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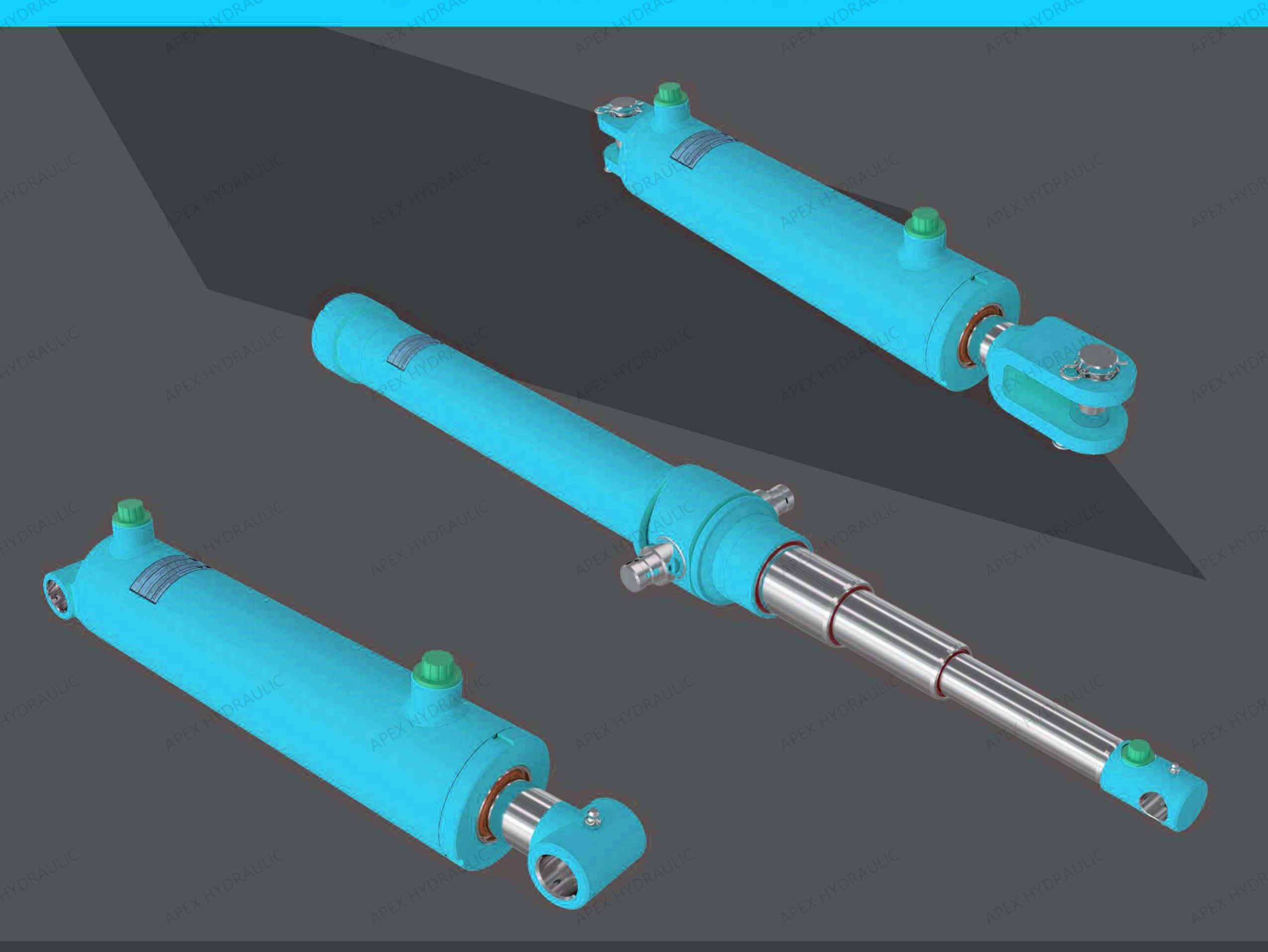
Adress: East Office Building, 45 Beijing Road, Qianwan

Bonded Port Area, Qingdao, China (Shandong) Pilot Free

Trade Zone, 2024-0255 (A)



HYDRAULIC CYLINDERS CATALOG



INNOVATIVE MOBILE SOLUTIONS DESIGN W MANUFACTURE W INTEGRATE

INNOVATIVE MOBILE SOLUTIONS

Apex Hydraulic is a Chinese based manufacturer of custom and standard hydraulic solutions.

We manufacture hydraulic cylinders, hydraulic power units and pumps as well as engineer and integrate more than 100,000 units.

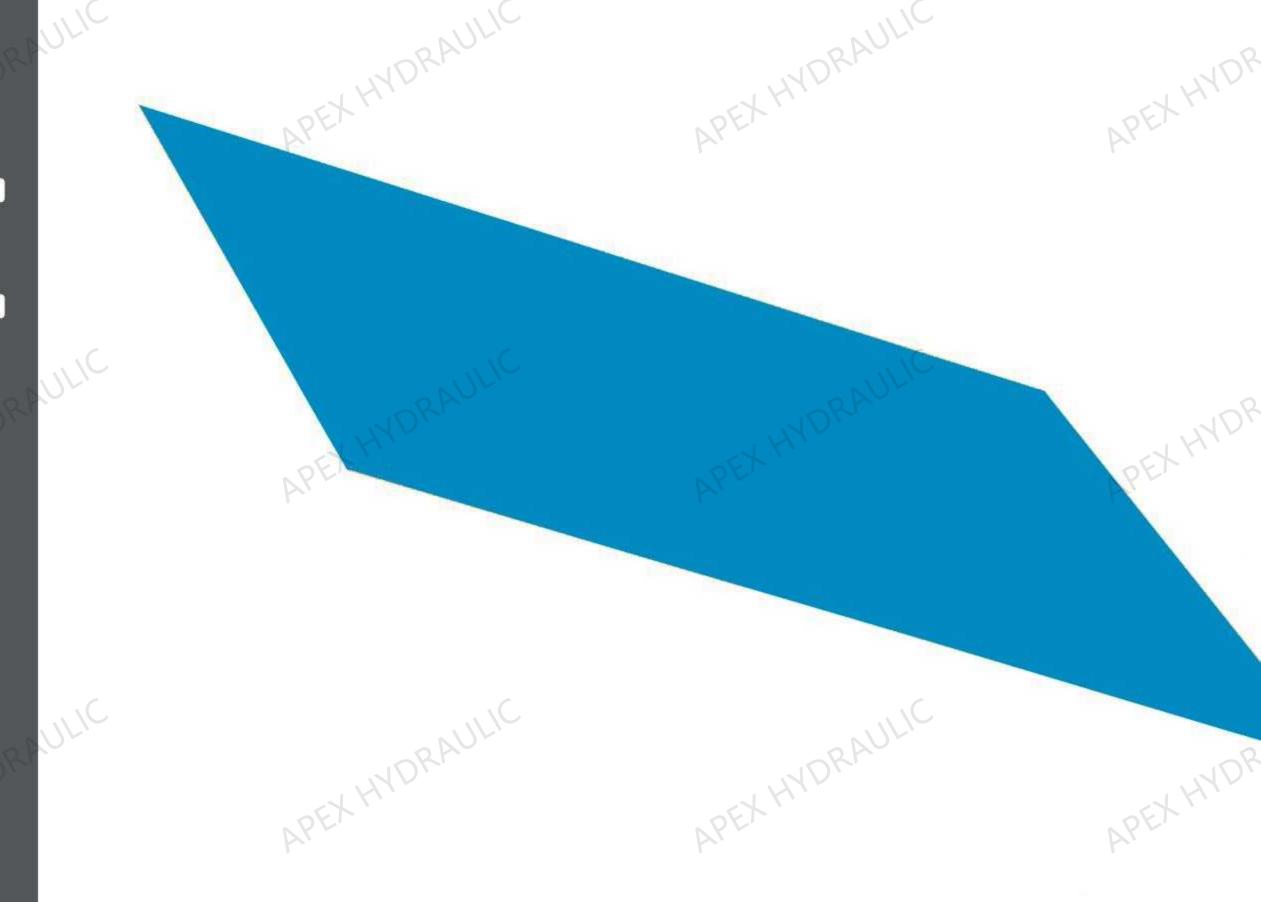
Serving the mobile equipment industry for decades, our products are designed and supported from our head office located in QingDao, ShanDong, China to exceed North American standards.

We are also a certified OEM production supplier to many large North American based corporations.Our services include custom components or system design, on-site visits, continuous support, flexible delivery and stocking programs, inventory updates, many warranty options, and responsive service.

We strive to provide you the best experience and deliver high-quality merchandise faster than expected.

At APEX HYDRAULIC, you can get the following one-stop services:

- 1.A more reasonable price than our peers.
- 2.We design product drawings for free, until you approve.
- 3. We provide advanced production equipment and professional quality inspectors, and every hydraulic cylinder will be tested before leaving the factory.
- 4. Perfect production management system, the high coordination of each production link greatly speeds up the production efficiency, you will have a shorter delivery time.
- 5. Professional after-sales service, we will be 24 hours online to answer any questions you have in the use of products.
- 6. Customized services, we according to your needs to design the structure, parameters, colors, packaging and so on.



OUR CAPABILITIES

STANDARD HYDRAULIC CYLINDERS

HYDRAULIC POWER UNITS - AC - DC

HYDRAULIC COMPONENTS - Pumps

- Motors

- Manifolds

Valves

- Filters

- Tanks

- Remotes

- Toolboxes

- Wireless controllers

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AULIO	AULIO	AULIC	AUL
DRM	ORDER INFORMATION	APEXHYDRA	2 XHYDRA
	HCL Welded Cylinder 3000 PSI		3
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	HTH Tie-Rod Cylinder 3000 PSI		19
	HTG Welded Cylinder 3000 PSI		24
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APEXHYDRAULIC

APEXHYDRAULIC

APEXHYDRAULIC

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APEXHYDRAULIC

APEXHVOD

APEXHYP

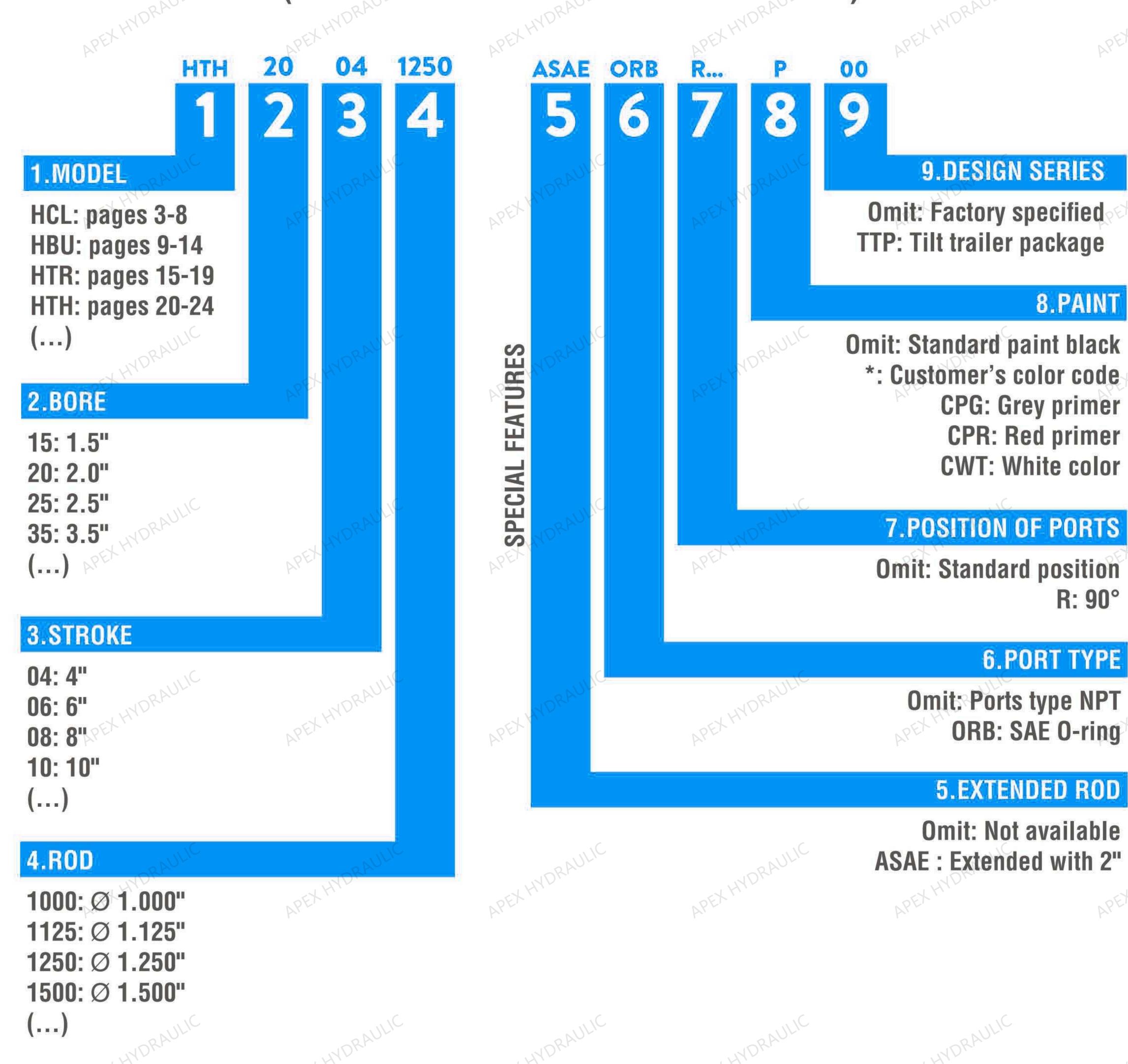
APEXHYP

APEXHVOC

APEXHVOC

ORDER INFORMATION

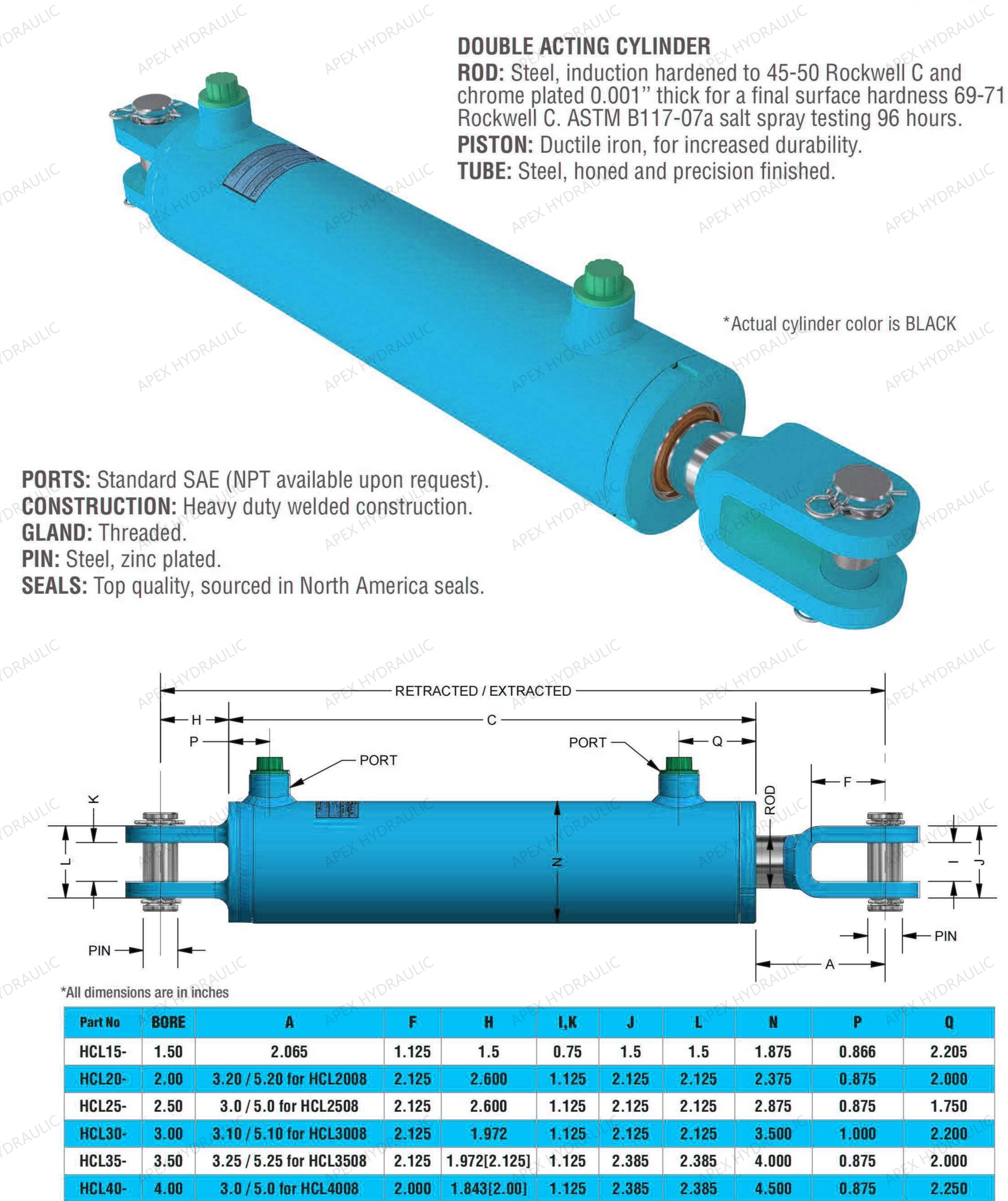
(IF DIFFERENT THAN OUR STANDARD)



^{*} All pictures may differ from the final products. Product specifications are subject to changes without notice.







All numbers given are nominal values and should be used for reference only.

