



QHTM CYLINDRES / CYLINDERS

HYDRAULIQUE / HYDRAULIC

PNEUMATIQUE / PNEUMATIC

STANDARD & CUSTOM





SELECTION LIENS RAPIDES / QUICK LINKS

UTILITAIRES SOUDÉS / UTILITY WELDED BUSHING



ALÉSAGE 1.5" - 5.0" BORE

UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS



ALÉSAGE 1.5" - 5.0" BORE

UTILITAIRES SOUDÉS / UTILITY WELDED TROU / HOLE



ALÉSAGE 1.5" - 4.0" BORE

UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS ADJUST.

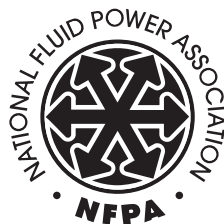


ALÉSAGE 1.5" - 4.0" BORE

A TIGES / TIE ROD CLEVIS ADJUST.



ALÉSAGE 2.0" - 5.0" BORE

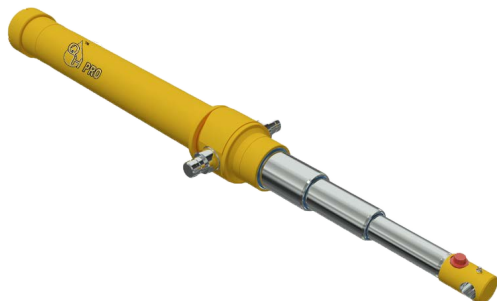




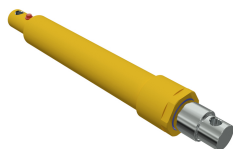
SELECTION LIENS RAPIDES / QUICK LINKS

TÉLESCOPIQUES INVERSÉS / INVERTED TELESCOPIC

7 TONS & 12 TONS



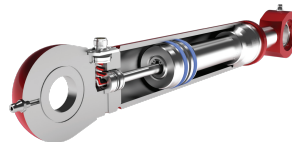
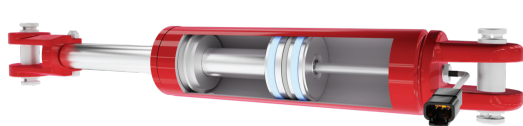
PELLE A NEIGE / SNOW PLOW



ARCTIC
FISHER
MEYER
WESTERN

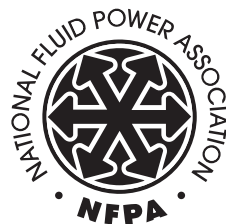
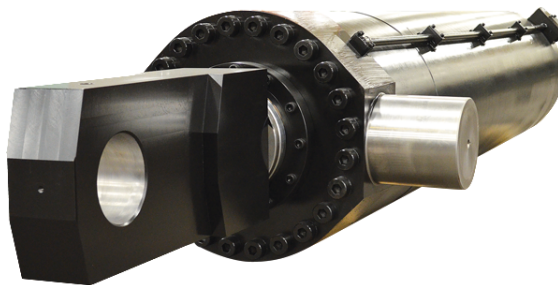
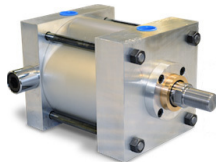
CYLINDRES INTELLIGENT / SMART CYLINDERS

ALÉSAGE 2.5" - 5.0" BORE



CYLINDRES NFPA & SPÉCIAUX / NFPA & SPECIAL CYLINDERS

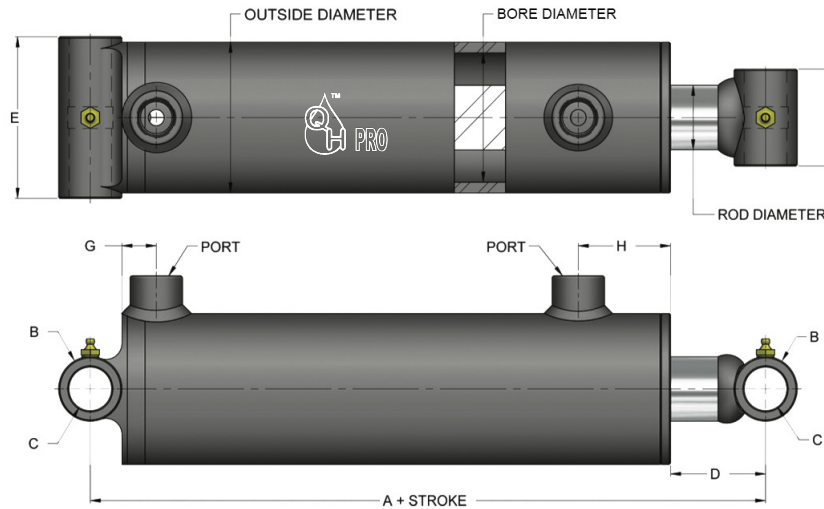
ALÉSAGE 1.5" - 36.0" BORE





CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED BUSHING



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORTS
QHBU15XX-S	1.50"	1.875"	1.00"	8.00"	1.25"	0.76"	2.62"	2.25"	2.00"	1.06"	1.87"	SAE 4
QHBU20XX-S	2.00"	2.375"	1.25"	8.00"	1.50"	1.01"	2.25"	2.75"	2.25"	1.00"	2.06"	SAE 6
QHBU25XX-S	2.50"	2.875"	1.50"	8.00"	1.50"	1.01"	2.25"	3.25"	2.25"	0.81"	2.18"	SAE 8
QHBU30XX-S	3.00"	3.50"	1.50"	8.00"	1.50"	1.01"	2.25"	3.75"	2.25"	0.81"	2.18"	SAE 8
QHBU35XX-S	3.50"	4.00"	1.75"	10.00"	2.00"	1.26"	4.00"	4.25"	2.25"	0.81"	2.18"	SAE 8
QHBU40XX-S	4.00"	4.50"	2.00"	10.00"	2.25"	1.51"	3.75"	4.75"	2.50"	0.81"	2.18"	SAE 8
QHBU50XX-S	5.00"	5.50"	2.50"	12.00"	3.00"	**1.76"	3.50"	5.75"	3.25"	1.25"	2.75"	SAE 12

** PIN SIZE WITH INSERT, 2" WHEN REMOVED
MAXIMUM RETRACTED WORKING PRESSURE : 3000 psi

MAXIMUM EXTENDED WORKING PRESSURE : SEE TABLE
RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHBU1504-S	1.5" X 4"	12"	16"	1"	3/4"	SAE 4	5300	3000	8
QHBU1506-S	1.5" X 6"	14"	20"				5300	3000	9
QHBU1508-S	1.5" X 8"	16"	24"				5300	3000	10
QHBU1510-S	1.5" X 10"	18"	28"				5300	3000	12
QHBU1512-S	1.5" X 12"	20"	32"				5300	3000	13
QHBU1514-S	1.5" X 14"	22"	36"				5300	3000	14
QHBU1516-S	1.5" X 16"	24"	40"				5300	3000	15
QHBU1518-S	1.5" X 18"	26"	44"				4800	2700	17
QHBU1520-S	1.5" X 20"	28"	48"				4000	2300	18
QHBU1524-S	1.5" X 24"	32"	56"				3000	1700	20
QHBU2004-S	2" X 4"	12"	16"	1-1/4"	1"	SAE 6	9400	3000	12
QHBU2006-S	2" X 6"	14"	20"				9400	3000	13
QHBU2008-S	2" X 8"	16"	24"				9400	3000	15
QHBU2010-S	2" X 10"	18"	28"				9400	3000	17
QHBU2012-S	2" X 12"	20"	32"				9400	3000	19
QHBU2014-S	2" X 14"	22"	36"				9400	3000	20
QHBU2016-S	2" X 16"	24"	40"				9400	3000	22
QHBU2018-S	2" X 18"	26"	44"				9400	3000	24
QHBU2020-S	2" X 20"	28"	48"				9400	3000	25
QHBU2024-S	2" X 24"	32"	56"				7300	2300	29
QHBU2028-S	2" X 28"	36"	64"				5600	1700	32
QHBU2030-S	2" X 30"	38"	68"				4900	1500	34
QHBU2032-S	2" X 32"	40"	72"				4400	1400	35
QHBU2036-S	2" X 36"	44"	80"				3500	1100	39
QHBU2040-S	2" X 40"	48"	88"				2900	900	42
QHBU2048-S	2" X 48"	56"	104"				2100	600	49

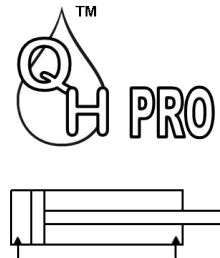
* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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UTILITAIRES SOUDÉS / UTILITY WELDED BUSHING



CYLINDERS

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHBU2504-S	2.5" X 4"	12"	16"	1-1/2"	1"	SAE 8	14700	3000	16
QHBU2506-S	2.5" X 6"	14"	20"				14700	3000	18
QHBU2508-S	2.5" X 8"	16"	24"				14700	3000	20
QHBU2510-S	2.5" X 10"	18"	28"				14700	3000	22
QHBU2512-S	2.5" X 12"	20"	32"				14700	3000	24
QHBU2514-S	2.5" X 14"	22"	36"				14700	3000	27
QHBU2516-S	2.5" X 16"	24"	40"				14700	3000	29
QHBU2518-S	2.5" X 18"	26"	44"				14700	3000	31
QHBU2520-S	2.5" X 20"	28"	48"				14700	3000	33
QHBU2524-S	2.5" X 24"	32"	56"				14700	3000	38
QHBU2528-S	2.5" X 28"	36"	64"				11600	2300	42
QHBU2530-S	2.5" X 30"	38"	68"				10300	2100	45
QHBU2532-S	2.5" X 32"	40"	72"				9200	1800	47
QHBU2536-S	2.5" X 36"	44"	80"				7400	1500	51
QHBU2540-S	2.5" X 40"	48"	88"				6100	1200	56
QHBU2548-S	2.5" X 48"	56"	104"				4400	800	65
QHBU3004-S	3" X 4"	12"	16"	1-1/2"	1"	SAE 8	21200	3000	19
QHBU3006-S	3" X 6"	14"	20"				21200	3000	22
QHBU3008-S	3" X 8"	16"	24"				21200	3000	24
QHBU3010-S	3" X 10"	18"	28"				21200	3000	27
QHBU3012-S	3" X 12"	20"	32"				21200	3000	29
QHBU3014-S	3" X 14"	22"	36"				21200	3000	32
QHBU3016-S	3" X 16"	24"	40"				21200	3000	34
QHBU3018-S	3" X 18"	26"	44"				21200	3000	36
QHBU3020-S	3" X 20"	28"	48"				20700	2900	39
QHBU3024-S	3" X 24"	32"	56"				15200	2100	44
QHBU3028-S	3" X 28"	36"	64"				11600	1600	49
QHBU3030-S	3" X 30"	38"	68"				10300	1400	51
QHBU3032-S	3" X 32"	40"	72"				9200	1300	53
QHBU3036-S	3" X 36"	44"	80"				7400	1000	58
QHBU3040-S	3" X 40"	48"	88"				6100	800	63
QHBU3048-S	3" X 48"	56"	104"				4400	600	73
QHBU3504-S	3.5" X 4"	14"	18"	1-3/4"	1-1/4"	SAE 8	28800	3000	27
QHBU3506-S	3.5" X 6"	16"	22"				28800	3000	30
QHBU3508-S	3.5" X 8"	18"	26"				28800	3000	33
QHBU3510-S	3.5" X 10"	20"	30"				28800	3000	36
QHBU3512-S	3.5" X 12"	22"	34"				28800	3000	39
QHBU3514-S	3.5" X 14"	24"	38"				28800	3000	42
QHBU3516-S	3.5" X 16"	26"	42"				28800	3000	45
QHBU3518-S	3.5" X 18"	28"	46"				28800	3000	48
QHBU3520-S	3.5" X 20"	30"	50"				28800	3000	51
QHBU3524-S	3.5" X 24"	34"	58"				26200	2700	57
QHBU3528-S	3.5" X 28"	38"	66"				20200	2100	63
QHBU3530-S	3.5" X 30"	40"	70"				18000	1800	66
QHBU3532-S	3.5" X 32"	42"	74"				16100	1600	69
QHBU3536-S	3.5" X 36"	46"	82"				13100	1300	75
QHBU3540-S	3.5" X 40"	50"	90"				10900	1100	81
QHBU3548-S	3.5" X 48"	58"	106"				7800	800	94

* NPT PORTS ARE ALSO AVAILABLE.

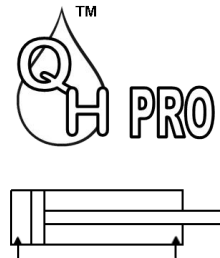
NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED BUSHING



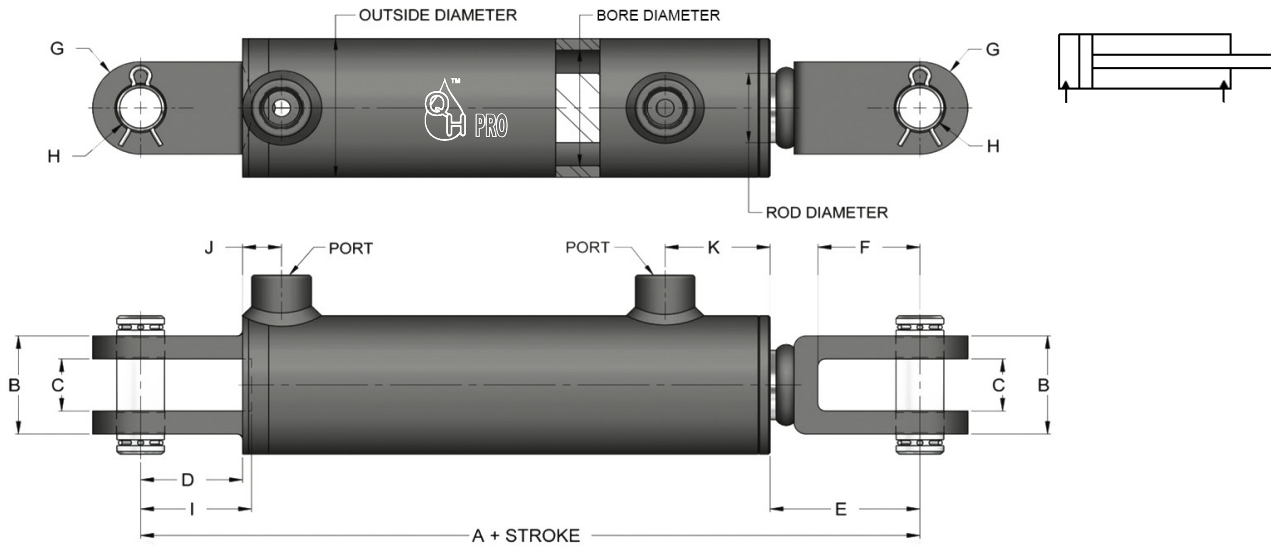
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHBU4004-S	4" X 4"	14"	18"	2"	1-1/2"	SAE 8	37600	3000	34
QHBU4006-S	4" X 6"	16"	22"				37600	3000	38
QHBU4008-S	4" X 8"	18"	26"				37600	3000	41
QHBU4010-S	4" X 10"	20"	30"				37600	3000	45
QHBU4012-S	4" X 12"	22"	34"				37600	3000	49
QHBU4014-S	4" X 14"	24"	38"				37600	3000	52
QHBU4016-S	4" X 16"	26"	42"				37600	3000	56
QHBU4018-S	4" X 18"	28"	46"				37600	3000	59
QHBU4020-S	4" X 20"	30"	50"				37600	3000	63
QHBU4024-S	4" X 24"	34"	58"				37600	3000	70
QHBU4028-S	4" X 28"	38"	66"				34600	2700	78
QHBU4030-S	4" X 30"	40"	70"				30700	2400	81
QHBU4032-S	4" X 32"	42"	74"				27500	2100	85
QHBU4036-S	4" X 36"	46"	82"				22400	1700	92
QHBU4040-S	4" X 40"	50"	90"				18600	1400	99
QHBU4048-S	4" X 48"	58"	106"				13400	1000	114
QHBU5004-S	5" X 4"	16"	20"	2-1/2"	1-3/4"	SAE 12	58900	3000	64
QHBU5006-S	5" X 6"	18"	24"				58900	3000	69
QHBU5008-S	5" X 8"	20"	28"				58900	3000	75
QHBU5010-S	5" X 10"	22"	32"				58900	3000	80
QHBU5012-S	5" X 12"	24"	36"				58900	3000	85
QHBU5014-S	5" X 14"	26"	40"				58900	3000	90
QHBU5016-S	5" X 16"	28"	44"				58900	3000	96
QHBU5018-S	5" X 18"	30"	48"				58900	3000	101
QHBU5020-S	5" X 20"	32"	52"				58900	3000	106
QHBU5024-S	5" X 24"	36"	60"				58900	3000	116
QHBU5028-S	5" X 28"	40"	68"				58900	3000	126
QHBU5030-S	5" X 30"	42"	72"				58900	3000	131
QHBU5032-S	5" X 32"	44"	76"				58900	3000	136
QHBU5036-S	5" X 36"	48"	84"				52100	2600	147
QHBU5040-S	5" X 40"	52"	92"				43400	2200	157
QHBU5048-S	5" X 48"	60"	108"				31500	1600	177

* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.



UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	*A	B	C	D	*E	F	G	H	I	J	K	PORTS*
QHCL15-XX-S	1.50"	1.875"	1.00"	8.25"	1.62"	0.87"	1.37"	2.25"	1.37"	1.50"	0.76"	-	0.93"	1.87"	SAE 4
QHCL20-XX-S	2.00"	2.375"	1.25"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	1.00"	2.06"	SAE6
QHCL25-XX-S	2.50"	2.875"	1.50"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	0.81"	2.18"	SAE 8
QHCL30-XX-S	3.00"	3.50"	1.50"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	0.81"	2.18"	SAE 8
QHCL35-XX-S	3.50"	4.00"	1.75"	10.25"	2.37"	1.12"	2.00"	3.12"	2.12"	2.00"	1.01"	2.12"	0.93"	2.18"	SAE 8
QHCL40-XX-S	4.00"	4.50"	2.00"	10.25"	2.37"	1.12"	1.75"	3.12"	2.00"	2.00"	1.01"	2.00"	1.06"	2.18"	SAE 8
QHCL50-XX-S	5.00"	5.50"	2.50"	13.00"	3.12"	1.62"	2.25"	3.62"	2.25"	3.00"	1.51"	-	1.37"	2.75"	SAE 12

1. FOR 8" STROKE : A = 12.25" (2" TO 4" BORE)

2. FOR 8" STROKE : E = 5.12" (2" TO 4" BORE)

* NPT PORTS ARE ALSO AVAILABLE FROM 1.5" TO 4" BORE CYLINDERS

MAXIMUM RETRACTED WORKING PRESSURE : 3000 psi

MAXIMUM EXTENDED WORKING PRESSURE : SEE TABLE

RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHCL1504-S	1.5" X 4"	12-1/4"	16-1/4"	1"	3/4"	SAE 4	5300	3000	8
QHCL1506-S	1.5" X 6"	14-1/4"	20-1/4"				5300	3000	9
QHCL1508-S	1.5" X 8"	16-1/4"	24-1/4"				5300	3000	11
QHCL1510-S	1.5" X 10"	18-1/4"	28-1/4"				5300	3000	12
QHCL1512-S	1.5" X 12"	20-1/4"	32-1/4"				5300	3000	13
QHCL1514-S	1.5" X 14"	22-1/4"	36-1/4"				5300	3000	14
QHCL1516-S	1.5" X 16"	24-1/4"	40-1/4"				5300	3000	15
QHCL1518-S	1.5" X 18"	26-1/4"	44-1/4"				4800	2700	17
QHCL1520-S	1.5" X 20"	28-1/4"	48-1/4"				4000	2200	18
QHCL1524-S	1.5" X 24"	32-1/4"	56-1/4"				2900	1600	20
QHCL2004-S	2" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 6	9400	3000	14
QHCL2006-S	2" X 6"	16-1/4"	22-1/4"				9400	3000	16
QHCL2008-S	2" X 8"	20-1/4"	28-1/4"				9400	3000	18
QHCL2010-S	2" X 10"	20-1/4"	30-1/4"				9400	3000	19
QHCL2012-S	2" X 12"	22-1/4"	34-1/4"				9400	3000	21
QHCL2014-S	2" X 14"	24-1/4"	38-1/4"				9400	3000	23
QHCL2016-S	2" X 16"	26-1/4"	42-1/4"				9400	3000	25
QHCL2018-S	2" X 18"	28-1/4"	46-1/4"				9400	3000	26
QHCL2020-S	2" X 20"	30-1/4"	50-1/4"				9100	2900	28
QHCL2024-S	2" X 24"	34-1/4"	58-1/4"				6700	2100	31
QHCL2028-S	2" X 28"	38-1/4"	66-1/4"				5200	1600	35
QHCL2030-S	2" X 30"	40-1/4"	70-1/4"				4600	1400	36
QHCL2032-S	2" X 32"	42-1/4"	74-1/4"				4100	1300	38
QHCL2034-S	2" X 34"	44-1/4"	78-1/4"				3700	1100	40
QHCL2036-S	2" X 36"	46-1/4"	82-1/4"				3400	1000	42
QHCL2040-S	2" X 40"	50-1/4"	90-1/4"				2800	800	45
QHCL2048-S	2" X 48"	58-1/4"	106-1/4"				2000	600	52

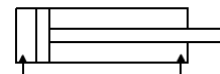
* NPT PORTS ARE ALSO AVAILABLE.

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UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS



CYLINDERS

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHCL2504-S	2.5" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	14700	3000	18
QHCL2506-S	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	20
QHCL2508-S	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	24
QHCL2510-S	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	25
QHCL2512-S	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	27
QHCL2514-S	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	29
QHCL2516-S	2.5" X 16"	26-1/4"	42-1/4"				14700	3000	32
QHCL2518-S	2.5" X 18"	28-1/4"	46-1/4"				14700	3000	34
QHCL2520-S	2.5" X 20"	30-1/4"	50-1/4"				14700	3000	36
QHCL2524-S	2.5" X 24"	34-1/4"	58-1/4"				14000	2800	40
QHCL2528-S	2.5" X 28"	38-1/4"	66-1/4"				10800	2200	45
QHCL2530-S	2.5" X 30"	40-1/4"	70-1/4"				9600	1900	47
QHCL2532-S	2.5" X 32"	42-1/4"	74-1/4"				8600	1700	49
QHCL2534-S	2.5" X 34"	44-1/4"	78-1/4"				7700	1500	52
QHCL2536-S	2.5" X 36"	46-1/4"	82-1/4"				7000	1400	54
QHCL2540-S	2.5" X 40"	50-1/4"	90-1/4"				5800	1100	58
QHCL2548-S	2.5" X 48"	58-1/4"	106-1/4"				4200	800	67
QHCL3004-S	3" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	21200	3000	22
QHCL3006-S	3" X 6"	16-1/4"	22-1/4"				21200	3000	24
QHCL3008-S	3" X 8"	20-1/4"	28-1/4"				21200	3000	27
QHCL3010-S	3" X 10"	20-1/4"	30-1/4"				21200	3000	29
QHCL3012-S	3" X 12"	22-1/4"	34-1/4"				21200	3000	31
QHCL3014-S	3" X 14"	24-1/4"	38-1/4"				21200	3000	34
QHCL3016-S	3" X 16"	26-1/4"	42-1/4"				21200	3000	36
QHCL3018-S	3" X 18"	28-1/4"	46-1/4"				21200	3000	39
QHCL3020-S	3" X 20"	30-1/4"	50-1/4"				18800	2600	41
QHCL3024-S	3" X 24"	34-1/4"	58-1/4"				14000	1900	46
QHCL3028-S	3" X 28"	38-1/4"	66-1/4"				10800	1500	51
QHCL3030-S	3" X 30"	40-1/4"	70-1/4"				9600	1300	53
QHCL3032-S	3" X 32"	42-1/4"	74-1/4"				8600	1200	56
QHCL3034-S	3" X 34"	44-1/4"	78-1/4"				7700	1100	58
QHCL3036-S	3" X 36"	46-1/4"	82-1/4"				7000	900	61
QHCL3504-S	3.5" X 4"	14-1/4"	18-1/4"	1-3/4"	1"	SAE 8	28800	3000	27
QHCL3506-S	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	30
QHCL3508-S	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	35
QHCL3510-S	3.5" X 10"	20-1/4"	30-1/4"				28800	3000	36
QHCL3512-S	3.5" X 12"	22-1/4"	34-1/4"				28800	3000	39
QHCL3514-S	3.5" X 14"	24-1/4"	38-1/4"				28800	3000	42
QHCL3516-S	3.5" X 16"	26-1/4"	42-1/4"				28800	3000	46
QHCL3518-S	3.5" X 18"	28-1/4"	46-1/4"				28800	3000	49
QHCL3520-S	3.5" X 20"	30-1/4"	50-1/4"				28800	3000	52
QHCL3524-S	3.5" X 24"	34-1/4"	58-1/4"				26000	2700	58
QHCL3528-S	3.5" X 28"	38-1/4"	66-1/4"				20100	2000	64
QHCL3530-S	3.5" X 30"	40-1/4"	70-1/4"				17900	1800	67
QHCL3532-S	3.5" X 32"	42-1/4"	74-1/4"				16000	1600	70
QHCL3534-S	3.5" X 34"	44-1/4"	78-1/4"				14400	1500	73
QHCL3536-S	3.5" X 36"	46-1/4"	82-1/4"				13000	1300	76

* NPT PORTS ARE ALSO AVAILABLE.

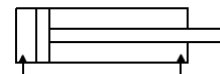
NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

QHTMPRO IS NOT RESPONSIBLE FOR INCORRECT RESULTS OBTAINED WITH FIGURES IN THIS DOCUMENT. INFORMATION IS FOR REFERENCE ONLY. NO OTHER CONDITIONS ARE EXPRESSED OR IMPLIED.



CYLINDERS

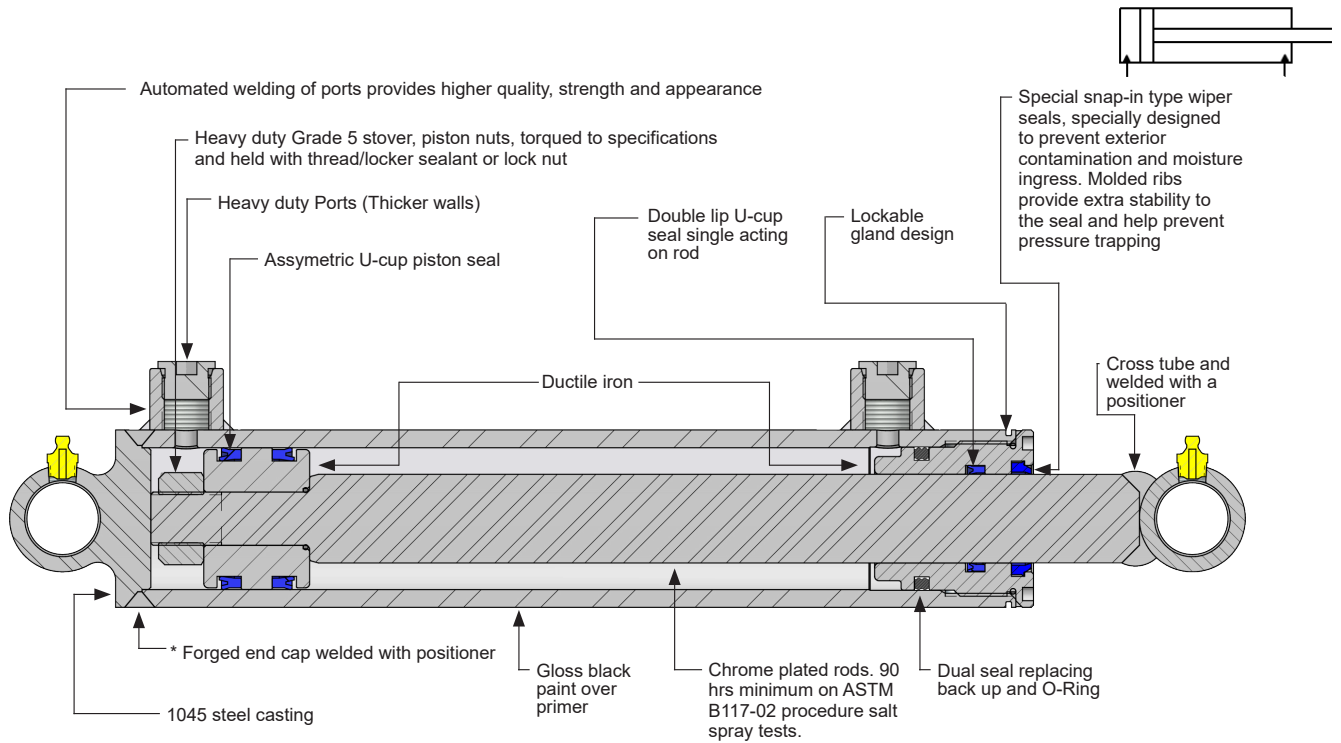
UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS



PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (lbs)	PRESSURE (psi)	WEIGHT (lbs)
		RETRACTED	EXTENDED						
QHCL4004-S	4" X 4"	14-1/4"	18-1/4"	2"	1"	SAE 8	37600	3000	33
QHCL4006-S	4" X 6"	16-1/4"	22-1/4"				37600	3000	37
QHCL4008-S	4" X 8"	20-1/4"	28-1/4"				37600	3000	42
QHCL4010-S	4" X 10"	20-1/4"	30-1/4"				37600	3000	44
QHCL4012-S	4" X 12"	22-1/4"	34-1/4"				37600	3000	48
QHCL4014-S	4" X 14"	24-1/4"	38-1/4"				37600	3000	52
QHCL4016-S	4" X 16"	26-1/4"	42-1/4"				37600	3000	55
QHCL4018-S	4" X 18"	28-1/4"	46-1/4"				37600	3000	59
QHCL4020-S	4" X 20"	30-1/4"	50-1/4"				37600	3000	63
QHCL4024-S	4" X 24"	34-1/4"	58-1/4"				37600	3000	70
QHCL4028-S	4" X 28"	38-1/4"	66-1/4"				34300	2700	77
QHCL4030-S	4" X 30"	40-1/4"	70-1/4"				30500	2400	81
QHCL4032-S	4" X 32"	42-1/4"	74-1/4"				27300	2100	85
QHCL4034-S	4" X 34"	44-1/4"	78-1/4"				24600	1900	89
QHCL4036-S	4" X 36"	46-1/4"	82-1/4"				22200	1700	92
QHCL5004-S	5" X 4"	17"	21"	2-1/2"	1-1/2"	SAE 12	58900	3000	64
QHCL5006-S	5" X 6"	19"	25"				58900	3000	69
QHCL5008-S	5" X 8"	21"	29"				58900	3000	74
QHCL5010-S	5" X 10"	23"	33"				58900	3000	79
QHCL5012-S	5" X 12"	25"	37"				58900	3000	84
QHCL5014-S	5" X 14"	27"	41"				58900	3000	89
QHCL5016-S	5" X 16"	29"	45"				58900	3000	95
QHCL5018-S	5" X 18"	31"	49"				58900	3000	100
QHCL5020-S	5" X 20"	33"	53"				58900	3000	105
QHCL5024-S	5" X 24"	37"	61"				58900	3000	115
QHCL5028-S	5" X 28"	41"	69"				58900	3000	125
QHCL5030-S	5" X 30"	43"	73"				58900	3000	130
QHCL5032-S	5" X 32"	45"	77"				58900	3000	135
QHCL5034-S	5" X 34"	47"	81"				56100	2800	141
QHCL5036-S	5" X 36"	49"	85"				50900	2500	146
QHCL5040-S	5" X 40"	53"	93"				42500	2100	156
QHCL5048-S	5" X 48"	61"	109"				30900	1500	176



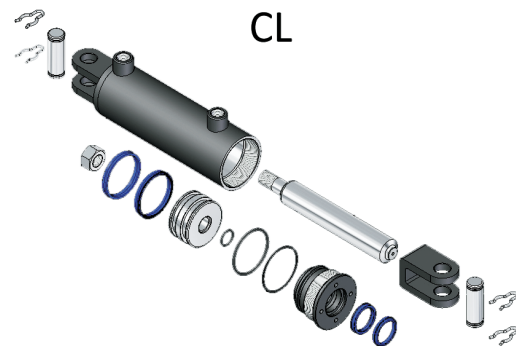
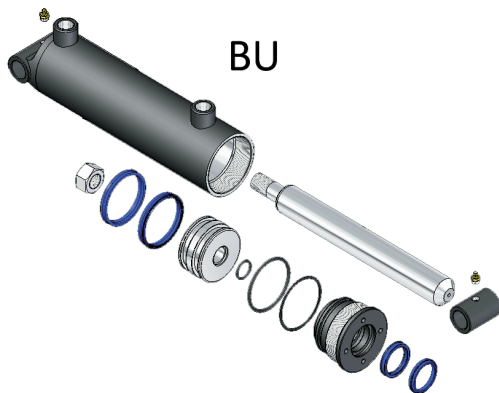
UTILITAIRES SOUDÉS / UTILITY WELDED BUSHING & CLEVIS



* Except 5" models

SEAL TEMPERATURE RANGE : -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED : 3 FT / SEC

ALL SEALS ARE TOP GRADE/FIRST QUALITY NORTH AMERICAN MADE
ALL COMPONENTS ARE CNC MACHINED FOR HIGHER ACCURACY AND CONFORMITY
QUALITY CONTROLLED IN CHINA BY QUALIFIED CANADIAN TECHNICIANS
100% TESTED. ALL CYLINDERS ARE SUBMITTED TO STATIC AND DYNAMIC PRESSURE TESTS
TO RECOMMENDED SPECIFICATIONS

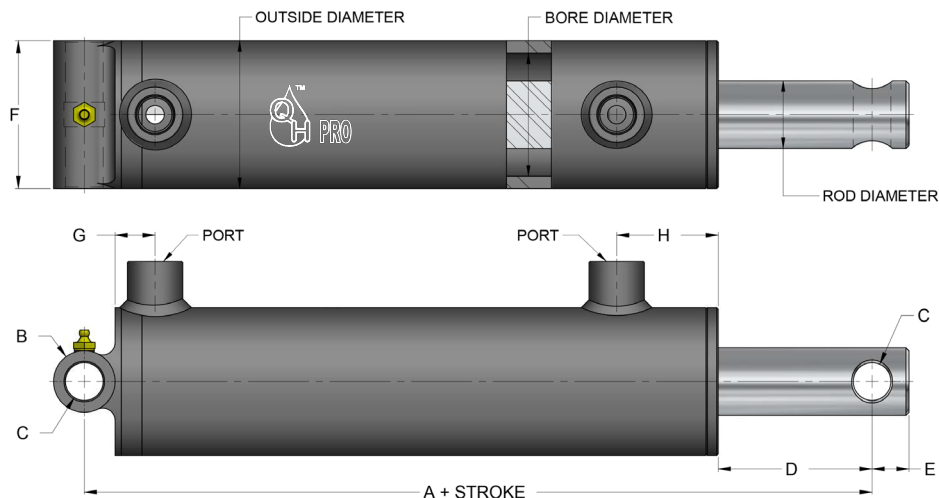


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CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED TROU / HOLE



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORTS*
QHWT3-15XX-S	1.50"	1.875"	1.00"	7.00"	1.25"	0.64"	2.43"	0.62"	2.00"	0.81"	1.87"	SAE 6
QHWT3-20XX-S	2.00"	2.375"	1.25"	8.00"	1.25"	0.76"	3.37"	0.75"	2.50"	0.81"	1.87"	SAE 8
QHWT3-25XX-S	2.50"	2.875"	1.37"	8.00"	1.25"	0.76"	3.12"	0.75"	3.00"	0.81"	2.06"	SAE 8
QHWT3-30XX-S	3.00"	3.50"	1.50"	8.00"	1.50"	1.01"	2.56"	1.00"	3.50"	0.81"	2.18"	SAE 8
QHWT3-35XX-S	3.50"	4.00"	1.75"	8.00"	1.50"	1.01"	2.43"	1.00"	4.00"	0.81"	2.18"	SAE 8
QHWT3-40XX-S	4.00"	4.50"	2.00"	9.00"	2.00"	1.26"	2.43"	1.25"	4.50"	0.81"	2.18"	SAE 8

1. FOR 8" STROKE : A = 12.25" (2" TO 4" BORE)
2. FOR 8" STROKE : E = 5.12" (2" TO 4" BORE)
MAXIMUM RETRACTED WORKING PRESSURE : 3000 PSI

*NPT PORTS ARE ALSO AVAILABLE
MAXIMUM RETRACTED WORKING PRESSURE : 3000 psi
MAXIMUM EXTENDED WORKING PRESSURE : TABLE
RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHWT3-1504-S	1.5" X 4"	11"	15"	1"	5/8"	SAE 6	5300	3000	7
QHWT3-1506-S	1.5" X 6"	13"	19"				5300	3000	8
QHWT3-1508-S	1.5" X 8"	15"	23"				5300	3000	9
QHWT3-1510-S	1.5" X 10"	17"	27"				5300	3000	11
QHWT3-1512-S	1.5" X 12"	19"	31"				5300	3000	12
QHWT3-1514-S	1.5" X 14"	21"	35"				5300	3000	13
QHWT3-1516-S	1.5" X 16"	23"	39"				5300	3000	14
QHWT3-2004-S	2" X 4"	12"	16"	1-1/4"	3/4"	SAE 8	9400	3000	11
QHWT3-2006-S	2" X 6"	14"	20"				9400	3000	12
QHWT3-2008-S	2" X 8"	16"	24"				9400	3000	14
QHWT3-2010-S	2" X 10"	18"	28"				9400	3000	16
QHWT3-2012-S	2" X 12"	20"	32"				9400	3000	17
QHWT3-2014-S	2" X 14"	22"	36"				9400	3000	19
QHWT3-2016-S	2" X 16"	24"	40"				9400	3000	21
QHWT3-2018-S	2" X 18"	26"	44"				9400	3000	22
QHWT3-2020-S	2" X 20"	28"	48"				9400	3000	24
QHWT3-2024-S	2" X 24"	32"	56"				7300	2300	27
QHWT3-2028-S	2" X 28"	36"	64"				5600	1700	31
QHWT3-2030-S	2" X 30"	38"	68"				4900	1500	33
QHWT3-2032-S	2" X 32"	40"	72"				4400	1400	34
QHWT3-2036-S	2" X 36"	44"	80"				3500	1100	38
QHWT3-2040-S	2" X 40"	48"	88"				2900	900	41
QHWT3-2042-S	2" X 42"	50"	92"				2700	800	43
QHWT3-2048-S	2" X 48"	56"	104"				2100	600	48
QHWT3-2060-S	2" X 60"	68"	128"				1400	400	58
QHWT3-2072-S	2" X 72"	80"	152"				900	300	68

* NPT PORTS ARE ALSO AVAILABLE.

