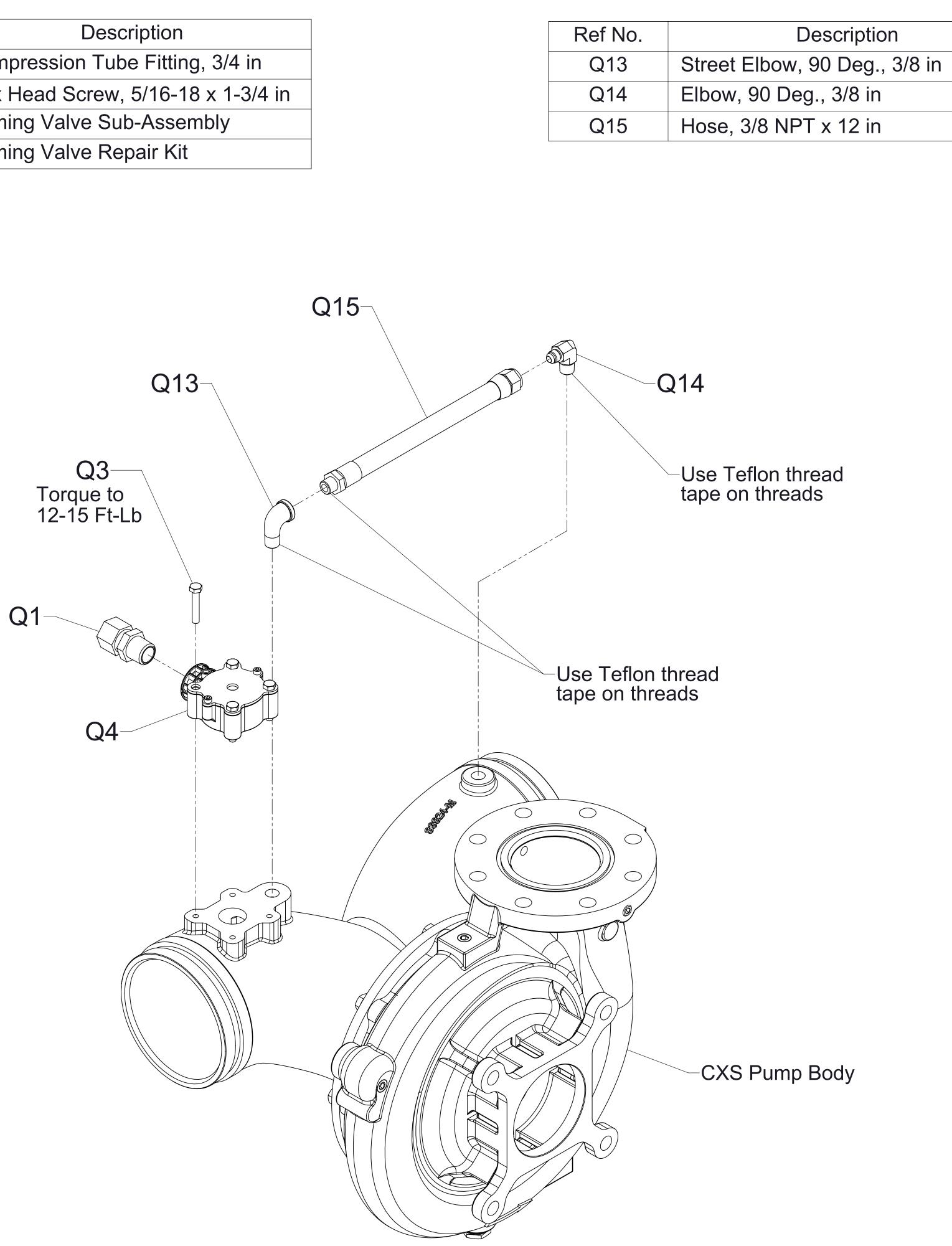
in		
in		

Use Teflon thread tape on threads

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Ref No.	Descripti
Q1	Compression Tube Fi
Q3	Hex Head Screw, 5/1
Q4	Priming Valve Sub-As
Q8	Priming Valve Repair



