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**HY-SPEC**  
HYDRAULIK



*Cylinders Hydraulic Products*  
**2009 ISSUE**



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**Hy-Spec Hydraulic** Français

HY-SPEC HYDRAULIK specializes in the import and export of a wide range of high quality hydraulic components such as: utility cylinders, agricultural and telescopic; directional control valves; gas engines; gauges and much more.

The HY-SPEC brand name stands for high quality hydraulic components. These products, sourced from around the world, are manufactured to our High Specifications, which are established by our in house engineering department.

The HY-SPEC team members have been chosen for their experience and are trained to give courteous and efficient service, which you can depend on. Their experience totals over 100 years in the hydraulic industry. They work closely with our customers to provide the best solution for the application.

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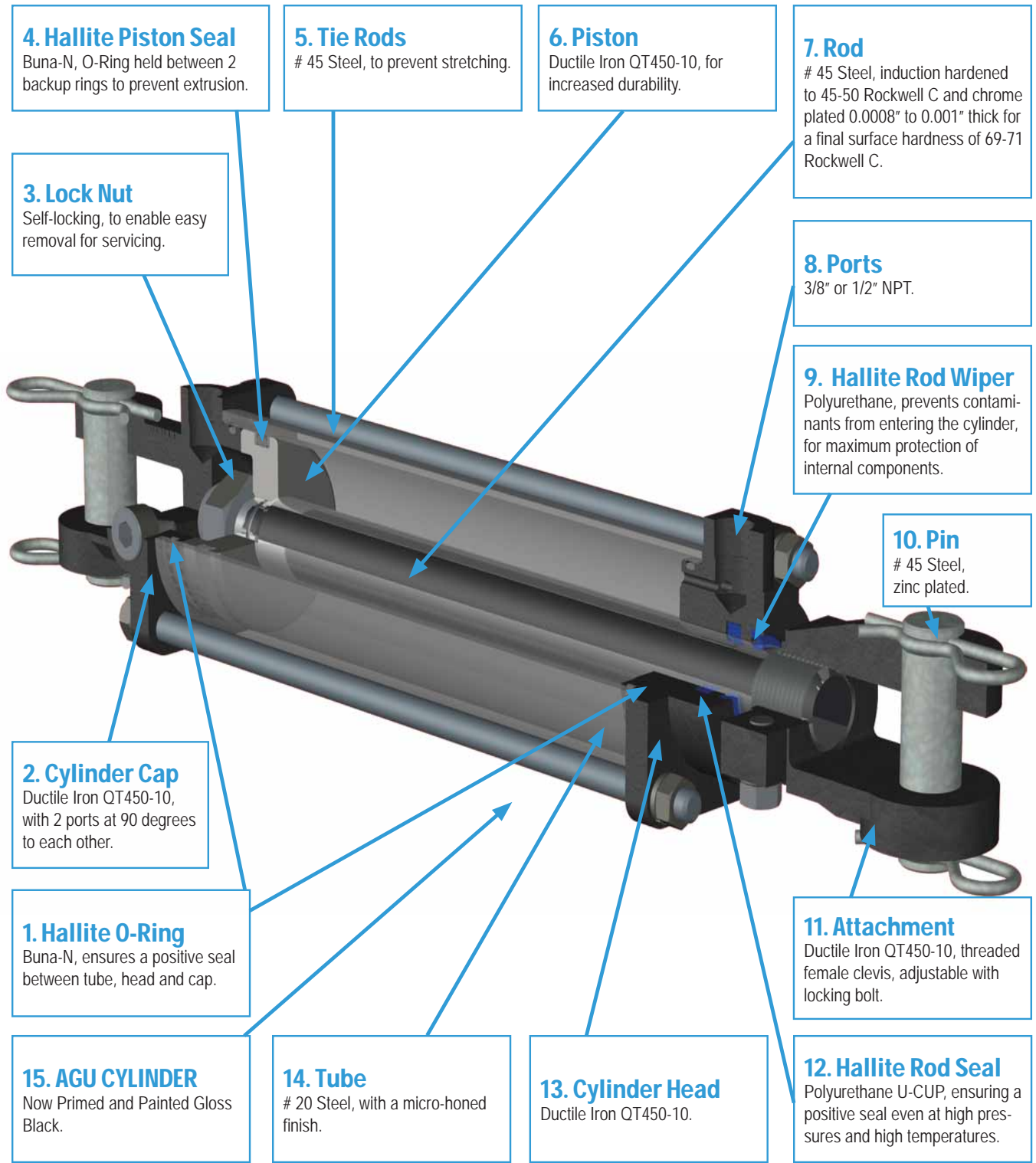
For all OEM requests, please call 1-877-497-7327

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### ASK FOR HY-SPEC QUALITY

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**4. Hallite Piston Seal**  
Buna-N, O-Ring held between 2 backup rings to prevent extrusion.

**5. Tie Rods**  
# 45 Steel, to prevent stretching.

**6. Piston**  
Ductile Iron QT450-10, for increased durability.

**7. Rod**  
# 45 Steel, induction hardened to 45-50 Rockwell C and chrome plated 0.0008" to 0.001" thick for a final surface hardness of 69-71 Rockwell C.

**3. Lock Nut**  
Self-locking, to enable easy removal for servicing.

**8. Ports**  
3/8" or 1/2" NPT.

**9. Hallite Rod Wiper**  
Polyurethane, prevents contaminants from entering the cylinder, for maximum protection of internal components.