1.913[2.00]

1.500

2.750

2.750

5.500

1.063

2.500

2.000

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3.8

5.00

HCL50-



Rod Back-Up Ring

14

Rod 0-Ring

15

Piston Seal

Gland 0-Ring

13

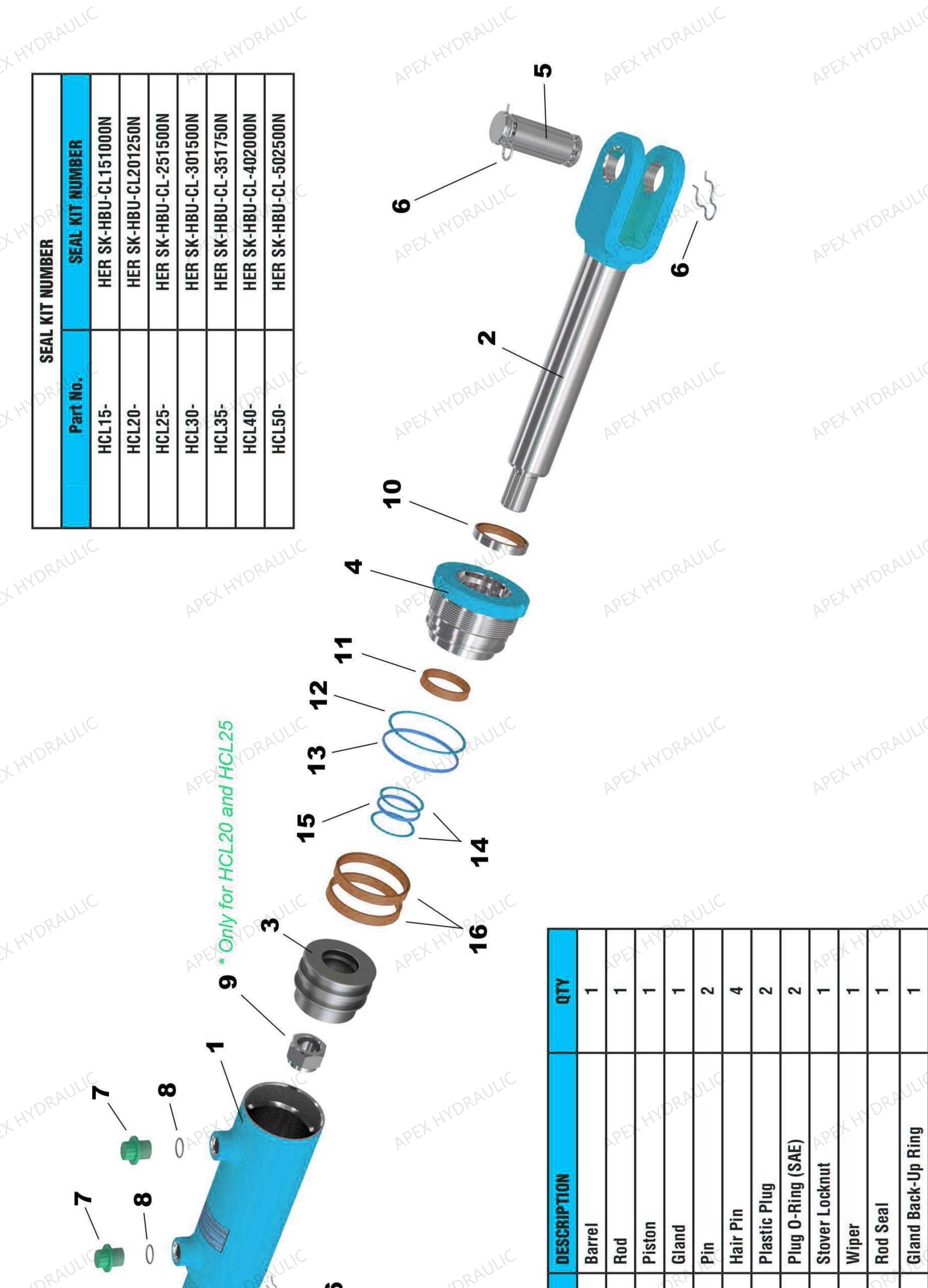
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9

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ITEM



	HAOK		LHYDRAG	DIMENS	IONE	HORK	400		MOKK
ÞÍ	PART No.	STROKE	ROD DIAMETER	DIMENS		C C	PORT	PIN	WEIGHT (LBS)
			DIAMETER	RETRACTED	EXTRACTED		•		(EDO)
	HCL1504-ORB	4"		12 1/4"	16 1/4"	8.685"	(a)		7
	HCL1506-ORB	6"		14 1/4"	20 1/4"	10.685"	apl		8
# ~	HCL1508-ORB	1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16 1/4"	24 1/4"	12.685"	Available)		9
BOR	HCL1510-ORB	10"	WDRAULIC !	18 1/4"	28 1/4"	14.685"	A		10
	HCL1512-ORB	The No	EXH	20 1/4"	32 1/4"	16.685"	NPT	RPEX	11
.5" PS	HCL1514-ORB	14"	1"	22 1/4"	36 1/4"	18.685"		0.75"	12
T. 8	HCL1516-ORB	A CONTRACT OF		24 1/4"	40 1/4"	20.685"	(1/4"		13
걸음	HCL1518-ORB	18"		26 1/4"	44 1/4"	22.685			14
王。	HCL1520-ORB	20"		28 1/4"	48 1/4"	24.685"	#4		15
	HCL1524-ORB	24"	DRAULIC	32 1/4"	56 1/4"	28.685"	AE#4		17
	HCL1536-ORB	36"	HAD	44 1/4"	80 1/4"	40.685"	S		24
P	HCL2004-ORB	4"		14 1/4"	18 1/4"	8.5"		APL	14
	HCL2006-ORB	6"		16 1/4"	22 1/4"	10.5"			15
	HCL2008-ORB	8"		20 1/4"	28 1/4"	12.5"			17
	HCL2010-ORB	10"		20 1/4"	30 1/4"	14.5"	ble)		17
	HCL2012-ORB	12"	ORAULIC	22 1/4"	34 1/4"	16.5"	/C :		19
ORE	HCL2014-ORB	14"	HYDRA	24 1/4"	38 1/4"	18.5"	Avai		21
BB	HCL2016-ORB	16"	EX.	26 1/4"	42 1/4"	20.5"	F	APEX	23
- 6	HCL2018-ORB	18"	1 1/4"	28 1/4"	46 1/4"	22.5	Z	1"	24
L 2'	HCL2020-ORB	20"		30 1/4"	50 1/4"	24.5"	(3/8"		26
386	HCL2024-0RB	24"		34 1/4"	58 1/4"	28.5"	3		28
- (r)	HCL2028-ORB	28"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	38 1/4"	66 1/4"	32.5"	9		34
	HCL2030-ORB	30"	JORAULIC	40 1/4"	70 1/4"	34.5"	SAE#6		35
	HCL2032-ORB	32"	EXH	42 1/4"	74 1/4"	36.5"	S	APEX	36
<u></u>	HCL2034-0RB	34"		44 1/4"	78 1/4"	38.5"			39
	HCL2036-ORB	36"		46 1/4"	82 1/4"	40.5"			40
	HCL2504-0RB	4"		14 1/4"	18 1/4"	8.56"			17
	HCL2506-ORB	6"		16 1/4"	22 1/4"	10.56"			20
	HCL2508-ORB	8"	ORAULIC	20 1/4"	28 1/4"	12.56"			22
	HCL2510-ORB	10"	EXHAD	20 1/4"	30 1/4"	14.56"	ble)	DEX	23
ш	HCL2512-ORB	The state of the s		22 1/4"	34 1/4"	16.56"	<u>a</u>	APER	25
E 0	HCL2514-0RB	14"		24 1/4"	38 1/4"	18.56"	Availa		28
2 2	HCL2516-ORB	<u> </u>		26 1/4"	42 1/4"	20.56"	PT A		30
5". PS	HCL2518-ORB	18"	1 1/2"	28 1/4"	46 1/4"	22.56"	A	1"	31
2.0	HCL2520-ORB	20"	AULIC	30 1/4"	50 1/4"	24.56"	12		34
. 0	HCL2524-ORB	24"	XHYDK	34 1/4"	58 1/4"	28.56"	E		38
크용	HCL2528-ORB			38 1/4"	66 1/4"	32.56"	00	APEN	42
	HCL2530-ORB	30"		40 1/4"	70 1/4"	34.56"	AE#8		45
	HCL2532-ORB			42 1/4"	74 1/4"	36.56"	18		46
	HCL2534-0RB	34"		44 1/4"	78 1/4"	38.56"			50
	HCL2536-ORB		ILIC	46 1/4"	82 1/4"	40.56"	10		51
	10R		IORAU	10R		IORAU			ORAU

All numbers given are nominal values and should be used for reference only.

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MOK,	Han a series	NOK'	ROD	DIMEN	SIONS			MA	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	C	PORT	PIN	(LBS)
	HCL3002-0RB	2"		12 1/4"	16 1/4"	7,18"			21
	HCL3004-0RB	4"		14 1/4"	18 1/4"	9.18"			23
	HCL3006-ORB	6"		16 1/4"	22 1/4"	11.18"			26
NORAUL	HCL3008-ORB	8"		20 1/4"	28 1/4"	13.18"	(e)	WORAU	28
	HCL3010-ORB	10"	APF	20 1/4"	30 1/4"	15.18"	ap		29
ша	HCL3012-ORB	12"	, l	22 1/4"	34 1/4"	17.18"	/ail		30
WP	HCL3014-0RB	14"		24 1/4"	381/4"	19.18"	A		32
S B	HCL3016-ORB	16"	4 4 /011	26 1/4"	42 1/4"	21.18"	IPI	411	36
15 d	HCL3018-ORB	18"	1 1/2"	28 1/4"	46 1/4"	23.18"	Z	1"	39
58	HCL3020-ORB	20"		30 1/4"	50 1/4"	25.18"	(1/2	ORAUL	42
30 H	HCL3024-0RB	24"	OF.	34 1/4"	58 1/4"	29.18"	SEX	HAN	46
	HCL3028-0RB	28"		38 1/4"	66 1/4"	33.18"	E#8		51
	HCL3030-ORB	30"		40 1/4"	70 1/4"	35.18"	SAI		54
	HCL3032-0RB	32"		42 1/4"	74 1/4"	37.18"			56
	HCL3034-0RB	34"		44 1/4"	781/4"	39.18"			59
PRAUL	HCL3036-0RB	36"		46 1/4"	82 1/4"	41.18"		ORAUL	61
	HCL3504-ORB	4"	NPE NPE	14 1/4"	18 1/4"	8.92"	RPEX	H	26
	HCL3506-ORB	6"		16 1/4"	22 1/4"	10.92"			29
	HCL3508-ORB	8"		20 1/4"	28 1/4"	12.92"			33
	HCL3510-ORB	10"		20 1/4"	30 1/4"	14.92"	ble	a)	36
ш	HCL3512-ORB	12"		22 1/4"	34 1/4"	16.92"	ila	p	39
BOR	HCL3514-ORB	14"		24 1/4"	38 1/4"	18.92"	Ava	Availa	41
4.0	HCL3516-ORB	16"	OF	26 1/4"	42 1/4"	20.92"	4	A	45
PS.	HCL3518-ORB	18"	1 3/4"	28 1/4"	46 1/4"	22.92"	Ž	14	48
e 0	HCL3520-ORB	20"		30 1/4"	50 1/4"	24.92"		_	52
크 등	HCL3524-ORB	24"		34 1/4"	58 1/4"	28.92"	E	_	55
I	HCL3528-ORB	28"		38 1/4"	66 1/4"	32.92"	&		62
PAUL	HCL3530-ORB	30"		40 1/4"	70 1/4"	34.92"	AE	- AULI	66
HOL	HCL3532-ORB	32"		42 1/4"	74 1/4"	36.92"	S	HADIC	70
	HCL3534-ORB	34"	APE	44 1/4"	78 1/4"	38.92"	YPE		73
	HCL3536-ORB	36"		46 1/4"	82 1/4"	40.92"			77



	SEX HADY.			DIMEN	SIONS	Total I	⊨	rear.	WEIGHT
	PART No.	STROKE	ROD DIAMETER	RETRACTED	EXTRACTED	C	PORT	PIN	(LBS)
	HCL4004-0RB	4"		14 1/4"	18 1/4"	9.27"			31
	HCL4006-ORB	6"		16 1/4"	22 1/4"	11.27"			36
	HCL4008-0RB	8"	,,,,,	20 1/4"	28 1/4"	13.27"			41
	HCL4010-0RB	10"	NDRAULIC	20 1/4"	30 1/4"	15.27"	ple	a	46
Samuel D	HCL4012-0RB	12"	DEX KY	22 1/4"	34 1/4"	17.27"	ii a	ap	47
BORE SI WP	HCL4014-0RB	14"		24 1/4"	38 1/4"	19.27"	Ava	vaila	50
200	HCL4016-0RB	16"		26 1/4"	42 1/4"	21.27"	-	A	53
= 0	HCL4018-0RB	18"	2"	28 1/4"	46 1/4"	23.27"	N P	/5	56
18	HCL4020-ORB	20"		30 1/4"	50 1/4"	25.27"	/2"	1	61
걸음	HCL4024-0RB	24"	, VDRAULIC	34 1/4"	58 1/4"	29.27"	こ		66
= 0	HCL4028-0RB	28"	DEXHA	38 1/4"	66 1/4"	33.27"	8		77
	HCL4030-ORB	30"		40 1/4"	70 1/4"	35.27"	AE	-	81
	HCL4032-0RB	32"		42 1/4"	74 1/4"	37.27"	S		87
	HCL4034-0RB	34"		44 1/4"	78 1/4"	39.27"			90
	HCL4036-0RB	36"		46 1/4"	82 1/4"	41.27"			94
	HCL5004-ORB	4"	NORAULI	16 1/4"	20 1/4"	10.5"			63
	HCL5006-ORB	6"	DEX H	18 1/4"	24 1/4"	12.5"			67
	HCL5008-ORB	8"		20 1/4"	28 1/4"	14.5"			71
	HCL5010-0RB	10"		22 1/4"	32 1/4"	16.5"	ple	a	76
	HCL5012-0RB	12"		24 1/4"	36 1/4"	18.5"	ila le)	0	80
M P	HCL5014-0RB	14"		26 1/4"	40 1/4"	20.5"	Iab	aila	84
BORE SI WP	HCL5016-ORB	16"	ORAULIC	28 1/4"	44 1/4"	22.5"	2 A vail	Ava	89
5" B	HCL5018-ORB	18"	2 1/2"	30 1/4"	48 1/4"	24.5"	# A	/5	93
Committee of the commit	HCL5020-ORB	20"		32 1/4"	52 1/4"	26.5"	SAE	1	98
当の	HCL5024-0RB	24"		36 1/4"	60 1/4"	30.5"	=	1	106
	HCL5028-ORB	28"		40 1/4"	68 1/4"	34.5"	E#8 (1/2		115
	HCL5030-0RB	30"		42 1/4"	72 1/4"	36.5"	SA	_	120
	HCL5032-ORB	32"	PAULIC	44 1/4"	76 1/4"	38.5"	Pric		124
	HCL5034-0RB	34"	EXHADU	46 1/4"	80 1/4"	40.5"			129
	HCL5036-0RB	36"		48 1/4"	84 1/4"	42.5"			133

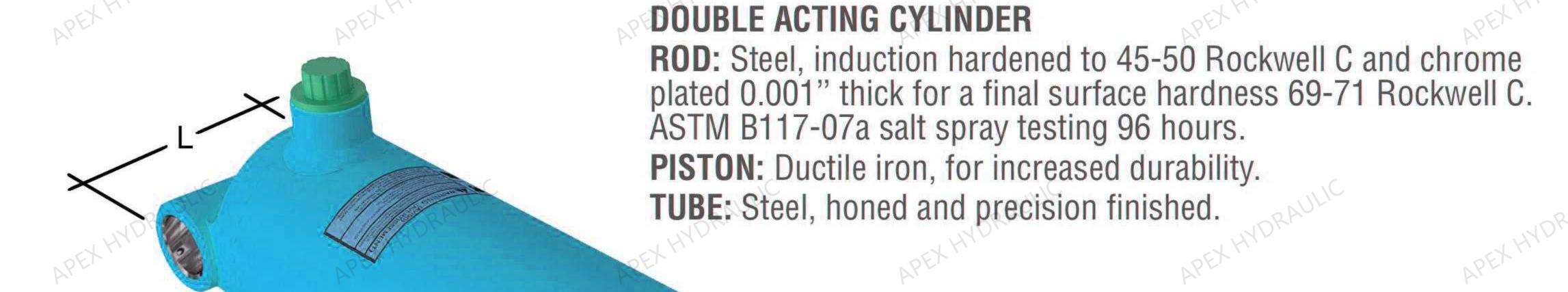
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HBU 3000 PSI WP

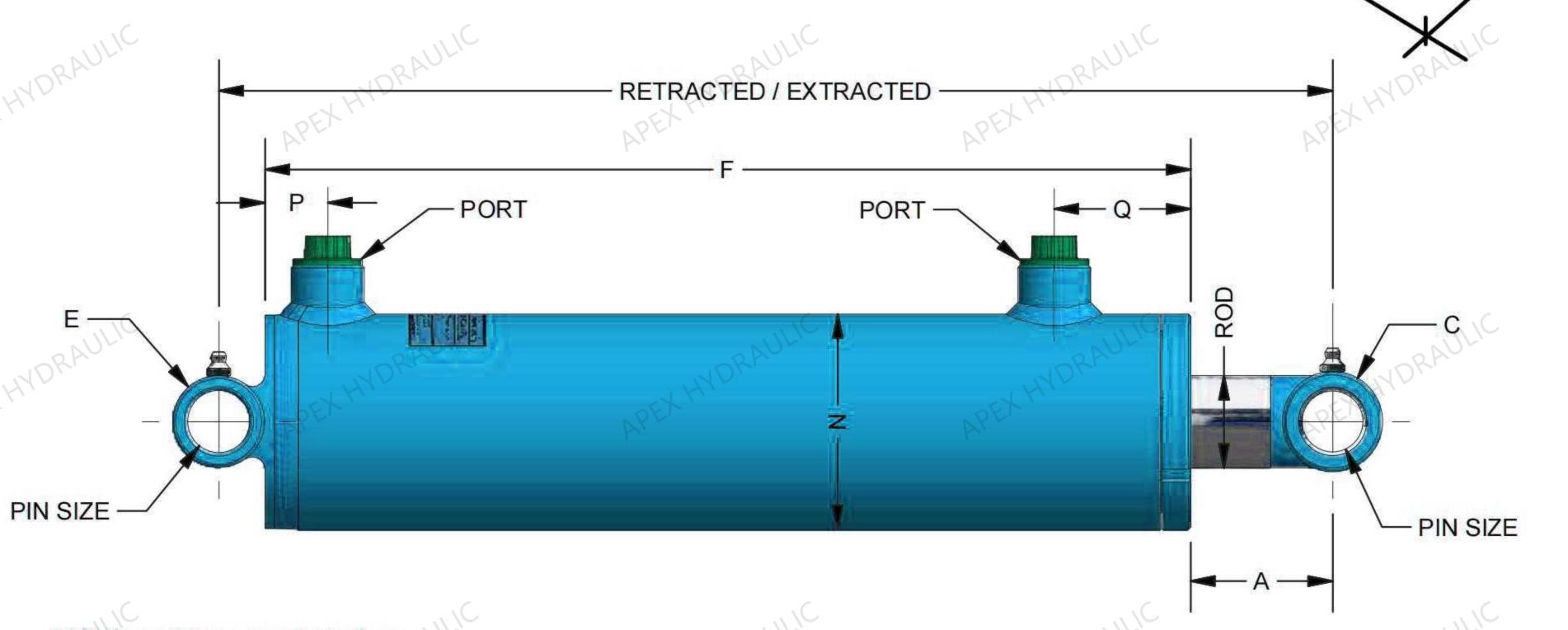
*Actual cylinder color is BLACK



PORTS: Standard SAE (NPT available upon request). CONSTRUCTION: Heavy duty welded construction.

GLAND: Threaded.

SEALS: Top quality, sourced in North America seals.



*All dimensions are in inches

	Part No	BORE	ROD	A	C, E	PIN SIZE	J)	L	N	P	Q
1	HBU15-	1.50	1.00	2.70	1.250	0.750	2.00	2.25	1,875	0.875	2.200
	HBU20-	2.00	1.25	2.80	1.500	1.00	2.25	2.75	2.375	0.875	2.000
	HBU25-	2.50	1.50	2.65	1.500	1.000	2.25	3.25	2.875	0.875	2.000
	HBU30-	3.00	1.50	2.20	1.500	1.000	2.25	3.75	3.50	1.000	2.200
	HBU35-	3.50	1.75	4.10	2.000	1.250	2.25	4.25	4.00	0.875	2.000
	HBU40-	4.00	2.00	3.60	2.250	1.500	2.50	4.75	4.500	1.000	2.250
	HBU50-	5.00	2.50	4.50	2.500	1.750	3.25	5.75	5.500	1.000	2.500

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HBU 3000 PSI WP



		NOP	LAU1)C					NO	RAULI				APEX	HYL	PAL	ILIC					44	ORA	ULIC					KHY	ORA	ULIC	
AF	L KIT NUMBER	SEAL KIT NUMBER	HER SK-HBU-CL151000N	HER SK-HBU-CL151000N	HER SK-HBU-CL251500N	HER SK-HBU-CL-301500N	HER SK-HBU-CL-351750N	HER SK-HBU-CL-402000N	HER SK-HBU-CL-502500N	RAULI				APEX		LC																
AF	SEAL	Part No.	HBU15-	HBU20-	HBU25-	HBU30-	HBU35-	HBU40-	HBU50-	RAULI			6	RPEX	HY	DRA ORA					REX	HY	ORA	JLIC				APE	KHY	ORA	JLIC	
AF	EXX	YOP	LAU				and HBU25	PEX	HYD	RAULI	T	5 ~		7,							REX	HY	DRA	ULIC				APE	KHY	ORA	ULIC	
A	EXT	NOP	AUI	<u> </u>			for	PEX	HYD	RAUL!	100				3	PAL	LIC				REY	HY	DRA	JLIC				APE	KHY	ORA	JLIC	
AF	EXY	YOP W	AUI	<u> </u>			\$ouo*	-	3	RAULY				1	15	PAL	OT.V.				PE	2	2	2		•		APE'		ORA'	JL1C	2
AF	EX	9					0	REX						APEX	HY	DRAY	DESCRIPTION	Barrel	P	Piston	Gland	Grease Fitting 1/8-27 NPT	Plastic Plug	Plug 0-Ring (SAE)	Stover Locknut	Wiper	Rod Seal	Gland Back-Up Ring	Gland 0-Ring	Rod Back-Up Ring	Rod O-Ring	Piston Seal
AF	EXT	HOP.	LAUI		1 20 ′		A	PEX		MULIC				APEX	HAL	DRAL	TEM DE	1 Ba	2 Rod	3 Pis	4 Gla	5 2 Gre	6 Pla	7 Plu	8 Sto	9 Wi	10 Ro	11, Gla	12 🔀 Gla		14 Ro	24 16