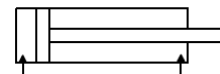
NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED TROU / HOLE



PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHWT3-2504-S	2.5" X 4"	12"	16"	1-3/8"	3/4"	SAE 8	14700	3000	14
QHWT3-2506-S	2.5" X 6"	14"	20"				14700	3000	16
QHWT3-2508-S	2.5" X 8"	16"	24"				14700	3000	18
QHWT3-2510-S	2.5" X 10"	18"	28"				14700	3000	20
QHWT3-2512-S	2.5" X 12"	20"	32"				14700	3000	22
QHWT3-2514-S	2.5" X 14"	22"	36"				14700	3000	24
QHWT3-2516-S	2.5" X 16"	24"	40"				14700	3000	26
QHWT3-2518-S	2.5" X 18"	26"	44"				14700	3000	28
QHWT3-2520-S	2.5" X 20"	28"	48"				14600	2900	30
QHWT3-2524-S	2.5" X 24"	32"	56"				10700	2100	35
QHWT3-2528-S	2.5" X 28"	36"	64"				8200	1600	39
QHWT3-2530-S	2.5" X 30"	38"	68"				7200	1400	41
QHWT3-2532-S	2.5" X 32"	40"	72"				6500	1300	43
QHWT3-2536-S	2.5" X 36"	44"	80"				5200	1000	47
QHWT3-2540-S	2.5" X 40"	48"	88"				4300	800	51
QHWT3-2542-S	2.5" X 42"	50"	92"				3900	800	53
QHWT3-2548-S	2.5" X 48"	56"	104"				3100	600	60
QHWT3-2560-S	2.5" X 60"	68"	128"				2000	400	72
QHWT3-3006-S	3" X 6"	14"	20"	1-1/2"	1"	SAE 8	21200	3000	21
QHWT3-3008-S	3" X 8"	16"	24"				21200	3000	24
QHWT3-3010-S	3" X 10"	18"	28"				21200	3000	26
QHWT3-3012-S	3" X 12"	20"	32"				21200	3000	28
QHWT3-3014-S	3" X 14"	22"	36"				21200	3000	31
QHWT3-3016-S	3" X 16"	24"	40"				21200	3000	33
QHWT3-3018-S	3" X 18"	26"	44"				21200	3000	36
QHWT3-3020-S	3" X 20"	28"	48"				20700	2900	38
QHWT3-3024-S	3" X 24"	32"	56"				15200	2100	43
QHWT3-3028-S	3" X 28"	36"	64"				11600	1600	48
QHWT3-3030-S	3" X 30"	38"	68"				10300	1400	51
QHWT3-3032-S	3" X 32"	40"	72"				9200	1300	53
QHWT3-3036-S	3" X 36"	44"	80"				7400	1000	58
QHWT3-3040-S	3" X 40"	48"	88"				6100	800	63
QHWT3-3042-S	3" X 42"	50"	92"				5600	700	65
QHWT3-3048-S	3" X 48"	56"	104"				4400	600	73
QHWT3-3060-S	3" X 60"	68"	128"				2900	400	87

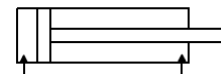
* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.



CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED TROU / HOLE



PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHWT3-3504-S	3.5" X 4"	12"	16"	1-3/4"	1"	SAE 8	28800	3000	24
QHWT3-3506-S	3.5" X 6"	14"	20"				28800	3000	27
QHWT3-3508-S	3.5" X 8"	16"	24"				28800	3000	30
QHWT3-3510-S	3.5" X 10"	18"	28"				28800	3000	33
QHWT3-3512-S	3.5" X 12"	20"	32"				28800	3000	36
QHWT3-3514-S	3.5" X 14"	22"	36"				28800	3000	39
QHWT3-3516-S	3.5" X 16"	24"	40"				28800	3000	42
QHWT3-3518-S	3.5" X 18"	26"	44"				28800	3000	45
QHWT3-3520-S	3.5" X 20"	28"	48"				28800	3000	48
QHWT3-3524-S	3.5" X 24"	32"	56"				28100	2900	54
QHWT3-3528-S	3.5" X 28"	36"	64"				21500	2200	60
QHWT3-3530-S	3.5" X 30"	38"	68"				19100	1900	63
QHWT3-3532-S	3.5" X 32"	40"	72"				17000	1700	66
QHWT3-3536-S	3.5" X 36"	44"	80"				13800	1400	72
QHWT3-3540-S	3.5" X 40"	48"	88"				11400	1100	79
QHWT3-3542-S	3.5" X 42"	50"	92"				10400	1000	82
QHWT3-3548-S	3.5" X 48"	56"	104"				8100	800	91
QHWT3-4008-S	4" X 8"	17"	25"	2"	1-1/4"	SAE 8	37700	3000	40
QHWT3-4010-S	4" X 10"	19"	29"				37700	3000	44
QHWT3-4012-S	4" X 12"	21"	33"				37700	3000	47
QHWT3-4014-S	4" X 14"	23"	37"				37700	3000	51
QHWT3-4016-S	4" X 16"	25"	41"				37700	3000	55
QHWT3-4018-S	4" X 18"	27"	45"				37700	3000	58
QHWT3-4020-S	4" X 20"	29"	49"				37700	3000	62
QHWT3-4024-S	4" X 24"	33"	57"				37700	3000	70
QHWT3-4028-S	4" X 28"	37"	65"				35600	2800	77
QHWT3-4030-S	4" X 30"	39"	69"				31600	2500	81
QHWT3-4032-S	4" X 32"	41"	73"				28300	2200	84
QHWT3-4036-S	4" X 36"	45"	81"				22900	1800	91
QHWT3-4040-S	4" X 40"	49"	89"				19000	1500	99
QHWT3-4048-S	4" X 48"	57"	105"				13600	1000	114
QHWT3-4060-S	4" X 60"	69"	129"				9000	700	136

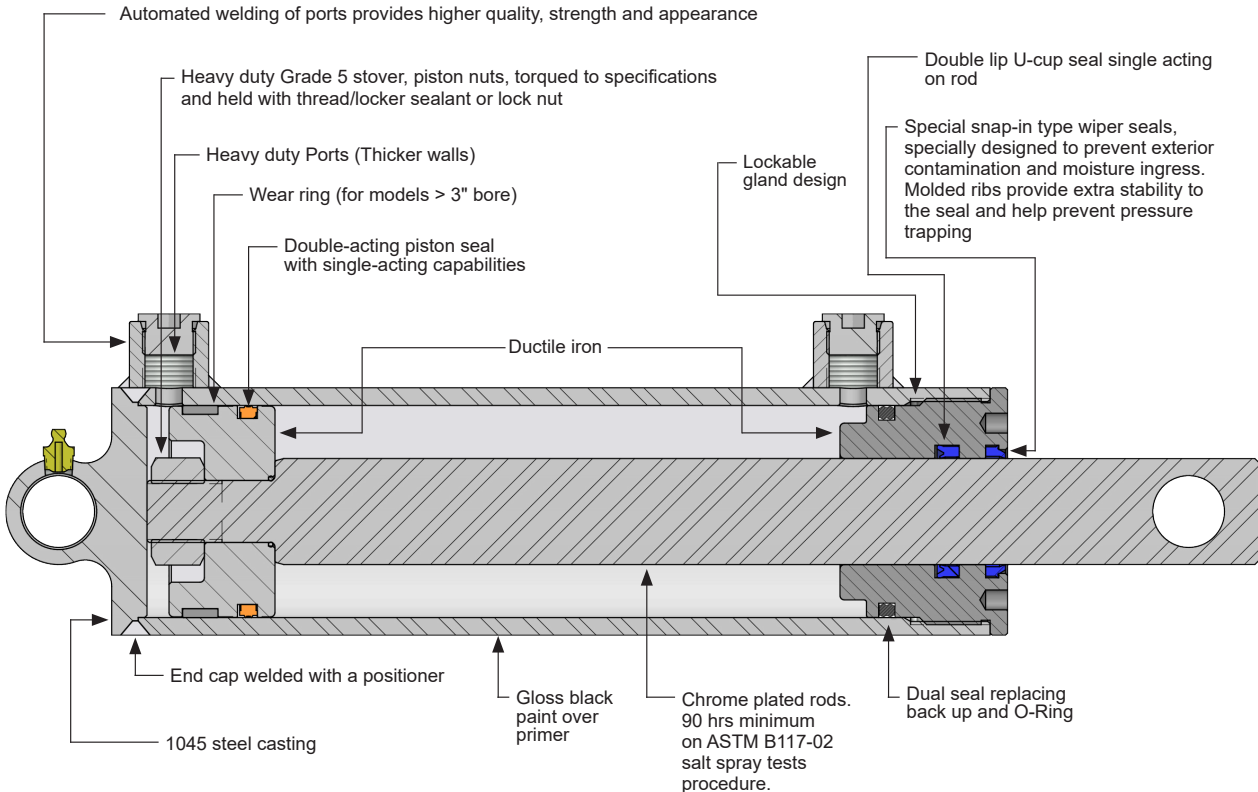
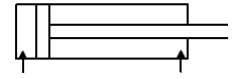
* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.



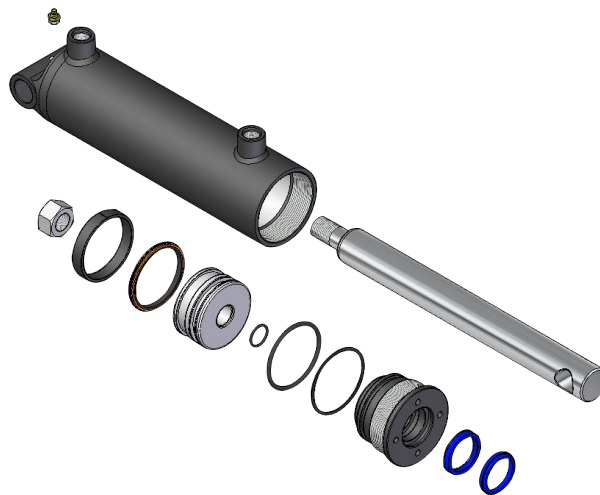
CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED TROU / HOLE



SEAL TEMPERATURE RANGE : -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED : 3 FT / SEC

ALL SEALS ARE TOP GRADE/FIRST QUALITY NORTH AMERICAN MADE
ALL COMPONENTS ARE CNC MACHINED FOR HIGHER ACCURACY AND CONFORMITY
QUALITY CONTROLLED IN CHINA BY QUALIFIED CANADIAN TECHNICIANS
100% TESTED. ALL CYLINDERS ARE SUBMITTED TO STATIC AND DYNAMIC PRESSURE TESTS
TO RECOMMENDED SPECIFICATIONS

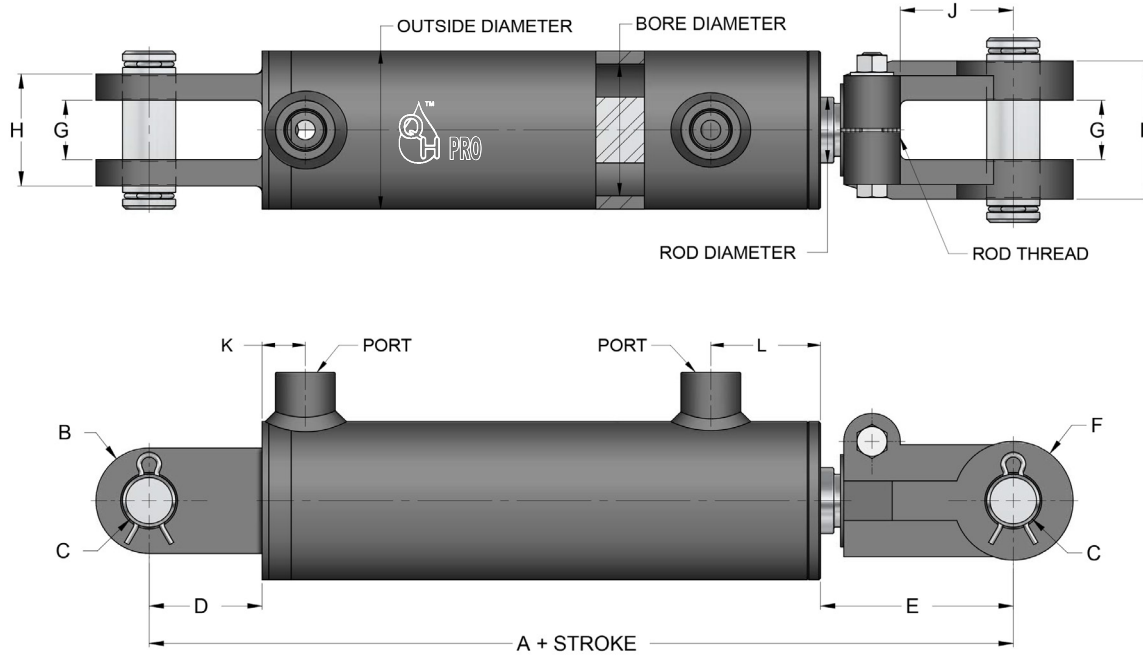
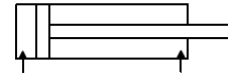


QHTMPRO IS NOT RESPONSIBLE FOR INCORRECT RESULTS OBTAINED WITH FIGURES IN THIS DOCUMENT. INFORMATION IS FOR REFERENCE ONLY. NO OTHER CONDITIONS ARE EXPRESSED OR IMPLIED.



CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS ADJUST.



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	ROD THREAD	*A	B	C	D	*E	F	G	H	I	J	K	L	PORT*
QHTCL15XX-S	1.50"	1.875"	1.00"	0.875-14 UNF	10.25"	1.50"	0.76"	1.62"	4.50"	1.62"	0.87"	2.44"	2.00"	1.62"	0.93"	1.87"	SAE 6
QHTCL20XX-S	2.00"	2.375"	1.12"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	3.62"	2.00"	1.14"	2.44"	2.50"	2.12"	0.81"	2.06"	SAE 8
QHTCL25XX-S	2.50"	2.875"	1.25"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	3.62"	2.00"	1.14"	2.72"	2.72"	2.12"	0.81"	2.06"	SAE 8
QHTCL30XX-S	3.00"	3.50"	1.50"	1.250-12 UNF	10.25"	2.00"	1.01"	2.00"	3.62"	2.00"	1.14"	2.72"	2.72"	2.12"	0.87"	2.18"	SAE 8
QHTCL35XX-S	3.50"	4.00"	1.75"	1.500-12 UNF	10.25"	2.00"	1.01"	2.00"	3.62"	2.00"	1.14"	2.72"	2.72"	2.12"	0.93"	2.18"	SAE 8
QHTCL40XX-S	4.00"	4.50"	2.00"	1.500-12 UNF	10.25"	2.00"	1.01"	2.12"	3.62"	2.00"	1.14"	2.72"	2.95"	2.12"	1.00"	2.18"	SAE 8

1. FOR 8.00" STROKE : A = 12.25"

2. FOR 8.00" STROKE : E = 6.50" (1.50" BORE) E = 5.62" (2.00" TO 4.00" BORE)

DIMENSIONS A AND E ARE FOR REFERENCES ONLY AS CLEVIS IS ADJUSTABLE

* NPT PORTS ARE ALSO AVAILABLE

MAXIMUM RETRACTED WORKING PRESSURE : 3000 PSI

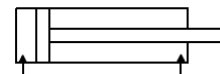
MAXIMUM EXTENDED WORKING PRESSURE : SEE TABLE

RETRACTED AND STROKE TOLERANCE $\pm 1/8"$



CYLINDERS

UTILITAIRES SOUDÉS / UTILITY WELDED CLEVIS ADJUST.