**10. Pin**  
# 45 Steel, zinc plated.

**2. Cylinder Cap**  
Ductile Iron QT450-10, with 2 ports at 90 degrees to each other.

**1. Hallite O-Ring**  
Buna-N, ensures a positive seal between tube, head and cap.

**11. Attachment**  
Ductile Iron QT450-10, threaded female clevis, adjustable with locking bolt.

**15. AGU CYLINDER**  
Now Primed and Painted Gloss Black.

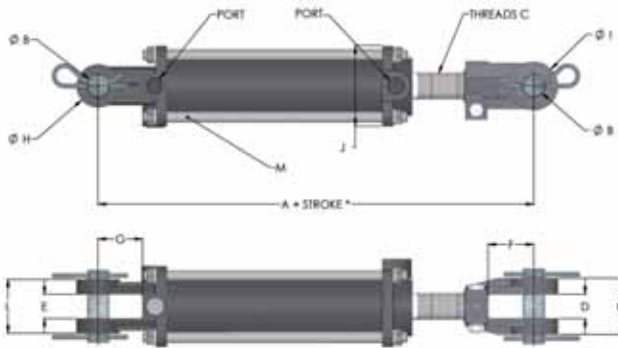
**14. Tube**  
# 20 Steel, with a micro-honed finish.

**13. Cylinder Head**  
Ductile Iron QT450-10.

**12. Hallite Rod Seal**  
Polyurethane U-CUP, ensuring a positive seal even at high pressures and high temperatures.

ASK FOR HY-SPEC QUALITY

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Operating pressure: 2500 PSI

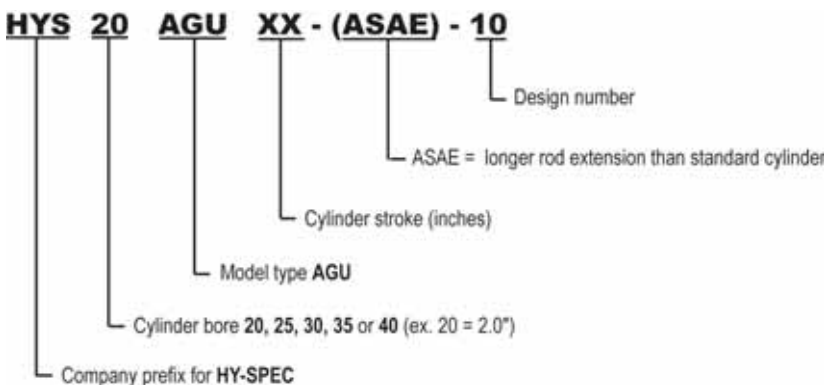
100% PRESSURE TESTED

## AGU CYLINDER DIMENSIONS

	TUBE DIA.	A*	Ø B PIN	C (UNF)	D	E	F	G	H	I	J	K	L	M	PORTS (NPT)
in.	2.000	10.250	1.000	1 1/8 - 12	1.125	1.125	2.125	2.062	2.000	2.000	3.000	2.500	2.500	0.393	3/8
mm	50.80	260.35	25.40		28.57	28.57	53.97	52.38	50.80	50.80	76.20	63.50	63.50	10.00	
in.	2.500	10.250	1.000	1 1/8 - 12	1.125	1.125	2.125	2.062	2.000	2.000	3.125	2.500	2.500	0.393	3/8
mm	63.50	260.35	25.40		28.57	28.57	53.97	52.38	50.80	50.80	79.38	63.50	63.50	10.00	
in.	3.000	10.250	1.000	1 1/4 - 12	1.125	1.125	2.125	2.062	2.000	2.250	3.750	2.625	2.500	0.472	1/2
mm	76.20	260.35	25.40		28.57	28.57	53.97	52.38	50.80	57.14	95.25	66.68	63.50	12.00	
in.	3.500	10.250	1.000	1 1/4 - 12	1.125	1.125	2.125	2.062	2.250	2.250	4.375	2.625	2.500	0.629	1/2
mm	88.90	260.35	25.40		28.57	28.57	53.97	52.38	57.15	57.15	111.13	66.68	63.50	16.00	
in.	4.000	10.250	1.000	1 1/4 - 12	1.125	1.125	2.125	2.062	2.250	2.250	4.625	2.625	2.625	0.629	1/2
mm	101.60	260.35	25.40		28.57	28.57	53.97	52.38	57.15	57.15	117.48	66.68	66.68	16.00	

		A* - STANDARD ASAE CYLINDERS							
		20AGU08-ASAE	25AGU08-ASAE	30AGU08-ASAE	30AGU16-ASAE	35AGU08-ASAE	35AGU16-ASAE	40AGU08-ASAE	40AGU16-ASAE
in.		12.250	12.250	12.250	15.500	12.250	15.500	12.250	15.500
mm		311.15	311.15	311.15	393.70	311.15	393.70	311.15	393.70

### MODEL NUMBER FOR AGU



**WARNING / ATTENTION**

PLEASE NOTE THAT THE MAXIMUM CAPACITY OF CLEVIS PINS ARE:

VEUILLEZ NOTER QUE LA CAPACITÉ MAXIMUM DES GOUPILLES D'ATTACHEMENT EST DE :

