

THE **DBS SERIES** HYDRAULIC BOLT TENSIONERS WILL ENSURE UNIFORMED GASKET COMPRESSION.

Compression is essential for the integrity of critical bolted flange connections. Unlike a torque wrench, the DBS Series Bolt Tensioners are capable of tightening more than one bolt at a time and can apply a consistent torque via direct axial stretching to any given number of bolts simultaneously. These tensioners have been designed to fit all standard ANSI & API flanges with quick release bridge incorporating hexagon socket for a fast change over. There are 9 load cells with a bolt size range from M20 to M115 or 3/4" to 4-1/2" 8UN and they are light and easily handled. All load cells are electroless nickel plated for extra protection and are easily maintained.



DBS-7

DBS-4

MULTIPLE SIZE

thread adaptors per load cell

ANTI-SLIP FINISH

provides grip for better handling

DUAL PORTS

allow quick coupling of multiple tools

RETURN SPRING

for faster retraction

REMOVABLE AND ROTATIONAL BRIDGE

with full bridge window to simplify positioning

ELECTROLESS NICKEL PLATED

for extra protection

PISTON STROKE INDICATOR

for over stroke prevention

RELIEF VALVE

to prevent over-stroke

DYNAMIC BRIDGE SIZING

for each load cell

MULTIPLE SIZES

for hex sockets per load cell



CAPACITY RANGE

160 - 4,100 kN

STROKE RANGE

8 - 10 mm

BOLT RANGE

**3/4" - 4-1/2" or
M20 - M115**

MAXIMUM OPERATING PRESSURE

1,500 bar

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BOLTING SOLUTIONS

Model	DBS-0	DBS-1	DBS-2	DBS-3	DBS-4	DBS-5	DBS-6	DBS-7	DBS-8
Metric Bolt Dimensions (Ø * pitch)	M20x2.5	M24x3	M24x3	M33x3.5	M39x4	M52x5.5	M72x6	M90x6	M105x6
	M22x2.5	M27x3	M27x3	M36x4	M42x4.5	M56x5.5	M76x6	M95x6	M110x6
			M30x3.5	M39x4	M45x5	M60x5.5	M80x6	M100x6	M115x6
			M33x3.5	M42x4.5	M48x5	M64x6	M85x6		
			M36x4			M68x6	M90x6		
						M70x6			
Imperial Threads (Ø in-)	3/4" 10UN	1" 8UN	1" 8UN	1 1/4" 8UN	1 1/2" 8UN	2" 8UN	2 3/4" 8UN	3 1/2" 8UN	4" 8UN
	7/8" 9UN	1 1/8" 8UN	1 1/8" 8UN	1 3/8" 8UN	1 5/8" 8UN	2 1/4" 8UN	3" 8UN	3 3/4" 8UN	4-1/4" 8UN
			1 1/4" 8UN	1 1/2" 8UN	1 3/4" 8UN	2 1/2" 8UN	3 1/4" 8UN	4" 8UN	4-1/2" 8UN
			1 3/8" 8UN	1 5/8" 8UN	1 7/8" 8UN	2 3/4" 8UN	3 1/2" 8UN		
					2" 8UN				
Maximum Pressure (bar)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Effective Area (mm²)	1,067	1,867	3,003	4,400	6,669	10,002	16,670	21,336	27,336
Maximum Force (kN)	160	280	450	660	1,000	1,500	2,500	3,200	4,100
Maximum Piston Stroke (mm)	8	10	10	10	10	10	10	10	10
Retraction Type	Manual	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Load Cell Weight (kg)	1.5	2.1	3.3	4.1	7.2	9.3	14.4	19.2	28.0
Approx. Thread Adaptor Kit (kg)	1.0	1.6	2.2	3.4	4.3	9.2	18.6	27.8	35.5
Approx. Total Weight (kg)	2.5	3.7	5.5	7.5	11.5	18.5	33.0	47.0	63.5