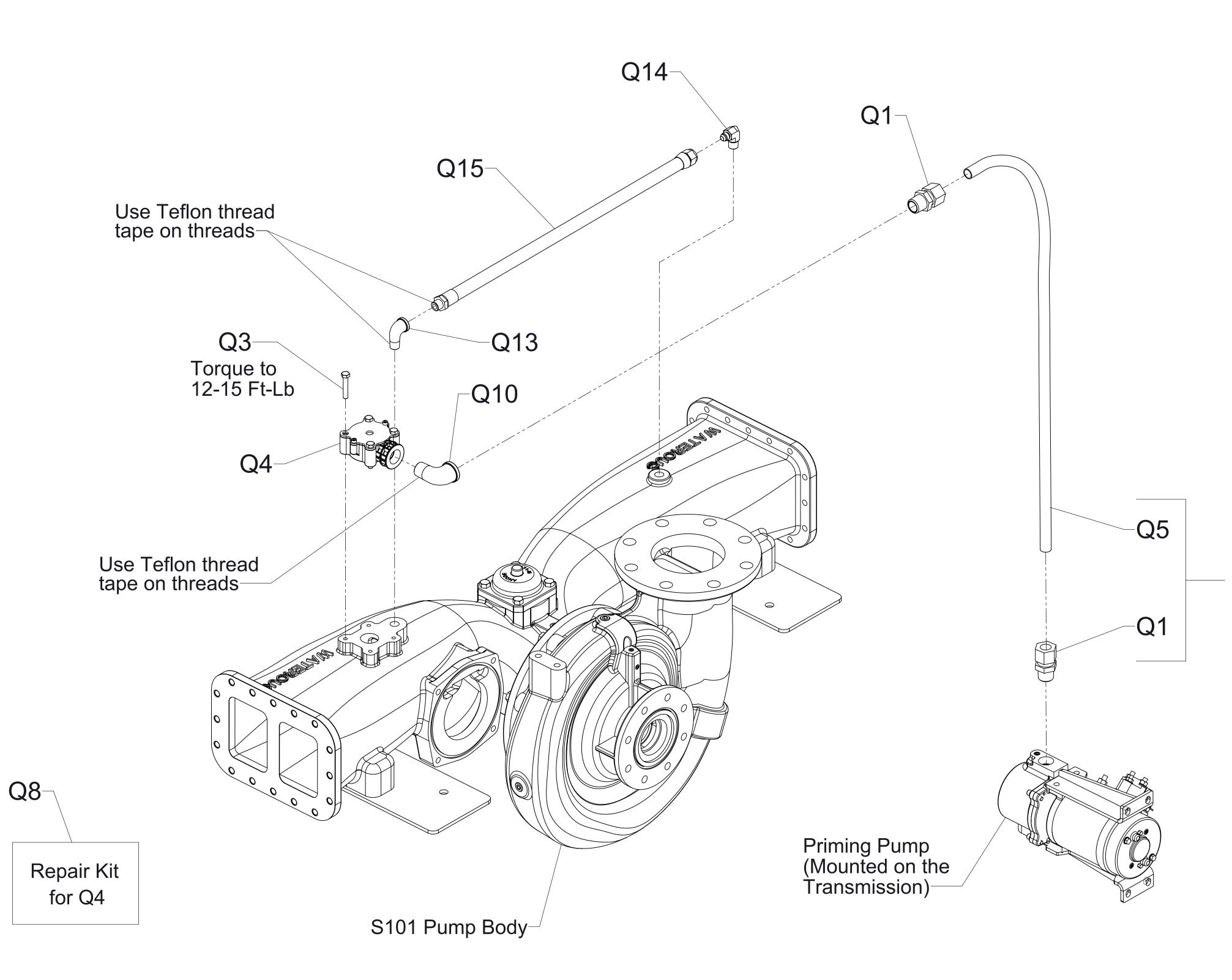


**Q8**– Repair Kit for Q4

CXS Pumps D, K, PA or T Transmissions

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Ref No.	Description	Ref No.	Description
Q1	Compression Tube Fitting, 3/4 in	Q10	Street Elbow, 90 Deg., 3/4 in
Q3	Hex Head Screw, 5/16-18 x 1-3/4 in	Q13	Street Elbow, 90 Deg., 3/8 in
Q4	Priming Valve Sub-Assembly	Q14	Elbow, 90 Deg., 3/8 in
Q5	Priming Tube	Q15	Hose, 3/8 NPT x 26 in
Q8	Priming Valve Repair Kit		1