HBU 3000 PSI WP

HADE		HADK		HADEL	HADK			LYDI	
PSI	PART No.	STROKE	ROD	DIMEN	ISIONS	E	F	PIN	WEIGHT
3000	PANI NU.	SINUKE	DIAMETER	RETRACTED	EXTRACTED		PORT	File	(LBS)
30	HBU1504-ORB	4"		12"	16"	8.5"	(C)		9
ළ a	HBU1506-ORB	6"	,,,С	14"	20"	10.5"	lable)		10
	HBU1508-ORB	8" P	YOL.	16"	24"	12.5"		NOF	11
.5" BORE WP	HBU1510-ORB	10"	1"	18"	28"	14.5"		3/4"	13
7:	HBU1512-ORB	12"		20"	32"	16.5"	SA		14
	HBU1514-0RB	14"		22"	36"	18.5"	4		15
HBU	HBU1516-ORB	16"		24"	40"	20.5"	ב		17
	HBU2004-ORB	4"	COLIC	12"	16"	8.5"		.05	13
DEXHIVE	HBU2006-ORB	6"		14"	20"	10.5"		APEXHYD	14
X)	HBU2008-ORB	8"		16"	24"	12.5"			15
	HBU2010-ORB	10"		18"	28"	14.5"			15
	HBU2012-ORB	12"		20"	32"	16.5"	ole)		16
The bar	HBU2014-ORB	14"		22"	36"	18.5"	ilab		17
BORE SI WP	HBU2016-ORB	16"	VOL.	24"	40"	20.5"	Ava	100	22
DIST.	HBU2018-ORB	18"		26"	44"	22.5"	NPT	APEXH	22
12 H	HBU2020-ORB	20"	1 1/4"	28"	48"	24.5"		1"	23
HBU 300	HBU2024-0RB	24"		32"	56"	28.5"	(3/8"		28
I CO	HBU2028-ORB	28"		36"	64"	32.5"	E#6		31
	HBU2030-ORB	30"	11110	38"	68"	34.5"	SAE		34
MOR	HBU2032-ORB	32"		40"	72"	36.5"	03	HYDE	36
BEY,	HBU2036-ORB	36"		APE 44"	80"	40.5"		APEX	39
	HBU2040-ORB	40"		48"	88"	44.5"			40
	HBU2048-ORB	48"		56"	104"	52.5"			50
	HBU2504-ORB	4"	. 10	12"	16"	8.56"			17
JOR	HBU2506-ORB	6"\P	VIL.	14"	20"	10.56"		100	18
PEXH	HBU2508-ORB	8"		16"	24"	12.56"		APEXH	19
	HBU2510-ORB	10"		18"	28"	14.56"		,	22
	HBU2512-ORB	12"		20"	32"	16.56"	(e)		24
ш	HBU2514-0RB	14"		22"	36"	18.56"	labl		26
BORE	HBU2516-ORB	16"	ILIC	24"	40"	20.56"	Avail		30
S B	HBU2518-ORB	18"		26"	44"	22.56"	NPT A	HYDE	31
് വ	HBU2520-ORB	20"	1 1/2"	28"	48"	24.56"	/2" NI	APETIN	32
60	HBU2524-0RB	24"		32"	56"	28.56"	(1/2		37
HBU 30	HBU2528-ORB	28"		36"	64"	32.56"	8#		42
	HBU2530-ORB	30"		38"	68"	34.56"	SAE#8		44
	HBU2532-ORB	32"	ULIC	40"	72"	36.56"			46
HYDR	HBU2536-ORB	36"		44"	80"	40.56"		NPEX HYDE	50
BE	HBU2540-ORB	40"		48"	88"	44.56"		APE	55
	HBU2548-ORB	48"		56"	104"	52.56"			62
							-		

HBU 3000 PSI WP



	AND,		MADI	LIVD.		HAD			AAD.
APE		APE	ROD	DIMENS	SIONS		Е	D.P.	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	F	PORT	PIN	(LBS)
	HBU3004-ORB	4"		12"	16"	9.04"			24
	HBU3006-ORB	6"	LYDRAULIC	14"	20"	11.04"	C		25
	HBU3008-ORB	8"	KHADKI	16"	24"	13.04"			26
	HBU3010-0RB	10"		18"	28"	15.04"		N. C.	28
	HBU3012-ORB	12"		20"	32"	17.04"			29
WP	HBU3014-0RB	14"		22"	36"	19.04"	lable)		31
S 8	HBU3016-ORB	16"	IDRAULIC :	24"	40"	21.04"	Availa		32
U 3"	HBU3018-0RB	18" PE	4.4/01	26"	44"	23.04"	NPT A	111 AP	36
HB 30	HBU3020-ORB	20"	1 1/2"	28"	48"	25.04"	2"	1"	39
	HBU3024-0RB	24"		32"	56"	29.04"			42
	HBU3028-ORB	28"	., \C	36"	64"	33.04"	SAE#8		48
	HBU3030-ORB	30"	HYDRAULIC	38" HORAC	68"	35.04"			52
	HBU3032-0RB	32"		40"	72"	37.04"		AP	56
	HBU3036-0RB	36"		44"	80"	41.04"			60
	HBU3040-ORB	40"		48"	88"	45.04"			65
	HBU3048-ORB	48"	AULIC	56"	104"	53.04"	XC		71
, oE	HBU3504-0RB	4"	KHAOKI	149	18"	8.92"		, DI	28
	HBU3506-ORB	6"		16"	22"	10.92"			31
	HBU3508-ORB	8"		18"	26"	12.92"			33
	HBU3510-0RB	10"		20"	30"	14.92"			36
	HBU3512-ORB	12"	WDRAULIC	22"	34"	16.92"			39
	HBU3514-0RB	14"PE		24"	38"	18.92"	lable)	APY	41
P P	HBU3516-ORB	16"		26"	42"	20.92"	Availa		45
SI W	HBU3518-ORB	18"		28"	46"	22.92"	PT		48
3.5" 0PS	HBU3520-ORB	20"	1 3/4"	30"	50"	24.92"	(1/2" N	1 1/4"	51
300 HBU	HBU3524-ORB	24"	KHYDRAULIC	34"	58"	28.92"			56
I PSE	HBU3528-ORB	28"		38"	66"	32.92"	SAE#8	AP	60
	HBU3530-ORB	30"		40"	70"	34.92"	S		64
	HBU3532-ORB	32"		42"	74"	36.92"			68
	HBU3536-0RB	36"	ORAULIC	46"	82"	40.92"	C		77
	HBU3540-ORB	40"	KHYD	50"	90"	44.92"		NP S	81
	HBU3548-ORB	48"		58"	106"	52.92"			85



HBU 3000 PSI WP

PELLIN	N. P.			DIMEN	ISIONS			PEX	
3	PART No.	STROKE	ROD DIAMETER	RETRACTED	EXTRACTED	F	PORT	PIN	WEIGHT (LBS)
	HBU4004-ORB	4"		14"	18"	9.27"			35
-RA	HBU4006-ORB	6"	I/C	16"	22"	11.27"		B	38
EXHADIA	HBU4008-ORB	8"		18"	26"	13.27"		PEXHYDK	41
	HBU4010-ORB	10"		20"	30"	15.27"			45
	HBU4012-ORB	12"		22"	34"	17.27"			48
	HBU4014-ORB	14"		24"	38"	19.27"	lable)		52
문	HBU4016-ORB	16"		26"	42"	21.27"	Availa	MORI	55
	HBU4018-ORB	18"		28"	46"	23.27"	NPT A	REX	59
4 d	HBU4020-ORB	20"	2"	30"	50"	25.27"	(1/2" N	1 1/2"	63
HBU 300	HBU4024-0RB	24"		34"	58"	29.27"			68
	HBU4028-ORB	28"	LIC	38"	66"	33.27"	AE#8		77
KHYDRA	HBU4030-ORB	30"		40"	70"	35.27"	S	XHYDR	81
K.I.	HBU4032-ORB	32"		42"	74"	37.27"		PEI	84
	HBU4036-ORB	36"		46"	82"	41.27"			92
	HBU4040-0RB	40"		50"	90"	45.27"			99
-BA	HBU4048-ORB	48"	I/C	58"	106"	53.27		8	V114
	HDUEGOA ODD	AIR		ACII.	30	10 5"		PEKHION	60
	HBU5004-ORB	4" CII		16"	20"	10.5"			63
	HBU5006-ORB	6"		18"	24"	12.5"			67
	HBU5008-ORB	8 ^u		20"	28"	14.5"			71
JORA	HBU5010-ORB	10") TIC	22"	32"	16.5"		NOR	76
EXHIT	HBU5012-ORB	12"		24"	36"	18.5"	<u>e</u>	REXHIT	80
ша	HBU5014-ORB	14"		26"	40"	20.5"	lab e)		81
8 ≥	HBU5016-ORB	16"		28"	44"	22.5"	Ava		89
E 0	HBU5018-ORB	18"	2 1/2"	30"	48"	24.5"	E#12 T Av	1 3/4"	93
HBU 5	HBU5020-ORB	20"		32"	52"	26.5"	SA	HYDRI	98
三の	HBU5024-ORB	24"		36"	60"	30.5"	SAE#8 (1/2"	DEX,	106
	HBU5028-ORB	28"		40"	68"	34.5"	SA		115
	HBU5030-ORB	30"		42"	72"	36.5"			120
	HBU5032-ORB	32"	SUC	44"	76"	38.5"	d		124
EXHYDRA	HBU5036-ORB	36"		48"	84" R	42.5"		DEXHYDR	
	HBU5040-ORB	40"		52"	92"	46.5"			142
	HBU5048-ORB	48"		60"	108"	54.5"			159





H		HAD	XH		1 HAD		HAL			HAL
	APE	DADTAL	OTDOVE	ROD	DIME	VSIONS		H	-	WEIGHT
		PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	E	PORT	PIN	(LBS)
		HBU6004-ORB	4"		17"	21"	15.25"			93
WORAULIC		HBU6006-ORB	6"	ORAULIC	19"	25"	19.25"	ric		100
Mo.	RPE	HBU6008-ORB	8"		21"	29"	23.25"			107
		HBU6010-ORB	10"		23"	33"	27.25"			114
		HBU6012-ORB	12"		25"	37"	31.25"			121
	W W W	HBU6014-ORB	14"		27"	41"	35.25"	able)		128
HORAULIC	8 2 S	HBU6016-ORB	16"	DRAULIC	29"	45"	39.25"	Available)		135
	BU 6"	HBU6018-ORB	18"	2 1/2"	31"	49"	43.25"	NPT /	1 2//	142
	3 E	HBU6020-ORB	20"	2 1/2"	33"	53"	47.25"	(3/4"	1 3/4"	149
		HBU6024-ORB	24"		37"	61"	55.25"	#12 (163
VDRAULIC		HBU6028-ORB	28"	NILIC	41"	69"	63.25"	SAE ;		177
YORK		HBU6030-ORB	30"	ORAC	43"	73"	67.25"			184
	APE	HBU6032-ORB	32"		45"	77"	71.25"		P	191
		HBU6036-ORB	36"		49"	85"	79.25"			205
		HBU6040-ORB	40"		53"	93"	87.25"			219
WORAULIC		HBU6048-ORB	48"	BAULIC	61"	109"	103.25"	ric		247
HAD.	APE	XHIV	APEXH		APEX HIVD	P	PEXHAD		P	PEXHYD

APEXHYDRAULIC



HTR 2500 PSI WP

Actual cylinder color is BLACK



ROD: Steel, superior and hard, chrome plated 0.001" thick for a final surface hardness 69-71 Rockwell C.

PISTON: Ductile iron, for increased durability.

TUBE: Steel, honed and precision finished for extended seal life. **STEEL TIE-ROD:** High tensile strength to prevent stretching.

PORTS: Standard SAE. (NPT available upon request).

END CAP: With 2 ports 90° to each other for greater flexibility of assembly.

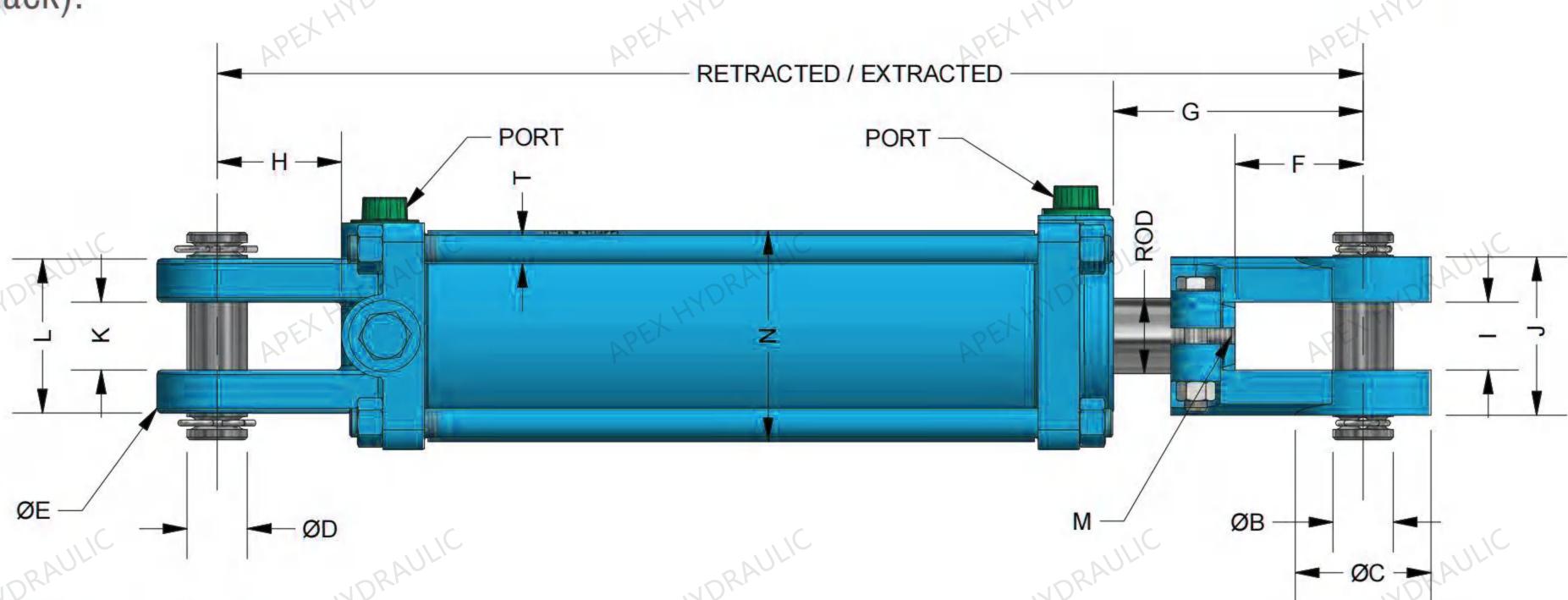
ATTACHMENT: Ductile iron, threaded female clevis,

adjustable with locking bolt. **PIN:** Steel, zinc plated.

SEALS: Top quality, sourced in North America seals.

PAINT: High quality paint for corrosion resistance (standard

color: black).



*All dimensions are in inches

Part No	BORE	C	E	F	Н	I,K	J	Ł	M	N	Ť
HTR20-	2.00	2.000	2.000	2.125	2.06	1.125	2.500	2.375	1-1/8-12-UNF	2.375	M10
HTR25-	2.50	2.000	2.000	2.125	2.06	1.125	2.500	2.500	1-1/8-12-UNF	2.875	M10
HTR30-	3.00	2.250	2.000	2.125	2.06	1.125	2.625	2.500	1-1/4-12-UNF	3.375	M12
HTR35-	3.50	2.250	2.250	2.1 25	2.06	1.125	2.625	2.500	1-1/4-12-UNF	3.875	M16
HTR40-	4.00	2.250	2.250	2.125	2.06	1.125	2.625	2.625	1-1/4-12-UNF	4.375	M16
HTR50-	5.00	2.500	3.000	2.125	2.250	1.250	2.875	3.500	1-1/2-12-UNF	5.500	M20

HTR 2500 PSI WP



	J	U						V	Y							
717		SEAL KIT NUMBER	HER SK-HTR201125	HER SK-HTH251125-P	HER SK-HTH2511250-P	HER SK-HTR301250-P	HER SK-HTH301500-P	HER SK-HTR351250-P	HER SK-HTR351500-P	HER SK-HTR401250	HER SK-HTR402000-P	HER SK-HTR401500	HER SK-HTR401750-P	HER SK-HTR402000-P	HER SK-HTR501500-P	HER SK-HTR502000-P
717	SEAL KIT NUMBER	Part No.	HTR20XX-0RB-P	HTR2504-0RB-P to HTR2524-0RB-P	HTR2530-0RB-P to HTR2548-0RB-P	HTR3004-0RB-P to HTR3020-0RB-P	HTR3024-0RB-P to HTR3048-0RB-P	HTR3518-0RB-P - HTR3520-0RB-P	HTR3524-0RB-P - HTR3548-0RB-P	HTR4004-0RB-P - HTR4016-0RB-P	HTR4016-ASAE-0RB-P	HTR4018-0RB-P to HTR4024-150-0RB-P	HTR4024-175-0RB-P	HTR4024-200-0RB-P to HTR4048-0RB-P	HTR5004-0RB-P to HTR5010-0RB-P	HTR-50XX-0RB-P
				A	PEX!	40	2AU				P	PEX	HIC	RA		
71-1				A	EX	NO	RAU				P	PEX		RAL		(x4)
				A	EX	HYD	RAU				P	PEX	HAC	RAI	JUIC OF THE STATE	8
71	C			A	EX	AND	RAU		~	•	21	77		1	ALC MAN	
JL	C					NO	6 RAU	No.	\ \							
				A	EX			1			P	PEX			V	



HTR 2500 PSI WP

		NV.	.4	HAD	A HAVE			HAD	
EN	APEN		ROD	DIMEN	ISIONS		PE	PIN	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	G	PORT	D, B	(LBS)
	HTR2004-ORB-P	4"		14 1/4"	18 1/4"				14
	HTR2006-0RB-P	6"		16 1/4"	22 1/4"	3.375"		BAUI	16
EX HAD	HTR2008-0RB-P	8"	APE	18 1/4"	26 1/4"		APE	LHYDRAU	17
3	HTR2008-ASAE-ORB-P	8"		20 1/4"	28 1/4"	5.375"	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		18
S	HTR2010-0RB-P	10"		20 1/4"	30 1/4"		ple)		19
9	HTR2012-0RB-P	12"		22 1/4"	34 1/4"		Availa		20
250	HTR2014-ORB-P	14"		24 1/4"	38 1/4"		-	JORAUI	22
ш	HTR2016-0RB-P	16"	1 1/8"	26 1/4"	42 1/4"		8" NPT	1"	24
808	HTR2018-0RB-P	18"		28 1/4"	46 1/4"		(3/8		26
2 8	HTR2020-ORB-P	20"		30 1/4"	50 1/4"	3.375"	E#6		27
2	HTR2024-0RB-P	24"		34 1/4"	58 1/4"		SAE	2	30
	HTR2030-ORB-P	30"		40 1/4"	70 1/4"			NDRAU	35
FX W.	HTR2036-0RB-P	36"	APE	46 1/4"	82 1/4"		APE		40
	HTR2040-ORB-P	40"		50 1/4"	90 1/4"				
	HTR2048-0RB-P	48"		58 1/4"	106 1/4"				

	HTR2504-0RB-P	4"		14 1/4"	18 1/4"				16
	HTR2506-ORB-P	6"		16 1/4"	22 1/4"	3.375"		. 11	C 18
	HTR2508-ORB-P	8"		18 1/4"	26 1/4"			HYDRAU	19
3	HTR2508-ASAE-ORB-P	8"	APE	20 1/4"	28 1/4"	5.375"	APE		20
PSI	HTR2510-0RB-P	10"		20 1/4"	30 1/4"		ple)		21
0	HTR2512-0RB-P	12"	1 1/8"	22 1/4"	34 1/4"		ailab		23
250	HTR2514-0RB-P	14"		24 1/4"	38 1/4"		T Ava		25
H	HTR2516-0RB-P	16"		26 1/4"	42 1/4"		- NPT	HANNED	27
BOF	HTR2518-0RB-P	18"	APE	28 1/4"	46 1/4"		(3/8"		28
	HTR2520-0RB-P	20"		30 1/4"	50 1/4"	3.375"			30
2.5"	HTR2524-ORB-P	24"		34 1/4"	58 1/4"		SAE#6		34
HH	HTR2530-ORB-P	30"		40 1/4"	70 1/4"	\C	M		45
	HTR2536-0RB-P	36"	4 4 / 411	46 1/4"	82 1/4"			HYDRAU	56
	HTR2540-ORB-P	40"	1 1/4"	50 1/4"	90 1/4"		APE		
	HTR2548-ORB-P	48"		58 1/4"	106 1/4"				