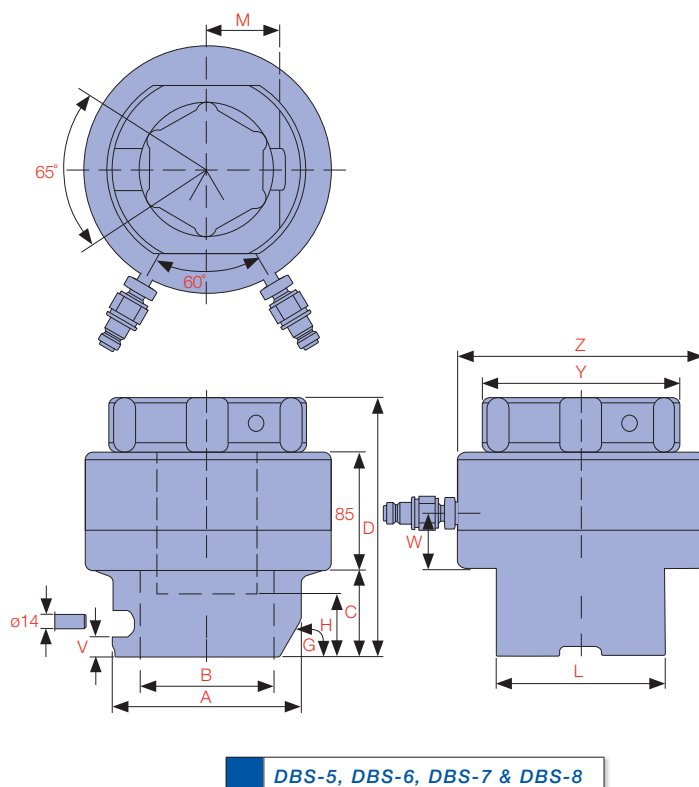
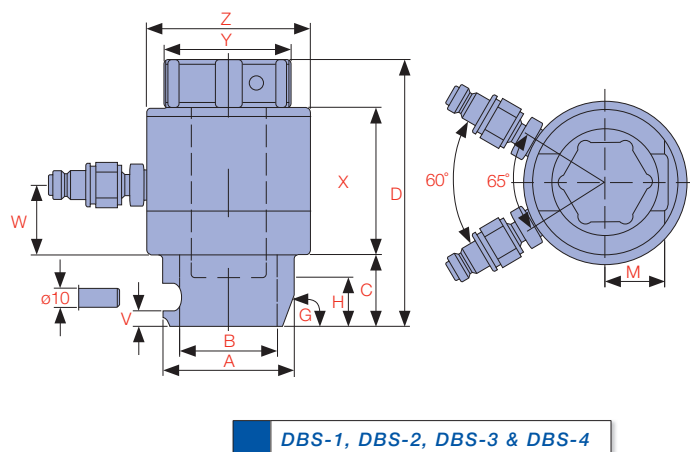
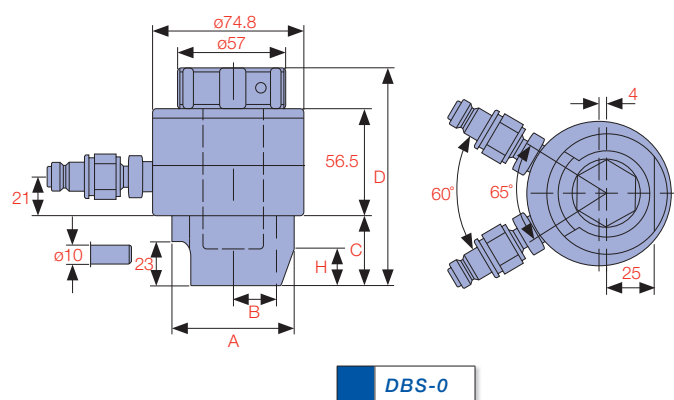
HYDRAULIC BOLT TENSIONERS