1" Ø = 26 000 Lbs	1-1/2" Ø = 56 000 Lbs
1-1/4" Ø = 39 000 Lbs	2" Ø = 96 000 Lbs

### ASK FOR HY-SPEC QUALITY

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MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #		
			Retracted	Extended						
HYS 20AGU04-10	2 X 4	1-1/8	14 1/4	18 1/4	3/8 NPT	2500	16	HYS AGU 201125-10		
HYS 20AGU06-10	2 X 6		16 1/4	22 1/4			17			
HYS 20AGU08-10	2 X 8		18 1/4	26 1/4			19			
HYS 20AGU08-ASAE-10	2 X 8		20 1/4	28 1/4			19			
HYS 20AGU10-10	2 X 10		20 1/4	30 1/4			20			
HYS 20AGU12-10	2 X 12		22 1/4	34 1/4			22			
HYS 20AGU14-10	2 X 14		24 1/4	38 1/4			24			
HYS 20AGU16-10	2 X 16		26 1/4	42 1/4			25			
HYS 20AGU18-10	2 X 18		28 1/4	46 1/4			27			
HYS 20AGU20-10	2 X 20		30 1/4	50 1/4			28			
HYS 20AGU24-10	2 X 24		34 1/4	58 1/4		2200	31			
HYS 20AGU30-10	2 X 30		40 1/4	70 1/4		1500	36			
HYS 20AGU36-10	2 X 36		46 1/4	82 1/4		1100	40			
HYS 25AGU04-10	2 1/2 X 4		1-1/2	14 1/4		18 1/4	3/8 NPT	2500	17	HYS AGU 251125-10
HYS 25AGU06-10	2 1/2 X 6			16 1/4		22 1/4			19	
HYS 25AGU08-10	2 1/2 X 8			18 1/4		26 1/4			21	
HYS 25AGU08-ASAE-10	2 1/2 X 8			20 1/4		28 1/4			21	
HYS 25AGU10-10	2 1/2 X 10			20 1/4		30 1/4			23	
HYS 25AGU12-10	2 1/2 X 12			22 1/4		34 1/4			24	
HYS 25AGU14-10	2 1/2 X 14			24 1/4		38 1/4		26		
HYS 25AGU16-10	2 1/2 X 16	26 1/4		42 1/4	28					
HYS 25AGU18-10	2 1/2 X 18	28 1/4		46 1/4	2200	30				
HYS 25AGU20-10	2 1/2 X 20	30 1/4		50 1/4	1900	31				
HYS 25AGU24-10	2 1/2 X 24	34 1/4		58 1/4	1400	35				
HYS 25AGU30-10	2 1/2 X 30	40 1/4		70 1/4	950	40				
* HYS 25AGU36-10	2 1/2 X 36	46 1/4	82 1/4	700	45					
HYS 30AGU04-10	3 X 4	1-1/4	14 1/4	18 1/4	1/2 NPT	2500	22	HYS AGU 301250-10		
HYS 30AGU06-10	3 X 6		16 1/4	22 1/4			24			
HYS 30AGU08-10	3 X 8		18 1/4	26 1/4			26			
HYS 30AGU08-ASAE-10	3 X 8		20 1/4	28 1/4			27			
HYS 30AGU10-10	3 X 10		20 1/4	30 1/4			29			
HYS 30AGU12-10	3 X 12		22 1/4	34 1/4			31			
HYS 30AGU14-10	3 X 14		24 1/4	38 1/4			33			
HYS 30AGU16-10	3 X 16		26 1/4	42 1/4			35			
* HYS 30AGU16-ASAE-10	3 X 16		31 1/2	47 1/2			2200		36	
HYS 30AGU18-10	3 X 18		28 1/4	46 1/4			2300		37	
HYS 30AGU20-10	3 X 20		30 1/4	50 1/4		2000	40			
HYS 30AGU24-10	3 X 24		34 1/4	58 1/4		1500	44			
HYS 30AGU30-10	3 X 30		40 1/4	70 1/4		1000	50			
HYS 30AGU36-10	3 X 36		46 1/4	82 1/4		750	57			

\*Stocked in limited quantity.

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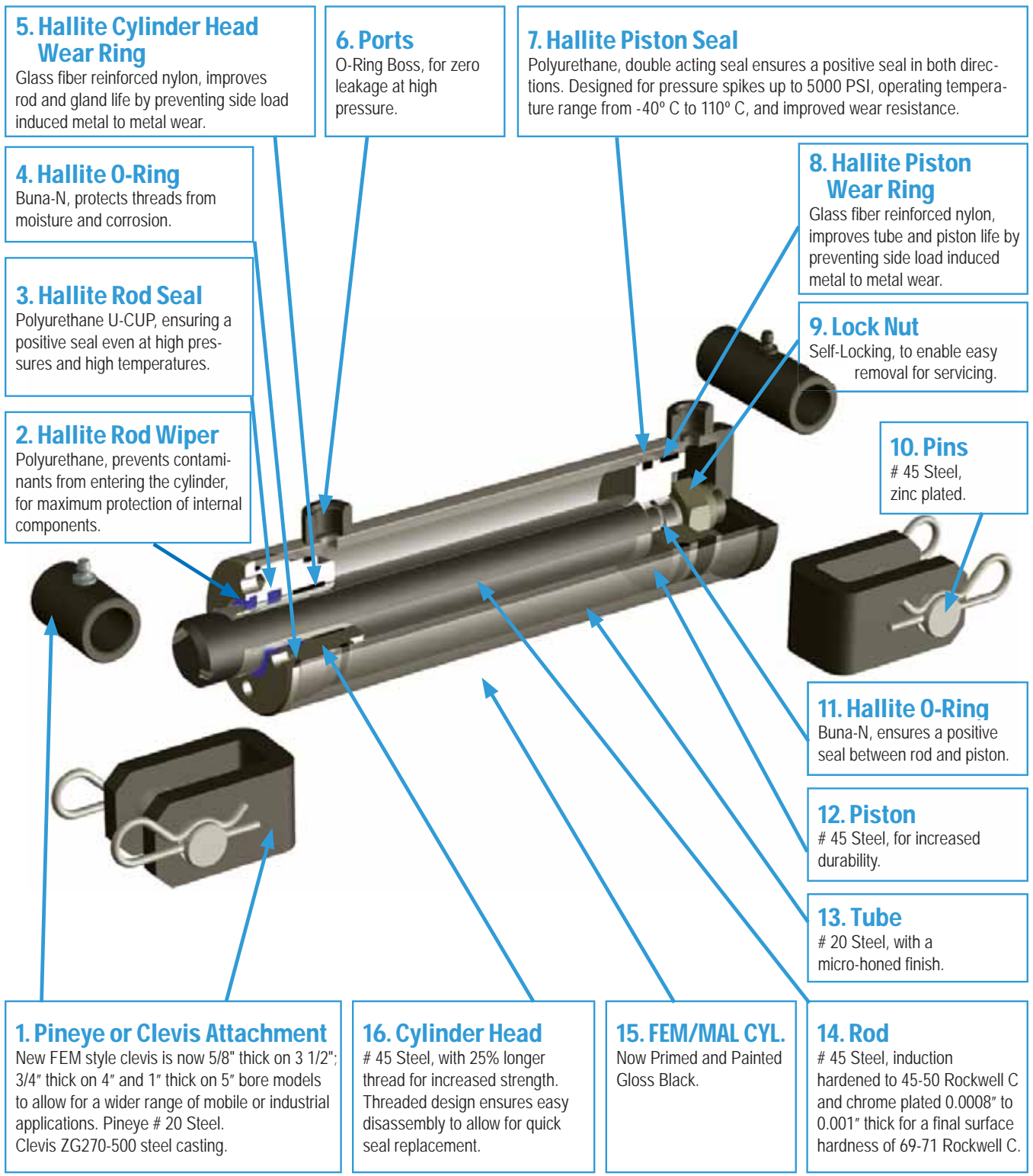
Note actual products may differ from photos shown in this brochure.  
Product availability and specifications are subject to change without notice.

MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #		
			Retracted	Extended						
* HYS 35AGU04-10	3 1/2 X 4	1-1/4	14 1/4	18 1/4	1/2 NPT	2500	29	HYS AGU 351250-10		
* HYS 35AGU06-10	3 1/2 X 6		16 1/4	22 1/4			31			
HYS 35AGU08-10	3 1/2 X 8		18 1/4	26 1/4			34			
HYS 35AGU08-ASAE-10	3 1/2 X 8		20 1/4	28 1/4			35			
HYS 35AGU10-10	3 1/2 X 10		20 1/4	30 1/4			37			
HYS 35AGU12-10	3 1/2 X 12		22 1/4	34 1/4			39			
HYS 35AGU14-10	3 1/2 X 14		24 1/4	38 1/4			42			
HYS 35AGU16-10	3 1/2 X 16		26 1/4	42 1/4		44				
* HYS 35AGU16-ASAE-10	3 1/2 X 16		31 1/2	47 1/2		45				
HYS 35AGU18-10	3 1/2 X 18		28 1/4	46 1/4		47				
HYS 35AGU20-10	3 1/2 X 20		30 1/4	50 1/4		50				
HYS 35AGU24-10	3 1/2 X 24		34 1/4	58 1/4		59				
HYS 35AGU30-10	3 1/2 X 30		40 1/4	70 1/4		68				
* HYS 35AGU36-10	3 1/2 X 36		46 1/4	82 1/4		76				
* HYS 40AGU04-10	4 X 4	1-1/4	14 1/4	18 1/4	1/2 NPT	2500	34	HYS AGU 401250-10		
* HYS 40AGU06-10	4 X 6		16 1/4	22 1/4			37			
HYS 40AGU08-10	4 X 8		18 1/4	26 1/4			40			
HYS 40AGU08-ASAE-10	4 X 8		20 1/4	28 1/4			40			
HYS 40AGU10-10	4 X 10		20 1/4	30 1/4			43			
HYS 40AGU12-10	4 X 12		22 1/4	34 1/4		45				
HYS 40AGU14-10	4 X 14		24 1/4	38 1/4		48				
HYS 40AGU16-10	4 X 16		26 1/4	42 1/4		51				
HYS 40AGU16-ASAE-10	4 X 16		2	31 1/2		47 1/2	2500		60	HYS AGU 402000-10
HYS 40AGU18-10	4 X 18		1-1/2	28 1/4		46 1/4	2500		57	HYS AGU 401500-10
HYS 40AGU20-10	4 X 20	30 1/4		50 1/4	60					
HYS 40AGU24-150-10	4 X 24	34 1/4		58 1/4	66					
HYS 40AGU24-175-10	4 X 24	1-3/4	34 1/4	58 1/4	2500	70	HYS AGU 401750-10			
HYS 40AGU24-200-10	4 X 24	2	34 1/4	58 1/4		75	HYS AGU 402000-10			
HYS 40AGU30-10	4 X 30		40 1/4	70 1/4		87				
HYS 40AGU36-10	4 X 36		46 1/4	82 1/4		98				

\*Stocked in limited quantity.

**ASK FOR HY-SPEC QUALITY**

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**5. Hallite Cylinder Head Wear Ring**

Glass fiber reinforced nylon, improves rod and gland life by preventing side load induced metal to metal wear.

**6. Ports**

O-Ring Boss, for zero leakage at high pressure.

**7. Hallite Piston Seal**

Polyurethane, double acting seal ensures a positive seal in both directions. Designed for pressure spikes up to 5000 PSI, operating temperature range from -40° C to 110° C, and improved wear resistance.

