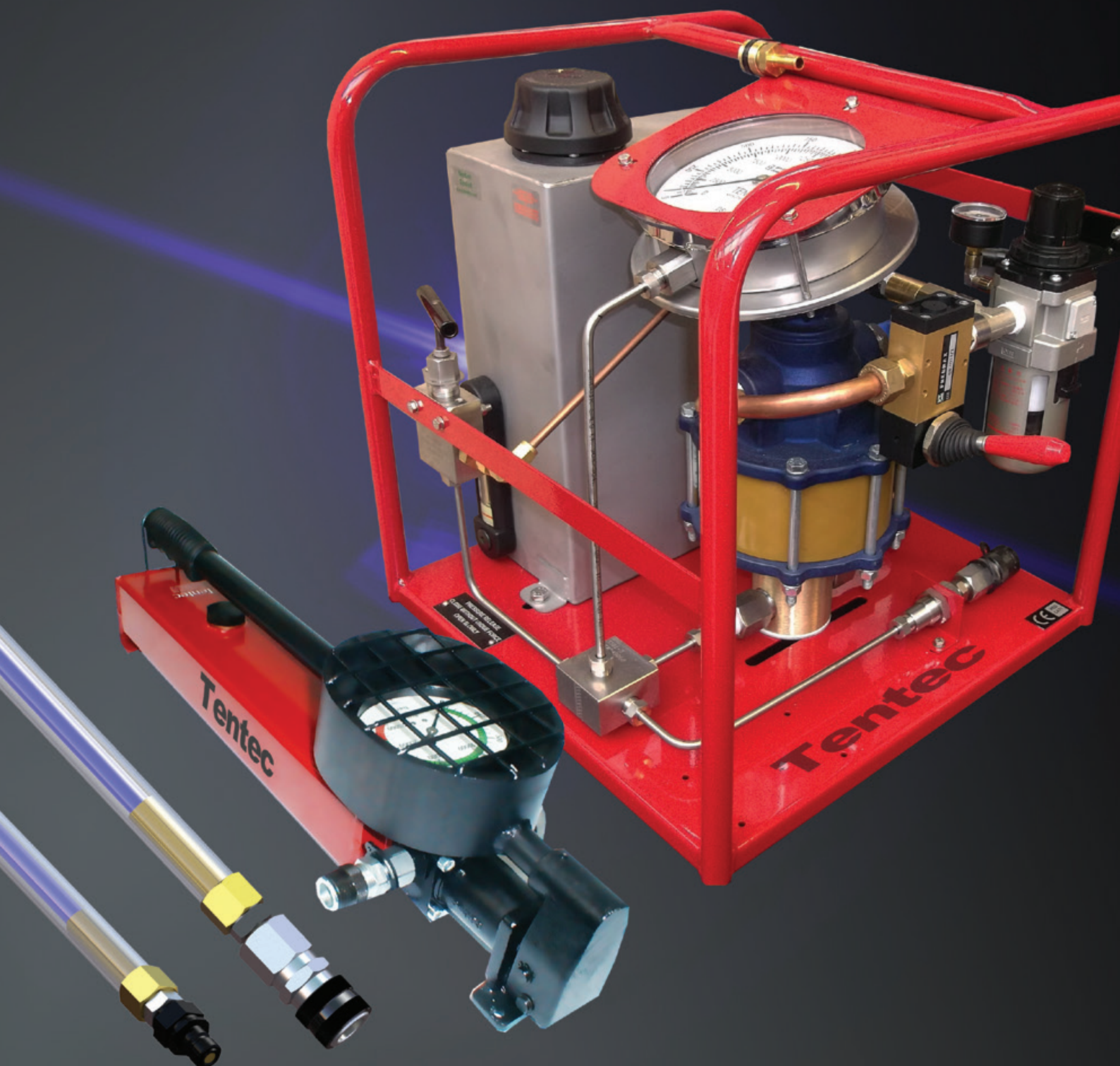


Tentec[®]
www.tentec.net

Custom Tensioners
Available on Request.