HTR 2500 PSI WP



										_
			DOD	DIMENS	SIONS		-	PIN	WEIGHT	
	PART No.	STROKE	ROD DIAMETER	RETRACTED	EXTRACTED	G	PORT	D, B	(LBS)	
	HTR3004-0RB-P	4"		14 1/4"	18 1/4"				22	
	HTR3006-ORB-P	6"	DRAULIC	16 1/4"	22 1/4"	3.375"	C		24	3/7
N N	HTR3008-0RB-P	8" PEX	HAD	18 1/4"	26 1/4"	XXXV		APE	26	
PSI	HTR3008-ASAE-ORB-P	8"		20 1/4"	28 1/4"	5.375"		4"	27	
	HTR3010-ORB-P	10"		20 1/4"	30 1/4"		ple)		28	
8	HTR3012-0RB-P	12"	4 4 / / / 0	22 1/4"	34 1/4"	2 27511	ilabl		30	
25	HTR3014-0RB-P	14"	1 1/4"	24 1/4"	38 1/4"	3.375"	Ava		33	الا
뿚	HTR3016-ORB-P	16"	HAD.	26 1/4"	42 1/4"	HAD.	NPT	, PF	35	
8	HTR3016-ASAE-ORB-P	16"		31 1/2"	47 1/2"	8.625"	/5"	1 1/4"	38	
<u></u>	HTR3018-ORB-P	18"		28 1/4"	46 1/4"		ב		37	
	HTR3020-0RB-P	20"		30 1/4"	50 1/4"		SAE#8		39	
=	HTR3024-0RB-P	24"	ORAULIC	34 1/4"	58 1/4"	ORAUL	S		43	3/7
	HTR3030-0RB-P	30"	HAV	40 1/4"	70 1/4"	3.375"		1"	59	
	HTR3036-ORB-P	36"	4 4 /0"	46 1/4"	82 1/4"				68	
	HTR3040-0RB-P	40"	1 1/2"	50 1/4"	90 1/4"					
	HTR3048-ORB-P	48"		58 1/4"	106 1/4"					
	1110		1110		10	111				

	HTR3504-ORB-P	4"		14 1/4"	18 1/4"			22
	HTR3506-ORB-P	6"		16 1/4"	22 1/4"	3.50"		26
	HTR3508-ORB-P	8"	NULIC	18 1/4"	26 1/4"	NULIC		28
	HTR3508-ASAE-ORB-P	8"	1 1/4"	20 1/4"	28 1/4"	5.50"	1"	29
2	HTR3510-ORB-P	10"	1 1/4	20 1/4"	30 1/4"			30
	HTR3512-ORB-P	12"		22 1/4"	34 1/4"		lable)	33
7000	HTR3514-0RB-P	14"		24 1/4"	38 1/4"	0.00	Avai	35
Ú	HTR3516-ORB-P	16"	,,,,	26 1/4"	42 1/4"	,, (C)	Ь	37
	HTR3516-ASAE-ORB-P	16"	1 1/2"	31 1/2"	47 1/2"	0 0011	1 1/4"	39
	HTR3518-ORB-P	18"	4 4 //!!!	28 1/4"	46 1/4"		E APE	40
2	HTR3520-ORB-P	20"	1 1/4"	30 1/4"	50 1/4"		SAE#8	42
,	HTR3524-ORB-P	24"		34 1/4"	58 1/4"		SA	51
	HTR3530-ORB-P	30"		40 1/4"	70 1/4"	3.50"	1"	59
	HTR3536-ORB-P	36"	1 1/2"	46 1/4"	82 1/4"	JORAULI		68
	HTR3540-ORB-P	40"		50 1/4"	90 1/4"		APE	
	HTR3548-ORB-P	48"		58 1/4"	106 1/4"			



HTR 2500 PSI WP

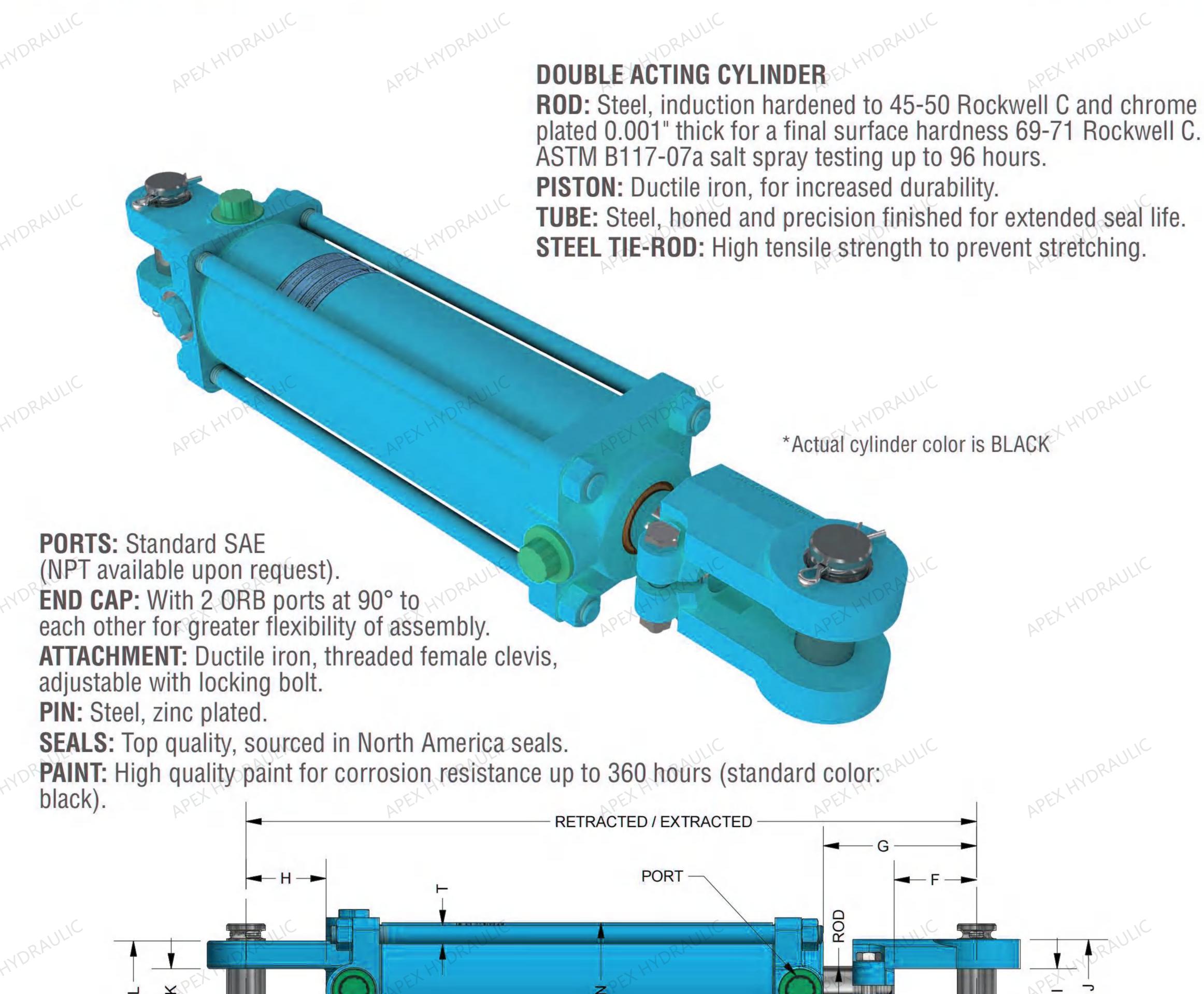
X	a EX	L.		XX	EXT			X	
		OTDOWS.	ROD	DIMEN	ISIONS		MT Y	PIN	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	G	PORT	D, B	(LBS)
	HTR4004-ORB-P	4"		14 1/4"	18 1/4"				30
	HTR4006-ORB-P	6"		16 1/4"	22 1/4"	3.375"		a AU	33
XHYO	HTR4008-ORB-P	8"		18 1/4"	26 1/4"		25	XHYDRAU	35
WP	HTR4008-ASAE-ORB-P	8"	4 4 // 11	20 1/4"	28 1/4"	5.375"	APF	4"	36
	HTR4010-0RB-P	10"	1 1/4"	20 1/4"	30 1/4"			1	37
PSI	HTR4012-0RB-P	12"		22 1/4"	34 1/4"	0.07511	le)		40
	HTR4014-ORB-P	14"		24 1/4"	38 1/4"	3.375"	ilab		42
25	HTR4016-ORB-P	16"		26 1/4"	42 1/4"		Ava	HYDRAG	48
뿙	HTR4016-ASAE-ORB-P	16"	2" PR	31 1/2"	47 1/2"	8.625"	NPT	1 1/4"	64
80	HTR4018-ORB-P	18"		28 1/4"	46 1/4"		/2" N		51
4"	HTR4020-ORB-P	20"	1 1/2"	30 1/4"	50 1/4"		7		53
05	HTR4024-150-0RB-P	24"		34 1/4"	58 1/4"		E#8		59
星	HTR4024-175-ORB-P	24"	1 3/4"	34 1/4"	58 1/4"		SA	DRAU!	64
XHAN	HTR4024-200-ORB-P	24"	AP!	34 1/4"	58 1/4"	3.375"	APF	1"	70
	HTR4030-ORB-P	30"		40 1/4"	70 1/4"		, ,		87
	HTR4036-ORB-P	36"	2"	46 1/4"	82 1/4"				98
	HTR4040-ORB-P	40"		50 1/4"	90 1/4"				
	HTR4048-ORB-P	48"		58 1/4"	106 1/4"	<u>s</u>		SAU	7C
"IND		NOR		11/0/2	1/0/2			NOK	

	HTR5004-ORB-P	4"		16 1/4"	20 1/4"				53
	HTR5006-ORB-P	6"		18 1/4"	24 1/4"	3.75"			55
	HTR5008-ORB-P	8",	1 1/2"	20 1/4"	28 1/4"	710		1" ~	[√] 64
M	HTR5008-ASAE-ORB-P	8"		22 1/4"	30 1/4"	5.75"	ct	HADK	66
	HTR5010-ORB-P	10"	AP	22 1/4"	32 1/4"		(a)		68
PSI	HTR5012-ORB-P	12"		24 1/4"	36 1/4"	0.7511	labl		77
200	HTR5014-ORB-P	14"		26 1/4"	40 1/4"	3.75"	Avai		82
12	HTR5016-ORB-P	16"		28 1/4"	44 1/4"		NPT /		87
	HTR5016-ASAE-ORB-P	16"		31 1/2"	47 1/2"	7.00"	/2" N	HYDRAU	90
S	HTR5018-ORB-P	18"	AP	30 1/4"	48 1/4"		3		92
<u> </u>	HTR5020-ORB-P	20"	2"	32 1/4"	52 1/4"		8	1 1/4"	93
150	HTR5024-ORB-P	24"		36 1/4"	60 1/4"		SAE		106
HH	HTR5030-ORB-P	30"		42 1/4"	72 1/4"	3.75"			121
	HTR5036-ORB-P	36"		48 1/4"	84 1/4"			HYDRAU	136
XHAV	HTR5040-ORB-P	40"	APE	52 1/4"	90 1/4"		APEX	Him	145
	HTR5048-ORB-P	48"	· ·	60 1/4"	106 1/4"		,		150

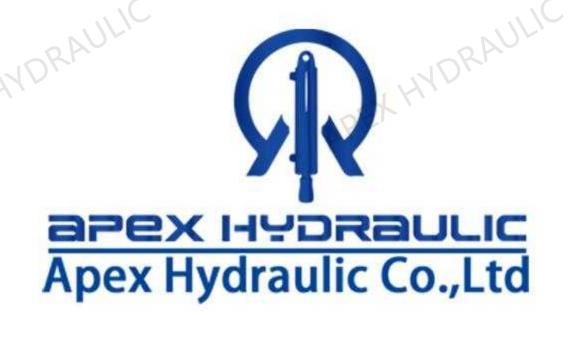
HTH 3000 PSI WP

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*All dimen	sions are in inch	nes		APEX!			AP.	EXT		APEX F.		
	Part No	BORE	C	E	F	н	I,K	J	L	M	N	T
	HTH20-	2.00	2.000	2.000	2.125	2.06	1.125	2.500	2.375	1 1/8-12-UNF	2.375	M10
	HTH25-	2.50	2.000	2.000	2.125	2.06	1.125	2.500	2.500	1 1/8-12-UNF	2.875	M10
ric	HTH30-	3.00	2.250	2.000	2.125	2.06	1.125	2.625	2.560	1 1/4-12-UNF	3.375	M12
	HTH35-	3.50	2.250	2.250	2.125	2.06	1.125	2.625	2.590	1 1/4-12-UNF	3.875	M16
	HTH40-	4.00	2.250	2.250	2.125	2.06	1.125	2.625	2.625	1 1/4-12-UNF	4.375	M16
	HTH50-	5.00	2.500	3.000	2.125	2,25	1.125	2.2.875	3.5	1 1/2-12-UNF	5.500	M20



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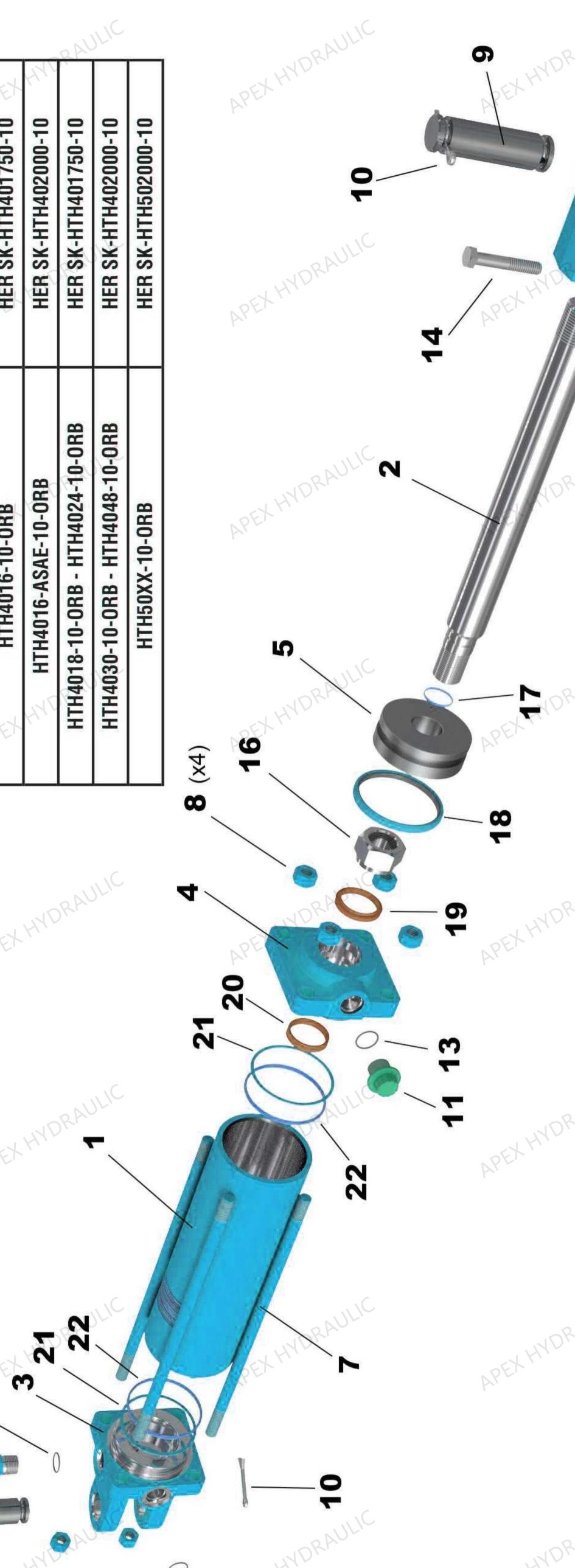
3000 PSI WP

HER SK-HTH201125-10 HER SK-HTH301500-10 HER SK-HTH351500-10 HER SK-HTH402000-10 HER SK-HTH351250-10 HER SK-HTH401500-10 HER SK-HTH401750-10 HER SK-HTH402000-10 **SEAL KIT NUMBER** HTH3504-10-0RB to HTH3514-10-0RB HTH3016-10-0RB to HTH3048-10-0RB HTH3516-10-0RB to HTH3548-10-0RB H4014-10-0RB HTH3004-10-0RB to HTH3014-10-0RB HTH4018-10-0RB - HTH4024-10-0RB 10-0RB HTH4016-10-0RB HTH25XX-10-0RB HTH20XX-0RB-P HTH4004-10-0RB to HT HTH4016-ASAE-

3

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MIT	-	က	-	-		, DR	NUL		-	2	2	
				AP							Ph	
DESCRIPTION	Steel Plug (SAE)	Plug 0-Ring (SAE)	Clevis Lock Bolt	Clevis Lock Nut	Stover Locknut	Rod O-Ring	Piston Seal	Wiper	Rod Seal	Gland Back-Up Ring	Gland 0-Ring	
HEW	12	13	14	15	16	17	18	19	20	21	22	
110							111					Į

QTY	1	,	-	L A	1	1	4	8	2	4	2	
DESCRIPTION	Barrel (Tube)	Rod	End Cap	Gland	Piston	Threaded Clevis	Tie-Rod	Tie-Rod Nut	Pin	Cotterpin	Plastic Plug (SAE)	
ITEM	1	2	3	7.4	5	6 0	7	8	9	10	LPA F	

HTH 3000 PSI WP



, pE		DEX	Ť	DIRECTO	TONC.		•	DEN	
	PART No.	STROKE	ROD	DIMENS	HUM3	G	PORT	PIN (B,D)	WEIGHT
			DIAMETER	RETRACTED	EXTRACTED		F		(LBS)
	HTH2004-10-ORB	4"		14 1/4"	18 1/4"				17
	HTH2006-10-ORB	6°	ILIC	16 1/4"	22 1/4"	3.375"			19
10 	HTH2008-10-ORB	8"	RA	18 1/4"	26 1/4"	RAC		W W	20
3	HTH2008-ASAE-10-ORB	8"		20 1/4"	28 1/4"	5.375"		APEX	21
S	HTH2010-10-ORB	10"		20 1/4"	30 1/4"		le)		22
증	HTH2012-10-ORB	12"		22 1/4"	34 1/4"	0.07511	Available)		23
300	HTH2014-10-ORB	14"		24 1/4"	38 1/4"	3.375"			25
	HTH2016-10-ORB	16"	1 1/8"	26 1/4"	42 1/4"	RAULIC	"NPT	1"	26
#	HTH2018-10-ORB	18"		28 1/4"	46 1/4"		(1/2	APEXH	28
80	HTH2020-10-ORB	20"		30 1/4"	50 1/4"		8		29
2	HTH2024-10-ORB	24"		34 1/4"	58 1/4"		SAE#8		32
Ē	HTH2030-10-ORB	30"		40 1/4"	70 1/4"	3.375"			36
	HTH2036-10-ORB	36"	RAULIC	46 1/4"	82 1/4"	RAULIC			41
	HTH2040-10-0RB	40"		50 1/4"	90 1/4"			APEXH	45
	HTH2048-10-ORB	48"		58 1/4"	106 1/4"				51

HTH2504-10-ORB	4"		14 1/4"	18 1/4"			68	18
HTH2506-10-ORB	6"	RAULIC	16 1/4"	22 1/4"	3.375"		DR.	21
HTH2508-10-ORB	8"		18 1/4"	26 1/4"		AP	EXH	23
HTH2508-ASAE-10-ORB	8"		20 1/4"	28 1/4"	5.375"			24
HTH2510-10-0RB	10"		20 1/4"	30 1/4"		(e)		25
HTH2512-10-0RB	12"		22 1/4"	34 1/4"	2 27511	Available)	1	26
HTH2514-10-ORB	14"	NULIC	24 1/4"	38 1/4"	3.375"	-3/i	1 8	28
HTH2516-10-ORB	16"	1 1/4"	26 1/4"	42 1/4"	ORM	I 1'	X HIOR	30
HTH2518-10-ORB	18"		28 1/4"	46 1/4"		[1/2]		33
HTH2520-10-0RB	20"		30 1/4"	50 1/4"		SAE#8		34
HTH2524-10-ORB	24"		34 1/4"	58 1/4"		SAI		40
HTH2530-10-ORB	30"	., \C	40 1/4"	70 1/4"	3.375"			43
HTH2536-10-ORB	36"	RAUL	46 1/4"	82 1/4"	ORAUL.		NAD8	49
HTH2540-10-0RB	40"		50 1/4"	90 1/4"		AP	EX	54
HTH2548-10-ORB	48"		58 1/4"	106 1/4"			T W	60