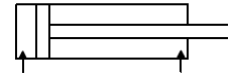
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHTCL1504-S	1.5" X 4"	14-1/4"	18-1/4"	1"	3/4"	SAE 6	5300	3000	10
QHTCL1506-S	1.5" X 6"	16-1/4"	22-1/4"				5300	3000	11
QHTCL1508-S	1.5" X 8"	18-1/4"	26-1/4"				5300	3000	12
QHTCL1508ASAE*	1.5" X 8"	20-1/4"	28-1/4"				5300	3000	13
QHTCL1510-S	1.5" X 10"	20-1/4"	30-1/4"				5300	3000	13
QHTCL1512-S	1.5" X 12"	22-1/4"	34-1/4"				5300	3000	15
QHTCL1514-S	1.5" X 14"	24-1/4"	38-1/4"				5300	3000	16
QHTCL1516-S	1.5" X 16"	26-1/4"	42-1/4"				5200	2900	17
QHTCL1518-S	1.5" X 18"	28-1/4"	46-1/4"				4400	2400	18
QHTCL1520-S	1.5" X 20"	30-1/4"	50-1/4"				3700	2100	20
QHTCL1524-S	1.5" X 24"	34-1/4"	58-1/4"				2700	1500	22
QHTCL1528-S	1.5" X 28"	38-1/4"	66-1/4"				2100	1200	25
QHTCL1530-S	1.5" X 30"	40-1/4"	70-1/4"				1900	1000	26
QHTCL1532-S	1.5" X 32"	42-1/4"	74-1/4"				1700	900	27
QHTCL1534-S	1.5" X 34"	44-1/4"	78-1/4"				1500	800	28
QHTCL1536-S	1.5" X 36"	46-1/4"	82-1/4"				1300	700	29
QHTCL2004-S	2" X 4"	14-1/4"	18-1/4"	1-1/8"	1"	SAE 8	9400	3000	16
QHTCL2006-S	2" X 6"	16-1/4"	22-1/4"				9400	3000	17
QHTCL2008-S	2" X 8"	18-1/4"	26-1/4"				9400	3000	19
QHTCL2008ASAE*	2" X 8"	20-1/4"	28-1/4"				9400	3000	19
QHTCL2010-S	2" X 10"	20-1/4"	30-1/4"				9400	3000	20
QHTCL2012-S	2" X 12"	22-1/4"	34-1/4"				9400	3000	22
QHTCL2014-S	2" X 14"	24-1/4"	38-1/4"				9400	3000	23
QHTCL2016-S	2" X 16"	26-1/4"	42-1/4"				8400	2600	25
QHTCL2018-S	2" X 18"	28-1/4"	46-1/4"				7000	2200	27
QHTCL2020-S	2" X 20"	30-1/4"	50-1/4"				5900	1900	28
QHTCL2024-S	2" X 24"	34-1/4"	58-1/4"				4400	1400	31
QHTCL2030-S	2" X 30"	40-1/4"	70-1/4"				3000	900	36
QHTCL2036-S	2" X 36"	46-1/4"	82-1/4"				2200	700	41
QHTCL2504-S	2.5" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	14700	3000	19
QHTCL2506-S	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	20
QHTCL2508-S	2.5" X 8"	18-1/4"	26-1/4"				14700	3000	22
QHTCL2508ASAE*	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	23
QHTCL2510-S	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	24
QHTCL2512-S	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	26
QHTCL2514-S	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	28
QHTCL2516-S	2.5" X 16"	26-1/4"	42-1/4"				12800	2600	30
QHTCL2518-S	2.5" X 18"	28-1/4"	46-1/4"				10700	2100	32
QHTCL2520-S	2.5" X 20"	30-1/4"	50-1/4"				9100	1800	34
QHTCL2524-S	2.5" X 24"	34-1/4"	58-1/4"				6700	1300	38
QHTCL2530-S	2.5" X 30"	40-1/4"	70-1/4"				4600	900	44
QHTCL2536-S	2.5" X 36"	46-1/4"	82-1/4"				3400	600	49

* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

* ASAE = AMERICAN SOCIETY OF AGRICULTURE ENGINEERS
DESIGNATES AN INDUSTRY MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS

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CYLINDERS

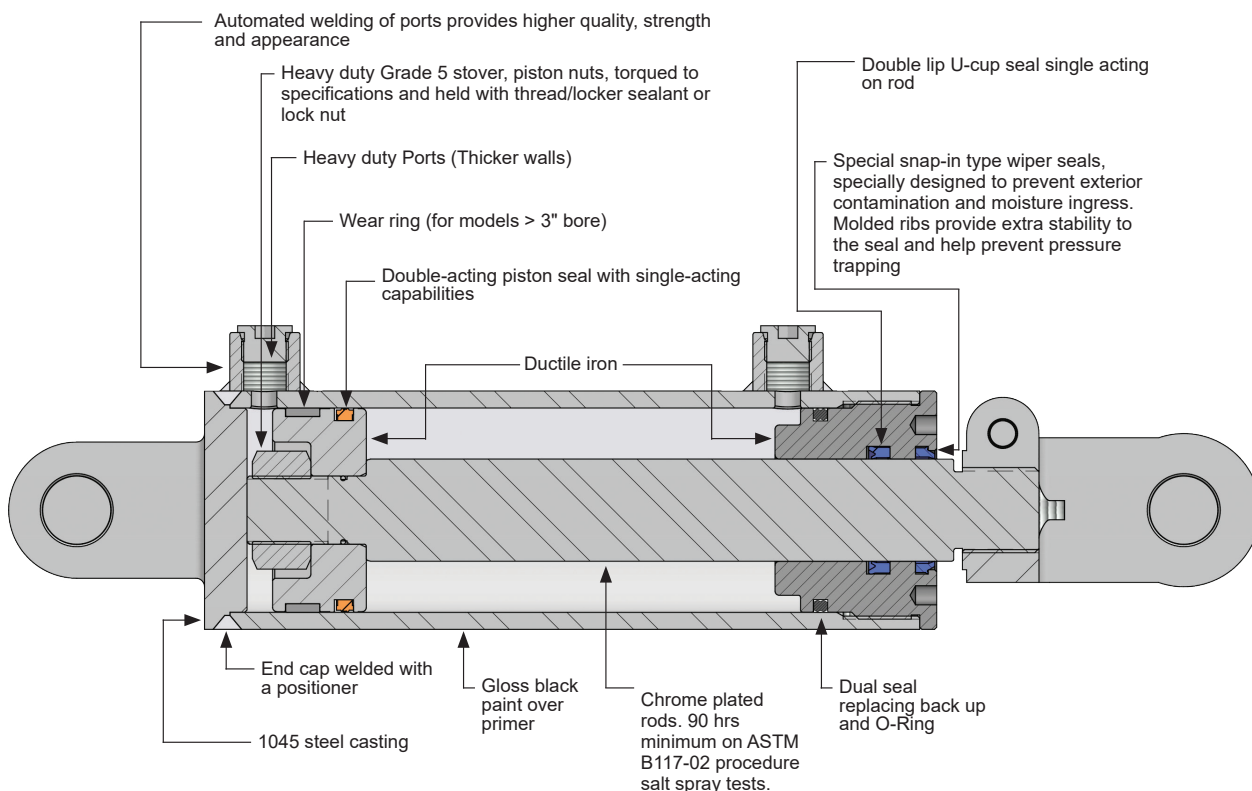
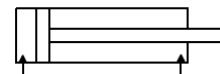
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHTCL3004-S	3" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	21200	3000	24
QHTCL3006-S	3" X 6"	16-1/4"	22-1/4"				21200	3000	26
QHTCL3008-S	3" X 8"	18-1/4"	26-1/4"				21200	3000	29
QHTCL3008ASAE*	3" X 8"	20-1/4"	28-1/4"				21200	3000	29
QHTCL3010-S	3" X 10"	20-1/4"	30-1/4"				21200	3000	31
QHTCL3012-S	3" X 12"	22-1/4"	34-1/4"				21200	3000	33
QHTCL3014-S	3" X 14"	24-1/4"	38-1/4"				21200	3000	36
QHTCL3016-S	3" X 16"	26-1/4"	42-1/4"				21200	3000	38
QHTCL3016ASAE*	3" X 16"	31-1/2"	47-1/2"				21200	3000	38
QHTCL3018-S	3" X 18"	28-1/4"	46-1/4"				21200	3000	41
QHTCL3020-S	3" X 20"	30-1/4"	50-1/4"				18800	2600	43
QHTCL3024-S	3" X 24"	34-1/4"	58-1/4"				14000	1900	48
QHTCL3030-S	3" X 30"	40-1/4"	70-1/4"				9600	1300	56
QHTCL3036-S	3" X 36"	46-1/4"	82-1/4"				7000	900	63
QHTCL3504-S	3.5" X 4"	14-1/4"	18-1/4"	1-3/4"	1"	SAE 8	28800	3000	29
QHTCL3506-S	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	32
QHTCL3508-S	3.5" X 8"	18-1/4"	26-1/4"				28800	3000	35
QHTCL3508ASAE*	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	36
QHTCL3510-S	3.5" X 10"	20-1/4"	30-1/4"				28800	3000	38
QHTCL3512-S	3.5" X 12"	22-1/4"	34-1/4"				28800	3000	41
QHTCL3514-S	3.5" X 14"	24-1/4"	38-1/4"				28800	3000	44
QHTCL3516-S	3.5" X 16"	26-1/4"	42-1/4"				28800	3000	47
QHTCL3516ASAE*	3.5" X 16"	31-1/2"	47-1/2"				28800	3000	47
QHTCL3518-S	3.5" X 18"	28-1/4"	46-1/4"				28800	3000	50
QHTCL3520-S	3.5" X 20"	30-1/4"	50-1/4"				28800	3000	53
QHTCL3524-S	3.5" X 24"	34-1/4"	58-1/4"				26000	2700	59
QHTCL3530-S	3.5" X 30"	40-1/4"	70-1/4"				17900	1800	68
QHTCL3536-S	3.5" X 36"	46-1/4"	82-1/4"				13000	1300	77
QHTCL4004-S	4" X 4"	14-1/4"	18-1/4"	2"	1"	SAE 8	37600	3000	35
QHTCL4006-S	4" X 6"	16-1/4"	22-1/4"				37600	3000	38
QHTCL4008-S	4" X 8"	18-1/4"	26-1/4"				37600	3000	42
QHTCL4008ASAE*	4" X 8"	20-1/4"	28-1/4"				37600	3000	43
QHTCL4010-S	4" X 10"	20-1/4"	30-1/4"				37600	3000	46
QHTCL4012-S	4" X 12"	22-1/4"	34-1/4"				37600	3000	49
QHTCL4014-S	4" X 14"	24-1/4"	38-1/4"				37600	3000	53
QHTCL4016-S	4" X 16"	26-1/4"	42-1/4"				37600	3000	57
QHTCL4016ASAE*	4" X 16"	31-1/2"	47-1/2"				37600	3000	57
QHTCL4018-S	4" X 18"	28-1/4"	46-1/4"				37600	3000	60
QHTCL4020-S	4" X 20"	30-1/4"	50-1/4"				37600	3000	64
QHTCL4024-S	4" X 24"	34-1/4"	58-1/4"				37600	3000	71
QHTCL4030-S	4" X 30"	40-1/4"	70-1/4"				30500	2400	82
QHTCL4036-S	4" X 36"	46-1/4"	82-1/4"				22200	1700	93

* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

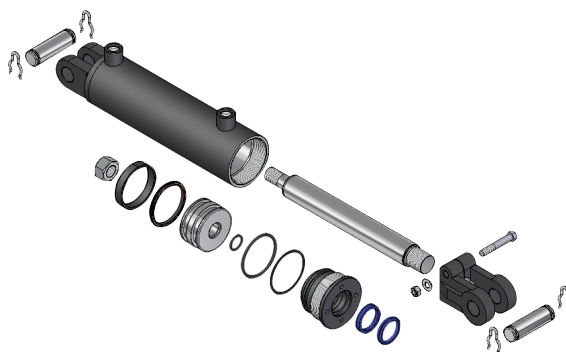
* ASAE = AMERICAN SOCIETY OF AGRICULTURE ENGINEERS

DESIGNATES AN INDUSTRY MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS



SEAL TEMPERATURE RANGE : -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED : 3 FT / SEC

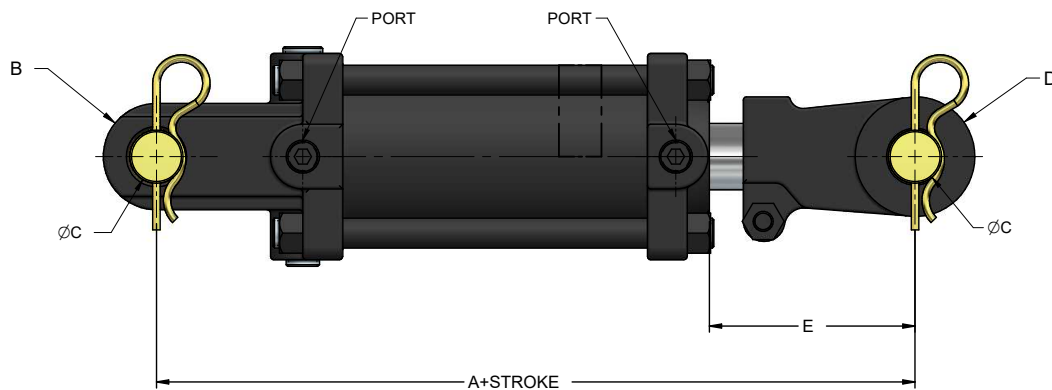
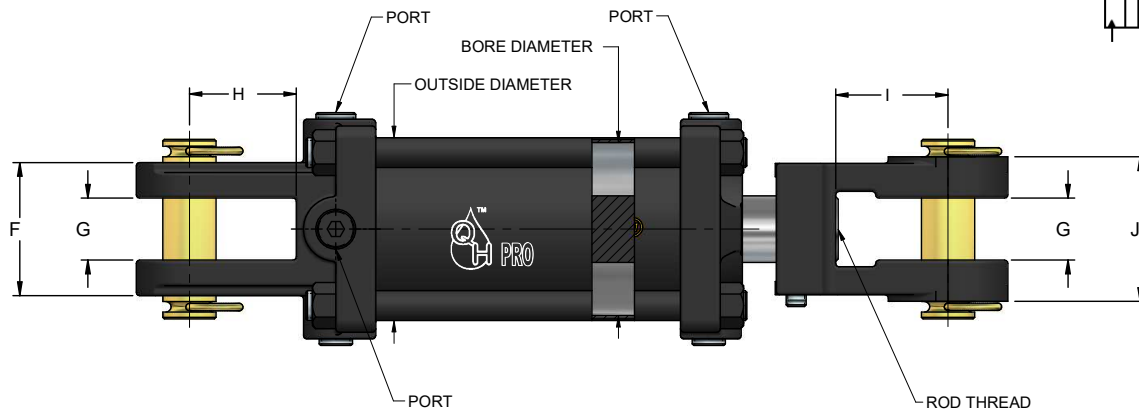
All seals are top grade/first quality North American made
All components are CNC machined for higher accuracy and conformity
Quality controlled in China by qualified Canadian technicians
100% tested. All cylinders are submitted to static and dynamic pressure tests to recommended specifications





CYLINDERS

A TIGES / TIE ROD CLEVIS ADJUST. 2500 PSI



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD THREAD ¹	A ²	B	C ³	D ⁴	E ⁵	F	G	H	I	J ⁴	PORTS
QHTR2.5-20-LA4	2.00"	2.38"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	3/8 NPT & SAE 8
QHTR2.5-25-LA4	2.50"	2.89"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	3/8 NPT & SAE 8
QHTR2.5-30-LA4	3.00"	3.39"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.14"	2.72"	1.14"	2.00"	2.12"	2.72"	1/2 NPT & SAE 8
QHTR2.5-35-LA4	3.50"	3.87"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.09"	2.72"	1.14"	2.00"	2.12"	2.72"	1/2 NPT & SAE 8
QHTR2.5-40-LA4	4.00"	4.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	3.82"	2.72"	1.14"	2.12"	2.12"	2.72"	1/2 NPT & SAE 8
QHTR2.5-50-LA4	5.00"	5.50"	1.500-12 UNF	12.25"	2.75"	1.26"	2.75"	5.00"	2.87"	1.25"	2.12"	2.12"	2.95"	1/2 NPT & SAE 10

1. FOR TR2.5-2518 TO TR2.5-2536: ROD THREAD= 1.250-12 UNF

2. FOR 8.00" ASAE STROKE: A= 12.25"
FOR 16.00" ASAE STROKE: A= 15.50"

3. FOR 16.00" ASAE STROKE: C= 1.26"

4. FOR TR2.5-4016-ASAE TO TR2.5-4036: D= 2.50" J=2.75" ROD THREAD= 1.500-12 UNF

5. FOR 8.00" ASAE STROKE: E= 5.75" (2.00" TO 3.00" BORE) E=5.62" (3.50" BORE) E=5.56" (4.00" BORE)
FOR 16.00" ASAE STROKE: E= 9.00" (2.00" TO 3.00" BORE) E=8.87" (3.50" BORE) E=8.81" (4.00" BORE)

MAXIMUM RETRACTED WORKING PRESSURE= 2500 psi

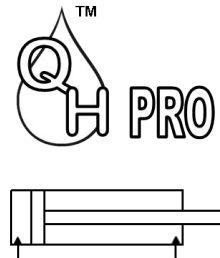
MAXIMUM EXTENDED WORKING PRESSURE= SEE TABLE

FOR ALL CYLINDER, RETRACTED TOLERANCE ± 1/8"

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A TIGES / TIE ROD CLEVIS ADJUST. 2500 PSI



CYLINDERS



PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHTR2.5-2004-LA4	2" X 4"	14 1/4"	18 1/4"	1-1/8"	1"	3/8 NPT & SAE 8	7800	2500	16
QHTR2.5-2006-LA4	2" X 6"	16 1/4"	22 1/4"				7800	2500	17
QHTR2.5-2008-LA4	2" X 8"	18 1/4"	26 1/4"				7800	2500	19
QHTR2.5-2008ASAE-LA4*	2" X 8"	20 1/4"	28 1/4"				7800	2500	20
QHTR2.5-2010-LA4	2" X 10"	20 1/4"	30 1/4"				7800	2500	20
QHTR2.5-2012-LA4	2" X 12"	22 1/4"	34 1/4"				7800	2500	22
QHTR2.5-2014-LA4	2" X 14"	24 1/4"	38 1/4"				7800	2500	24
QHTR2.5-2016-LA4	2" X 16"	26 1/4"	42 1/4"				7800	2500	25
QHTR2.5-2018-LA4	2" X 18"	28 1/4"	46 1/4"				7000	2200	27
QHTR2.5-2020-LA4	2" X 20"	30 1/4"	50 1/4"				5900	1900	28
QHTR2.5-2024-LA4	2" X 24"	34 1/4"	58 1/4"				4400	1400	31
QHTR2.5-2030-LA4	2" X 30"	40 1/4"	70 1/4"				3000	900	36
QHTR2.5-2036-LA4	2" X 36"	46 1/4"	82 1/4"				2200	700	41
QHTR2.5-2040-LA4	2" X 40"	50 1/4"	90 1/4"				1700	500	44
QHTR2.5-2048-LA4	2" X 48"	58 1/4"	106 1/4"				1300	400	49
QHTR2.5-2504-LA4	2.5" X 4"	14 1/4"	18 1/4"	1-1/8"	1"	3/8 NPT & SAE 8	12200	2500	19
QHTR2.5-2506-LA4	2.5" X 6"	16 1/4"	22 1/4"				12200	2500	21
QHTR2.5-2508-LA4	2.5" X 8"	18 1/4"	26 1/4"				12200	2500	22
QHTR2.5-2508ASAE-LA4*	2.5" X 8"	20 1/4"	28 1/4"				12200	2500	23
QHTR2.5-2510-LA4	2.5" X 10"	20 1/4"	30 1/4"				12200	2500	24
QHTR2.5-2512-LA4	2.5" X 12"	22 1/4"	34 1/4"				12200	2500	26
QHTR2.5-2514-LA4	2.5" X 14"	24 1/4"	38 1/4"				10300	2100	28
QHTR2.5-2516-LA4	2.5" X 16"	26 1/4"	42 1/4"				8400	1700	29
QHTR2.5-2518-LA4	2.5" X 18"	28 1/4"	46 1/4"				7000	1400	32
QHTR2.5-2520-LA4	2.5" X 20"	30 1/4"	50 1/4"				5900	1200	34
QHTR2.5-2524-LA4	2.5" X 24"	34 1/4"	58 1/4"				4400	900	38
QHTR2.5-2530-LA4	2.5" X 30"	40 1/4"	70 1/4"				4400	900	43
QHTR2.5-2536-LA4	2.5" X 36"	46 1/4"	82 1/4"				3400	600	49
QHTR2.5-2540-LA4	2.5" X 40"	50 1/4"	90 1/4"				2700	500	54
QHTR2.5-2548-LA4	2.5" X 48"	58 1/4"	106 1/4"				2000	400	60
QHTR2.5-3004-LA4	3" X 4"	14 1/4"	18 1/4"	1-1/4"	1"	1/2 NPT & SAE 8	17600	2500	24
QHTR2.5-3006-LA4	3" X 6"	16 1/4"	22 1/4"				17600	2500	26
QHTR2.5-3008-LA4	3" X 8"	18 1/4"	26 1/4"				17600	2500	28
QHTR2.5-3008ASAE-LA4*	3" X 8"	20 1/4"	28 1/4"				17600	2500	29
QHTR2.5-3010-LA4	3" X 10"	20 1/4"	30 1/4"				17600	2500	30
QHTR2.5-3012-LA4	3" X 12"	22 1/4"	34 1/4"				17600	2500	33
QHTR2.5-3014-LA4	3" X 14"	24 1/4"	38 1/4"				15700	2200	35
QHTR2.5-3016-LA4	3" X 16"	26 1/4"	42 1/4"				12800	1800	37
QHTR2.5-3016ASAE-LA4*	3" X 16"	31 1/2"	47 1/2"				9200	1300	42
QHTR2.5-3018-LA4	3" X 18"	28 1/4"	46 1/4"				11300	1600	42
QHTR2.5-3020-LA4	3" X 20"	30 1/4"	50 1/4"				9200	1300	44
QHTR2.5-3024-LA4	3" X 24"	34 1/4"	58 1/4"				6700	900	49
QHTR2.5-3030-LA4	3" X 30"	40 1/4"	70 1/4"				9600	1300	57
QHTR2.5-3036-LA4	3" X 36"	46 1/4"	82 1/4"				7000	900	65
QHTR2.5-3040-LA4	3" X 40"	50 1/4"	90 1/4"				5700	800	70
QHTR2.5-3048-LA4	3" X 48"	58 1/4"	106 1/4"				3900	500	80