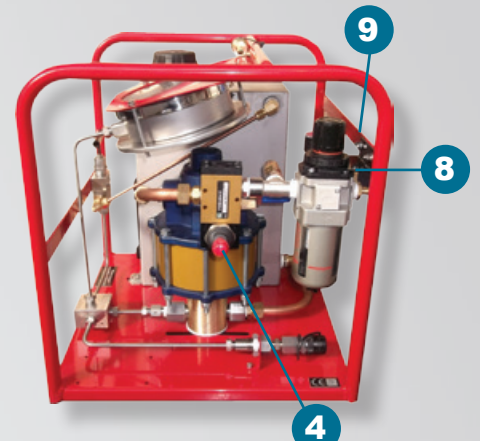
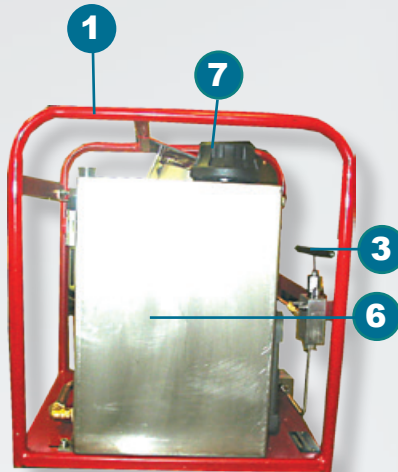
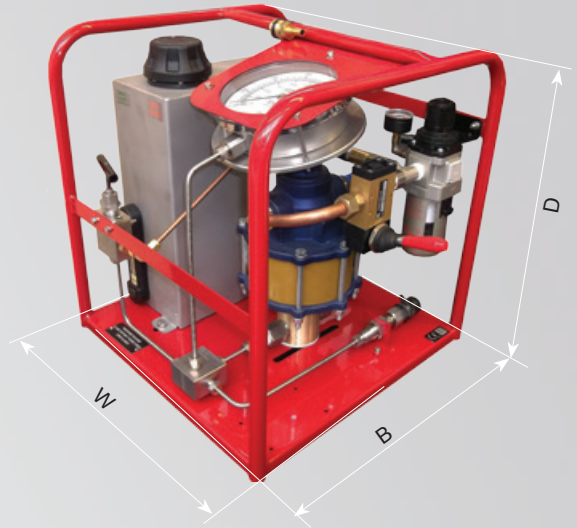
Hydraulic Ancillary Equipment

Bolt Tightening Solutions



Tensioner Air Driven Pump Unit

Tentec air operated tensioner pump units are designed and constructed to be failsafe, user friendly, lightweight and compact. They work on a simple but efficient principle, power is magnified through differential piston areas. A large pneumatic piston drives a smaller hydraulic piston, which provides fluid flow at high pressure. Pump assemblies can be supplied in many combinations, a choice of air motors and pressure gauges are available to ensure that the correct assembly is specified to meet the bolt tensioning requirements.



Part Identifier

- 1 - Frame
- 2 - Oil outlet, female quick release coupling
- 3 - Pressure release valve
- 4 - Safety On/Off Valve
- 5 - Pump Unit
- 6 - Oil Reservoir
- 7 - Filler cap
- 8 - Air Inlet
- 9 - Air pressure gauge
- 10 - Pressure Gauge

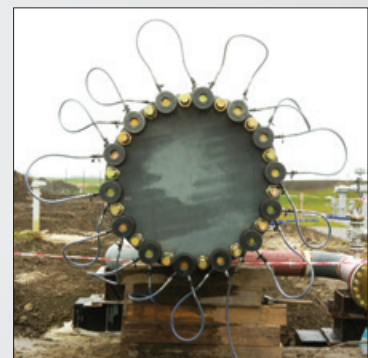
Why use Air Driven Liquid Pumps?