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BOLTING SOLUTIONS

Model	Max. Pressure (bar)	Max. Load Capacity (kN)	Max. Stroke (mm)	Effective Area (mm²)	Thread Specification	A/F Nut Size	A (mm)	B (mm)	C (mm)	D (mm)	G°	H (mm)	L (mm)
DBS-0	1,500	160	8	1,067	M20x2.5	30	63.0	45.0	36.0	113.5	70.0	19.0	-
					M22x2.5	32	63.0	45.0	36.0	113.5	70.0	21.0	-
					3/4" 10UN	1-1/4"	63.0	45.0	36.0	113.5	70.0	22.0	-
					7/8" 9UN	1-7/16"	63.0	45.0	36.0	113.5	70.0	25.0	-
DBS-1	1,500	280	10	1,867	M24x3	36	68.0	50.5	38.0	141.5	70.0	23.0	-
					M27x3	41	68.0	50.5	38.0	141.5	70.0	26.0	-
					1" 8UN	1-5/8"	68.0	50.5	38.0	141.5	70.0	30.0	-
					1-1/8" 8UN	1-13/16"	76.0	50.5	41.0	144.5	70.0	33.0	-
DBS-2	1,500	450	10	3,003	M24x3	36	75.0	50.5	38.0	141.5	60.0	23.0	-
					M27x3	41	75.0	50.5	38.0	141.5	60.0	26.0	-
					M30x3.5	46	80.0	50.5	41.0	144.5	60.0	28.0	-
					M33x3.5	50	84.0	62.0	44.0	147.5	70.0	30.0	-
					M36x4	55	88.5	67.0	47.0	150.5	63.0	33.0	-
					1" 8UN	1-5/8"	75.0	50.5	38.0	141.5	60.0	30.0	-
					1-1/8" 8UN	1-13/16"	80.0	55.5	41.0	144.5	60.0	33.0	-
					1-1/4" 8UN	2"	84.0	62.0	44.0	147.5	70.0	36.0	-
DBS-3	1,500	660	10	4,400	1-3/8" 8UN	2-3/16"	88.5	67.5	47.0	150.5	63.0	39.0	-
					M33x3.5	50	92.0	62.0	44.0	149.5	65.0	30.0	-
					M36x4	55	96.0	67.5	47.0	152.5	63.0	33.0	-
					M39x4	60	105.0	73.5	50.5	156.0	68.0	35.5	-
					M42x4.5	65	104.5	79.0	53.5	159.0	59.0	38.0	-
					1-1/4" 8UN	2"	92.0	62.0	44.0	149.5	65.0	36.0	-
					1-3/8" 8UN	2-3/16"	96.0	67.5	47.0	152.5	63.0	39.0	-
					1-1/2" 8UN	2-3/8"	105.0	73.5	50.5	156.0	68.0	42.5	-
DBS-4	1,500	1,000	10	6,669	1-5/8" 8UN	2-9/16"	104.5	79.0	53.5	159.0	59.0	45.5	-
					M39x4	60	112.0	73.0	50.5	163.5	64.0	35.5	-
					M42x4.5	65	114.0	79.0	53.5	166.5	67.0	38.0	-
					M45x4.5	70	126.0	84.5	57.0	170.0	69.0	40.0	-
					M48x5	75	123.0	89.5	60.0	173.0	68.0	42.0	-
					1-1/2" 8UN	2-3/8"	112.0	73.0	50.5	163.5	64.0	42.5	-
					1-5/8" 8UN	2-9/16"	114.0	79.0	53.5	166.5	67.0	45.5	-
					1-3/4" 8UN	2-3/4"	126.0	84.5	57.0	170.0	69.0	49.0	-
DBS-5	1,500	1,500	10	10,002	1-7/8" 8UN	2-15/16"	123.0	89.5	60.0	173.0	68.0	52.0	-
					2" 8UN	3-1/8"	128.0	95.5	63.0	176.0	61.0	55.0	-
					M52x5	80	134.0	95.5	63.0	187.0	61.0	46.0	120.0
					M56x5.5	85	148.0	106.5	69.5	193.5	60.0	49.0	138.0
					M60x5.5	90	148.0	106.5	69.5	193.5	60.0	52.0	138.0
					M64x6	95	153.0	118.0	76.0	200.0	60.0	55.0	138.0
					M68x6	100	153.0	118.0	76.0	200.0	60.0	58.0	138.0
					M70x6	102	153.0	118.0	76.0	200.0	60.0	58.0	138.0
DBS-6	1,500	2,500	10	16,670	2" 8UN	3-1/8"	134.0	95.5	63.0	187.0	61.0	55.0	120.0
					2-1/4" 8UN	3-1/2"	148.0	106.5	69.5	193.5	60.0	61.5	138.0
					2-1/2" 8UN	3-7/8"	153.0	118.0	76.0	200.0	60.0	68.0	138.0
					2-3/4" 8UN	4-1/4"	165.0	129.5	82.0	206.0	60.0	74.0	156.0
					M72x6	105	172.0	129.5	82.0	216.0	60.0	62.0	157.0
					M76x6	110	182.0	140.0	89.0	223.0	64.0	65.0	157.0
					M80x6	115	182.0	140.0	89.0	223.0	64.0	68.0	157.0
					M85x6	121	190.0	151.0	95.0	229.0	60.0	72.0	157.0
DBS-7	1,500	3,200	10	21,336	M90x6	130	205.0	163.0	101.0	235.0	60.0	76.0	157.0
					2-3/4" 8UN	4-1/4"	172.0	129.5	82.0	216.0	60.0	74.0	157.0
					3" 8UN	4-5/8"	182.0	140.0	89.0	223.0	64.0	81.0	157.0
					3-1/4" 8UN	5"	190.0	151.0	95.0	229.0	60.0	87.0	157.0
					3-1/2" 8UN	5-3/8"	205.0	163.0	101.0	235.0	60.0	93.0	157.0
					M95x6	135	230.0	163.0	101.0	241.0	60.0	80.0	200.0
DBS-8	1,500	4,100	10	27,336	M100x6	146	235.0	174.0	107.0	247.0	60.0	84.0	200.0
					3-1/2" 8UN	5-3/8"	230.0	163.0	101.0	241.0	60.0	93.0	200.0
					3-3/4" 8UN	5-3/4"	235.0	174.0	107.0	247.0	60.0	99.0	200.0
					4" 8UN	6-1/8"	242.0	185.0	114.0	254.0	60.0	106.0	210.0
					M105x6	150	255.0	185.0	114.0	264.0	60.0	88.0	210.0
					M110x6	155	255.0	185.0	114.0	264.0	60.0	92.0	210.0
DBS-9	1,500	4,100	10	27,336	M115x6	165	260.0	197.0	120.0	270.0	60.0	96.0	224.0
					4" 8UN	6-1/8"	255.0	185.0	114.0	264.0	60.0	106.0	210.0
					4-1/4" 8UN	6-1/2"	260.0	197.0	120.0	270.0	60.0	112.0	224.0
					4-1/2" 8UN	6-7/8"	270.0	207.0	127.0	277.0	60.0	119.0	232.0