**4. Hallite O-Ring**

Buna-N, protects threads from moisture and corrosion.

**8. Hallite Piston Wear Ring**

Glass fiber reinforced nylon, improves tube and piston life by preventing side load induced metal to metal wear.

**3. Hallite Rod Seal**

Polyurethane U-CUP, ensuring a positive seal even at high pressures and high temperatures.

**9. Lock Nut**

Self-Locking, to enable easy removal for servicing.

**2. Hallite Rod Wiper**

Polyurethane, prevents contaminants from entering the cylinder, for maximum protection of internal components.

**10. Pins**

# 45 Steel, zinc plated.

**11. Hallite O-Ring**

Buna-N, ensures a positive seal between rod and piston.

**12. Piston**

# 45 Steel, for increased durability.

**13. Tube**

# 20 Steel, with a micro-honed finish.

**1. Pineye or Clevis Attachment**

New FEM style clevis is now 5/8" thick on 3 1/2"; 3/4" thick on 4" and 1" thick on 5" bore models to allow for a wider range of mobile or industrial applications. Pineye # 20 Steel. Clevis ZG270-500 steel casting.

**16. Cylinder Head**

# 45 Steel, with 25% longer thread for increased strength. Threaded design ensures easy disassembly to allow for quick seal replacement.

**15. FEM/MAL CYL.**

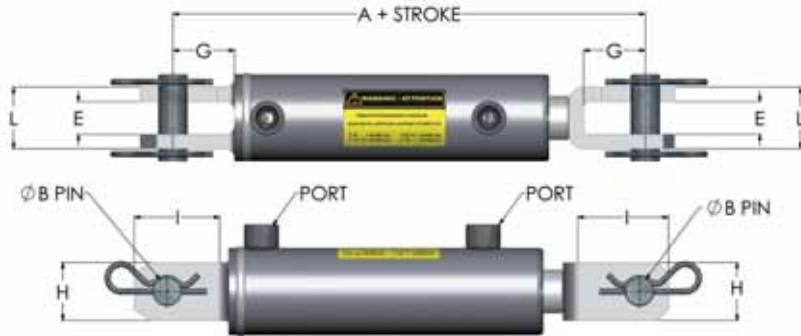
Now Primed and Painted Gloss Black.

**14. Rod**

# 45 Steel, induction hardened to 45-50 Rockwell C and chrome plated 0.0008" to 0.001" thick for a final surface hardness of 69-71 Rockwell C.

ASK FOR HY-SPEC QUALITY

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Operating pressure: 3000 PSI

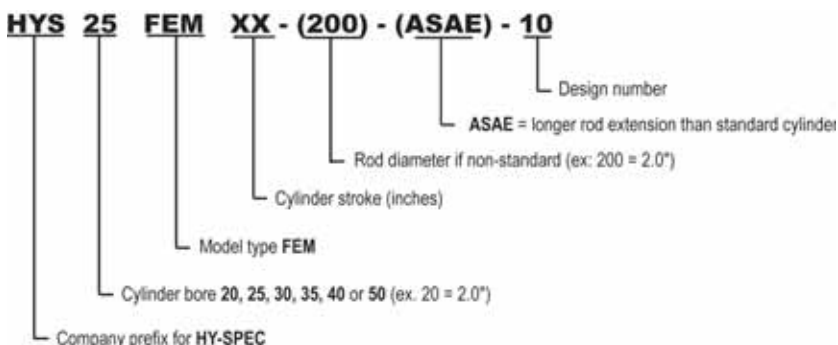
100% PRESSURE TESTED

## FEM CYLINDER DIMENSIONS

	TUBE DIA.	A*	Ø B PIN	E	G	H	I	L	PORTS (SAE)
in.	2.000	10.250	1.000	1.125	2.125	2.000	3.125	2.125	6
mm	50.80	260.35	25.40	28.60	53.98	50.80	79.37	53.98	
in.	2.500	10.250	1.000	1.125	2.125	2.000	3.125	2.125	8
mm	63.50	260.35	25.40	28.60	53.98	50.80	79.37	53.98	
in.	3.000	10.250	1.000	1.125	2.125	2.000	3.125	2.125	8
mm	76.20	260.35	25.40	28.60	53.98	50.80	79.37	53.98	
in.	3.500	10.250	1.000 / 1.250	1.125	2.000	2.500	3.875	2.375	8
mm	88.90	260.35	25.40 / 31.75	28.60	50.80	63.50	98.42	60.33	
in.	4.000	10.250	1.000 / 1.500	1.625	1.750	3.000	4.000	3.125	8
mm	101.60	260.35	25.40 / 38.10	41.28	44.45	76.20	101.60	79.38	
in.	5.000	15.750	1.500 / 2.000	2.125	3.500	4.000	6.500	4.125	12
mm	127.00	400.10	38.10 / 50.80	53.98	88.90	101.60	165.10	104.78	

	A* STANDARD ASAE CYLINDERS								
	20FEM08-ASAE	20FEM16-ASAE	25FEM08-ASAE	25FEM16-ASAE	30FEM08-ASAE	30FEM16-ASAE	35FEM08-ASAE	35FEM16-ASAE	40FEM08-ASAE
in.	12.25	15.50	12.25	15.50	12.25	15.50	12.25	15.50	12.25
mm	311.15	393.70	311.15	393.70	311.15	393.70	311.15	393.70	311.15

### MODEL NUMBER FOR FEM



**WARNING / ATTENTION**

PLEASE NOTE THAT THE MAXIMUM CAPACITY OF CLEVIS PINS ARE:

VEUILLEZ NOTER QUE LA CAPACITÉ MAXIMUM DES GOUPILLES D'ATTACHEMENT EST DE :