- Hydraulic pressure is held without energy consumption
- Explosion Proof, requires no electrical power or connections.
- Intrinsically Safe
- Compact and lightweight
- Contamination tolerant
- Outlet stall pressure predetermined by the air drive regulator
- Ideal for stop start applications under full load
- Easy to install and operate



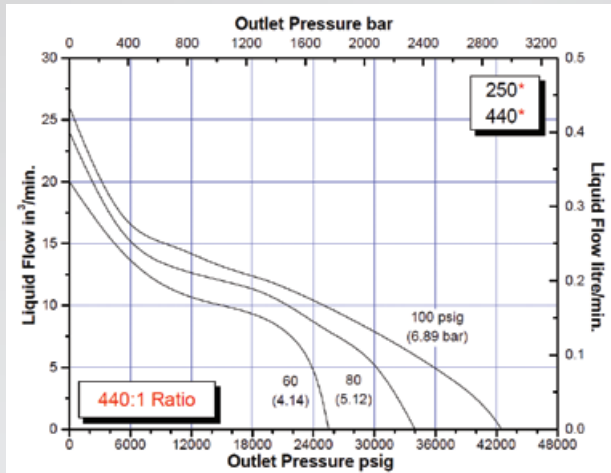
Model	Max Working Pressure		Model Ratio	Hydraulic Piston Diameter		Hydraulic Piston Area		Volume per Stroke		Gauge Model	Air Consumption	Weight (Empty)	W	B	D	Reservoir Capacity
	bar	psi		mm	In	mm ²	In ²	mm ³	In ³							
HTT.6271	1500	21750	440	6.35	0.25	31.61	0.049	999.6	0.061	0-25000	28	23	42	42	46	9
HTT.6272	2275	33000	440	6.35	0.25	31.61	0.049	999.6	0.061	0-40000	28	23	42	42	46	9
Hi-Flow HTT.6978	1500	21750	740	6.35	0.25	31.61	0.049	2015.6	0.123	0-25000	56	25	42	42	60	9
Hi-Flow HTT.9384	2275	33000	740	6.35	0.25	31.61	0.049	2015.6	0.123	0-40000	56	25	42	42	60	9

Model	Air Pressure (psi)									
	10	20	30	40	50	60	70	80	90	100
HTT.6271	5000	8000	12500	16500	21000	25500	30000	34000	38000	42500
HTT.6272	5000	8000	12500	16500	21000	25500	30000	34000	38000	42500
Hi-Flow HTT.6978	6000	13000	21000	27000	34000	40500	46000	52000	59000	65000
Hi-Flow HTT.9384	6000	13000	21000	27000	34000	40500	46000	52000	59000	65000
	Output Pressure psi									

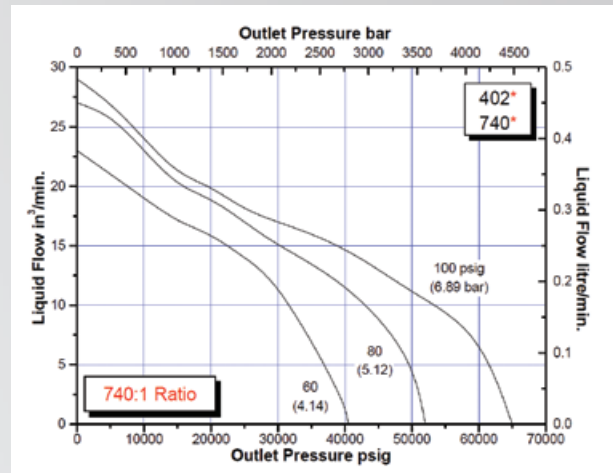


Approximate Rate of Discharge

Model: HTT.6271 & HTT.6272



Model: HTT.6978 & HTT.9384



Recommended Oil

ISO Grade 10, 32 and 68

Example: Shell Morlina oil 10

Safety On/Off Valve

The pump unit is fitted with a safety on off valve. The spring loaded valve defaults to off when the valve handle is untouched. Holding the valve handle in the down position turns the pump On. Releasing the handle turns the pump off.