M (mm)	V (mm)	W (mm)	X (mm)	Y Ø (mm)	Z Ø (mm)	Tommy Bar Ø (mm)
25.0	-	-	-	-	-	10.0
25.0	-	-	-	-	-	10.0
25.0	-	-	-	-	-	10.0
25.0	-	-	-	-	-	10.0
31.0	8.8	37.5	78.5	67.0	85.0	10.0
31.0	8.8	37.5	78.5	67.0	85.0	10.0
31.0	8.8	37.5	78.5	67.0	85.0	10.0
31.0	8.8	37.5	78.5	67.0	85.0	10.0
30.0	11.8	37.5	78.5	82.0	103.0	10.0
30.0	11.8	37.5	78.5	82.0	103.0	10.0
30.0	11.8	37.5	78.5	82.0	103.0	10.0
35.0	11.8	37.5	78.5	82.0	103.0	10.0
35.0	11.8	37.5	78.5	82.0	103.0	10.0
30.0	11.8	37.5	78.5	82.0	103.0	10.0
30.0	11.8	37.5	78.5	82.0	103.0	10.0
35.0	11.8	37.5	78.5	82.0	103.0	10.0
38.0	11.8	37.5	78.5	82.0	103.0	10.0
35.0	12.75	37.5	78.5	96.0	118.0	10.0
38.0	12.75	37.5	78.5	96.0	118.0	10.0
42.0	12.75	37.5	78.5	96.0	118.0	10.0
41.0	12.75	37.5	78.5	96.0	118.0	10.0
35.0	12.75	37.5	78.5	96.0	118.0	10.0
38.0	12.75	37.5	78.5	96.0	118.0	10.0
42.0	12.75	37.5	78.5	96.0	118.0	10.0
41.0	12.75	37.5	78.5	96.0	118.0	10.0
42.0	12.75	40.0	81.0	110.0	140.5	10.0
45.0	12.75	40.0	81.0	110.0	140.5	10.0
52.0	12.75	40.0	81.0	110.0	140.5	10.0
51.0	12.75	40.0	81.0	110.0	140.5	10.0
42.0	12.75	40.0	81.0	110.0	140.5	10.0
45.0	12.75	40.0	81.0	110.0	140.5	10.0
52.0	12.75	40.0	81.0	110.0	140.5	10.0
51.0	12.75	40.0	81.0	110.0	140.5	10.0
52.0	12.75	40.0	81.0	110.0	140.5	10.0
52.0	14.5	41.0	85.0	140.0	175.5	14.0
58.0	14.5	41.0	85.0	140.0	175.5	14.0
58.0	14.5	41.0	85.0	140.0	175.5	14.0
63.0	14.5	41.0	85.0	140.0	175.5	14.0
63.0	14.5	41.0	85.0	140.0	175.5	14.0
63.0	14.5	41.0	85.0	140.0	175.5	14.0
52.0	14.5	41.0	85.0	140.0	175.5	14.0
58.0	14.5	41.0	85.0	140.0	175.5	14.0
63.0	14.5	41.0	85.0	140.0	175.5	14.0
70.0	14.5	41.0	85.0	140.0	175.5	14.0
72.0	14.5	41.0	85.0	180.0	219.0	14.0
80.0	14.5	41.0	85.0	180.0	219.0	14.0
80.0	14.5	41.0	85.0	180.0	219.0	14.0
84.0	14.5	41.0	85.0	180.0	219.0	14.0
88.0	14.5	41.0	85.0	180.0	219.0	14.0
72.0	14.5	41.0	85.0	180.0	219.0	14.0
80.0	14.5	41.0	85.0	180.0	219.0	14.0
84.0	14.5	41.0	85.0	180.0	219.0	14.0
88.0	14.5	41.0	85.0	180.0	219.0	14.0
88.0	45.0	41.0	85.0	200.0	252.0	14.0
88.0	45.0	41.0	85.0	200.0	252.0	14.0
94.0	45.0	41.0	85.0	200.0	252.0	14.0
88.0	45.0	41.0	85.0	200.0	252.0	14.0
94.0	45.0	41.0	85.0	200.0	252.0	14.0
114.0	45.0	41.0	85.0	200.0	252.0	14.0
114.0	45.0	41.0	85.0	218.0	283.0	14.0
114.0	45.0	41.0	85.0	218.0	283.0	14.0
114.0	45.0	41.0	85.0	218.0	283.0	14.0
114.0	45.0	41.0	85.0	218.0	283.0	14.0
114.0	45.0	41.0	85.0	218.0	283.0	14.0
117.0	45.0	41.0	85.0	218.0	283.0	14.0





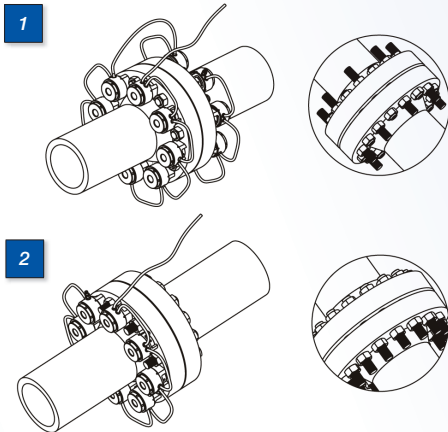
How to order...