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

* ASAE = AMERICAN SOCIETY OF AGRICULTURE ENGINEERS
DESIGNATES AN INDUSTRY MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS

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A TIGES / TIE ROD CLEVIS ADJUST. 2500 PSI



CYLINDERS

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	PRESSURE (PSI)	WEIGHT (LBS)	
		RETRACTED	EXTENDED							
QHTR2.5-3504-LA4	3.5" X 4"	14 1/4"	18 1/4"	1 1/4"	1"	1/2 NPT & SAE 8	24000	2500	29	
QHTR2.5-3506-LA4	3.5" X 6"	16 1/4"	22 1/4"				24000	2500	32	
QHTR2.5-3508-LA4	3.5" X 8"	18 1/4"	26 1/4"				24000	2500	34	
QHTR2.5-3508ASAE-LA4*	3.5" X 8"	20 1/4"	28 1/4"				24000	2500	35	
QHTR2.5-3510-LA4	3.5" X 10"	20 1/4"	30 1/4"				24000	2500	37	
QHTR2.5-3512-LA4	3.5" X 12"	22 1/4"	34 1/4"				19600	2000	39	
QHTR2.5-3514-LA4	3.5" X 14"	24 1/4"	38 1/4"				15700	1600	42	
QHTR2.5-3516-LA4	3.5" X 16"	26 1/4"	42 1/4"	1 1/2"	1 1/4"		12800	1300	44	
QHTR2.5-3516ASAE-LA4*	3.5" X 16"	31 1/2"	47 1/2"				21100	2100	50	
QHTR2.5-3518-LA4	3.5" X 18"	28 1/4"	46 1/4"	1 1/4"	1"		10700	1100	47	
QHTR2.5-3520-LA4	3.5" X 20"	30 1/4"	50 1/4"				9100	900	49	
QHTR2.5-3524-LA4	3.5" X 24"	34 1/4"	58 1/4"	14000			1400	58		
QHTR2.5-3530-LA4	3.5" X 30"	40 1/4"	70 1/4"	9600			1000	66		
QHTR2.5-3536-LA4	3.5" X 36"	46 1/4"	82 1/4"	7000			700	74		
QHTR2.5-3540-LA4	3.5" X 40"	50 1/4"	90 1/4"	5800			600	80		
QHTR2.5-3548-LA4	3.5" X 48"	58 1/4"	106 1/4"	3900			400	91		
QHTR2.5-4004-LA4	4" X 4"	14 1/4"	18 1/4"	1 1/2"		1"	1/2 NPT & SAE 8	31400	2500	33
QHTR2.5-4006-LA4	4" X 6"	16 1/4"	22 1/4"					31400	2500	36
QHTR2.5-4008-LA4	4" X 8"	18 1/4"	26 1/4"		31400			2500	38	
QHTR2.5-4008ASAE-LA4*	4" X 8"	20 1/4"	28 1/4"		31400			2500	39	
QHTR2.5-4010-LA4	4" X 10"	20 1/4"	30 1/4"		31400			2500	41	
QHTR2.5-4012-LA4	4" X 12"	22 1/4"	34 1/4"		31400			2500	44	
QHTR2.5-4014-LA4	4" X 14"	24 1/4"	38 1/4"		31400			2500	46	
QHTR2.5-4016-LA4	4" X 16"	26 1/4"	42 1/4"	2"	1 1/4"	26700		2100	49	
QHTR2.5-4016ASAE-LA4*	4" X 16"	31 1/2"	47 1/2"			31400		2500	63	
QHTR2.5-4018-LA4	4" X 18"	28 1/4"	46 1/4"	1 1/2"	1"	22300		1700	55	
QHTR2.5-4020-LA4	4" X 20"	30 1/4"	50 1/4"			18800		1500	58	
QHTR2.5-4024-LA4	4" X 24"	34 1/4"	58 1/4"			14000		1100	64	
QHTR2.5-4024-175-LA4	4" X 24"	34 1/4"	58 1/4"	1 3/4"		26000		2050	68	
QHTR2.5-4024-200-LA4	4" X 24"	34 1/4"	58 1/4"			31400		2500	73	
QHTR2.5-4030-LA4	4" X 30"	40 1/4"	70 1/4"	2"		30500		2400	84	
QHTR2.5-4036-LA4	4" X 36"	46 1/4"	82 1/4"			22200		1700	95	
QHTR2.5-4040-LA4	4" X 40"	50 1/4"	90 1/4"			18200		1400	103	
QHTR2.5-4048-LA4	4" X 48"	58 1/4"	106 1/4"			13200		1000	118	

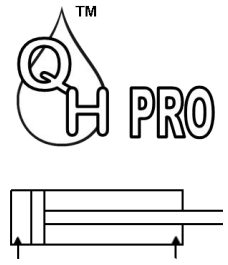
NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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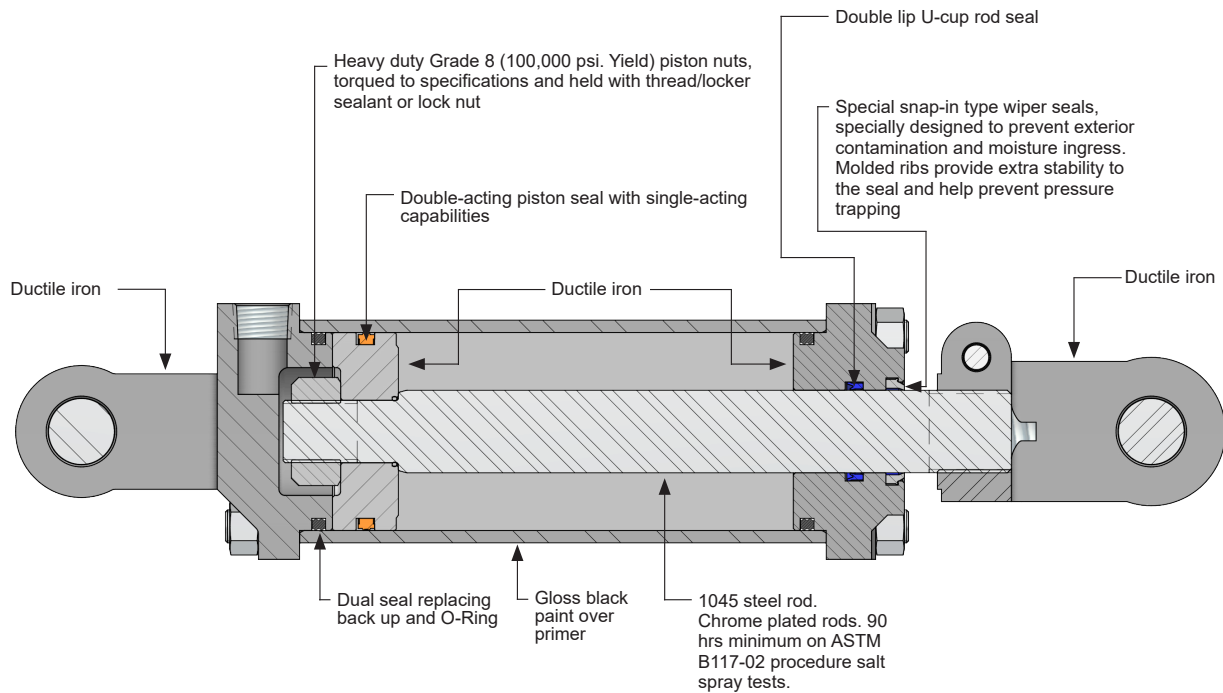
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A TIGES / TIE ROD CLEVIS ADJUST. 3000 PSI



CYLINDERS



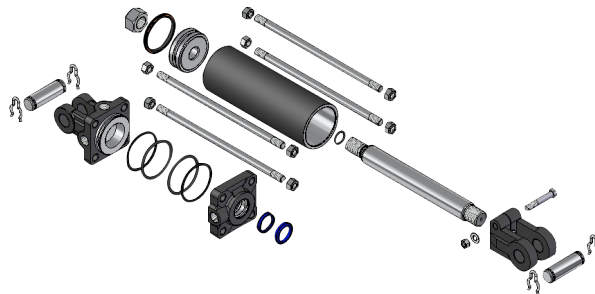
SEAL TEMPERATURE RANGE: -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED: 3 FT / SEC

All seals are top grade/first quality North American made

All components are CNC machined for higher accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are submitted to static and dynamic pressure tests to recommended specifications

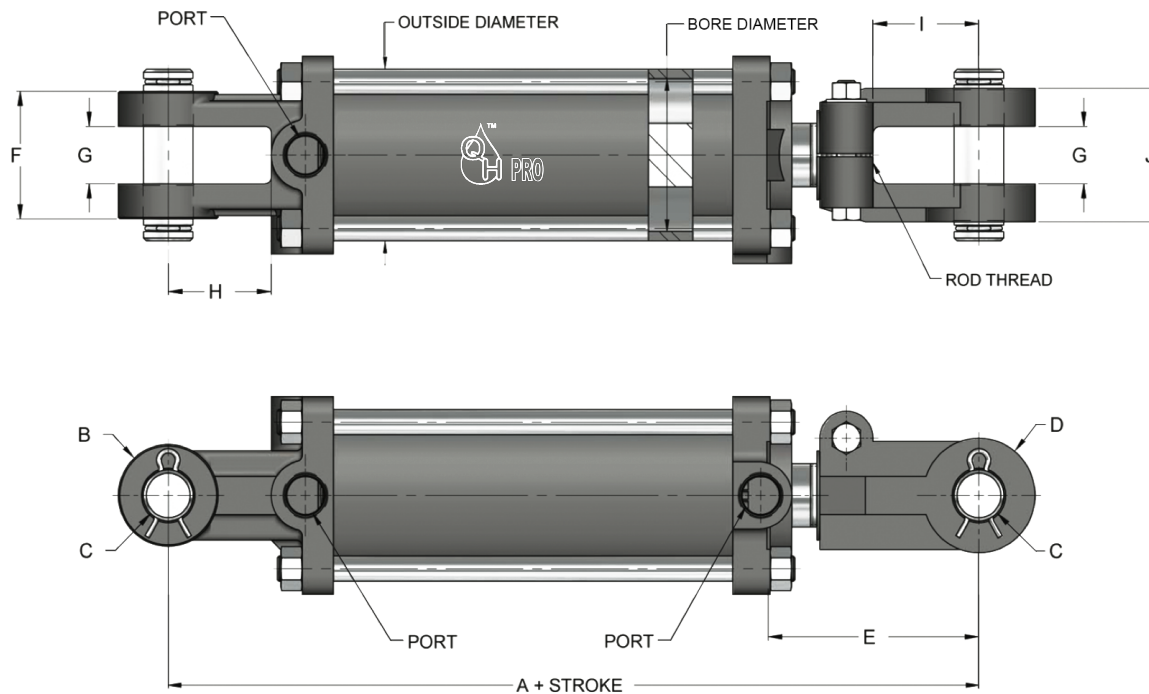
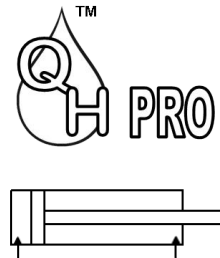


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CYLINDERS

A TIGES / TIE ROD CLEVIS ADJUST. 3000 PSI

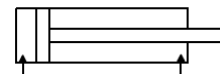


PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD THREAD	A1	B	C2	D	E3	F	G4	H	I	J	PORTS
QHTR3-20	2.00"	2.38"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE 8
QHTR3-25	2.50"	2.89"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE 8
QHTR3-30	3.00"	3.39"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.14"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE 8
QHTR3-35	3.50"	4.00"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.09"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE 8
QHTR3-40	4.00"	4.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	3.82"	2.72"	1.14"	2.12"	2.12"	2.72"	SAE 8
QHTR3-50	5.00"	5.50"	1.500-12 UNF	12.25"	2.75"	1.26"	2.75"	5.00"	2.87"	1.25"	2.12"	2.12"	2.95"	SAE 10

1. FOR 8.00" ASAE STROKE : A = 12.25"
FOR 16.00" ASAE STROKE : A = 15.50"
 2. FOR 16.00" ASAE STROKE : C = 1.26"
 3. FOR 8.00" ASAE STROKE : E = 5.75" (2.00" TO 3.00" BORE) E = 5.62" (3.50" BORE) E = 5.56" (4.00" BORE)
FOR 16.00" ASAE STROKE : E = 9.00" (3.00" BORE) E = 8.87" (3.50" BORE) E = 8.81" (4.00" BORE) E = 7.43" (5.00" BORE)
 4. FOR 5.00" BORE : G (FRONT CLEVIS) = 1.18" G (END CAP) = 1.31"
- MAXIMUM RETRACTED WORKING PRESSURE = 3000 psi
MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE
RETRACTED AND STROKE TOLERANCE $\pm 1/8"$
DIMENSIONS A AND E ARE FOR REFERENCES ONLY AS CLEVIS IS ADJUSTABLE
* NPT PORTS ARE ALSO AVAILABLE.



A TIGES / TIE ROD CLEVIS ADJUST. 3000 PSI



CYLINDERS

PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
QHTR3-2004-S	2" X 4"	14-1/4"	18-1/4"	1-1/8"	1"	SAE 8	9400	3000	17
QHTR3-2006-S	2" X 6"	16-1/4"	22-1/4"				9400	3000	19
QHTR3-2008-S	2" X 8"	18-1/4"	26-1/4"				9400	3000	21
QHTR3-2008ASAE*	2" X 8"	20-1/4"	28-1/4"				9400	3000	22
QHTR3-2010-S	2" X 10"	20-1/4"	30-1/4"				9400	3000	23
QHTR3-2012-S	2" X 12"	22-1/4"	34-1/4"				9400	3000	25
QHTR3-2014-S	2" X 14"	24-1/4"	38-1/4"				9400	3000	27
QHTR3-2016-S	2" X 16"	26-1/4"	42-1/4"				8400	2600	28
QHTR3-2018-S	2" X 18"	28-1/4"	46-1/4"				7000	2200	30
QHTR3-2020-S	2" X 20"	30-1/4"	50-1/4"				5900	1900	32
QHTR3-2024-S	2" X 24"	34-1/4"	58-1/4"				4400	1400	36
QHTR3-2030-S	2" X 30"	40-1/4"	70-1/4"				3000	900	41
QHTR3-2036-S	2" X 36"	46-1/4"	82-1/4"				2200	700	47
QHTR3-2504-S	2.5" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	14700	3000	22
QHTR3-2506-S	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	24
QHTR3-2508-S	2.5" X 8"	18-1/4"	26-1/4"				14700	3000	26
QHTR3-2508ASAE*	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	27
QHTR3-2510-S	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	29
QHTR3-2512-S	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	31
QHTR3-2514-S	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	34
QHTR3-2516-S	2.5" X 16"	26-1/4"	42-1/4"				12800	2600	36
QHTR3-2518-S	2.5" X 18"	28-1/4"	46-1/4"				10700	2100	38
QHTR3-2520-S	2.5" X 20"	30-1/4"	50-1/4"				9100	1800	41
QHTR3-2524-S	2.5" X 24"	34-1/4"	58-1/4"				6700	1300	45
QHTR3-2530-S	2.5" X 30"	40-1/4"	70-1/4"				4600	900	53
QHTR3-2536-S	2.5" X 36"	46-1/4"	82-1/4"				3400	600	60
QHTR3-3004-S	3" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	21200	3000	26
QHTR3-3006-S	3" X 6"	16-1/4"	22-1/4"				21200	3000	29
QHTR3-3008-S	3" X 8"	18-1/4"	26-1/4"				21200	3000	32
QHTR3-3008ASAE*	3" X 8"	20-1/4"	28-1/4"				21200	3000	32
QHTR3-3010-S	3" X 10"	20-1/4"	30-1/4"				21200	3000	34
QHTR3-3012-S	3" X 12"	22-1/4"	34-1/4"				21200	3000	37
QHTR3-3014-S	3" X 14"	24-1/4"	38-1/4"				21200	3000	40
QHTR3-3016-S	3" X 16"	26-1/4"	42-1/4"				18800	2600	43
QHTR3-3016-ASAE*	3" X 16"	31-1/2"	47-1/2"	1-1/4"	14900		2100	45	
QHTR3-3018-S	3" X 18"	28-1/4"	46-1/4"	1-1/2"	1"		15700	2200	45
QHTR3-3020-S	3" X 20"	30-1/4"	50-1/4"				13300	1800	48
QHTR3-3024-S	3" X 24"	34-1/4"	58-1/4"				9900	1400	53
QHTR3-3030-S	3" X 30"	40-1/4"	70-1/4"				6800	900	62
QHTR3-3036-S	3" X 36"	46-1/4"	82-1/4"				4900	700	70

* NPT PORTS ARE ALSO AVAILABLE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