1" Ø = 26 000 Lbs	1-1/2" Ø = 56 000 Lbs
1-1/4" Ø = 39 000 Lbs	2" Ø = 96 000 Lbs

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MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	PIN DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #
				Retracted	Extended				
HYS 20FEM04-10	2 X 4	1-1/4		14 1/4	18 1/4	SAE-6	3000	14	HYS MF 201250-10
HYS 20FEM06-10	2 X 6			16 1/4	22 1/4			16	
HYS 20FEM08-10	2 X 8			18 1/4	26 1/4			18	
HYS 20FEM08-ASAE-10	2 X 8			20 1/4	28 1/4			19	
HYS 20FEM10-10	2 X 10			20 1/4	30 1/4			20	
HYS 20FEM12-10	2 X 12			22 1/4	34 1/4			21	
HYS 20FEM14-10	2 X 14			24 1/4	38 1/4			23	
HYS 20FEM16-10	2 X 16			26 1/4	42 1/4			25	
* HYS 20FEM16- ASAE-10	2 X 16			31 1/2	47 1/2			27	
HYS 20FEM18-10	2 X 18			28 1/4	46 1/4			26	
HYS 20FEM20-10	2 X 20			30 1/4	50 1/4			28	
HYS 20FEM24-10	2 X 24			34 1/4	58 1/4			31	
HYS 20FEM28-10	2 X 28			38 1/4	66 1/4			35	
HYS 20FEM30-10	2 X 30			40 1/4	70 1/4			37	
HYS 20FEM32-10	2 X 32			42 1/4	74 1/4			38	
* HYS 20FEM34-10	2 X 34			44 1/4	78 1/4			40	
HYS 20FEM36-10	2 X 36			46 1/4	82 1/4			42	
HYS 25FEM04-10	2 1/2 X 4			1-1/2	1			14 1/4	
HYS 25FEM06-10	2 1/2 X 6	16 1/4	22 1/4			20			
HYS 25FEM08-10	2 1/2 X 8	18 1/4	26 1/4			22			
HYS 25FEM08-ASAE-10	2 1/2 X 8	20 1/4	28 1/4			23			
HYS 25FEM10-10	2 1/2 X 10	20 1/4	30 1/4			25			
HYS 25FEM12-10	2 1/2 X 12	22 1/4	34 1/4			27			
HYS 25FEM14-10	2 1/2 X 14	24 1/4	38 1/4			29			
HYS 25FEM16-10	2 1/2 X 16	26 1/4	42 1/4			31			
* HYS 25FEM16-ASAE-10	2 1/2 X 16	31 1/2	47 1/2			34			
HYS 25FEM18-10	2 1/2 X 18	28 1/4	46 1/4			34			
HYS 25FEM20-10	2 1/2 X 20	30 1/4	50 1/4			36			
HYS 25FEM24-10	2 1/2 X 24	34 1/4	58 1/4			40			
HYS 25FEM28-10	2 1/2 X 28	38 1/4	66 1/4			45			
HYS 25FEM30-10	2 1/2 X 30	40 1/4	70 1/4			47			
* HYS 25FEM32-10	2 1/2 X 32	42 1/4	74 1/4			49			
HYS 25FEM34-10	2 1/2 X 34	44 1/4	78 1/4			51			
HYS 25FEM36-10	2 1/2 X 36	46 1/4	82 1/4			54			
HYS 30FEM04-10	3 X 4	1-1/2				14 1/4	18 1/4	SAE-8	3000
HYS 30FEM06-10	3 X 6			16 1/4	22 1/4	24			
HYS 30FEM08-10	3 X 8			18 1/4	26 1/4	26			
HYS 30FEM08-ASAE-10	3 X 8			20 1/4	28 1/4	27			
HYS 30FEM10-10	3 X 10			20 1/4	30 1/4	29			
HYS 30FEM12-10	3 X 12			22 1/4	34 1/4	31			
HYS 30FEM14-10	3 X 14			24 1/4	38 1/4	34			
HYS 30FEM16-10	3 X 16			26 1/4	42 1/4	36			
* HYS 30FEM16-ASAE-10	3 X 16			31 1/2	47 1/2	39			
HYS 30FEM18-10	3 X 18			28 1/4	46 1/4	39			
HYS 30FEM20-10	3 X 20			30 1/4	50 1/4	41			
HYS 30FEM24-10	3 X 24			34 1/4	58 1/4	46			
HYS 30FEM28-10	3 X 28			38 1/4	66 1/4	51			
HYS 30FEM30-10	3 X 30			40 1/4	70 1/4	53			
HYS 30FEM32-10	3 X 32			42 1/4	74 1/4	56			
HYS 30FEM34-10	3 X 34			44 1/4	78 1/4	58			
HYS 30FEM36-10	3 X 36			46 1/4	82 1/4	61			

\*Stocked in limited quantity.