For greater flexibility Tension Adaptor Kits are ordered separately

- 1) Select appropriate Load Cell
- 2) Select appropriate Tension Adaptor Kit based on bolt diameter and A/F size of nut
- 3) Create order for complete unit e.g.
1 x DBS-4 Load Cell
1 x DBS4-M42x4.5 Tension Adaptor Kit

Metric - Tension Adaptor Kit Sizing

Bolt Diameter (mm)	A/F Nut Size	DBS-0	DBS-1	DBS-2	DBS-3	DBS-4	DBS-5	DBS-6	DBS-7	DBS-8
		160 kN	280 kN	450 kN	660 kN	1,000 kN	1,500 kN	2,500 kN	3,200 kN	4,100 kN
M20x2.5	30	M20x2.5 (30)								
M22x2.5	32	M22x2.5 (32)								
M24x3	36		M24x3 (36)	M24x3 (36)						
M27x3	41		M27x3 (41)	M27x3 (41)						
M30x3.5	46			M30x3.5 (46)						
M33x3.5	50			M33x3.5 (50)	M33x3.5 (50)					
M36x4	55			M36x4 (55)	M36x4 (55)					
M39x4	60				M39x4 (60)	M39x4 (60)				
M42x4.5	65				M42x4.5 (65)	M42x4.5 (65)				
M45x5	70					M45x4.5 (70)				
M48x5	75					M48x5 (75)				
M52x5.5	80						M52x5 (80)			
M56x5.5	85						M56x5.5 (85)			
M60x5.5	90						M60x5.5 (90)			
M64x6	95						M64x6 (95)			
M68x6	100						M68x6 (100)			
M70x6	100						M70x6 (100)			
M72x6	105							M72x6 (105)		
M76x6	110							M76x6 (110)		
M80x6	115							M80x6 (115)		
M85x6	120							M85x6 (120)		
M90x6	130							M90x6 (130)	M90x6 (130)	
M95x6	135								M95x6 (135)	
M100x6	145								M100x6 (145)	
M105x6	150									M105x6 (150)
M110x6	155									M110x6 (155)
M115x6	165									M115x6 (165)



Tensioning

Not all applications allow for the simultaneous fit of a tensioning device on each bolt, in these cases at least two tensioning pressures are applied

- 1) Setup using a 100% tensioning procedure
- 2) Setup using a 50% tensioning procedure

The Manufacturers' rating of pressure and torque are maximum safe limits. It's good practice to use only 80% of these ratings

Imperial - Tension Adaptor Kit Sizing

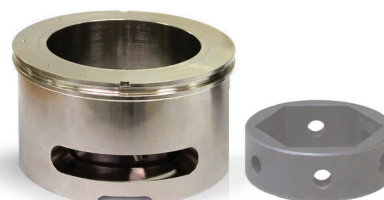
Bolt Diameter (inch)	A/F Nut Size	DBS-0	DBS-1	DBS-2	DBS-3	DBS-4	DBS-5	DBS-6	DBS-7	DBS-8
		160 kN	280 kN	450 kN	660 kN	1,000 kN	1,500 kN	2,500 kN	3,200 kN	4,100 kN
3/4" 10UN	1-1/4"	3/4" 10UN (1-1/4")								
7/8" 9UN	1-7/16"	7/8" 9UN (1-7/16")								
1" 8UN	1-5/8"		1" 8UN (1-5/8")	1" 8UN (1-5/8")						
1 1/8" 8UN	1-13/16"		1 1/8" 8UN (1-13/16")	1 1/8" 8UN (1-13/16")						
1 1/4" 8UN	2"			1 1/4" 8UN (2")	1 1/4" 8UN (2")					
1 3/8" 8UN	2-3/16"			1 3/8" 8UN (2-3/16")	1 3/8" 8UN (2-3/16")					
1 1/2" 8UN	2-3/8"				1 1/2" 8UN (2-3/8")	1 1/2" 8UN (2-3/8")				
1 5/8" 8UN	2-9/16"				1 5/8" 8UN (2-9/16")	1 5/8" 8UN (2-9/16")				
1 3/4" 8UN	2-3/4"					1 3/4" 8UN (2-3/4")				
1 7/8" 8UN	2-15/16"					1 7/8" 8UN (2-15/16")				
2" 8UN	3-1/8"					2" 8UN (3-1/8")	2" 8UN (3-1/8")			
2 1/4" 8UN	3-1/2"						2 1/4" 8UN (3-1/2")			
2 1/2" 8UN	3-7/8"						2 1/2" 8UN (3-7/8")			
2 3/4" 8UN	4-1/4"						2 3/4" 8UN (4-1/4")	2 3/4" 8UN (4-1/4")		
3" 8UN	4-5/8"							3" 8UN (4-5/8")		
3 1/4" 8UN	5"							3 1/4" 8UN (5")		
3 1/2" 8UN	5-3/8"							3 1/2" 8UN (5-3/8")	3 1/2" 8UN (5-3/8")	
3 3/4" 8UN	5-3/4"								3 3/4" 8UN (5-3/4")	
4" 8UN	6-1/8"								4" 8UN (6-1/8")	4" 8UN (6-1/8")
4-1/4" 8UN	6-1/2"									4-1/4" 8UN (6-1/2")
4-1/2" 8UN	6-7/8"									4-1/2" 8UN (6-7/8")