3000 PSI WP

THE STATE OF THE S	DADE III	CTDOVE	ROD	DIME	NSIONS		HT.	BIII (B. B)	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	G	PORT	PIN (B,D)	(LBS)
	HTH3004-10-0RB	4"		14 1/4"	18 1/4"				23
	HTH3006-10-ORB	6"		16 1/4"	22 1/4"	3.375"			26
- RA	HTH3008-10-ORB	8"		18 1/4"	26 1/4"			BAULI	28
	HTH3008-ASAE-10-ORB	8"	1 1/4"	20 1/4"	28 1/4"	3.375"	DEX	411	29
3	HTH3010-10-ORB	10"		20 1/4"	30 1/4"			1	30
S	HTH3012-10-0RB	12"		22 1/4"	34 1/4"	3.375"	ilable)		33
8	HTH3014-10-ORB	14"		24 1/4"	38 1/4"	3.373	8		35
90	HTH3016-10-ORB	16"		26 1/4"	42 1/4"		NPT A	11/1	38
E E	HTH3016-ASAE-10-ORB	16"	SEX	31 1/2"	47 1/2"	8.625"	(1/2" N	1 1/4"	40
	HTH3018-10-0RB	18"	APEN	28 1/4"	46 1/4"				40
<u></u>	HTH3020-10-0RB	20"		30 1/4"	50 1/4"		SAE#8		42
E	HTH3024-10-0RB	24"	1 1/2"	34 1/4"	58 1/4"				47
=	HTH3030-10-ORB	30"		40 1/4"	70 1/4"	3.375"		1"	54
HYDRA	HTH3036-10-0RB	36"		46 1/4"	82 1/4"		.1	HYDRAU	61
	HTH3040-10-ORB	40"	APEX	50 1/4"	90 1/4"		APEX	*	66
	HTH3048-10-ORB	48"		58 1/4"	106 1/4"				75

	HTH3504-10-ORB	4"		14 1/4"	18 1/4"			27
	HTH3506-10-ORB	6"		16 1/4"	22 1/4"	3.50"		30
	HTH3508-10-ORB	8"		18 1/4"	26 1/4"			33
	HTH3508-ASAE-10-ORB	8"	1 1/4"	20 1/4"	28 1/4"	5.50"	L. J. GRAUL	34
S	HTH3510-10-ORB	10"	APEXP	20 1/4"	30 1/4"		REXHAIT	36
	HTH3512-10-ORB	12"		22 1/4"	34 1/4"	2 5011	able	38
3000	HTH3514-10-ORB	14"		24 1/4"	38 1/4"	3.50"	Available)	41
(2)	HTH3516-10-ORB	16"		26 1/4"	42 1/4"		TAN L	44
뿚	HTH3516-ASAE-10-ORB	16"		31 1/2"	47 1/2"	8.80"	<u>1 1/4"</u>	46
8	HTH3518-10-0RB	18"	APEX	28 1/4"	46 1/4"		COE HAND	47
, S	HTH3520-10-ORB	20"		30 1/4"	50 1/4"		SAE#8	49
E 3	HTH3524-10-ORB	24"	1 1/2"	34 1/4"	58 1/4"		8	55
E	HTH3530-10-ORB	30"		40 1/4"	70 1/4"	3.50"	1"	63
	HTH3536-10-ORB	36"		46 1/4"	82 1/4"		1100	72
MADRI	HTH3540-10-ORB	40"	The state of the s	50 1/4"	90 1/4"		HYDRAUL	77
	HTH3548-10-0RB	48"	APEX	58 1/4"	106 1/4"		APEX.	88

HTH 3000 PSI WP



	M'								
RP'	DADTIL	OTDOUT	ROD	DIMEN	ISIONS		Ħ	DIM (B.D.)	WEIGHT
	PART No.	STROKE	DIAMETER	RETRACTED	EXTRACTED	G	PORT	PIN (B,D)	(LBS)
	HTH4004-10-ORB	4"		14 1/4"	18 1/4"				34
	HTH4006-10-ORB	6"	AULIC	16 1/4"	22 1/4"	3.375"			38
	HTH4008-10-ORB	8"	DK1	18 1/4"	26 1/4"	DKI		a EX	42
2	HTH4008-ASAE-10-ORB	8"	1 1/2"	20 1/4"	28 1/4"	5.375"		APEX 111	43
3	HTH4010-10-ORB	10"		20 1/4"	30 1/4"		(a)	•	45
PSI	HTH4012-10-ORB	12"		22 1/4"	34 1/4"	0.07511	ilable)		48
9	HTH4014-10-ORB	14"	1110	24 1/4"	38 1/4"	3.375"	Ava		52
ਲ	HTH4016-10-ORB	16"	1 3/4"	26 1/4"	42 1/4"	DRAU	NPT		55
H	HTH4016-ASAE-10-ORB	16"	2"	31 1/2"	47 1/2"	8.625"	(1/2"	1 1/4"	59
8	HTH4018-10-ORB	18"		28 1/4"	46 1/4"				59
14	HTH4020-10-ORB	20"	1 3/4"	30 1/4"	50 1/4"		SAE#8		62
E	HTH4024-10-ORB	24"		34 1/4"	58 1/4"		S		69
Ξ	HTH4030-10-ORB	30"	DRAULI	40 1/4"	70 1/4"	3.875"		1"	79
	HTH4036-10-0RB	36"	gu	46 1/4"	82 1/4"			APEX	90
	HTH4040-10-ORB	40"	2"	50 1/4"	90 1/4"				97
	HTH4048-10-ORB	48"		58 1/4"	106 1/4"				110

				N. C.	X			N.	
	HTH5004-10-0RB	4"		16 1/4"	20 1/4"				53
	HTH5006-10-ORB	6"		18 1/4"	24 1/4"	3.75"			55
	HTH5008-10-ORB	8"		20 1/4"	28 1/4"				64
_	HTH5008-ASAE-10-ORB	8"	DRAULIC	22 1/4"	30 1/4"	5.75"			66
RPE	HTH5010-10-ORB	10"		22 1/4"	32 1/4"			APEX	68
5	HTH5012-10-ORB	12"		24 1/4"	36 1/4"	3.75"	Available)		77
	HTH5014-10-ORB	14"		26 1/4"	40 1/4"	3.73	vaila		82
	HTH5016-10-ORB	16"	011	28 1/4"	44 1/4"		NPT A	4 4 (40)	87
	HTH5016-ASAE-10-ORB	16"	DRAULI 2"	31 1/2"	47 1/2"	7.00"	(1/2" N	1 1/4"	900
	HTH5018-10-ORB	18"		30 1/4"	48 1/4"			APEX	92
	HTH5020-10-0RB	20"		32 1/4"	52 1/4"		SAE#8	, i	93
	HTH5024-10-0RB	24"		36 1/4"	60 1/4"				106
	HTH5030-10-0RB	30"		42 1/4"	72 1/4"	3.75"			121
	HTH5036-10-0RB	36"	BAULIC	48 1/4"	84 1/4"	BAULIC			AUL
	HTH5040-10-ORB	40"		52 1/4"	92 1/4"			DEX	HOL
	HTH5048-10-ORB	48"		60 1/4"	108 1/4"			APEX	136



HITG 3000 PSI WP

*Actual cylinder color is BLACK



ROD: Steel, induction hardened to 45-50 Rockwell C and chrome plated 0.001" thick for a final surface hardness 69-71 Rockwell C. ASTM B117-07a salt spray testing up to 96 hours.

PISTON: Ductile iron, for increased durability.

TUBE: Steel, honed and precision finished for extended seal life.

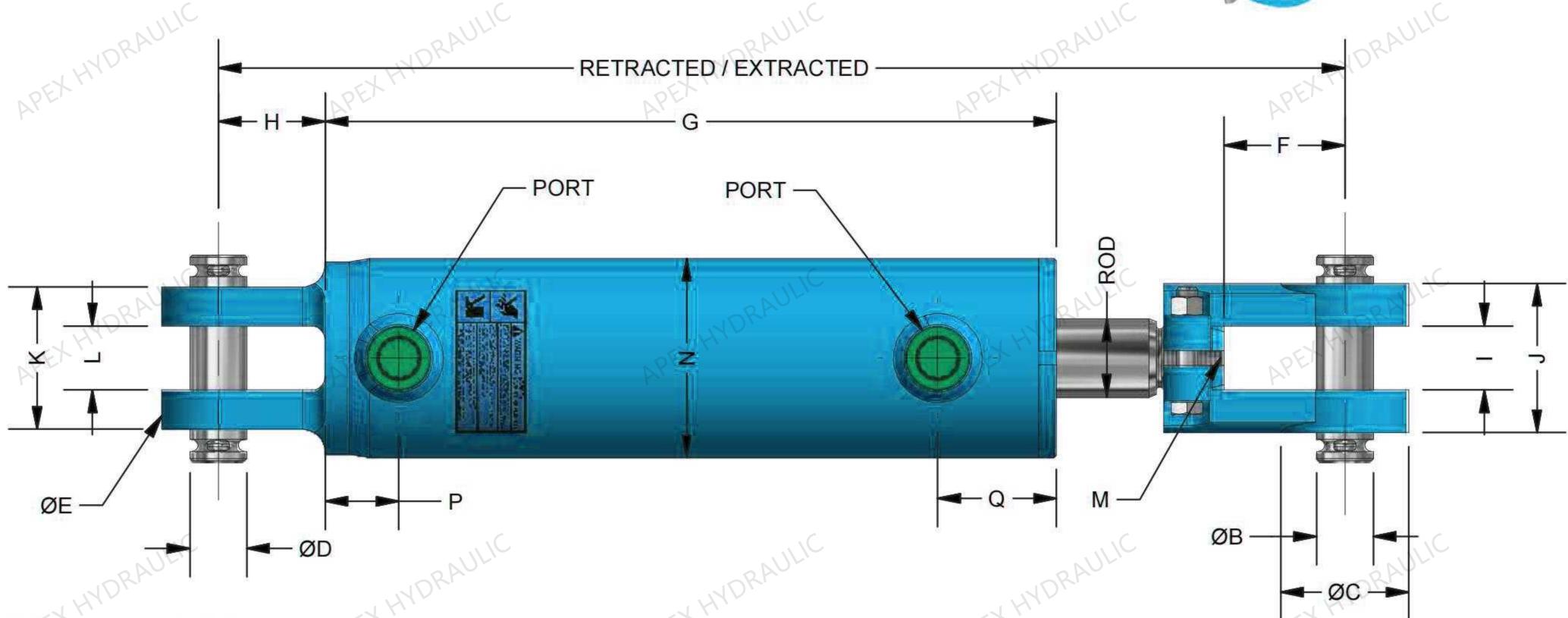
CONSTRUCTION: Heavy duty welded construction.

PORTS: Standard SAE.
(NPT available upon request)

ROD END: Ductile iron, threaded female. clevis, adjustable with locking bolt.

GLAND: Threaded.

SEALS: Top quality, sourced in North America seals.



*All dimensions are in inches

Part No	BORE	ROD	C	E	B, D	F	Н	ij	K	J	L	M	N	P	Q
HTG20-	2.00	1.125	2.00[2.25]	2.087[2.0]	1.000	2.125[1.937]	1.750	1.125[1.063]	1.125	2.500	2.125	1 1/8-12UN	2.375	1.275	2.311
HTG25-	2.50	1.250	2.00[2.25]	2.000	1.000	2.125[1.937]	1.750	1.125[1.063]	1,125	2.500	2.500	1 1/8-12UN	2.875	1.300	2.326
HTG30-	3.00	1.375	2.250	2.250	1.000	2.125	1.750	1.125[1.063]	1.125	2.625	2.500	1 1/4-12UN	3.375	1.300	2.145
HTG35-	3.50	1.500	2.500	2.500	1.000	2.125[1.875]	1.750	1.125[1.063]	1.125	2.625	2.750	1 1/4-12UN	3.875	1.338	2.133
HTG40-	4.00	1.750	2.500	2.500	1.000	2.125[1.875]	1.750	1.125[1.063]	1.125	2.625	2.750	1 1/2-12UN	4.375	1.425	2.138

HTG 3000 PSI WP



		KH	ORP	ULIC			1	DEX	HYDF	RULIC		_	• OE	+ 6	ORA	ULIC	9			DE.	XHY	DRI	XULI				. DF	XH	VDR	AUL	C
. KIT NUMBER	SEAL KIT NUMBER	HER SK-HTG2011125-R	HER SK-HTG251250-R	HER SK-HTG301375-R	HER SK-HTG351500-R	HER SK-HTG401750-R				AULIC			APE							APR		I OR						EXH			
SEAL	Part No.	HTG20XX-0RB	HTG25XX-0RB	HTG30XX-0RB	HTG35XX-0RB	HTG40XX-0RB		APEX	HYDF	AULIC	7		APE				~					DRI	XUL!				APF	EXH	10R	AUL	
	APE	XHY	DRA					APEX	HADE	RAULIC			APE	XHY	ORA	ULIC				APE	XH	ORI	XULI				APF	EXH	10R	AUL	
	APE	XHY	DRA					4 4	HYDE				APE	XHY	ORA	ULIC				APE	XH	ORI	XULI				APF	EXH	10R	AUL	
	APE	XHY	DRA	7		?				J_RULIV	17	16	OTT		DRA.			•	2	4			2	2	Vo.	-	AP ^r				
1								APEX	HYDE	AULI			DESCRIPTION	Barrel	Rod	Piston	Gland	Threaded Clevis	Pin	Cotterpin	Clevis Lock Bolt	Clevis Lock Nut	Plastic Plug (SAE)	Plug 0-Ring (SAE)	Stover Locknut	Wiper	Rod Seal	Gland Back-Up Ring	Gland 0-Ring	Rod O-Ring	Piston Seal
Ş		1	C.					APEX	HYDF				ITEM	X	2	3	4	2	9	IP!	8	000	10	11	12	13	714	15	16	17	18



HTG 3000 PSI WP

HAD.		DE	No.	190	HAD.	DEX HAD.		1.0E	HAD.	
	PAR	T No.	STROKE	ROD DIAMETER	1 California Material	NSIONS	G	PORT	PIN (B,D)	WEIGHT (LBS)
	_		1990		RETRACTED	EXTRACTED				1000000
		HTG2004-ORB	4"		14 1/4"	18 1/4"	8.92"			16
JORAL	777	HTG2006-ORB	6"		16 1/4"	22 1/4"	10.92"		NORAULI	17
HALL		HTG2008-ORB	8"	APE	18 1/4"	26 1/4"	12.92"	APEX	K1.	18
	HT	G2008-ASAE-ORB	8"	, l	20 1/4"	28 1/4"	12.92"	,		19
		HTG2010-ORB	10"		20 1/4"	30 1/4"	14.92"			20
		HTG2012-ORB	12"		22 1/4"	34 1/4"	16.92"	able)		22
ORE		HTG2014-ORB	14"		24 1/4"	38 1/4"	18.92"	Available)	NORAULI	23
6	AL -6111	HTG2016-ORB	16"	1 1/8"	26 1/4"	42 1/4"	20.92"	NPT	1"	25
C C	3	HTG2018-ORB	18"		28 1/4"	46 1/4"	22.92"	(1/2"	a.	26
三	3	HTG2020-ORB	20"		30 1/4"	50 1/4"	24.92"	9#		28
	. \G	HTG2024-ORB	24"		34 1/4"	58 1/4"	28.92"	SAE		31
MORAL	7	HTG2028-ORB	28"		38 1/4"	66 1/4"	32.92"		HYDRAUL	37
		HTG2030-ORB	30"	APE	40 1/4"	70 1/4"	34.92"	APEX		39
		HTG2032-ORB	32"		42 1/4"	74 1/4"	36.92"			41
		HTG2034-ORB	34"		44 1/4"	78 1/4"	38.92"			43
		HTG2036-ORB	36"		46 1/4"	82 1/4"	40.92"			45
HYDRA			NORA		HORA	LAVORA			HYDRA	
		HTG2504-ORB	4"	APE	14 1/4"	18 1/4"	9"	APEX		17
		HTG2506-ORB	6"		16 1/4"	22 1/4"	11"			18
		HTG2508-ORB	8"		18 1/4"	26 1/4"	13"			20
	HT	G2508-ASAE-ORB	8"		20 1/4"	28 1/4"	13"			21
HADEW		HTG2510-ORB	10"		20 1/4"	30 1/4"	15"		HYDRAG	22
ш		HTG2512-ORB	12"	APE	22 1/4"	34 1/4"	17"	(alqı		23
		HTG2514-ORB	14"		24 1/4"	38 1/4"	19"	Available)		25
F_ 6	7	HTG2516-ORB	16"	1 1/4"	26 1/4"	42 1/4"	21"	NPT /	1"	27
2 5		HTG2518-ORB	18"	1 1/4	28 1/4"	46 1/4"	23"	(1/2"	AULI	29
		HTG2520-ORB	20"	DE)	30 1/4"	50 1/4"	25"	8#	HADK	31
		HTG2524-ORB	24"	APE	34 1/4"	58 1/4"	29"	SAE		35
	8	HTG2528-ORB	28"		38 1/4"	66 1/4"	33"			37
		HTG2530-ORB	30"		40 1/4"	70 1/4"	35"			41
- RAI	2770	HTG2532-ORB	32"		42 1/4"	74 1/4"	37"		NDRAULI	43
HAD.		HTG2534-ORB	34"	APE	44 1/4"	78 1/4"	39"	RPEX	HYV	45
		HTG2536-ORB	36"	K. 1	46 1/4"	82 1/4"	41"	, , , , , , , , , , , , , , , , , , ,		47

HTG 3000 PSI WP



	HADK		HADE	HADK.		HADK			HADE
Pb	DART No.	CTROVE	DOD DIAMETED	DIMENS	IONS	G	RT	DIN (D D)	WEIGHT
	PART No.	STROKE	ROD DIAMETER	RETRACTED	EXTRACTED	u	PORT	PIN (B,D)	(LBS)
	HTG3004-ORB	4"		14 1/4"	18 1/4"	8.895"			18
	HTG3006-ORB	6"	HYDRAULIC	16 1/4"	22 1/4"	10.895"	rc		20
	HTG3008-ORB	8"	EXHNOK	18 1/4"	26 1/4"	12.895"			22
	HTG3008-ASAE-ORB	8"		20 1/4"	28 1/4"	12.895"			23
	HTG3010-ORB	10"		20 1/4"	30 1/4"	14.895"			26
	HTG3012-ORB	12"		22 1/4"	34 1/4"	16.895"	ole)		28
MP SK	HTG3014-ORB	14"	ORAULIC	24 1/4"	38 1/4"	18.895"	Available)		31
8 <u>S</u>	HTG3016-ORB	16"	EX HIM	26 1/4"	42 1/4"	20.895"	NPT A	411	33
G 3"	HTG3018-ORB	18"	1 3/8"	28 1/4"	46 1/4"	22.895"	(1/2"	1"	35
三元	HTG3020-ORB	20"		30 1/4"	50 1/4"	24.895"	8#		39
	HTG3024-ORB	24"		34 1/4"	58 1/4"	28.895"	SAE		43
	HTG3028-ORB	28"	LYDRAULIC	38 1/4"	66 1/4"	32.895"			46
N.P.	HTG3030-ORB	30"		40 1/4"	70 1/4"	34.895"		N	49
	HTG3032-ORB	32"		42 1/4"	74 1/4"	36.895"			50
	HTG3034-ORB	34"		44 1/4"	78 1/4"	38.895"			53
	HTG3036-ORB	36"	ILIC	46 1/4"	82 1/4"	40.895"	C/C		54
	HTG3504-ORB	4"	LXH10RX	14 1/4"	18 1/4"	8.92"			25
P _S	HTG3506-ORB	6"		16 1/4"	22 1/4"	10.92"		N	27
	HTG3508-ORB	8"		18 1/4"	26 1/4"	12.92"			28
	HTG3508-ASAE-ORB	8"		20 1/4"	28 1/4"	12.92"			29
	HTG3510-ORB	10"	ORAULIC	20 1/4"	30 1/4"	14.92"	r)C		31
N.P.	HTG3512-ORB	12"	EXHIV.	22 1/4"	34 1/4"	16.92"	(a)		33
జ ~	HTG3514-ORB	14"		24 1/4"	38 1/4"	18.92"	Available)	19	35
8 3	HTG3516-ORB	16"		26 1/4"	42 1/4"	20.92"	NPT Av		36
3.5" 0PS	HTG3518-ORB	18"	1 1/2"	28 1/4"	46 1/4"	22.92"	(1/2" N	1"	38
5 8	HTG3520-ORB	20"	HYDRAULIC	30 1/4"	50 1/4"	24.92"	#8		43
王。	HTG3524-ORB	24"		34 1/4"	58 1/4"	28.92"	SAE #	A	48
	HTG3528-ORB	28"		38 1/4"	66 1/4"	32.92"			52
	HTG3530-ORB	30"		40 1/4"	70 1/4"	34.92"			54
	HTG3532-ORB	32"	INDRAULIC	42 1/4"	74 1/4"	36.92"	ric		56
	HTG3534-0RB	34"	XHYDRK	44 1/4"	78 1/4"	38.92"			58
V _b	HTG3536-ORB	36"		46 1/4"	82 1/4"	40.92"		P	60