Tensioner Hand Operated Pump Unit

- Light weight and compact design
- Two speed operation reduces handle strokes by as much as 75% over single speed pumps.
- Lower Handle effort to minimize operator fatigue
- Handle Lock and light weight construction for easy handling
- Large oil capacity to power a wide range of bolt tensioners.
- Fitted with compact pressure Gauge.
- Fitted with Quick Release Female Connection



Model Number	Max Working Pressure	Tank Capacity	Displacement per Stroke. Low Pressure	Displacement per Stroke. High Pressure	Effort	A	B	C
	Bar	L	cm3	cm3	N	mm	mm	mm
HTT.2065	1500	1.5	12.5	0.75	380	600	170	170
HTT.2122	2275	2	20	1	380	680	190	225



Manual pressure release valve



High Pressure gauge



Hand Pump is fitted with an high pressure female coupling



Portable Hand Operated Pump Unit.

Hydraulic Link Hose

The Tentec Link Hose system is the quick and easy way to connect multiple or single bolt tensioning tools to a power pack pump. The high quality flexible hose is fitted with suitable male and female quick release hydraulic connections that makes linking bolt tensioning tools a very rapid and intuitive task. Tentec Link Hoses are supplied in 1m, 1.3m, 1.5m, 2m, 2.5m & 3m lengths. Other lengths are available on request.

Features:

- High pressure rating
- Compact design
- Unique patented sealing design
- Non-Drip on connection and disconnection
- Dust caps included as standard

1500bar Hydraulic Link Hose

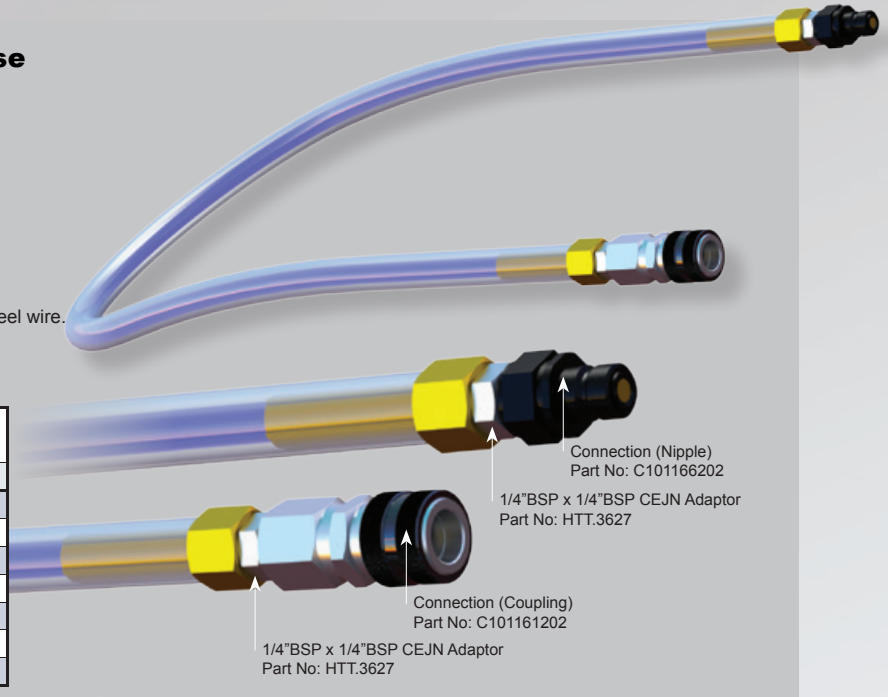
Quick Release End Connections

Nominal flow dia.: 2.5 mm - 3/32"
Working pressure: 21750 PSI (1500 bar)
Connections: Female/male thread, with adapter
Material: Coupling: Black zinc plated steel
Nipple: Black zinc plated steel