THREAD ADAPTOR

LOAD CELL

BRIDGE AND SOCKET

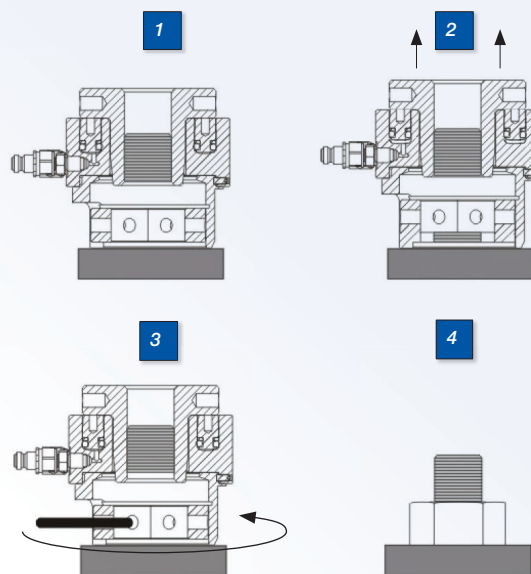
CROSS SECTIONAL





Tensioner Instructions

- 1) The bolt tensioner is fitted over the stud
- 2) Hydraulic pressure is applied to the tensioner which then stretches the stud
- 3) The stud's nut is wound down against the joint face
- 4) Pressure is released and the tool removed



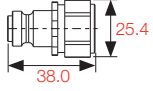
Pressure (bar)	DBS-0 kN	DBS-1 kN	DBS-2 kN	DBS-3 kN	DBS-4 kN	DBS-5 kN	DBS-6 kN	DBS-7 kN	DBS-8 kN	Pressure (psi)
100	1,067	1,867	3,003	4,400	6,669	10,002	16,670	21,336	27,336	1,450
200	2,134	3,734	6,006	8,800	13,338	20,004	33,340	42,672	54,672	2,901
300	3,201	5,601	9,009	13,200	20,007	30,006	50,010	64,008	82,008	4,351
400	4,268	7,468	12,012	17,600	26,676	40,008	66,680	85,344	109,344	5,801
500	5,335	9,335	15,015	22,000	33,345	50,010	83,350	106,680	136,680	7,252
600	6,402	11,202	18,018	26,400	40,014	60,012	100,020	128,016	164,016	8,702
700	7,469	13,069	21,021	30,800	46,683	70,014	116,690	149,352	191,352	10,152
800	8,536	14,936	24,024	35,200	53,352	80,016	133,360	170,688	218,688	11,603
900	9,603	16,803	27,027	39,600	60,021	90,018	150,030	192,024	246,024	13,053
1,000	10,670	18,670	30,030	44,000	66,690	100,020	166,700	213,360	273,360	14,503
1,100	11,737	20,537	33,033	48,400	73,359	110,022	183,370	234,696	300,696	15,954
1,200	12,804	22,404	36,036	52,800	80,028	120,024	200,040	256,032	328,032	17,404
1,300	13,871	24,271	39,039	57,200	86,697	130,026	216,710	277,368	355,368	18,854
1,400	14,938	26,138	42,042	61,600	93,366	140,028	233,380	298,704	382,704	20,305
1,500	16,005	28,005	45,045	66,000	100,035	150,030	250,050	320,040	410,040	21,755

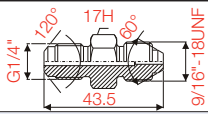
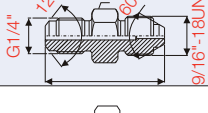
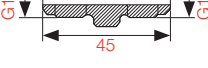
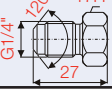


The DBTP-1500K is made up of P-2100H Hand Pump, FGA-2 Gauge Adaptor and PG-100-40K Pressure Gauge. This kit is ideal for single stud or small to medium bolt tensioning applications



High Pressure Accessories for use with DBTP-1500K

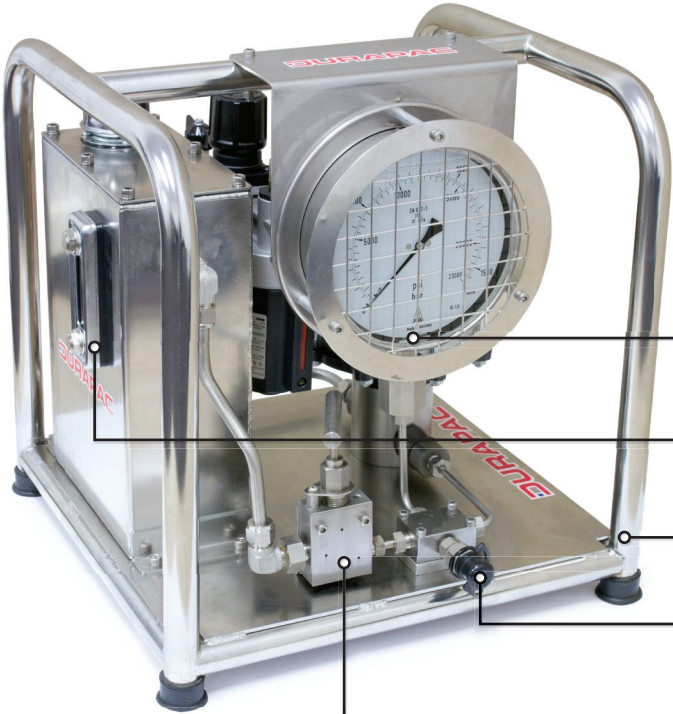
Model Number	Dimensions (mm)	Description	Dimensions
 DBT116M Quick Release Nipple		Max. W.P. 150 MPa Min. B.P. 300 MPa	Connect: G1/4" Weight: 60 g Rec. Torque: 40 - 50 Nm Hexagon key handle: 22
 DBT116F Quick Release Coupler		Max. W.P. 150 MPa Min. B.P. 300 MPa	Connect: G1/4" Weight: 165 g Rec. Torque: 40 - 50 Nm Hexagon key handle: 24