HITG 3000 PSI WP

		N		P		N. C.		1/2 /		
1		PART No.	STROKE	ROD DIAMETER	DIME	NSIONS	G	PORT	PIN (B,D)	WEIGHT
			(ILEXIDACE)		RETRACTED	EXTRACTED	1,581	2.	2 SSSHOWN SAME	(LBS)
in the second se		HTG4004-ORB	4"	C	14 1/4"	18 1/4"	8.95"			35
MA		HTG4006-ORB	6"		16 1/4"	22 1/4"	10.95"		EXHYDRAG	37
		HTG4008-ORB	8"	P	18 1/4"	26 1/4"	12.95"	AP		38
		HTG4008-ASAE-ORB	8"		20 1/4"	28 1/4"	12,95"			40
		HTG4010-ORB	10"		20 1/4"	30 1/4"	14.95"			43
		HTG4012-ORB	12"	C	22 1/4"	34 1/4"	16.95"	ole)		45
쀭	M	HTG4014-ORB	14"		24 1/4"	38 1/4"	18.95"	Availabl	EXHYDRA	48
BORE		HTG4016-ORB	16"	4 0/40	26 1/4"	42 1/4"	20.95"	NPTA	411	54
G 4"	8	HTG4018-ORB	18"	1 3/4"	28 1/4"	46 1/4"	22.95"	(1/2"		56
E		HTG4020-ORB	20"		30 1/4"	50 1/4"	24.95"	8#		58
		HTG4024-ORB	24"		34 1/4"	58 1/4"	28.95"	SAE	BAL	60
XHY		HTG4028-ORB	28"		38 1/4"	66 1/4"	32.95"	N.P.	EXHAD,	63
		HTG4030-ORB	30"		40 1/4"	70 1/4"	34.95"		1.6	65
		HTG4032-ORB	32"		42 1/4"	74 1/4"	36.95"			68
		HTG4034-ORB	34"		44 1/4"	78 1/4"	38.95"			72
		HTG4036-ORB	36"		46 1/4"	82 1/4"	40.95"		JORAL	74
			477		H		L	-		

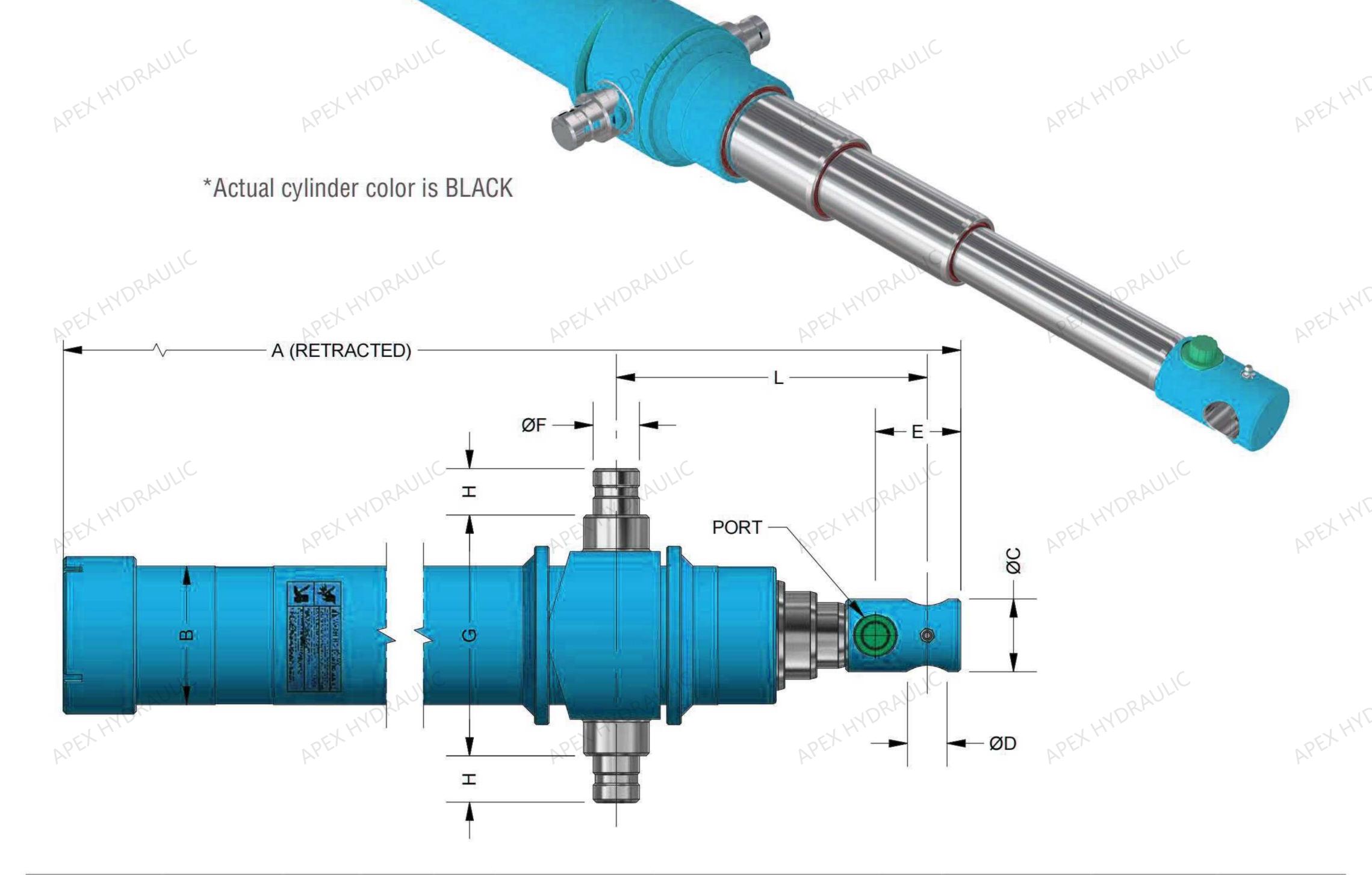


apex Hydraulic **Apex Hydraulic Co.,Ltd** All numbers given are nominal values and should be used for reference only.



3000 PSI WP

TELESCOPIC CYLINDER FOR 7 TONS AND 12 TONS INVERSE.



	ric		AULI			7 TO	NS INVE	RSE	105 - 2	PAULIC	790	AULIC	
PART No.	STROKE	A	B	C	DIN	E	F	G	REHIVE	L	PORT	WEIGHT [Lbs]	VOLUME [Gal.]
HTC-06033-0RB	60"	35.5"	3.75"	2"	1.063"	3.0"	1.25"	6.5"	1.25"	7"		68	1,5
HTC-07833-0RB	78"	35.5"	3.75"	2"	1.063"	3.0"	1.25"	6.5"	1.25"	7"	SAE #8	68	1.9
HTC-09033-0RB	90"	39.5"	3.75"	2"	1.063"	3.0"	1.25"	6.5"	1.25"	3 "/C	(3/4-16UNF)	75	2.3
HTC-10833-0RB	108"	45"	3.75"	2"	1.063"	3.0"	1.25"	6.5"	1.25"	7 "	DEX	101	2.6
					XP	12 TO	NS INV	ERSE	Z				A. A
HTC-07843-0RB	78"	34.75"	4.4"	2"	1.063"	3.0"	1.5"	7.5"	1.5"	7"		106	3.2
HTC-09043-0RB	90"	38.75"	4.4"	2"	1.063"	3.0"	1.5"	7.5"	1.5"	7 ^a		107	3.6
HTC-10843-0RB	108"	44.75"	4.4"	2"	1.063"	3.0"	1.5"	7.5"	1.5"	7".\	SAE #8 (3/4-16UNF)	132	4.3
HTC-12043-0RB	120"	48.75"	4.4"	2"	1.063"	3.0"	1.5"	7.5"	1.5"	7 ⁿ		143	4.8
HTC-14443-0RB	144"	56.78"	4.4"	2"	1.063"	2.25"	1.5"	7.5"	1.5"	7"	APEX	166	5.8

^{*} All pictures may differ from the final products. Product specifications are subject to changes without notice.

HTC 3000 PSI WP



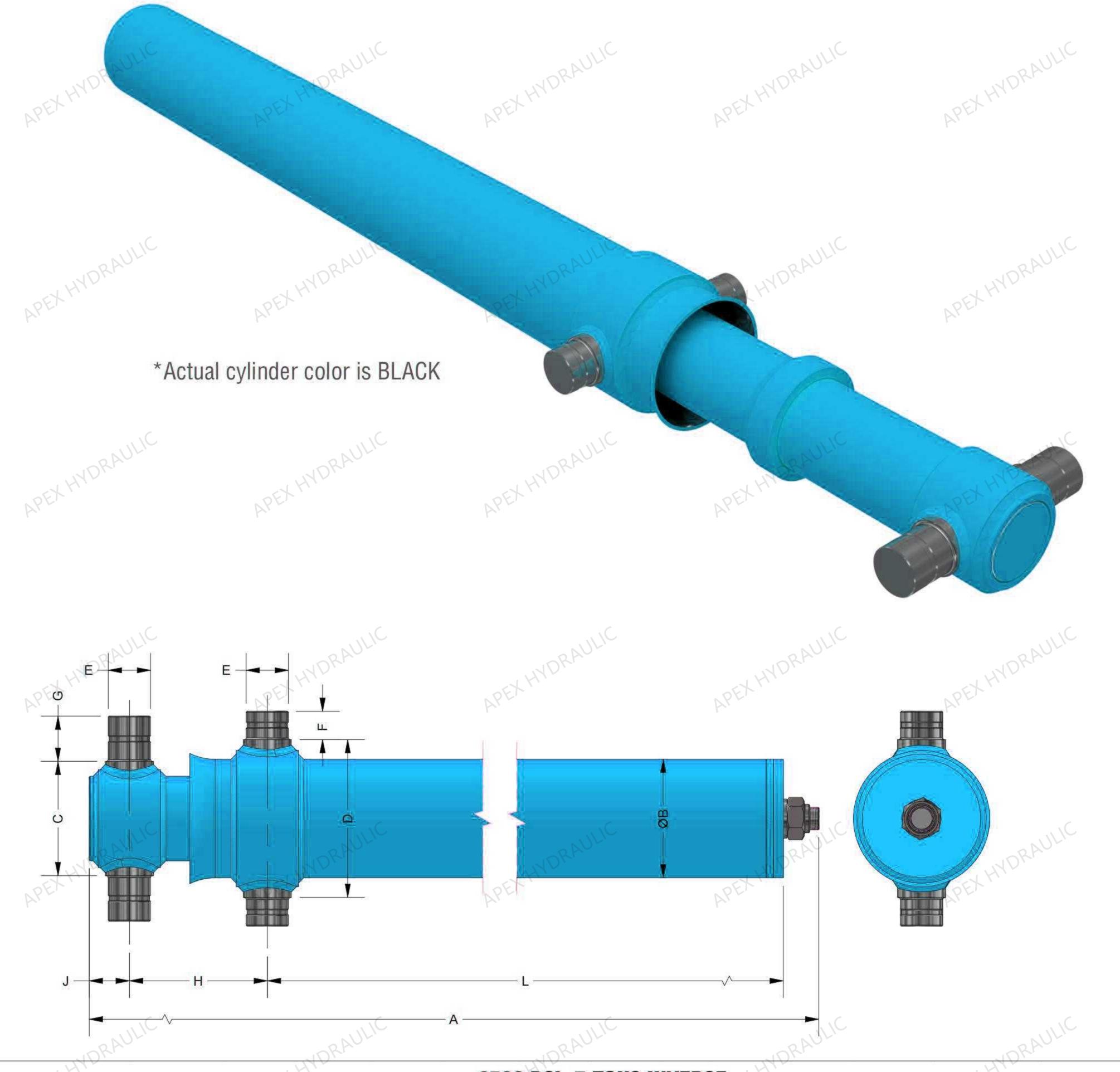
ULIC						BAU	ric					BAL	ILIC					RAU	ric						AUI	10						RAU	ric	
		IBER	-60-75	-75-92	10-3					APE	XHY					APE	XHY					K	QTV	-	9	2	2	-	P	PEX	2	-	-	-
ULIC	KIT NUMBER	SEAL KIT NUMBI	HER SK-TEL-45-	HER SK-TEL-60	HER SK-HTC1	ORAU	LIC			11 12	THY THY	OPC	JLIC STILL)	18	N. P.E.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	PAU					PTION	Wiper	Snap Ring	r Band	Grease Fitting 1/8-27 NPT	Tube #2 Rod Seal	Tube #2 Wear Band	Wiper	r Band	Sing 2	Plug (SAE)	Ring (SAE)
	SEAL	art No.	33-0RB	-XXX43-0RB	35-0RB			o	, 10		2			16									DESCRIP	Tube #3	Tube #1	#2 Wear Band	Grease	Tube #2	Tube #2	Tube #2 Wiper	#1 Wear Band	Rod 0-Ring	Plastic Plug	Plug 0-Ring
ULIC		Par	HTC-XXX33	HTC-XXX	HTC-XXX		ric					5	ILIC C	ر –				24	1				ITEM	82	19	20	21	22	23	24	25	26	27	28
<u></u>				APE	HY					Jok Control of the Co							22	23	_			AP	EXY	MOH					A	PEX	HAD	Kr		
ULIC				APE	XHY	DRAU			6	APE						APE	6			27	28	21	0	9			27			PEX	HYD	RAU		
ULIC		S /	®	NPE C								ORAL				APE	XHY	PAU				A.S.	P EXT	26	AUI	<u> </u>				PEX	HYD	RAU		
ULIC		•		APE.		47		13		12					4							AP	EXX	NOP	RAUI	<u> </u>				PEX	HYD	RAU		
ULIC						- RAV		<		9		20/2	JLIC				740			-	1	-	-		- NU	\C	1	1	1	9	4	2	10	-
				APE	XHY				19	19 APE	2	3				APE	necepiption		Tube #3	Tube #2	Tube #1	End Cap	Rod End	Drain Plug	End Cap 0-Ring	Barrel Snap Ring	Barrel Rod Seal	irrel Wear Band	Barrel Wiper	be #2 Snap Ring	Tube #3 Snap Ring	#3 Wear Band	Tube #3Rod Seal	be #3 Wear Band
ULIC				APE	XHY	DRAU	L'			APE	XHIN	200	7. C.	72		APE	ITEM				4 Tu		6 Rc	7 % Dr		Ba 6	10 Ba			13 Tu	11/	15 #3	ヿ	17 Tu

^{*} All pictures may differ from the final products. Product specifications are subject to changes without notice.



HTC 3000 PSI WP

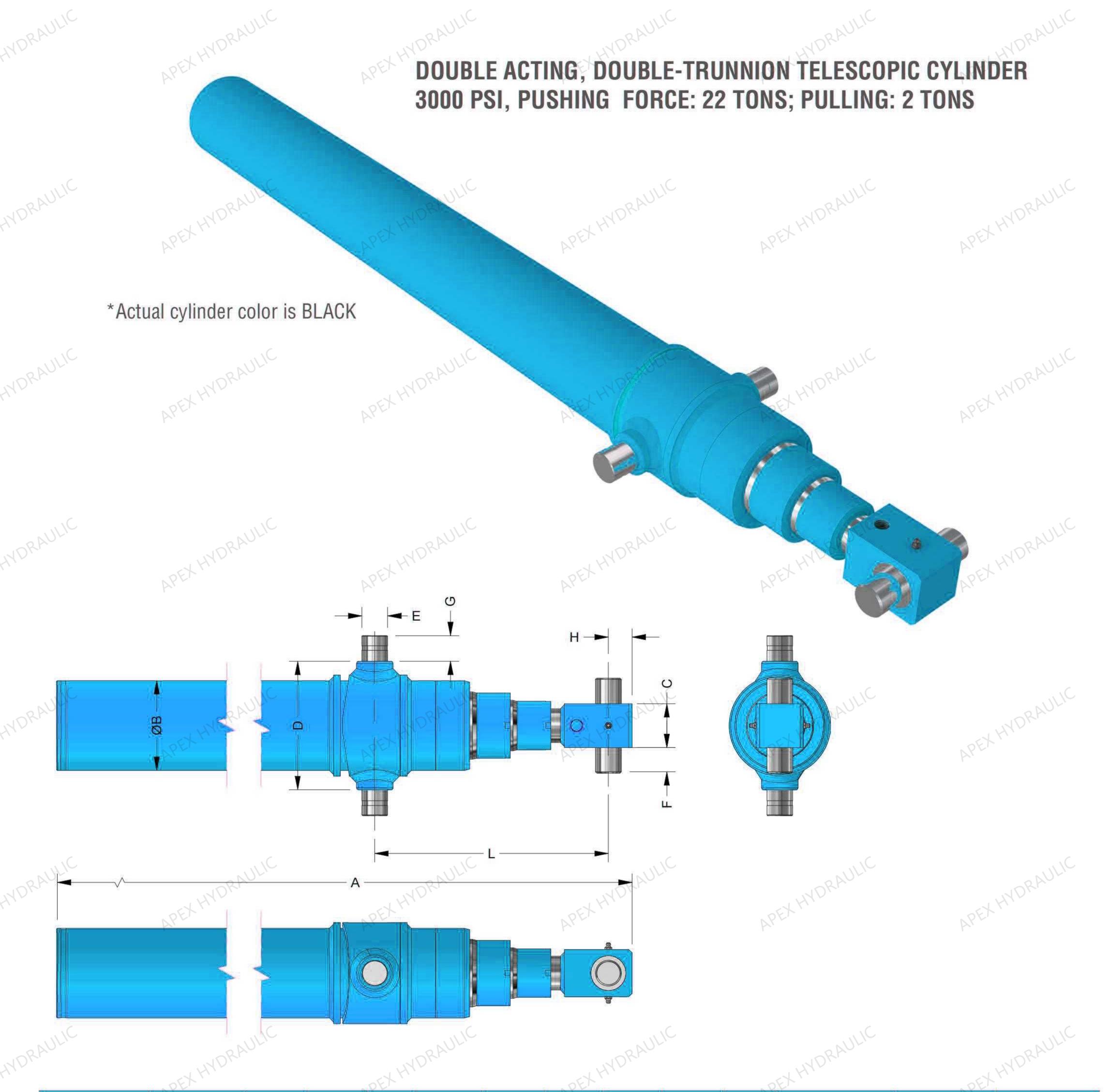




APEX		APEX			250	0 PSI, 7	TONS IN	IVER	SE		À	APEX		APE
PART No.	STROKE	A	В	C	D	E	F	G	H	J	H L	PORT	WEIGHT (LBS)	VOLUME (GAL.)
HTC-09035-ORB	90"	40.38"	5.236"	4.803"	6.748"	1.874"	1.252"	2"	5.512"	1,772	31.476"		138	2.1
HTC-10835-ORB	108"	46.38"	5.236"	4.803"	6.748"	1.874"	1.252"	2"	5.512"	1,772	37.476"	SAE #12 (1 1/16-UN)	157	2.5
HTC-12035-ORB	120"	50.38"	5.236"	4.803"	6.748"	1.874"	1.252"	2"	5.512"	1,772	41.476"	REXPA	170	2.8

HTC 3000 PSI WP



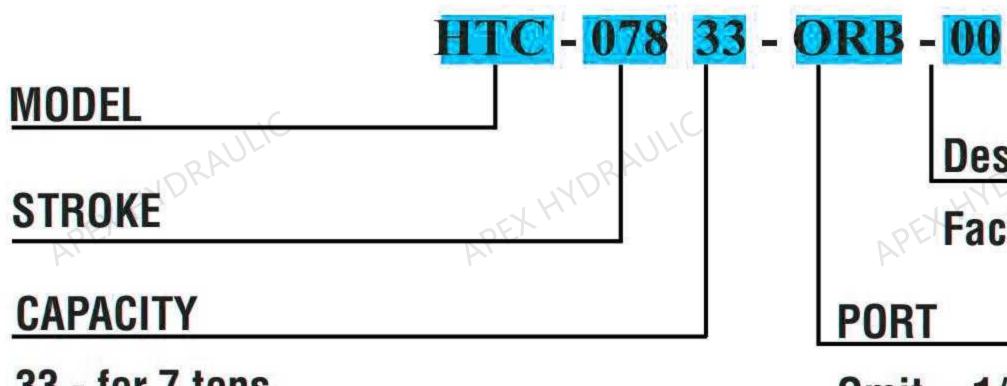


	PART No.	STROKE	A	8	C	D	E		G	H	L	PORT	WEIGHT [Lbs]	VOLUME [Gal.]
R	HTC-12055-ORB	120 "	58.346"	5.236"	2.560"	7.52"C	1.5"	1.496"	1.496"	1.378"	13.583"	SAE#8 (3/4-16UNF)	228.3	5.29