Hose Specification

Working pressure: 21750 PSI (1500 bar)
Connections: Female thread swivel 1/4"BSP
Material: Four spiral layers of maximum tensile steel wire.
Cover: Polyamide, Blue
Min Bend Radius: 155mm
Temperature Range: -10°C to +70°C for water

Link Hose Length	Part No	Link Hose Length	Part No
m		m	
0.7	HTT.4425.070	3.5	HTT.4425.350
1	HTT.4425.100	4	HTT.4425.400
1.3	HTT.4425.130	5	HTT.4425.500
1.5	HTT.4425.150	6	HTT.4425.600
2	HTT.4425.200	7	HTT.4425.700
2.5	HTT.4425.250	8	HTT.4425.800
3	HTT.4425.300	9	HTT.4425.900



2275bar Hydraulic Link Hose

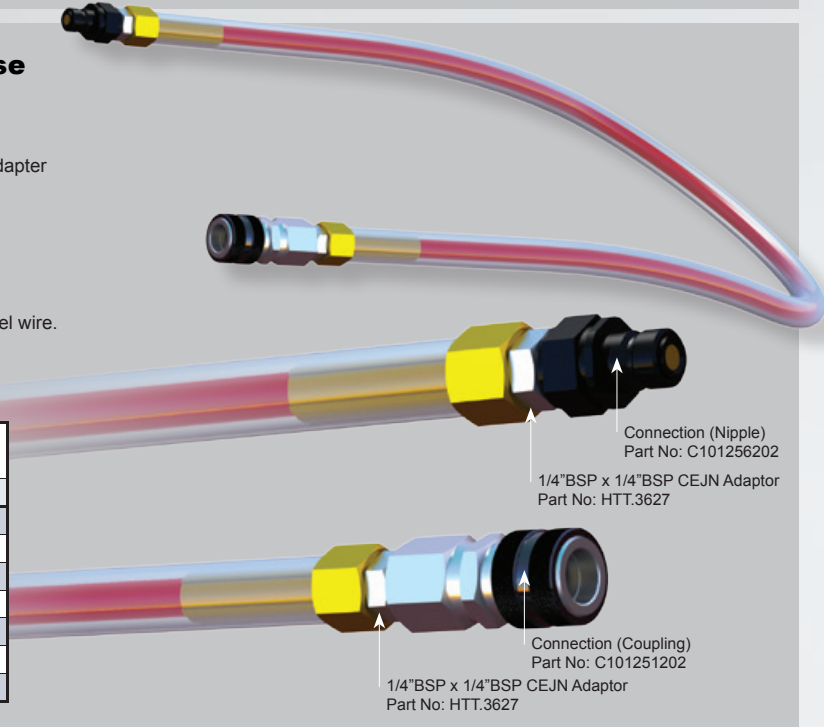
Quick Release End Connections

Nominal flow dia.: 2.5 mm - 3/32"
Working pressure: 33000 PSI - 2275 bar
Connections: Female thread /male thread, with adapter
Material: Coupling: Black zinc plated steel
Nipple: Black zinc plated steel

Hose Specification

Working pressure: 33000 PSI (2275 bar)
Connections: Female thread swivel 1/4"BSP
Material: Six spiral layers of maximum tensile steel wire.
Cover: Polyamide, Red
Min Bend Radius: 175mm
Temperature Range: -10°C to +70°C for water

Link Hose Length	Part No	Link Hose Length	Part No
m		m	
0.7	HTT.4444.070	3.5	HTT.4444.350
1	HTT.4444.100	4	HTT.4444.400
1.3	HTT.4444.130	5	HTT.4444.500
1.5	HTT.4444.150	6	HTT.4444.600
2	HTT.4444.200	7	HTT.4444.700
2.5	HTT.4444.250	8	HTT.4444.800
3	HTT.4444.300	9	HTT.4444.900



Tentec products are subject to continual development and we reserve the right to make changes in the specification and design of products without prior notice.



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