Model Number	Dimensions (mm)	End One	End Two
DBT14129166I WP 250 MPA		G1/4" male thread with 120° external cone	9/16"-18UNF male thread with 60° external cone
DBT14129166E WP 300 MPA		G1/4" male thread with 120° external cone	9/16"-18UNF male thread with 60° external cone
DBT14121412E WP 300 MPA		G1/4" male thread with 120° external cone	G1/4" male thread with 120° external cone
DBT1412SP		G1/4" male thread with 120° external cone	—

Model Number	Description	End One	End Two
 DBTH-05A*	Inner core: Polyoxymethylene (POM) Outer cover: Polyamide (PA) 4 layers of high-tensile steel wire Inside Diameter: 5.0 mm, Outside Diameter: 11.2 mm Working Pressure: 1,800 bar, Burst Pressure: 4,500 bar Minimum Bend Radius: 150 mm Weight: 0.26 kg/M	G1/4" Male	G1/4" Male

* Confirm hose length in metres when ordering

PAMH1514 - Front View



LIQUID FILLED PRESSURE GAUGE

range is 0-1,600 bar / 0-23,000 psi

SIGHT GLASS

incorporating a temperature gauge

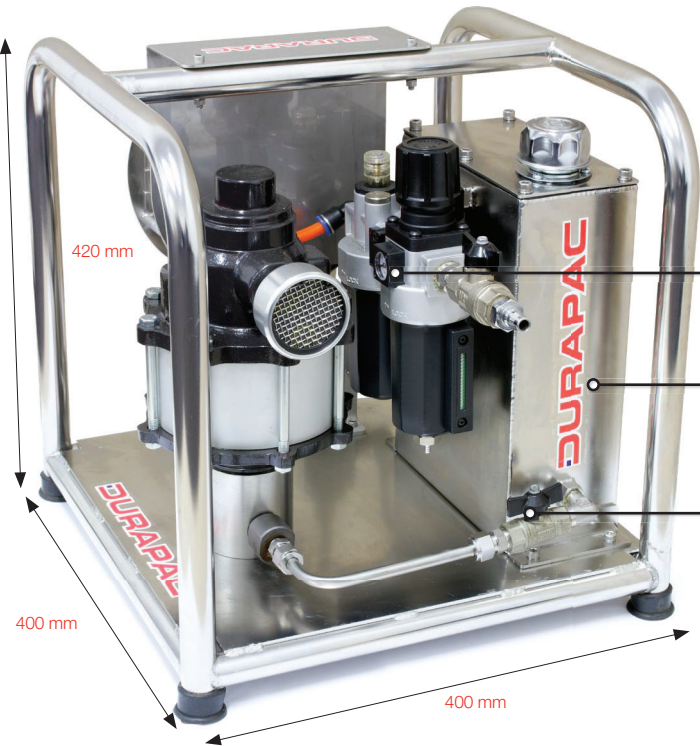
STAINLESS STEEL BASE AND FRAME

resists corrosion and allows for easy handling

OIL OUTLET

fitted with a 1/4" DBT116M quick release nipple

PRESSURE RELEASE VALVE



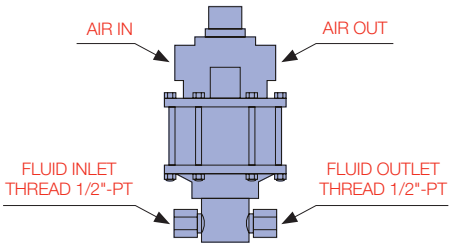
FILTER, REGULATOR & LUBRICATOR WITH GAUGE