3000 PSI WP

ORDER INFORMATION



33 - for 7 tons 43 - for 12 tons Design code

Factory Specification

PORT

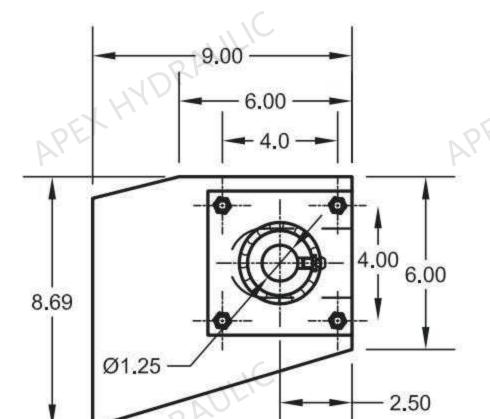
Omit - 1/2 NPT ORB - SAE#8-3/4-16UNF

ACCESSORIES FOR TELESCOPIC CYLINDERS



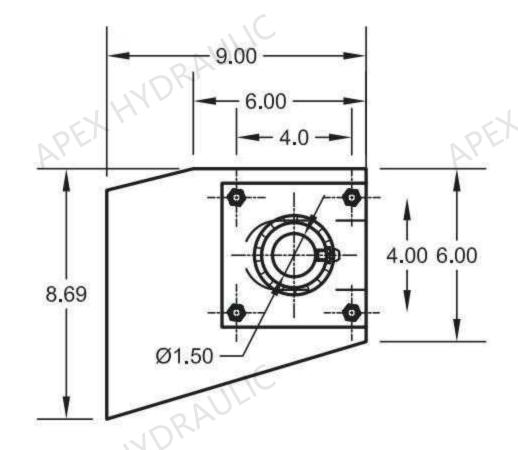
MOUNTING BRACKETS

HTCS07-A for 7 tons

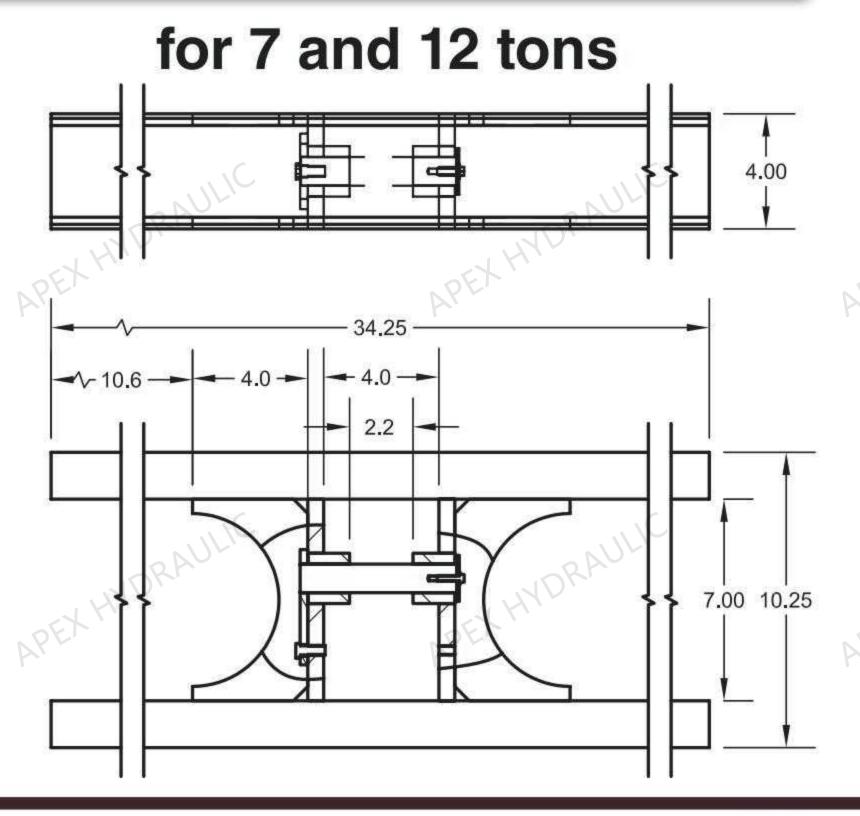




HTCS12-A for 12 tons



SUPPORT FRAME



HTC SB07-A





Part No.	BORE	A	В	STROKE	ROD DIAMETER	RETRACTED	EXTRACTED	PORT	WEIGHT (LBS)
HHT501575	5.00	3.5	Ø0.69	15.75"	Ø2"	23.5"	39.25"	SAE#6	66.1
HHT502000	5.00	3.15	Ø0.63	20"	Ø2"	27.5"	47.5"	SAE#6	81.4
HHT502150	5.00	3.5	Ø0.63	21.50"	Ø2"	29.375"	50.875"	SAE#6	86.8
HHT601575	6.00	3.5	Ø0.69	15.75"	Ø2"	23.5"	39.25"	SAE#6	88.0
HHT602150	6.00	3.5	Ø0.63	21.50"	Ø2"	29.375"	50.875"	SAE#6	101.2





SEAL KIT NUMBER						
Part No.	SEAL KIT NUMBER					
HHT50-	HER SK-SPE502000H					
HHT60-	HER-SK-SPE602000H					

D.

0



HSH - SCISSOR HOIST

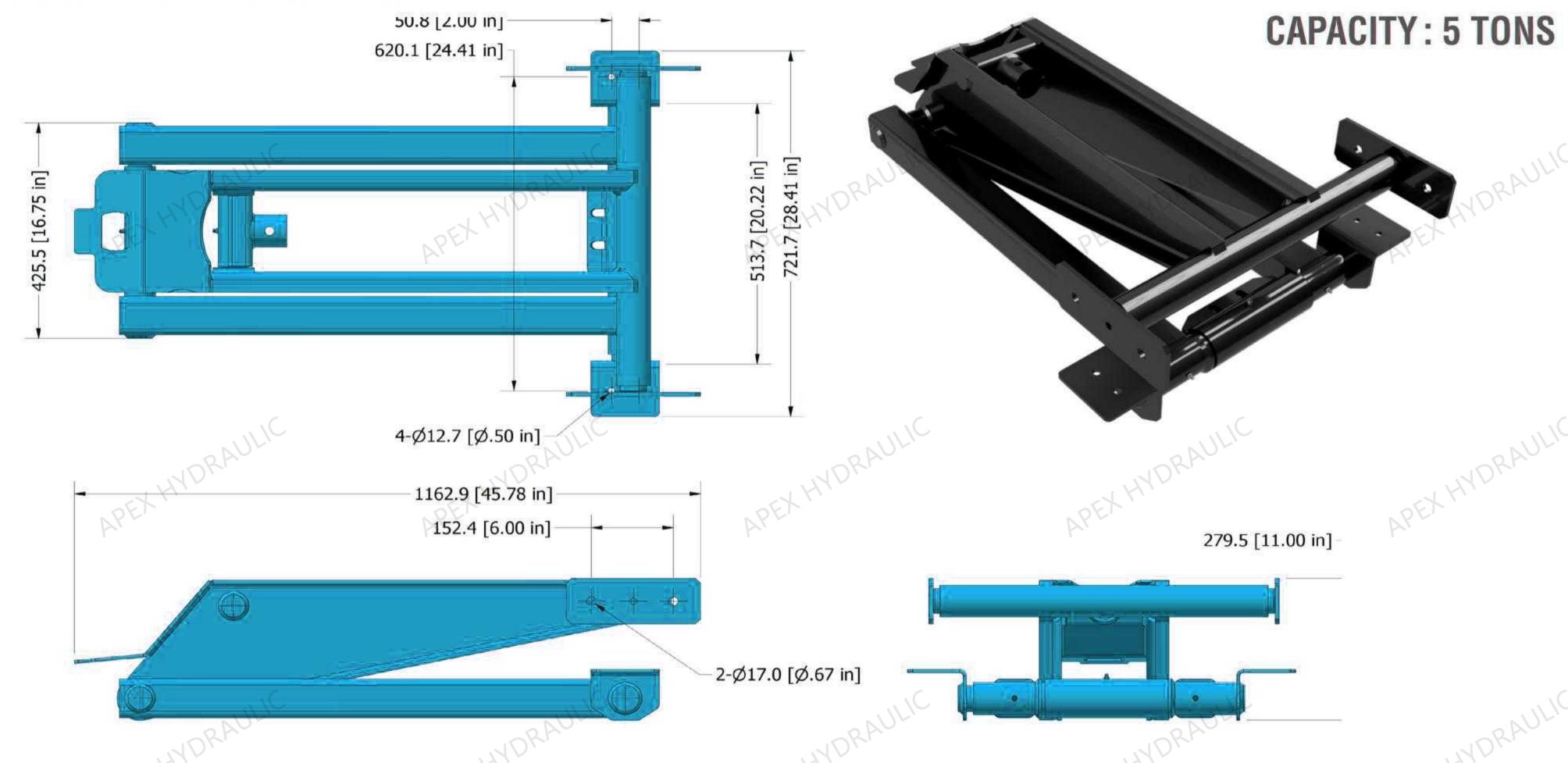


EXTREMELY RELIABLE AN DURABLE SCISSOR HOISTS

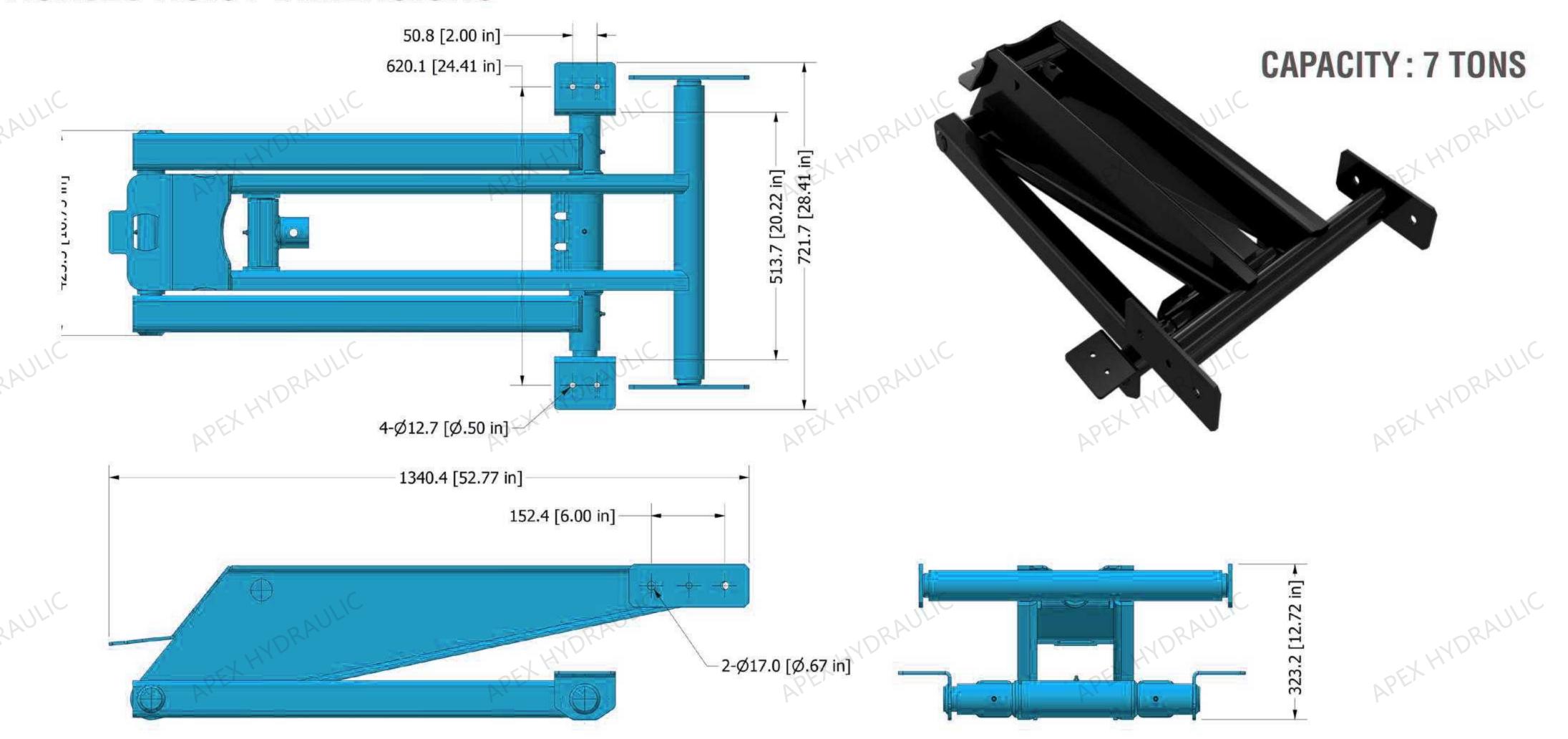
AVANTAGE:

- Mounting brackets included in hosit assembly;
- Easy installation (blolt supports and plates to chassis and tilt frame);
- vby selecting different stroke cyliner or (and) mounting positon to have different damp angle;

HSH516 HOIST DIMENSIONS



HSH520 HOIST DIMENSIONS

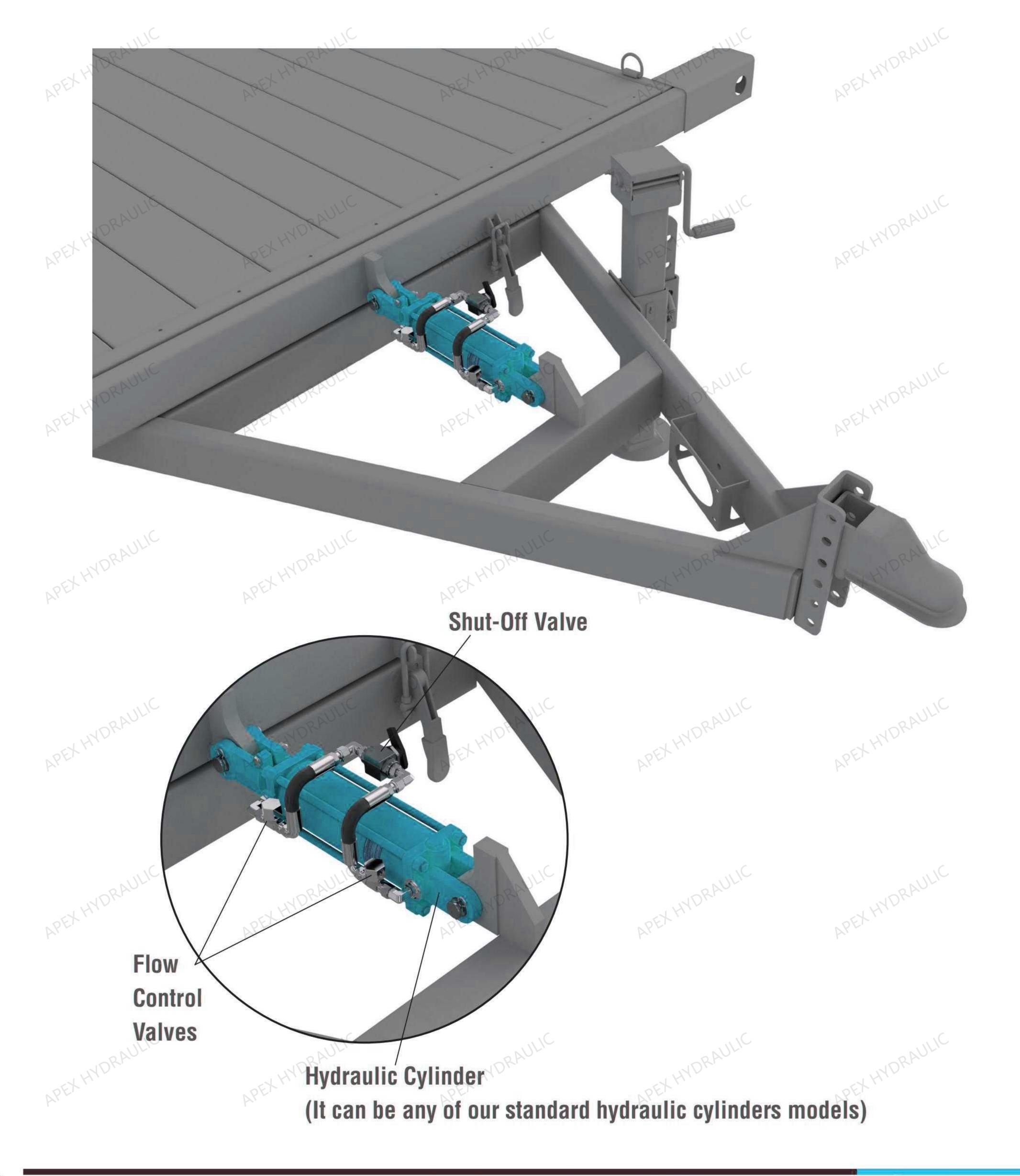


Notes: The variations in application, the capacitys are based on the mounting positon and the loading distriution on the chassis; the capcity is provided as a general guide.



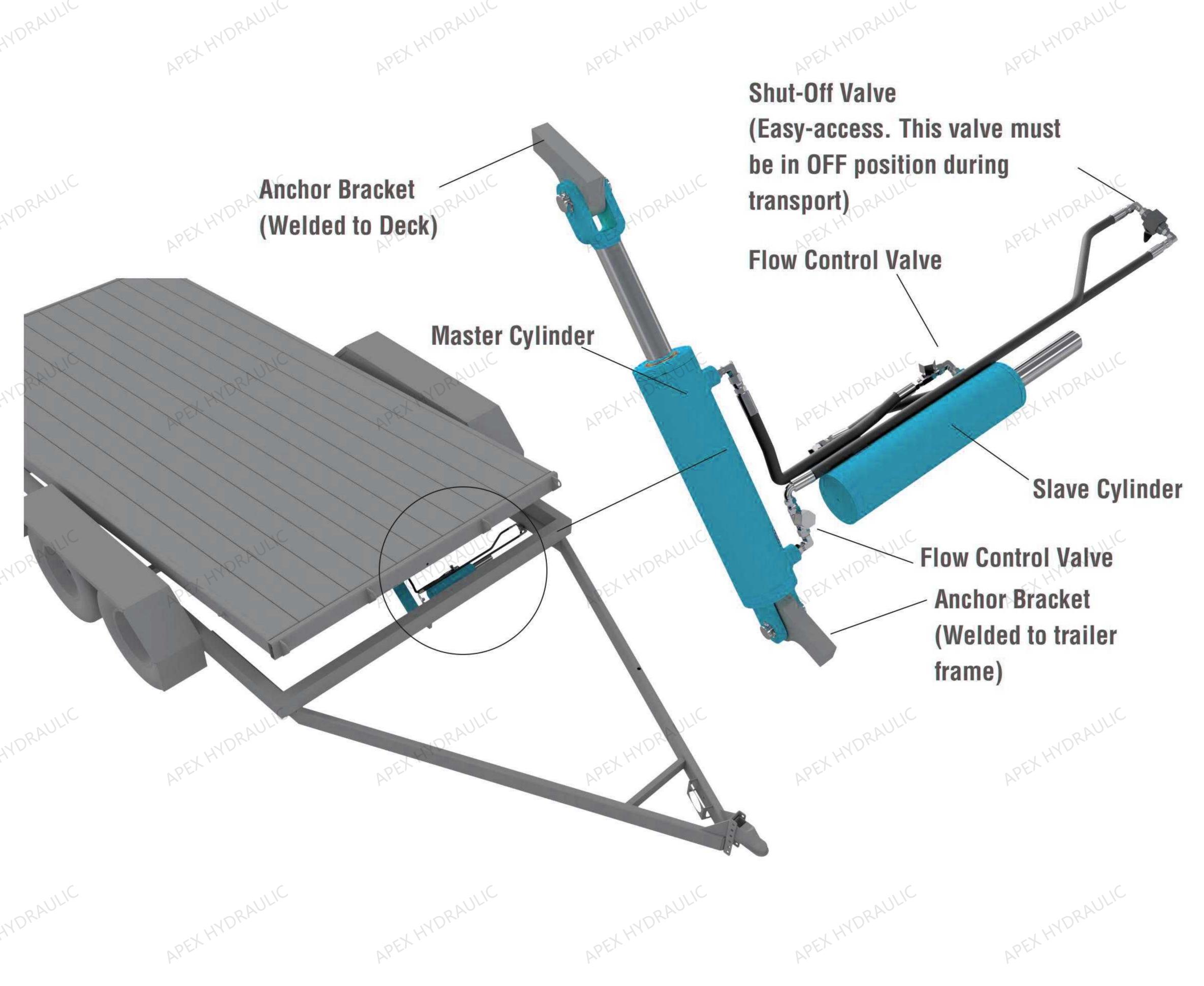
TTP 3000 PSI

TTP-TILTTRAILER PACKAGE





TILT DECK TRAILER OPTION



* WE OFFER TTP OPTIONS FOR ALL OUR PRODUCT LINE IN PARTNERSHIP WITH CUSTOMER.