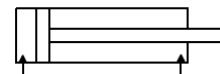
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A TIGES / TIE ROD CLEVIS ADJUST. 3000 PSI



CYLINDERS



PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)	
		RETRACTED	EXTENDED							
QHTR3-3504-S	3.5" X 4"	14-1/4"	18-1/4"	1-3/8"	1"	SAE 8	28800	3000	34	
QHTR3-3506-S	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	37	
QHTR3-3508-S	3.5" X 8"	18-1/4"	26-1/4"				28800	3000	40	
QHTR3-3508-ASAE*	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	41	
QHTR3-3510-S	3.5" X 10"	20-1/4"	30-1/4"				28300	2900	44	
QHTR3-3512-S	3.5" X 12"	22-1/4"	34-1/4"				28700	2900	47	
QHTR3-3514-S	3.5" X 14"	24-1/4"	38-1/4"				23000	2300	50	
QHTR3-3516-S	3.5" X 16"	26-1/4"	42-1/4"				18800	1900	53	
QHTR3-3516ASAE*	3.5" X 16"	31-1/2"	47-1/2"	1-1/2"	1-1/4"		14900	1500	56	
QHTR3-3518-S	3.5" X 18"	28-1/4"	46-1/4"		1"		15700	1600	56	
QHTR3-3520-S	3.5" X 20"	30-1/4"	50-1/4"				13300	1300	60	
QHTR3-3524-S	3.5" X 24"	34-1/4"	58-1/4"				9900	1000	66	
QHTR3-3530-S	3.5" X 30"	40-1/4"	70-1/4"				6800	700	76	
QHTR3-3536-S	3.5" X 36"	46-1/4"	82-1/4"				4900	500	85	
QHTR3-4004-S	4" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	37600	3000	41	
QHTR3-4006-S	4" X 6"	16-1/4"	22-1/4"				37600	3000	45	
QHTR3-4008-S	4" X 8"	18-1/4"	26-1/4"				37600	3000	49	
QHTR3-4008ASAE*	4" X 8"	20-1/4"	28-1/4"				37600	3000	50	
QHTR3-4010-S	4" X 10"	20-1/4"	30-1/4"				37600	3000	52	
QHTR3-4012-S	4" X 12"	22-1/4"	34-1/4"				37600	3000	56	
QHTR3-4014-S	4" X 14"	24-1/4"	38-1/4"				37600	3000	60	
QHTR3-4016-S	4" X 16"	26-1/4"	42-1/4"				37600	3000	64	
QHTR3-4016ASAE*	4" X 16"	31-1/2"	47-1/2"	1-3/4"	1-1/4"		37600	3000	68	
QHTR3-4018-S	4" X 18"	28-1/4"	46-1/4"		1"		37600	3000	68	
QHTR3-4020-S	4" X 20"	30-1/4"	50-1/4"				35000	2700	72	
QHTR3-4024-S	4" X 24"	34-1/4"	58-1/4"				26000	2000	80	
QHTR3-4030-S	4" X 30"	40-1/4"	70-1/4"				17900	1400	92	
QHTR3-4036-S	4" X 36"	46-1/4"	82-1/4"				13000	1000	104	
QHTR3-5004-S	5" X 4"	16-1/4"	20-1/4"	2"	1-1/4"	SAE 8	58900	3000	71	
QHTR3-5006-S	5" X 6"	18-1/4"	24-1/4"				58900	3000	76	
QHTR3-5008ASAE*	5" X 8"	22-1/4"	30-1/4"				58900	3000	81	
QHTR3-5010-S	5" X 10"	22-1/4"	32-1/4"				58900	3000	86	
QHTR3-5012-S	5" X 12"	24-1/4"	36-1/4"				58900	3000	91	
QHTR3-5014-S	5" X 14"	26-1/4"	40-1/4"				58900	3000	96	
QHTR3-5016-S	5" X 16"	28-1/4"	44-1/4"				58900	3000	101	
QHTR3-5016ASAE*	5" X 16"	31-1/2"	47-1/2"				58900	3000	104	
QHTR3-5018-S	5" X 18"	30-1/4"	48-1/4"				58900	3000	106	
QHTR3-5020-S	5" X 20"	32-1/4"	52-1/4"				55200	2800	112	
QHTR3-5024-S	5" X 24"	36-1/4"	60-1/4"				41500	2100	122	
QHTR3-5030-S	5" X 30"	42-1/4"	72-1/4"				28800	1400	137	
QHTR3-5036-S	5" X 36"	48-1/4"	84-1/4"				21200	1000	153	

* NPT PORTS ARE ALSO AVAILABLE.

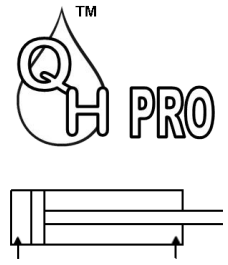
NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

* ASAE = AMERICAN SOCIETY OF AGRICULTURE ENGINEERS

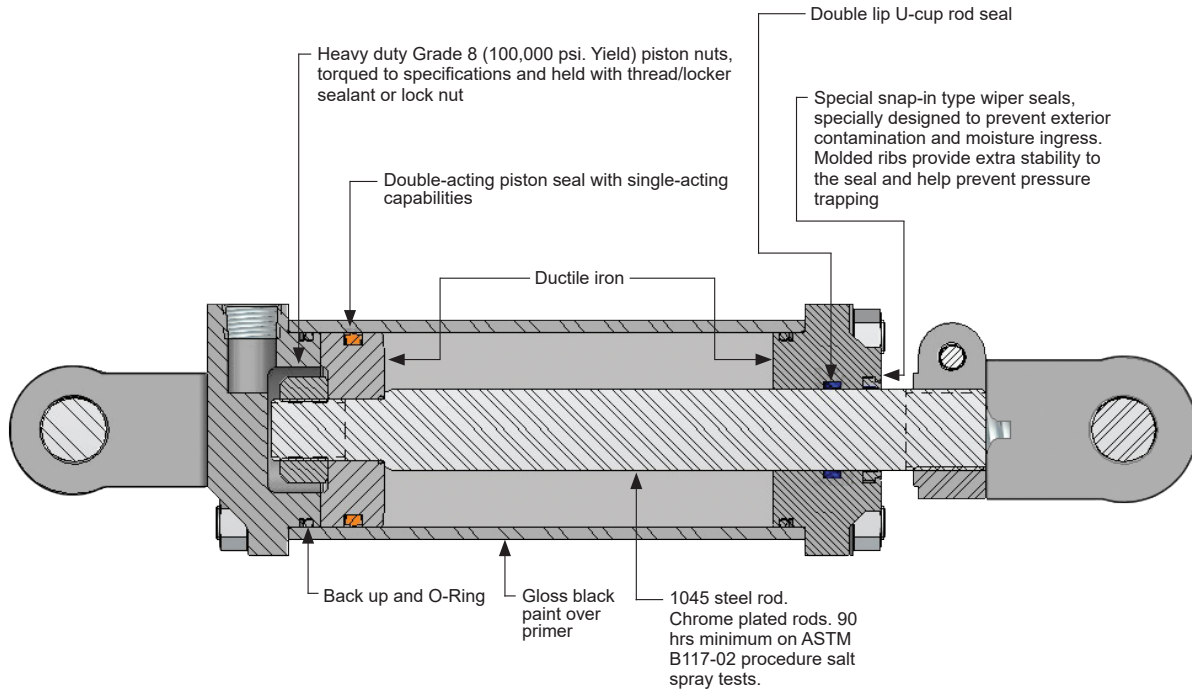
DESIGNATES AN INDUSTRY MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS



A TIGES / TIE ROD CLEVIS ADJUST. 3000 PSI

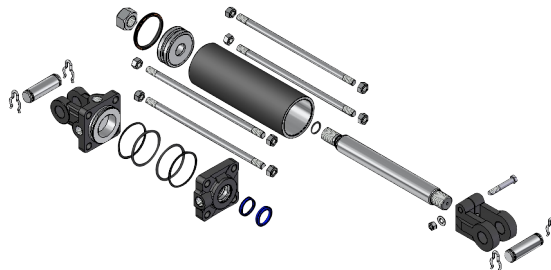


CYLINDERS



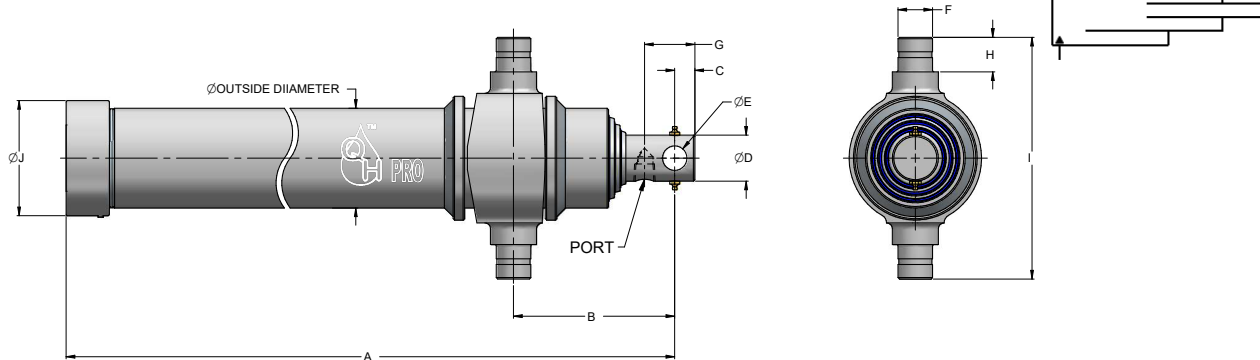
SEAL TEMPERATURE RANGE : -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED : 3 FT / SEC

All seals are top grade/first quality North American made
All components are CNC machined for higher accuracy and conformity
Quality controlled in China by qualified Canadian technicians
100% tested. All cylinders are submitted to static and dynamic pressure tests to recommended specifications





TÉLESCOPIQUE INVERSÉS / INVERTED TELESCOPIC



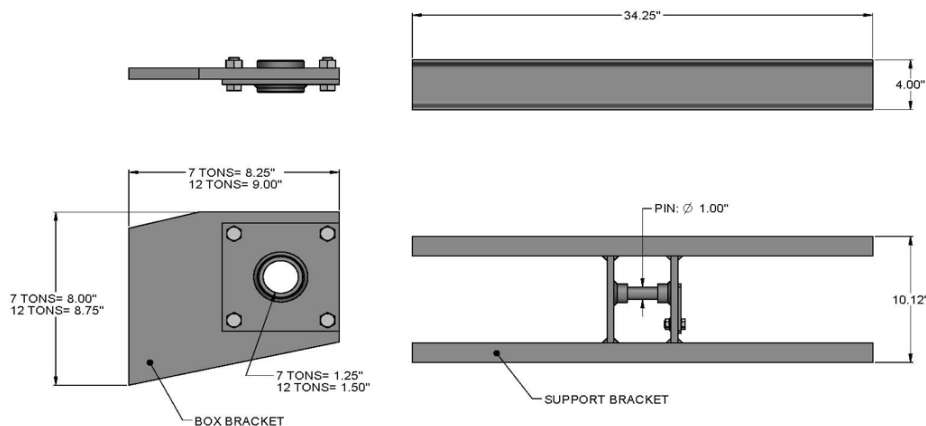
7 TONS-INVERTED TELESCOPIC CYLINDERS (2100 PSI MAX. WORKING PRESSURE)

PART NUMBER	CAPACITY	STROKE	OUTSIDE DIAMETER	A	B	C	D	E	F	G	H	I	J	PORT	WEIGHT (LBS)
QHTC-07833-S-PT	7 TONS	78"	3.75"	34.62"	7.00"	0.87"	2.00"	1.015"	1.25"	2.25"	1.25"	9.00"	4.25"	1/2 SAE-08	86
QHTC-09033-S-PT		90"	3.75"	38.62"											94
QHTC-10833-S-PT		108"	3.75"	44.62"											106

12 TONS-INVERTED TELESCOPIC CYLINDERS (2450 PSI MAX. WORKING PRESSURE)

PART NUMBER	CAPACITY	STROKE	OUTSIDE DIAMETER	A	B	C	D	E	F	G	H	I	J	PORT	WEIGHT (LBS)
QHTC-07843-S-PT	12 TONS	78"	4.50"	33.87"	7.00"	0.87"	2.00"	1.015"	1.50"	2.25"	1.50"	10.50"	5.00"	1/2 SAE-0	99
QHTC-09043-S-PT		90"	4.50"	37.87"											109
QHTC-10843-S-PT		108"	4.50"	43.87"											125
QHTC-12043-S-PT		120"	4.50"	47.87"	13.00"										138
QHTC-12043M-S-PT		120"	4.50"	47.87"											137
QHTC-13243M-S-PT		132"	4.50"	51.87"											157
QHTC-14443M-S-PT		144"	4.50"	55.87"											171

RETRACTED TOLERANCE $\pm 1/8"$



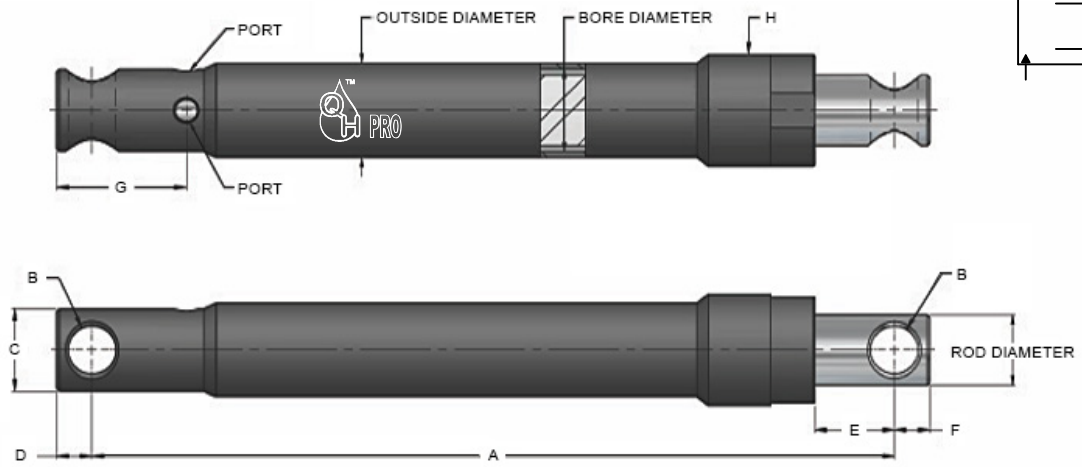
TELESCOPIC ACCESSORIES

PART NUMBER	DESCRIPTION
TC-SB	BRACKET FOR 7 AND 12 TONS
TC-S07	BOX BRACKET KIT 7 TONS
TC-S12	BOX BRACKET KIT 12 TONS



CYLINDERS

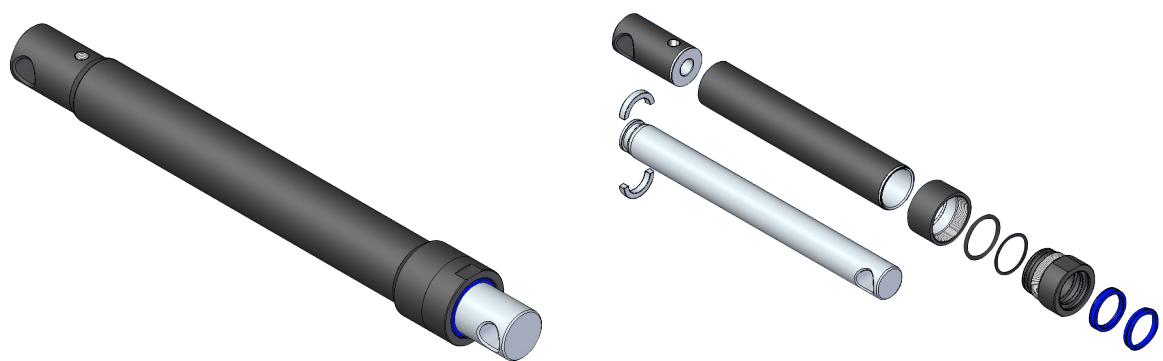
PELLE A NEIGE / SNOW PLOW



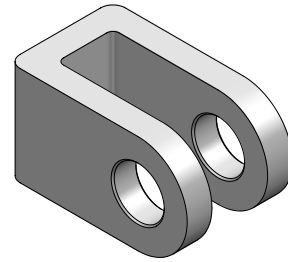
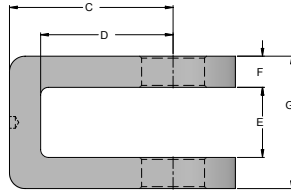
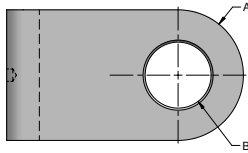
PART NUMBER	REPLACEMENT	BORE & STROKE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORT	WEIGHT (LBS)
ASP-1510-0750	ARCTIC	1.75" X 10.00"	2.00"	1.50"	17.00"	0.76"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	12
ASP-1512-0750	ARCTIC	1.75" X 12.00"	2.00"	1.50"	19.00"	0.76"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	13
FSP-1510-1000	FISHER	1.75" X 10.00"	2.00"	1.50"	17.00"	1.01"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	11
FSP-1512-1000	FISHER	1.75" X 12.00"	2.00"	1.50"	19.25"	1.01"	1.75"	0.75"	1.93"	0.75"	2.75"	2.37"	1/4-NPT (2X)	13
FSP-2016-1250	FISHER	2.25" X 16.00"	2.50"	2.00"	23.25"	1.26"	2.25"	0.87"	1.75"	0.87"	2.75"	3.00"	1/4-NPT (2X)	27
MSP-1506-0625	MEYER	1.75" X 6.00"	2.00"	1.50"	12.37"	0.63"	1.62"	0.75"	1.56"	0.75"	2.12"	2.37"	1/4-NPT	9
MSP-1510-0625	MEYER	1.75" X 10.00"	2.00"	1.50"	16.18"	0.63"	1.62"	0.75"	1.62"	0.75"	2.12"	2.37"	1/4-NPT	14
MSP-1512-0625	MEYER	1.75" X 12.00"	2.00"	1.50"	18.00"	0.63"	1.62"	0.75"	1.43"	0.75"	2.12"	2.37"	1/4-NPT	15
MSP-2012-0625	MEYER	2.25" X 12.00"	2.50"	2.00"	18.00"	0.63"	1.62"	0.75"	0.75"	0.75"	2.25"	3.00"	1/4-NPT	24
WSP-1506-0750	WESTERN	1.75" X 6.00"	2.00"	1.50"	13.00"	0.76"	1.75"	0.68"	1.37"	0.68"	2.75"	2.37"	1/4-NPT (2X)	11
WSP-1508-0750	WESTERN	1.75" X 8.00"	2.00"	1.50"	15.25"	0.76"	1.75"	0.68"	1.62"	0.68"	2.75"	2.37"	1/4-NPT (2X)	12
WSP-1510-0750	WESTERN	1.75" X 10.00"	2.00"	1.50"	17.25"	0.76"	1.75"	0.68"	1.62"	0.68"	2.75"	2.37"	1/4-NPT (2X)	14
WSP-1510-1000	WESTERN	1.75" X 10.00"	2.00"	1.50"	17.00"	1.01"	1.75"	0.75"	1.43"	0.75"	2.75"	2.37"	1/4-NPT (2X)	14
WSP-2006-0750	WESTERN	2.25" X 6.00"	2.50"	2.00"	13.18"	0.76"	2.25"	0.75"	1.56"	0.75"	2.75"	3.00"	1/4-NPT (2X)	18
WSP-2010-1000	WESTERN	2.25" X 10.00"	2.50"	2.00"	17.25"	1.01"	2.25"	0.75"	1.62"	0.75"	2.75"	3.00"	1/4-NPT (2X)	22
WSP-2016-1000	WESTERN	2.25" X 16.00"	2.50"	2.00"	23.31"	1.01"	2.25"	0.75"	1.68"	0.75"	2.56"	3.00"	1/4-NPT (2X)	31