#### S101 Pumps

in		
in		

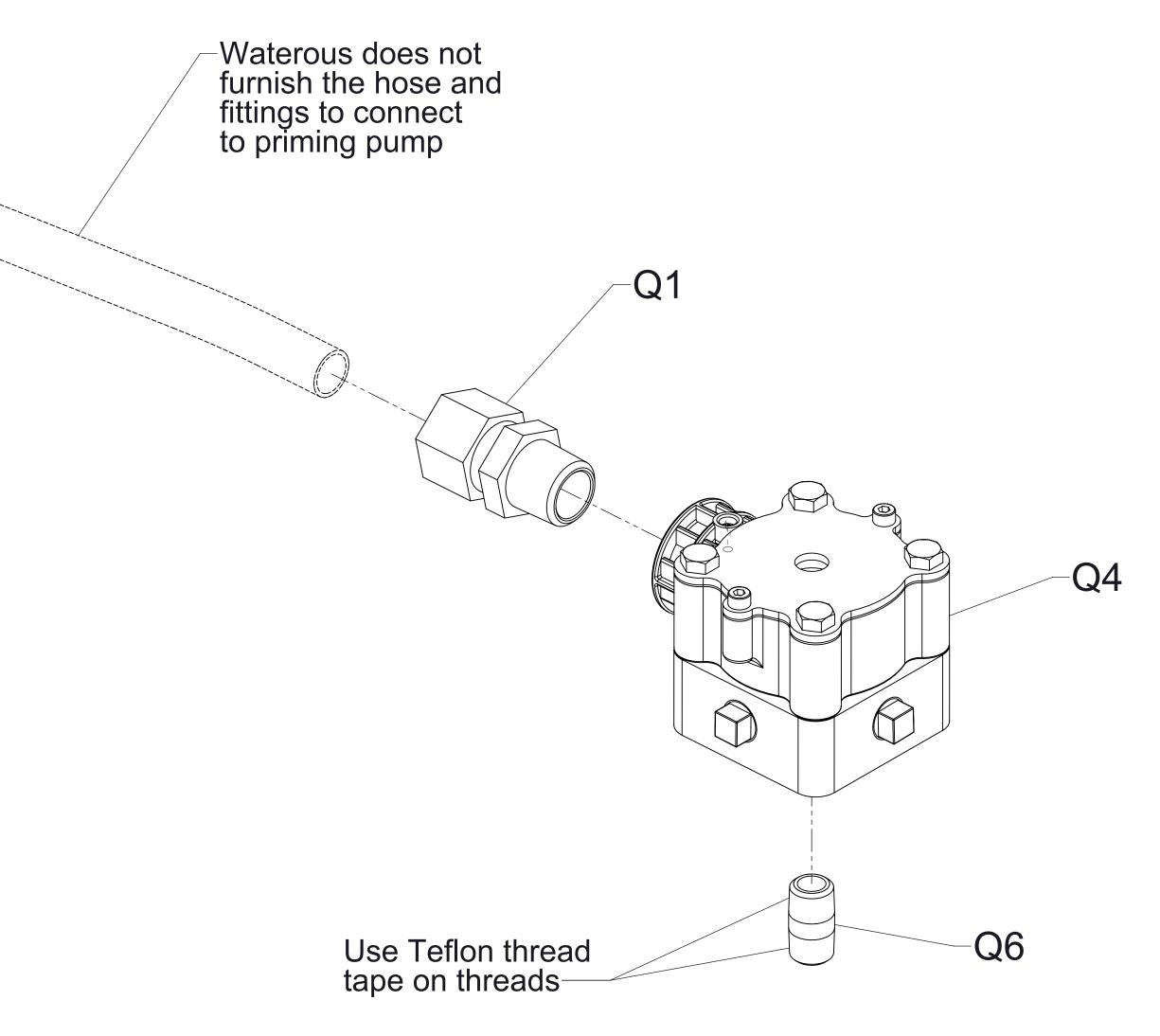
If Priming Pump is not mounted on the Transmission (Separately Mounted), Waterous does not furnish the hose and fittings to connect to Priming Pump.