CUSTOM ENGINEERED HYDRAULIC CYLINDERS

OEM APPLICATIONS

Contact us for all your special cylinder requirements:

- Bore size between 1" to 10"
- Stroke lengths 1" to 150"

INDUSTRY BEST STANDARDS

- IATF16949 certified
- Digital pulse arc automated welding
- CNC machining
- Sourced in North America seals
- High quality chrome / nitride
- Powder coated paint
- Cylinders are 100% pressure tested

NITRIDED HYDRAULIC CYLINDER RODS



Liquid Nitriding is a surface treatment process that produces a very hard black finish that provides improved surface properties (e.g. resistance to wear, friction, corrosion, cost-effective, and environmentally friendly). The process begins with the cleaning and super-polishing of the material to a surface roughness of 16 Ra or better. The steel bars or components are then fixed vertically, and submerged into an electrically controlled liquid tank. Nitrogen is diffused into the surface of the components. The steel surface is then transformed into iron-nitride in a depth of 0.001 inch which improves material properties.



FORGED HYDRAULIC CYLINDER COMPONENTS

Forgings are superior over castings and fabrications as the structural integrity can withstand the higher forces that exist in a rigorous or high duty cycle application.

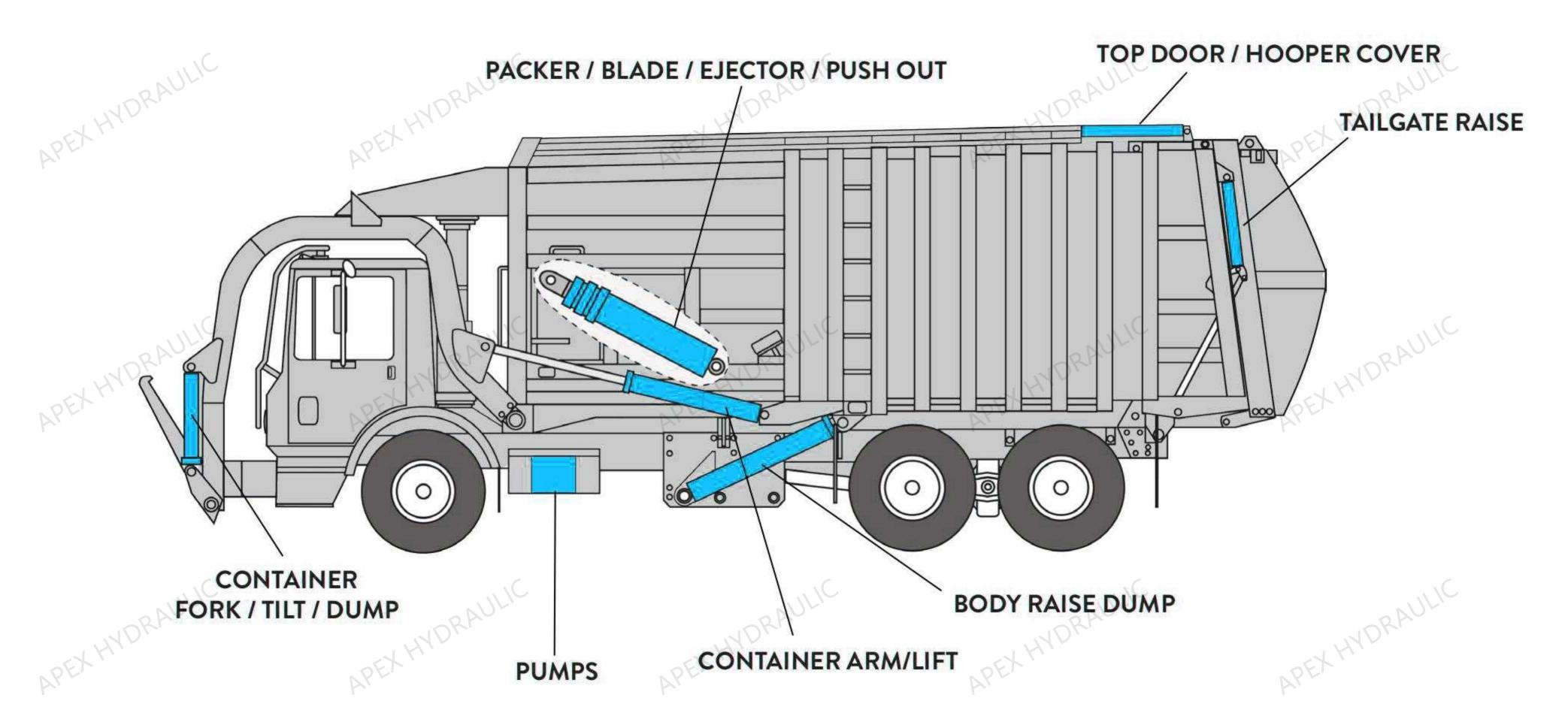
TOP QUALITY SEALS SOURCED IN NORTH AMERICA

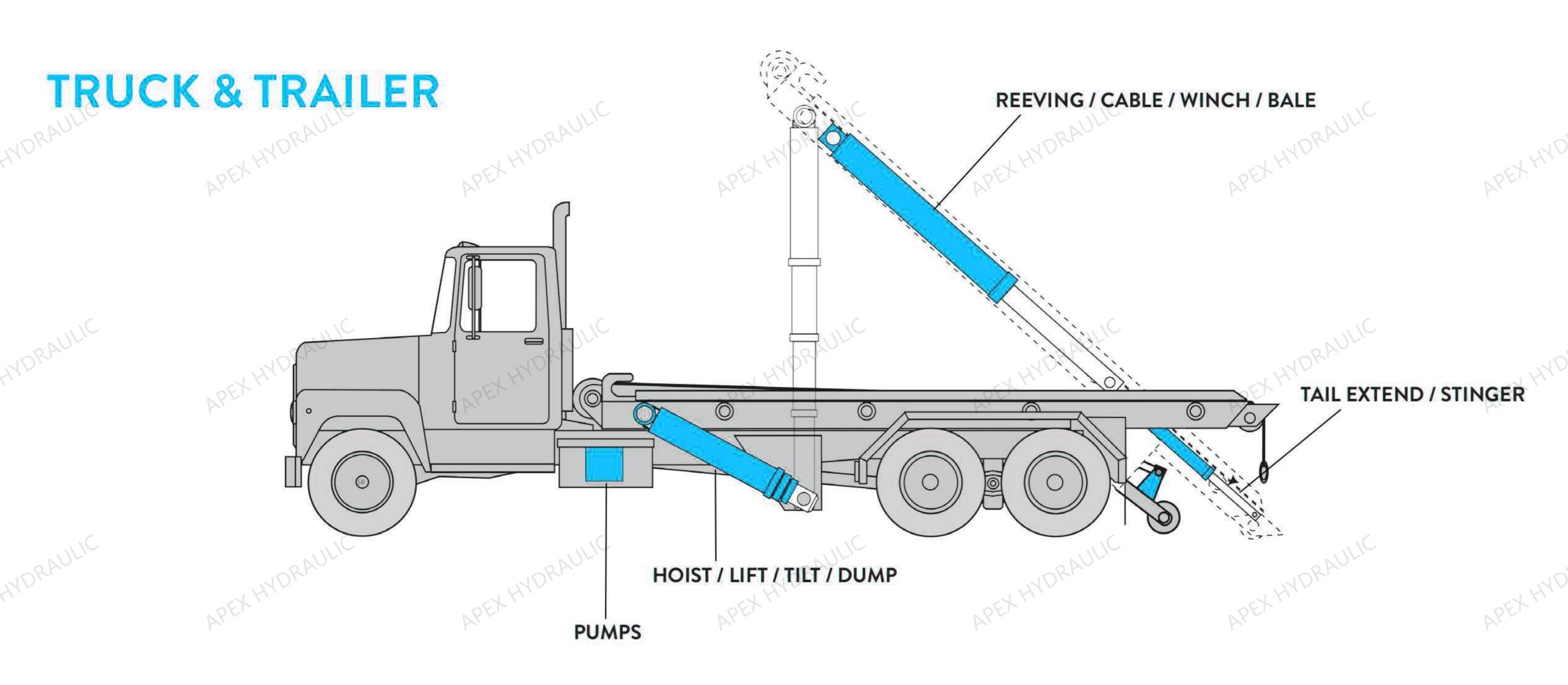




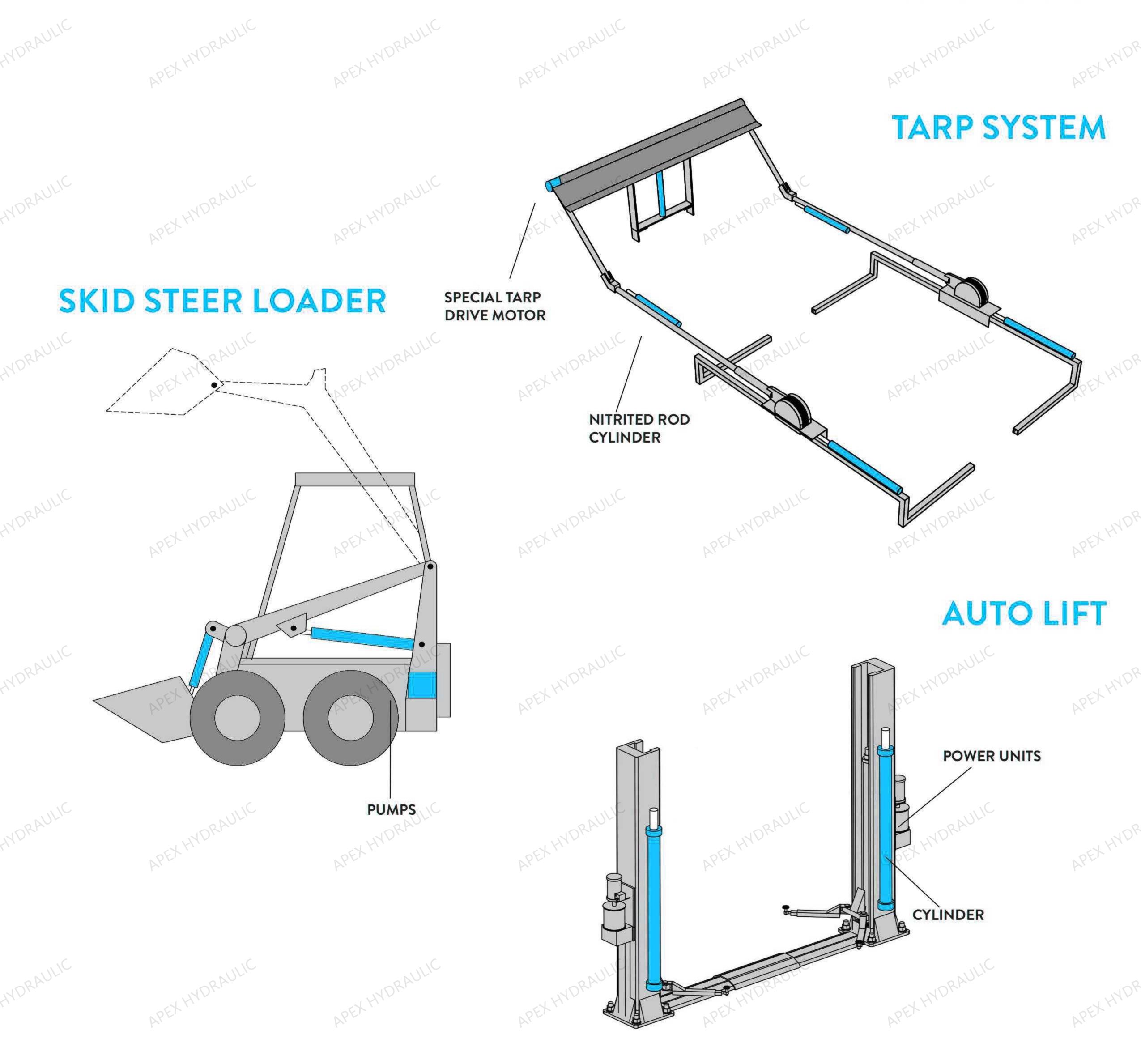
APPLICATIONS

WASTE & REFUSE









OTHER APPLICATIONS

FORESTRY - AGRICULTURE - AERIAL TRUCK - SNOW EQUIPMENT MATERIAL HANDLING - CONSTRUCTION



ADDITIONAL INFORMATION

CYLINDERS MAINTENANCE

- Installation and maintenance should be performed by qualified personnel.
- Ensure that the bearing surfaces are properly lubricated (e.g. joint bearing, swivel bearing) before being operated.
- Check leak-tightness and functional safety at frequent intervals.
- ► Maximum permissible level of contamination by particles in accordance with ISO 4406.

CYLINDERS STORAGE

- ► Always store indoors fully retracted in a clean dry area.
- ► Chromeplated rod protruding from the cylinder must be protected against potential corrosive damage. Treat the entire surface with a rust inhibitor such as grease.
- ► Smear the internal surfaces of eye/clevis bushes or bearings with grease to avoid corrosion.
- ► We recommend that single-acting cylinders be protected against corrosion by directly adding a rust inhibitor oil to the unpressurized chamber.
- ► Hydraulic cylinders may be stored full of oil however a relief valve shall be installed on the cylinder port to allow for fluid expansion caused by variations in ambient temperature.
- ► Under these conditions, cylinders can be stored up to 12 months provided that they have not yet been extended and retracted.
- After 12 months, cylinders must be inspected and commercially available preservative agents reapplied.



CHROME ROD PROTECTION EXPLAINED

Chrome-plated rod and bar products normally contain from 0.0005" maximum to 0.001" minimum hard chrome plate depending upon product specifications. This hard chrome coating is applied primarily for wear resistance though it does provide considerable corrosion resistance as well. Hard chrome plate deposits with a "micro-cracked" structure. Although hard chrome plate cannot corrode, the metal substrate it adheres to can if moisture and oxygen penetrate the chrome layer. The result is a blistering and flaking of the chrome plate deposit from the metal substrate. Once the rod is assembled into a cylinder and put into service, the fluid film on the surface of the rod provides additional corrosion resistance which is normally sufficient to protect it during its entire life. However, there are occasions when the rod is not being cycled and the surface is exposed to the elements which will allow corrosion to take place. For example, brand new equipment may be stored outside for a considerable period of time at a manufacturer's plant, or an equipment dealer may hold inventory on its lot. In these instances, it is best to provide some additional corrosion protection. An inexpensive application of a rust inhibitor can be applied to prevent corrosion and thereby preserve the quality of the hard chrome coating and the life of the cylinder.

PROTECTION OF NEW EQUIPMENT

The steps summarized below should be followed when protecting chrome plated rods on new equipment:

- 1. Position the equipment as it will be stored, and identify all the exposed portions of the chrome plated rods.
- 2. Clean dirt and dust from the exposed portions of the rods using a dry cloth or a cloth which has been dampened with an appropriate solvent.
- 3. Prepare a mixture of 60% oil-based rust inhibitor and 40% Kerosene. Apply a thin coating of this mixture to the exposed surfaces of the chrome plated shafting. No.1 fuel oil may be substituted for Kerosene. A cloth dipped in the mixture can be used to apply the coating.
- 4. Inspect the shaft surfaces after six months and apply additional corrosion inhibitor mixture.
- 5. If the equipment is to be moved and then stored again for an extended period of time, the steps above should be repeated for all rods that were stroked during the move.

PROTECTION OF OLDER EQUIPMENT

Occasionally it may be necessary to store equipment that has seen some service. The procedure described above can be used for older equipment, but more careful cleaning of the chrome surfaces would be necessary. Also, there may be damage on some of the chrome surfaces which will require additional protection. Under no circumstances should sandpaper or other abrasives be used to clean the surfaces. Plastic or copper wool in combination with an appropriate solvent will remove most of the dirt. After the surface is clean, it should be inspected for damage to the chrome plate. If damage is detected, more frequent application of the corrosion preventative will be necessary to prevent corrosion during storage.



COMPONENTS

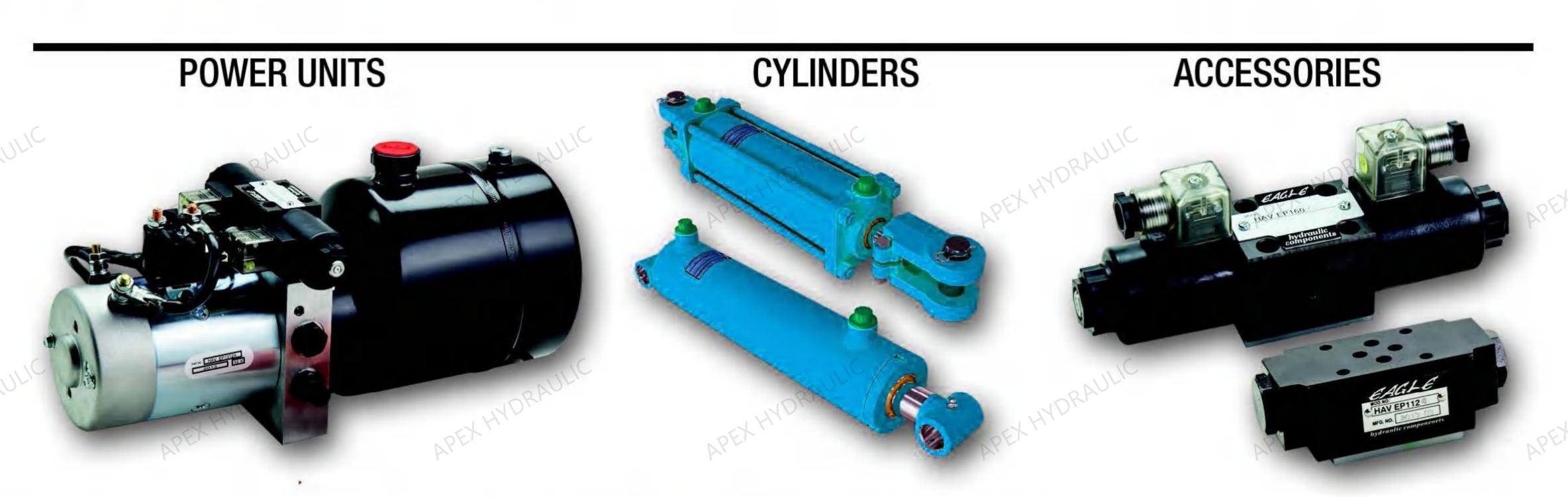


The state of the s	H,	EXH,	EXH	X
	► 318060 - 3/8" NPT. ►		(E #4). (E #6).	APEX
PAULIC CISCO IMPORTANT ARE	 VELOCITY FUSE IN ▶ 100040 - 3 GPM. ▶ 100048 - 5GPM ▶ 100050 - 7 GPM. ▶ 100070 - Adjustable. 	ISERT FOR 9	116-18 (SAE #	#6)
Service of the servic	FLOW LIMITER INI ► 100041 - 3 GPM (SAE #6 JIC -6 ► 100045 - 3 GPM (SAE #8 JIC -6	6). HYDRA	APEXHYDRAULIC	APEX
RAULIC	ORAULIC ORAULIC	ORAULIC	DRAULIC	
APE)	► 100046 - 3 GPM (SAE #6 JIC - 100049 - 5 GP	6).	APEX	APEX
DRAULL APE	HYDRAULIC	APEXHYDRAULIC	APEXHYDRAULIC	APEXY



HYDRAULIC

PRODUCT SAFETY











- Always wear eye protection and protective clothing when working on and around hydraulic systems.
- Never exhaust hydraulic fluid under pressure to atmosphere.
- ► Hydraulic fluid can reach high temperatures under normal operating conditions and can burn exposed skin.
- ► Fluid pressure can penetrate skin and cause death or serious injury, Wear proper protective clothing when working on hydraulics.
- ► Hydraulic devices should be properly "Locked-Out" or "Tagged-Out" before being worked on, including the release of any stored energy or pressure. Ensure a mechanical locking device is in place to prevent injury or death.
- ► APEX Hydraulic Components is not responsible for misuse or misapplication of product.
- ▶ Do not use any heat-producing equipment such as oxyacetylene/gas torches and angle grinders on sealed hydraulic cylinders.
- ► Remove hydraulic oil from the cylinder before heating the cylinder.
- ► Never operate a cylinder(or power unit) above recommended pressures.
- Always use properly rated hoses and fittings.
- Do not weld, add welded items, drill holes or otherwise modify the cylinder from its original design.
- ► The hydraulic power unit may heat up during operation. The solenoids in the hydraulic power unit become so hot during operation that you may sustain burns. You should wear heat-proof gloves or protective clothing.