SEAL TEMPERATURE RANGE : -30 °C / +100 °C (-22 °F / +212 °F)
SEAL MAXIMUM SPEED : 3 FT / SEC

CYLINDER WITH 1 PORT = PORT IN LINE WITH PIN HOLE
RETRACTED AND STROKE TOLERANCE ± 1/8"



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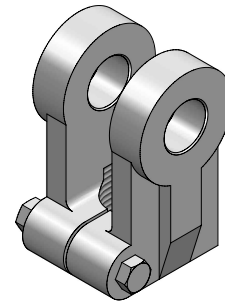
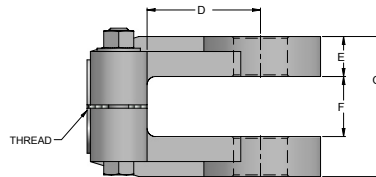
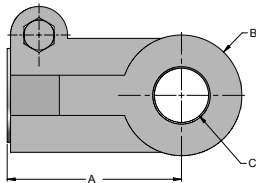


FEMALE CLEVIS

PART NUMBER	A	B	C	D	E	F	G	MAXIMUM LOAD PUSH / PULL (LBS)
CL-100075-CLP	1.50"	0.76"	1.75"	1.37"	0.87"	0.37"	1.62"	5300
CL-125100-CLP	2.00"	1.01"	2.62"	2.12"	1.12"	0.50"	2.12"	22500
CL-175100-CLP	2.00"	1.01"	2.62"	2.12"	1.12"	0.62"	2.37"	28100
CL-200100-CLP	2.00"	1.01"	2.62"	2.00"	1.12"	0.62"	2.37"	28100
CL-250150-CLP	3.00"	1.51"	3.00"	2.25"	1.62"	0.75"	3.12"	50600

MATERIAL : C1045 CAST STEEL

MAXIMUM PUSHING & PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2

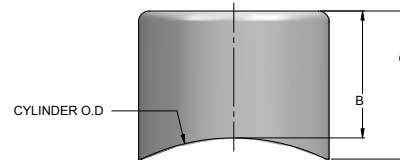
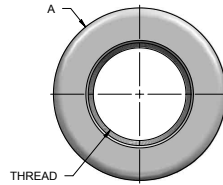
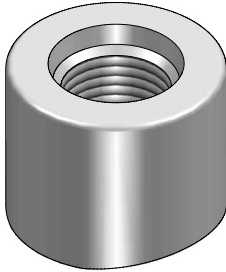


ADJUSTABLE CLEVIS

PART NUMBER	THREAD	A	B	C	D	E	F	G	MAXIMUM LOAD PUSH / PULL (LBS)
ST-0870718-CVP	0.875-14 UNF	2.75"	1.87"	0.76"	1.62"	0.56"	0.87"	2.00"	5300
ST-1121020-CVP	1.125-12 UNF	3.25"	2.00"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
ST-1121022-CVP	1.125-12 UNF	3.25"	2.25"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
ST-1121222-CVP	1.125-12 UNF	3.25"	2.25"	1.26"	2.12"	0.75"	1.12"	2.62"	23000
ST-1251022-CVP	1.250-12 UNF	3.25"	2.25"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
ST-1311025-CVP	1.312-12 UN	3.25"	2.50"	1.01"	2.12"	0.81"	1.12"	2.75"	33700
ST-1311225-CVP	1.312-12 UN	3.25"	2.50"	1.26"	2.12"	0.81"	1.12"	2.75"	33700
ST-1501025-CVP	1.500-12 UNF	3.25"	2.50"	1.01"	2.12"	0.81"	1.12"	2.75"	33700
ST-1501225-CVP	1.500-12 UNF	3.25"	2.50"	1.26"	2.12"	0.81"	1.12"	2.75"	33700
ST-1501226-CVP	1.500-12 UNF	3.62"	2.75"	1.26"	2.12"	1.06"	1.18"	3.31"	58900

MATERIAL : C1045 CAST STEEL / DUCTILE IRON

MAXIMUM PUSHING & PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2



PORT NPT

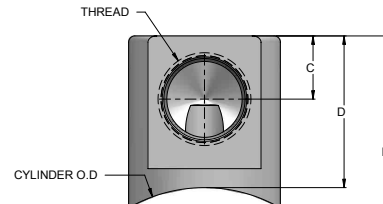
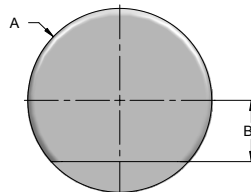
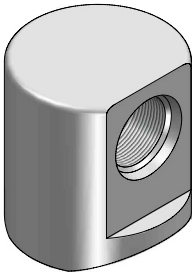
PART NUMBER	CYLINDER O.D	THREAD	A	B	C
025N-200062-POP	2.00"	1/4 NPT	0.87"	0.62"	0.68"
037N-250075-POP	2.50"	3/8 NPT	1.12"	0.75"	0.87"
050N-300087-POP	3.00"	1/2 NPT	1.25"	0.87"	0.93"
050N-350087-POP	3.50"	1/2 NPT	1.25"	0.87"	0.93"
050N-400087-POP	4.00"	1/2 NPT	1.25"	0.87"	0.93"
050N-450087-POP	4.50"	1/2 NPT	1.25"	0.87"	0.93"
075N-550100-POP	5.50"	3/4 NPT	1.37"	1.00"	1.06"

PORT SAE

PART NUMBER	CYLINDER O.D	THREAD	A	B	C
04S-200062-POP	2.00"	SAE 4	0.75"	0.62"	0.68"
06S-250075-POP	2.50"	SAE 6	1.00"	0.75"	0.81"
08S-300093-POP	3.00"	SAE 8	1.12"	0.93"	1.00"
08S-350093-POP	3.50"	SAE 8	1.12"	0.93"	1.00"
08S-400093-POP	4.00"	SAE 8	1.12"	0.93"	1.00"
08S-450093-POP	4.50"	SAE 8	1.12"	0.93"	1.00"
12S-550100-POP	5.50"	SAE 12	1.50"	1.00"	1.06"

MATERIAL : C1020 STEEL

MAXIMUM OPERATING PRESSURE : 3000 psi (SAFETY FACTOR = 2)

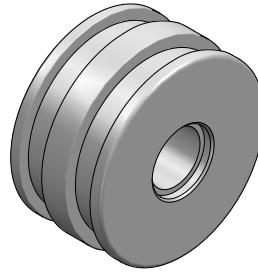
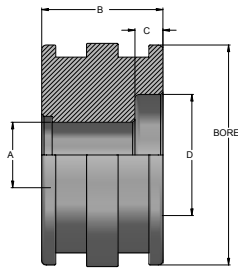


PORT 90°

PART NUMBER	CYLINDER O.D	THREAD	A	B	C	D	E
025N-200112-90POP	2.00"	1/4 NPT	1.12"	0.37"	0.43"	1.12"	1.25"
037N-250125-90POP	2.50"	3/8 NPT	1.25"	0.43"	0.50"	1.25"	1.37"
050N-300150-90POP	3.00"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.68"
050N-350150-90POP	3.50"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
050N-400150-90POP	4.00"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
050N-450150-90POP	4.50"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
075N-550200-90POP	5.50"	3/4 NPT	2.12"	0.62"	0.87"	2.00"	2.18"
04S-200112-90POP	2.00"	SAE 4	1.12"	0.37"	0.43"	1.12"	1.25"
06S-250125-90POP	2.50"	SAE 6	1.25"	0.43"	0.50"	1.25"	1.37"
08S-300150-90POP	3.00"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.68"
08S-350150-90POP	3.50"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
08S-400150-90POP	4.00"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
08S-450150-90POP	4.50"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
12S-550200-90POP	5.50"	SAE 12	2.12"	0.62"	0.81"	2.00"	2.18"

MATERIAL : C1020 STEEL

MAXIMUM OPERATING PRESSURE : 3000 psi (SAFETY FACTOR = 2)

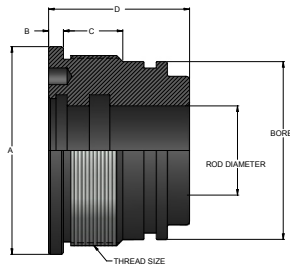


PISTON

PART NUMBER	BORE	ROD DIAMETER	A	B	C	D
ST-15062-PIP	1.50"	1.00"	0.62"	1.50"	NONE	NONE
ST-20075-PIP	2.00"	1.25"	0.75"	1.50"	NONE	NONE
ST-25087-PIP	2.50"	1.50"	0.87"	1.62"	0.37"	1.62"
ST-30087-PIP	3.00"	1.50"	0.87"	1.62"	0.37"	1.62"
ST-35100-PIP	3.50"	1.75"	1.00"	1.62"	0.43"	1.87"
ST-40125-PIP	4.00"	2.00"	1.25"	1.75"	0.68"	2.62"
ST-50150-PIP	5.00"	2.50"	1.50"	2.50"	0.62"	3.25"
ST-60200-PIP	6.00"	3.00"	2.00"	2.50"	0.62"	3.62"

MATERIAL : 65-45-12 DUCTILE CAST IRON

PISTON FOR 5" & 6" BORE COME WITH A WEAR RING GROOVE

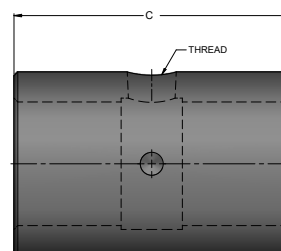
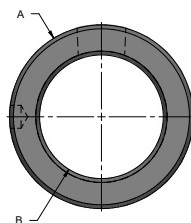


GLAND

PART NUMBER	BORE	ROD DIAMETER	THREAD SIZE	A	B	C	D
ST-15100-GLP	1.50"	1.00"	1.700-12 UN	2.00"	0.25"	0.75"	2.00"
ST-20125-GLP	2.00"	1.25"	2.200-12 UN	2.50"	0.25"	0.87"	2.25"
ST-25150-GLP	2.50"	1.50"	2.700-12 UN	3.00"	0.25"	1.00"	2.37"
ST-30150-GLP	3.00"	1.50"	3.200-12 UN	3.50"	0.25"	1.00"	2.37"
ST-35175-GLP	3.50"	1.75"	3.700-12 UN	4.00"	0.25"	1.00"	2.37"
ST-40200-GLP	4.00"	2.00"	4.200-12 UN	4.50"	0.25"	1.00"	2.37"
ST-50250-GLP	5.00"	2.50"	5.200-12 UN	5.50"	0.31"	1.37"	3.00"
ST-60300-GLP	6.00"	3.00"	6.250-12 UN	6.75"	0.50"	1.56"	3.50"

MATERIAL : 65-45-12 DUCTILE CAST IRON

GLAND FOR 5" & 6" BORE COMES WITH A WEAR RING GROOVE



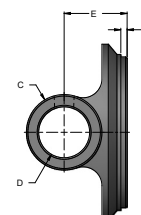
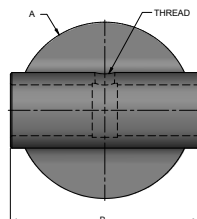
BUSHING

PART NUMBER	A	B	C	THREAD	MAXIMUM PUSH (LBS)	MAXIMUM PULL (LBS)
BU-075200-BUP	1.25"	0.76"	2.00"	1/8 NPT	5300	5300
BU-100225-BUP	1.50"	1.01"	2.25"	1/8 NPT	21200	21200
BU-125225-BUP	2.00"	1.26"	2.25"	1/8 NPT	29000	29000
BU-150250-BUP	2.25"	1.51"	2.50"	1/8 NPT	37700	37700
BU-200325-BUP*	3.00"	*2.01"	3.25"	1/8 NPT	59000	50000

* COME WITH A SLEEVE TO PASS FROM 2" TO 1 3/4" PIN DIAMETER

MAXIMUM PUSHING / PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2

MATERIAL : C1020 STEEL



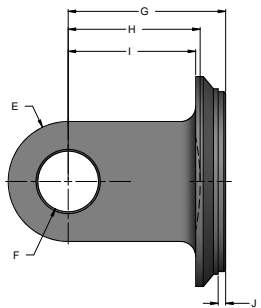
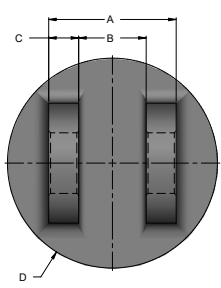
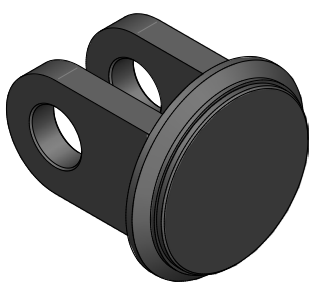
END CAP BUSHING

PART NUMBER	BORE	THREAD	A	B	C	D	E	F	MAXIMUM PUSH (LBS)	MAXIMUM PULL (LBS)
BU-15075-CAP	1.50"	1/8 NPT	2.00"	2.25"	1.25"	0.76"	1.12"	0.12"	5300	5300
BU-20100-CAP	2.00"	1/8 NPT	2.50"	2.75"	1.50"	1.01"	1.25"	0.12"	9500	9500
BU-25100-CAP	2.50"	1/8 NPT	3.00"	3.25"	1.50"	1.01"	1.25"	0.12"	14700	14700
BU-30100-CAP	3.00"	1/8 NPT	3.50"	3.75"	1.50"	1.01"	1.25"	0.12"	21200	21200
BU-35125-CAP	3.50"	1/8 NPT	4.00"	4.25"	2.00"	1.26"	1.50"	0.12"	29000	29000
BU-40150-CAP	4.00"	1/8 NPT	4.50"	4.75"	2.25"	1.51"	1.62"	0.12"	37700	37700
BU-50200-CAP*	5.00"	1/8 NPT	5.50"	5.75"	3.00"	2.01"	2.25"	0.25"	59000	50000

* COME WITH A SLEEVE TO PASS FROM 2" TO 1 3/4" PIN DIAMETER

MAXIMUM PUSHING / PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2

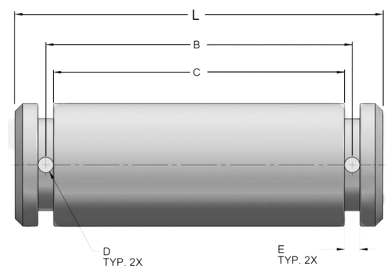
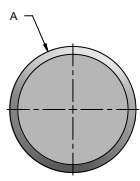
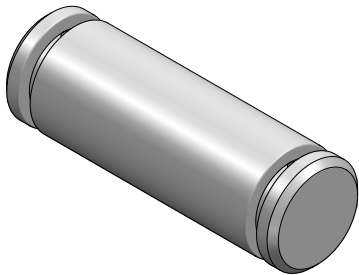
MATERIAL : C1045 CAST STEEL



END CAP CLEVIS

PART NUMBER	BORE	A	B	C	D	E	F	G	H	I	J	MAXIMUM PUSH (LBS)	MAXIMUM PULL (LBS)
CL-15075-CAP	1.50"	1.62"	0.87"	0.37"	2.00"	1.50"	0.76"	1.87"	none	1.37"	0.12"	5300	5300
CL-20100-CAP	2.00"	2.12"	1.12"	0.50"	2.50"	2.00"	1.01"	2.62"	none	2.12"	0.12"	9500	9500
CL-25100-CAP	2.50"	2.12"	1.12"	0.50"	3.00"	2.00"	1.01"	2.62"	none	2.12"	0.12"	14750	14700
CL-30100-CAP	3.00"	2.12"	1.12"	0.50"	3.50"	2.00"	1.01"	2.62"	none	2.12"	0.12"	22500	22500
CL-35100-CAP	3.50"	2.37"	1.12"	0.62"	4.00"	2.00"	1.01"	2.62"	2.12"	2.00"	0.12"	28100	28100
CL-40100-CAP	4.00"	2.37"	1.12"	0.62"	4.50"	2.00"	1.01"	2.50"	2.00"	1.75"	0.12"	28100	28100
CL-50150-CAP	5.00"	3.12"	1.62"	0.75"	5.50"	3.00"	1.51"	3.12"	none	2.25"	0.25"	50600	50600

MATERIAL : C1045 CAST STEEL
MAXIMUM PUSHING / PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2



PIN

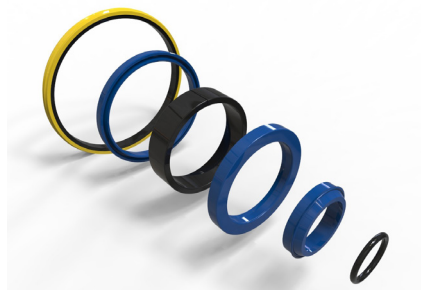
PART NO	A	B	C	D & E	L	MAXIMUM LOAD (LBS)	FOR MODEL
075175-PNP	0.750"	1.87"	1.75"	0.12"	2.38"	15700	CL15, TCL15 CAP
075212-PNP	0.750"	2.25"	2.12"	0.12"	2.62"	15700	TCL15 FRONT CLEVIS
100237-PNP	1.000"	2.50"	2.37"	0.12"	3.00"	28100	CL20, CL25, CL30
100262-PNP	1.000"	2.75"	2.62"	0.12"	3.25"	28100	CL35, CL40
100275-PNP	1.000"	2.87"	2.75"	0.12"	3.28"	28100	TR2.5, TR3-20/25/30
100287-PNP	1.000"	3.00"	2.87"	0.12"	3.63"	28100	TCL, TR3-35/40
125350-PNP	1.250"	3.62"	3.50"	0.12"	4.12"	50500	TRxx-xx16-ASAE, TR3-50
150337-PNP	1.500"	3.56"	3.37"	0.18"	4.12"	63100	CL50