are supplied on the air inlet

STAINLESS STEEL RESERVOIR

5.6 L of usable oil

RESERVOIR ON/OFF VALVE

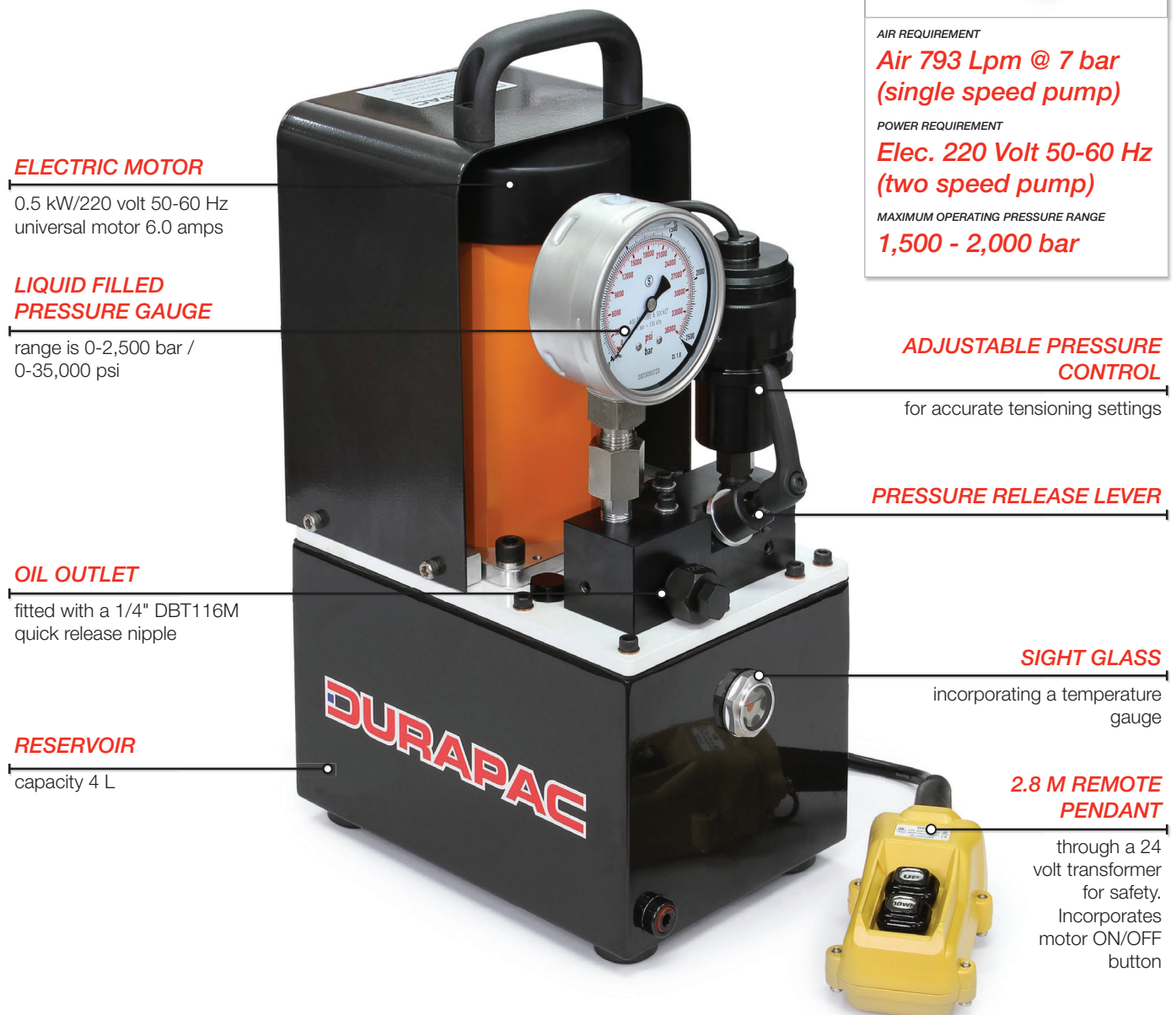


PAMH1514 - Rear View

Model Number	Used with Cylinder	Max. Pressure Rating (bar)	Compression Ratio	Oil Flow (cm³/stroke)	Air Pressure Range (bar)	Air Consumption (Lpm)	Oil Port Thread	Oil Capacity (L)	Dry Weight (kg)	Dimension W x L x H (mm)
PAMH1514	S/A	1,500	1:310	1.2	5-7	793	G 1/4"	5.6	25	400 x 400 x 420

THE **PEMH-SERIES** POWER UNIT IS DESIGNED TO BE COMPATIBLE WITH DURAPAC'S DBS-SERIES BOLT TENSIONERS OPERATING AT 1,500 BAR.

The PEMH0543-2K model operates up to 2,000 bar and is ideal for testing and bolting applications requiring a higher working pressure.



ELECTRIC MOTOR

0.5 kW/220 volt 50-60 Hz
universal motor 6.0 amps

LIQUID FILLED PRESSURE GAUGE

range is 0-2,500 bar /
0-35,000 psi

OIL OUTLET

fitted with a 1/4" DBT116M
quick release nipple

RESERVOIR

capacity 4 L

AIR REQUIREMENT

**Air 793 Lpm @ 7 bar
(single speed pump)**

POWER REQUIREMENT

**Elec. 220 Volt 50-60 Hz
(two speed pump)**

MAXIMUM OPERATING PRESSURE RANGE

1,500 - 2,000 bar

ADJUSTABLE PRESSURE CONTROL

for accurate tensioning settings

PRESSURE RELEASE LEVER

SIGHT GLASS

incorporating a temperature
gauge

2.8 M REMOTE PENDANT

through a 24
volt transformer
for safety.
Incorporates
motor ON/OFF
button

Model Number	Motor (kW)	Voltage† (1 Ph.)	Hz	Amps	Usable Oil Capacity (L)	Max. Pressure Rating (MPR) bar	Flow Rate (Lpm)		Remote Pendant Function 2.8 M	Weight (kg)	Dimension W x L x H (mm)
							30 bar	MPR bar			
PEMH0543	0.5	220	50/60	6	4	1,500	2	0.13	ON/OFF	19	180 x 265 x 465
PEMH0543-2K	0.5	220	50/60	6	4	2,000	2	0.13	ON/OFF	19	180 x 265 x 465

† Standard motor supplied is 220V, 6A, should 115V, 13A be required; add "-115V" to the end of the model number, eg. "PEMH0543-2K-115V"