ASK FOR HY-SPEC QUALITY

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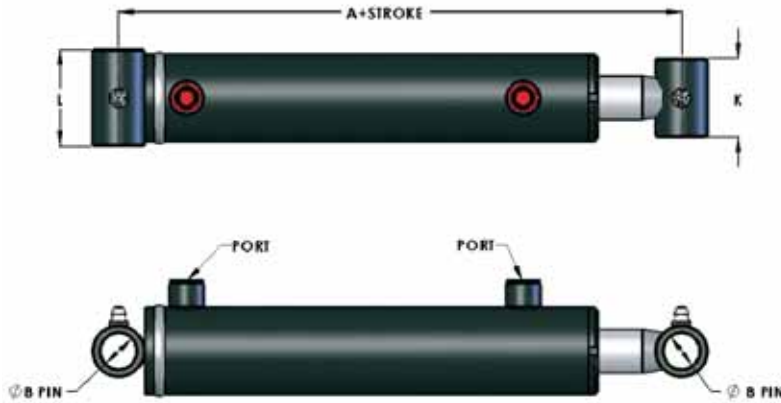
MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	PIN DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #		
				Retracted	Extended						
* HYS 35FEM04-10	3 1/2 X 4	1-3/4	1 & 1-1/4	14 1/4	18 1/4	SAE-8	3000	31	HYS MF 351750-10		
* HYS 35FEM06-10	3 1/2 X 6			16 1/4	22 1/4			34			
HYS 35FEM08-10	3 1/2 X 8			18 1/4	26 1/4			37			
* HYS 35FEM08-ASAE-10	3 1/2 X 8			20 1/4	28 1/4			39			
HYS 35FEM10-10	3 1/2 X 10			20 1/4	30 1/4			40			
HYS 35FEM12-10	3 1/2 X 12			22 1/4	34 1/4			43			
HYS 35FEM14-10	3 1/2 X 14			24 1/4	38 1/4			46			
HYS 35FEM16-10	3 1/2 X 16			26 1/4	42 1/4			49			
* HYS 35FEM16-ASAE-10	3 1/2 X 16			31 1/2	47 1/2			53			
HYS 35FEM18-10	3 1/2 X 18			28 1/4	46 1/4			52			
HYS 35FEM20-10	3 1/2 X 20			30 1/4	50 1/4			55			
HYS 35FEM24-10	3 1/2 X 24			34 1/4	58 1/4			61			
HYS 35FEM24-200-10	3 1/2 X 24			2	34 1/4			58 1/4		66	HYS MF 352000-10
HYS 35FEM28-10	3 1/2 X 28			1-3/4	38 1/4			66 1/4		68	SAE-8
* HYS 35FEM30-10	3 1/2 X 30	40 1/4	70 1/4		74	2600					
* HYS 35FEM32-10	3 1/2 X 32	42 1/4	74 1/4		77	2300					
* HYS 35FEM34-10	3 1/2 X 34	44 1/4	78 1/4		80	2100					
HYS 35FEM36-10	3 1/2 X 36	46 1/4	82 1/4		46	3000	HYS MF 402000-10				
HYS 40FEM04-10	4 X 4	2	1 & 1-1/2		14 1/4			18 1/4	51		
HYS 40FEM06-10	4 X 6			16 1/4	22 1/4			55			
HYS 40FEM08-10	4 X 8			18 1/4	26 1/4			57			
* HYS 40FEM08-ASAE-10	4 X 8			20 1/4	28 1/4			59			
HYS 40FEM10-10	4 X 10			20 1/4	30 1/4			63			
HYS 40FEM12-10	4 X 12			22 1/4	34 1/4			67			
HYS 40FEM14-10	4 X 14			24 1/4	38 1/4			72			
HYS 40FEM16-10	4 X 16			26 1/4	42 1/4			76			
* HYS 40FEM16-ASAE-10	4 X 16			31 1/2	47 1/2			76			
HYS 40FEM18-10	4 X 18			28 1/4	46 1/4			80			
HYS 40FEM20-10	4 X 20			30 1/4	50 1/4			88			
HYS 40FEM24-10	4 X 24			34 1/4	58 1/4			97			
HYS 40FEM28-10	4 X 28			38 1/4	66 1/4			101			
HYS 40FEM30-10	4 X 30			40 1/4	70 1/4	105					
HYS 40FEM32-10	4 X 32	42 1/4	74 1/4	109							
* HYS 40FEM34-10	4 X 34	44 1/4	78 1/4	113	2700						
HYS 40FEM36-10	4 X 36	46 1/4	82 1/4	95	3000	HYS MF 502500-10					
* HYS 50FEM04-10	5 X 4	2-1/2	1-1/2 & 2	19 3/4			23 3/4	102			
HYS 50FEM06-10	5 X 6			21 3/4			27 3/4	108			
HYS 50FEM08-10	5 X 8			23 3/4			31 3/4	114			
* HYS 50FEM10-10	5 X 10			25 3/4			35 3/4	121			
HYS 50FEM12-10	5 X 12			27 3/4			39 3/4	127			
* HYS 50FEM14-10	5 X 14			29 3/4			43 3/4	134			
* HYS 50FEM16-10	5 X 16			31 3/4			47 3/4	140			
HYS 50FEM18-10	5 X 18			33 3/4			51 3/4	146			
HYS 50FEM20-10	5 X 20			35 3/4			55 3/4	159			
HYS 50FEM24-10	5 X 24			39 3/4			63 3/4	172			
HYS 50FEM28-10	5 X 28			43 3/4			71 3/4	178			
HYS 50FEM30-10	5 X 30			45 3/4			75 3/4	185			
HYS 50FEM32-10	5 X 32			47 3/4			79 3/4	197			
* HYS 50FEM36-10	5 X 36			51 3/4	87 3/4						

\*Stocked in limited quantity.