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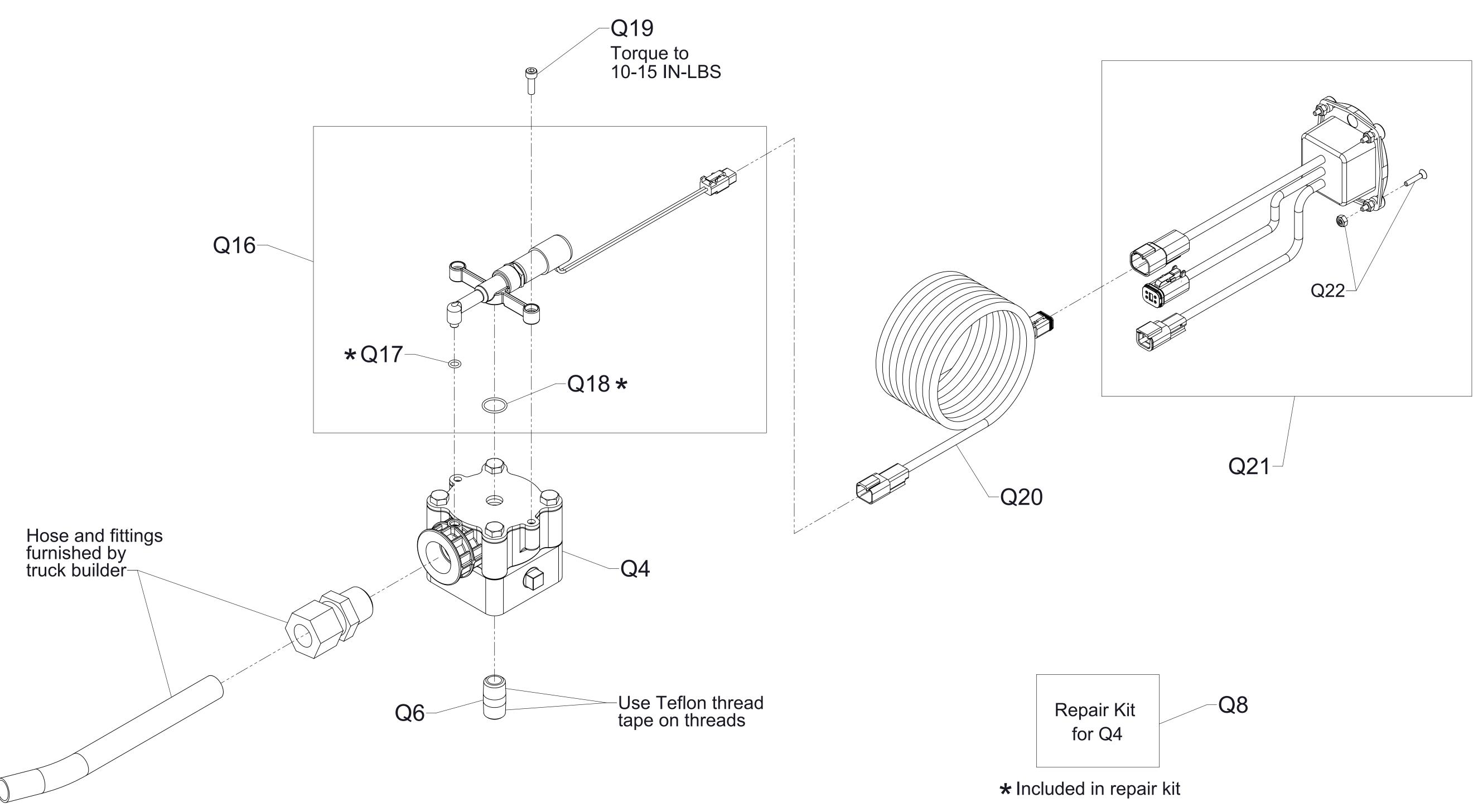
Ref No. Description	
Q1	Compression Tube Fitting, 3/4 in
Q4	Priming Valve Sub-Assembly
Q6	Pipe Nipple, 3/8 NPT x 1-1/2 in
Q8	Priming Valve Repair Kit



CP-2, CP-3, CP-4, CP-4UH, CLR, CLV, CXN, CXR, CXV, CGV, CGVN, CGVR, CR, CRU-1, CRU-2, CZ, CZU, CH-4, S100, E200, E300, E500 Pumps

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Ref No.	Description	Ref No.	
Q4	Priming Valve Sub-Assembly	Q18	O-ring, 5/8 x 3/4 in
Q6	Pipe Nipple, 3/8 NPT x 1-1/2 in	Q19	Socket-Head Screw, M5 x 16mm
Q8	Priming Valve Repair Kit	Q20	Solenoid Cable
Q16	Solenoid Replacement Kit (Includes Q17 and Q18 O-rings)	Q21	Control Panel with Integral Switch
Q17	O-ring, 1/4 x 3/8 in	Q22	Flat Head Screw, 6-32 x 3/4 in an



#### Description

#### ch (Includes Q22 Mounting Screws and Nuts) and 6-32 Hex Nut (For Control Panel)

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