MATERIAL : C1045 STEEL ZINC PLATED
MAXIMUM PUSHING / PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2



QHBUE ET QHCL SERIES

PART NUMBER	DESCRIPTION
SK-BU-CL151000	1-1/2" BORE & 1" ROD
SK-BU-CL201250	2" BORE & 1-1/4" ROD
SK-BU-CL251500	2-1/2" BORE & 1-1/2" ROD
SK-BU-CL301500	3" BORE & 1-1/2" ROD
SK-BU-CL351750	3-1/2" BORE & 1-3/4" ROD
SK-BU-CL402000	4" BORE & 2" ROD
SK-BU-CL502500	5" BORE & 2-1/2" ROD



QHWT3 SERIES

PART NUMBER	DESCRIPTION
SK-WT3-151000	1-1/2" BORE & 1" ROD
SK-WT3-201250	2" BORE & 1-1/4" ROD
SK-WT3-251375	2-1/2" BORE & 1-3/8" ROD
SK-WT3-301500	3" BORE & 1-1/2" ROD
SK-WT3-351750	3-1/2" BORE & 1-3/4" ROD
SK-WT3-402000	4" BORE & 2" ROD

QHTCL SERIES

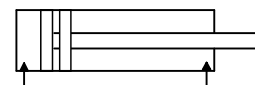
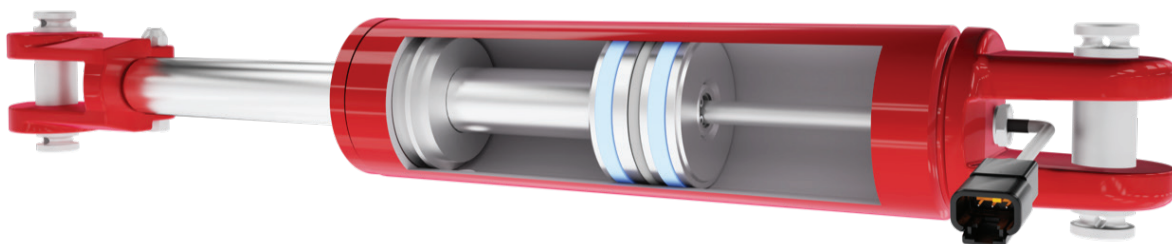
PART NUMBER	DESCRIPTION
SK-TCL-151000	1-1/2" BORE & 1" ROD
SK-TCL-201125	2" BORE & 1-1/8" ROD
SK-TCL-251250	2-1/2" BORE & 1-1/4" ROD
SK-TCL-301500	3" BORE & 1-1/2" ROD
SK-TCL-351750	3-1/2" BORE & 1-3/4" ROD
SK-TCL-402000	4" BORE & 2" ROD

QHTR2.5 SERIES

PART NUMBER	DESCRIPTION
SK-TR2.5-201125-LA4	2" BORE & 1-1/8" ROD
SK-TR2.5-251125-LA4	2-1/2" BORE & 1-1/8" ROD
SK-TR2.5-251250-LA4	2-1/2" BORE & 1-1/4" ROD
SK-TR2.5-301250-LA4	3" BORE & 1-1/4" ROD
SK-TR2.5-301500-LA4	3" BORE & 1-1/2" ROD
SK-TR2.5-351250-LA4	3-1/2" BORE & 1-1/4" ROD
SK-TR2.5-351500-LA4	3-1/2" BORE & 1-1/2" ROD
SK-TR2.5-401250-LA4	4" BORE & 1-1/4" ROD
SK-TR2.5-401500-LA4	4" BORE & 1-1/2" ROD
SK-TR2.5-401750-LA4	4" BORE & 1-3/4" ROD
SK-TR2.5-402000-LA4	4" BORE & 2" ROD

QHTR3 SERIES

PART NUMBER	DESCRIPTION
SK-TR3-201125	2" BORE & 1-1/8" ROD
SK-TR3-251250	2-1/2" BORE & 1-1/4" ROD
SK-TR3-301375	3" BORE & 1-3/8" ROD
SK-TR3-351375	3-1/2" BORE & 1-3/8" ROD
SK-TR3-401750	4" BORE & 1-3/4" ROD
SK-TR3-502000	5" BORE & 2" ROD



QHTMPRO smart cylinders are designed with the industry leading technology that's not only rugged, but the smallest size sensor on the market. This means many existing cylinders can utilize this technology without changing the pin to pin dimension which is of course the holy grail for the mobile market. Multiple electrical outputs can be ordered such as voltage, current, PWM and various versions of CAN. Industry standard connection such as Deutsch and M12 are available.

- Lift
- Steering
- Outrigger
- Depth control

SPECIFICATIONS

- Linear Transducer equipped cylinders
- Contact and non-contact sensing technologies
- Very reliable in harsh conditions
- Fast data updating, responsive feedback
- Small size, does not change pin to pin dimensions in many applications
- Microprocessor based – great design flexibility
- ATEX, IEC approved sensor for hazardous area applications
- Internal or External sensor placement
- 2.5" — 5" diameter, up to 100" in length
- cylinders rated to 205 bar/3,000 psi

APPLICATIONS

- Agriculture
- Construction
- Mining
- Road paving
- Off-road
- Airport ground support
- Waste management
- Security control

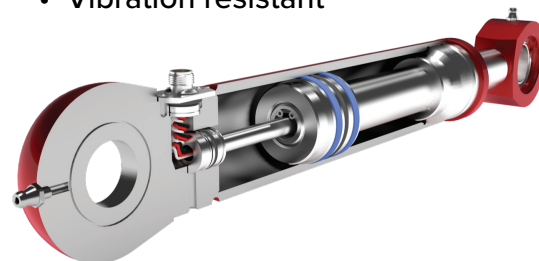


ISO 9001:2015
Certified

MOUNTING OPTIONS

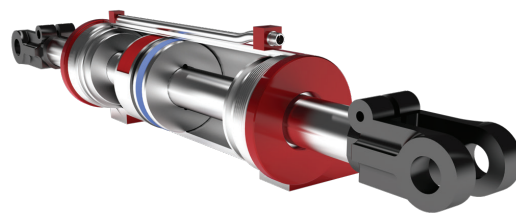
Integrated Transducer Applications

- Robust and protected from damage
- Vibration resistant



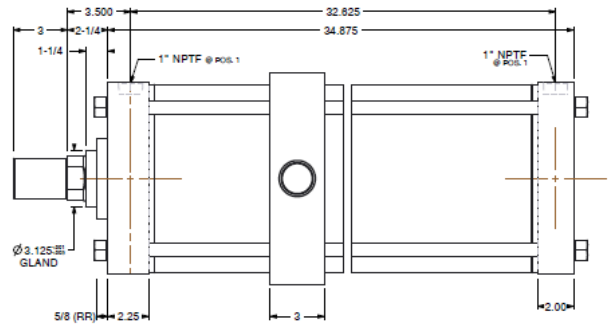
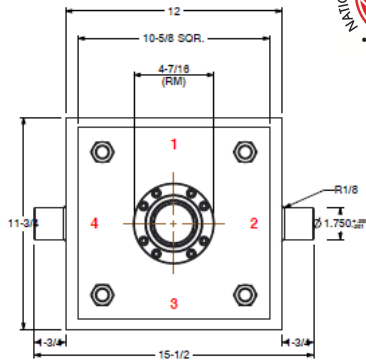
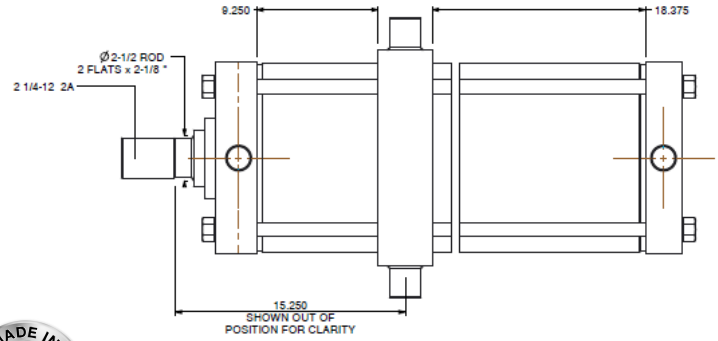
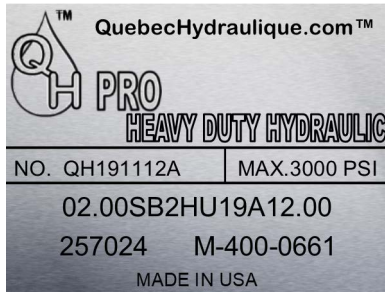
Externally Mounted Applications

- No deep drilling
- Easy to assemble and service
- Steering cylinders
- Double end cylinders
- Long stroke cylinders
- Redundant capability



CYLINDERS OPTIONS AVAILABLE

- 2.0" — 5" bore diameter
- Tie rod or welded cylinder
- Special materials, stainless steel, etc.
- Cylinders available with stainless steel rods
- Custom configurations

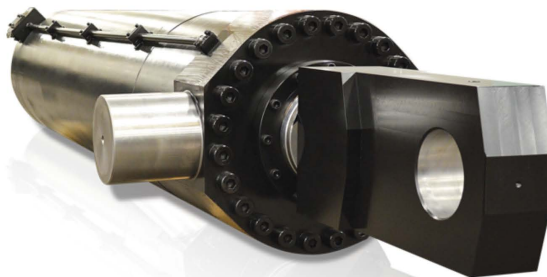
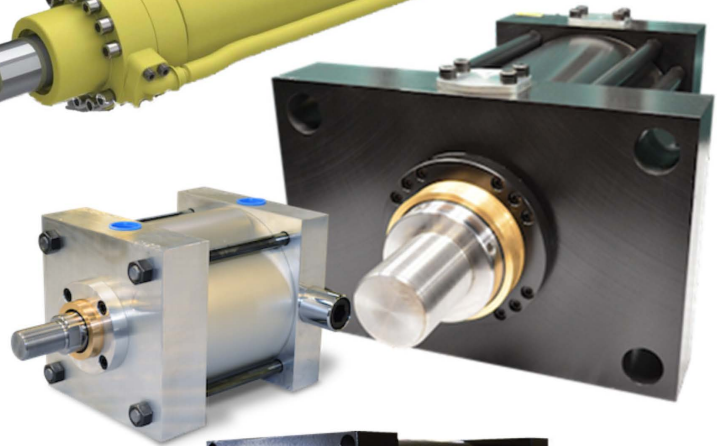
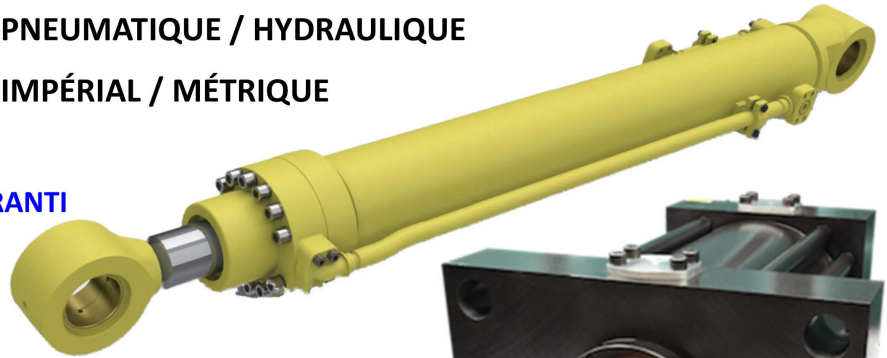


REMANUFACTURÉ A NEUF ET GARANTI

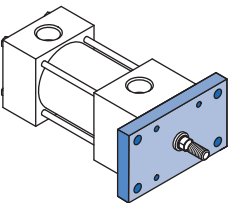
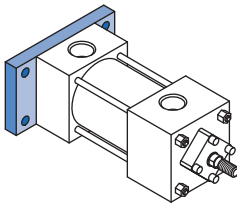
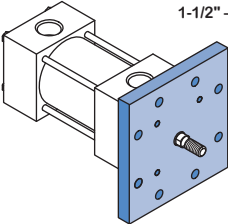
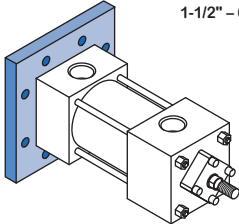
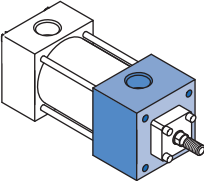
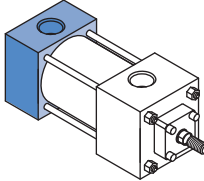
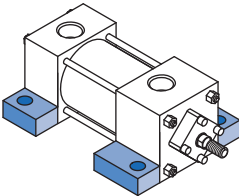
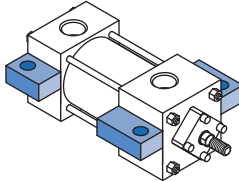
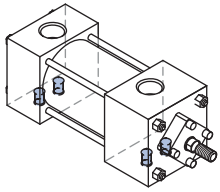
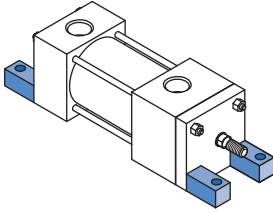
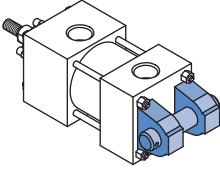
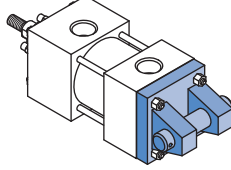
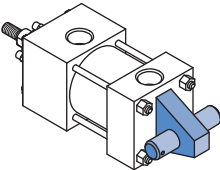
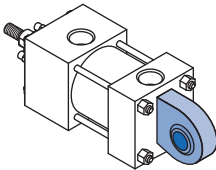
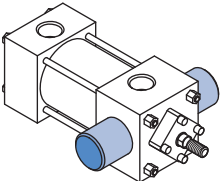
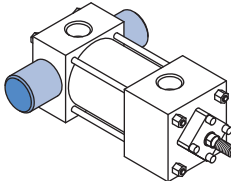
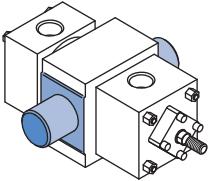
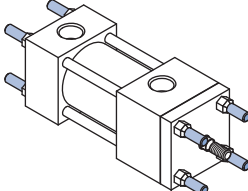
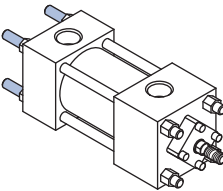
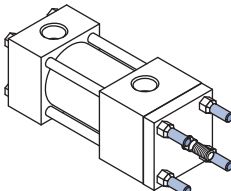
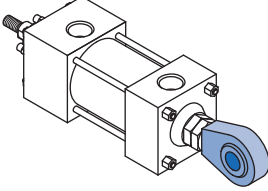
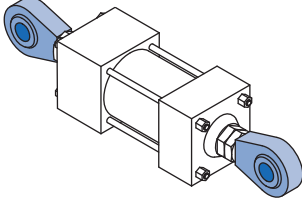
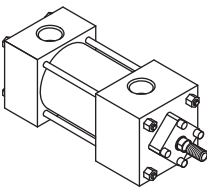
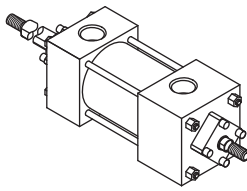
PNEUMATIQUE / HYDRAULIQUE
IMPÉRIAL / MÉTRIQUE



NEUFS ET SUR MESURES



MONTAGES / MOUNTING

 (NFPA STD. MF1) 1-1/2" – 6" DIA. BORE	 (NFPA STD. MF2) 1-1/2" – 6" DIA. BORE	 (NFPA STD. MF5) 1-1/2" – 6" DIA. BORE	 (NFPA STD. MF6) 1-1/2" – 6" DIA. BORE
 (NFPA STD. ME3) 8" – 20" DIA. BORE	 (NFPA STD. ME4) 8" – 20" DIA. BORE	 (NFPA STD. MS2) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MS3) 1-1/2" – 20" DIA. BORE
 (NFPA STD. MS4) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MS7) 1-1/2" – 14" DIA. BORE	 (NFPA STD. MP1) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MP2) 1-1/2" – 10" DIA. BORE
 (NFPA STD. MP3) 1-1/2" – 8" DIA. BORE	 (NFPA STD. MPU3) 1-1/2" – 6" DIA. BORE	 (NFPA STD. MT1) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MT2) 1-1/2" – 20" DIA. BORE
 (NFPA STD. MT4) 1-1/2" – 14" DIA. BORE	 (NFPA STD. MX1) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MX2) 1-1/2" – 20" DIA. BORE	 (NFPA STD. MX3) 1-1/2" – 20" DIA. BORE
 (NFPA STD. NONE) 1-1/2" – 6" DIA. BORE	 (NFPA STD. NONE) 1-1/2" – 6" DIA. BORE	 (NFPA STD. NONE) 1-1/2" – 20" DIA. BORE	 (NFPA STD. NONE) 1-1/2" – 20" DIA. BORE

Contactez Nous afin de remplacer ou créer votre cylindre
Contact us to replace or create your cylinder





MONTAGES / MOUNTING

(NFPA STD. MF1) 1-1/2" – 8" DIA. BORE	(NFPA STD. MF2) 1-1/2" – 8" DIA. BORE	(NFPA STD. MF5) 1-1/2" – 12" DIA. BORE	(NFPA STD. MF6) 1-1/2" – 12" DIA. BORE
(ROD HEAD SQUARE MOUNT) 14" – 20" DIA. BORE	(BLIND HEAD SQUARE MOUNT) 14" – 20" DIA. BORE	(NFPA STD. ME5) 1-1/2" – 12" DIA. BORE	(NFPA STD. ME6) 1-1/2" – 12" DIA. BORE
(NFPA STD. MS2) 1-1/2" – 14" DIA. BORE	(NFPA STD. MS3) 1-1/2" – 20" DIA. BORE	(NFPA STD. MS4) 1-1/2" – 8" DIA. BORE	(NFPA STD. MS7) 1-1/2" – 8" DIA. BORE
(NFPA STD. MP1) 1-1/2" – 20" DIA. BORE	(NFPA STD. MP2) 1-1/2" – 8" DIA. BORE	(NFPA STD. MP3) 1-1/2" – 20" DIA. BORE	(NFPA STD. MPU3) 1-1/2" – 6" DIA. BORE
(NFPA STD. MT1) 1-1/2" – 14" DIA. BORE	(NFPA STD. MT2) 1-1/2" – 14" DIA. BORE	(NFPA STD. MT4) 1-1/2" – 14" DIA. BORE	(NFPA STD. MX1) 1-1/2" – 14" DIA. BORE
(NFPA STD. MX2) 1-1/2" – 14" DIA. BORE	(NFPA STD. MX3) 1-1/2" – 14" DIA. BORE	(BASIC CYLINDER NO MOUNT) 1-1/2" – 20" DIA. BORE	(BASIC CYLINDER DOUBLE ROD END) 1-1/2" – 20" DIA. BORE

Contactez Nous afin de remplacer ou créer votre cylindre
Contact us to replace or create your cylinder