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Operating pressure: 3000 PSI

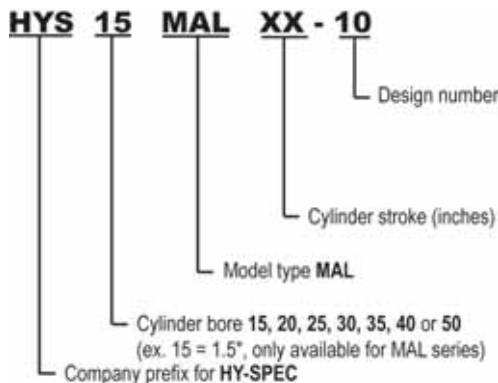
100% PRESSURE TESTED

MAL MODEL - SPECIFICATIONS

## MAL CYLINDER DIMENSIONS

	TUBE DIA.	A	Ø B PIN	K	L	PORTS (SAE)
in.	1.500	8.000	0.750	2.000	2.250	6
mm	38.10	203.20	19.05	50.80	57.15	
in.	2.000	8.000	1.000	2.250	2.750	6
mm	50.80	203.20	25.40	57.15	69.85	
in.	2.500	8.000	1.000	2.250	3.250	8
mm	63.50	203.20	25.40	57.15	82.55	
in.	3.000	8.000	1.000	2.250	3.750	8
mm	76.20	203.20	25.40	57.15	95.25	
in.	3.500	10.000	1.250	2.250	4.250	8
mm	88.90	254.00	31.750	57.15	107.95	
in.	4.000	10.000	1.500	2.500	4.750	8
mm	101.60	254.00	38.10	63.50	120.65	
in.	5.000	12.000	1.750 / 2.000	3.250	6.000	12
mm	127.00	304.80	44.45	82.55	152.40	

### MODEL NUMBER FOR MAL



**WARNING / ATTENTION**

PLEASE NOTE THAT THE MAXIMUM CAPACITY OF CLEVIS PINS ARE:  
VEUILLEZ NOTER QUE LA CAPACITE MAXIMUM DES GOUPILLES D'ATTACHEMENT EST DE :

1" Ø = 26 000 Lbs	1-1/2" Ø = 56 000 Lbs
1-1/4" Ø = 39 000 Lbs	2" Ø = 96 000 Lbs

ASK FOR HY-SPEC QUALITY

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MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	PIN DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #	
				Retracted	Extended					
HYS 15MAL04-10	1 1/2 X 4	1	3/4	12	16	SAE-6	3000	8	HYS MF 151000-10	
HYS 15MAL06-10	1 1/2 X 6			14	20			9		
HYS 15MAL08-10	1 1/2 X 8			16	24			10		
HYS 15MAL10-10	1 1/2 X 10			18	28			12		
HYS 15MAL12-10	1 1/2 X 12			20	32			13		
HYS 15MAL14-10	1 1/2 X 14			22	36			14		
HYS 15MAL16-10	1 1/2 X 16			24	40			15		
HYS 20MAL04-10	2 X 4	1-1/4		12	16		11	HYS MF 201250-10		
HYS 20MAL06-10	2 X 6			14	20		13			
HYS 20MAL08-10	2 X 8			16	24		15			
HYS 20MAL10-10	2 X 10			18	28		16			
HYS 20MAL12-10	2 X 12			20	32		18			
HYS 20MAL14-10	2 X 14			22	36		20			
HYS 20MAL16-10	2 X 16			24	40		21			
HYS 20MAL18-10	2 X 18			26	44		23			
HYS 20MAL20-10	2 X 20			28	48	25				
HYS 20MAL24-10	2 X 24			32	56	28				
HYS 20MAL28-10	2 X 28			36	64	2700	31			
HYS 20MAL30-10	2 X 30			38	68	2400	33			
HYS 20MAL32-10	2 X 32			40	72	2200	35			
HYS 20MAL36-10	2 X 36			44	80	1700	39			
HYS 20MAL40-10	2 X 40	48	88	1400	42					
HYS 20MAL48-10	2 X 48	56	104	1000	49					
HYS 25MAL04-10	2 1/2 X 4	1-1/2	1	12	16	SAE-8	3000	15	HYS MF 251500-10	
HYS 25MAL06-10	2 1/2 X 6			14	20			17		
HYS 25MAL08-10	2 1/2 X 8			16	24			20		
HYS 25MAL10-10	2 1/2 X 10			18	28			22		
HYS 25MAL12-10	2 1/2 X 12			20	32			24		
HYS 25MAL14-10	2 1/2 X 14			22	36			26		
HYS 25MAL16-10	2 1/2 X 16			24	40			28		
HYS 25MAL18-10	2 1/2 X 18			26	44			31		
HYS 25MAL20-10	2 1/2 X 20			28	48			33		
HYS 25MAL24-10	2 1/2 X 24			32	56			37		
HYS 25MAL28-10	2 1/2 X 28			36	64			42		
HYS 25MAL30-10	2 1/2 X 30			38	68			44		
HYS 25MAL32-10	2 1/2 X 32			40	72			2900		46
HYS 25MAL36-10	2 1/2 X 36			44	80			2300		51
HYS 25MAL40-10	2 1/2 X 40	48	88	1900	55					
HYS 25MAL48-10	2 1/2 X 48	56	104	1400	64					
HYS 30MAL06-10	3 X 6	1-1/2		14	20	3000	21	HYS MF 301500-10		
HYS 30MAL08-10	3 X 8			16	24		24			
HYS 30MAL10-10	3 X 10			18	28		26			

**ASK FOR HY-SPEC QUALITY**

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MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	PIN DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #	
				Retracted	Extended					
HYS 30MAL12-10	3 X 12	1-1/2	1	20	32	SAE-8	3000	29	HYS MF 301500-10	
HYS 30MAL14-10	3 X 14			22	36			31		
HYS 30MAL16-10	3 X 16			24	40			33		
HYS 30MAL18-10	3 X 18			26	44			36		
HYS 30MAL20-10	3 X 20			28	48			38		
HYS 30MAL24-10	3 X 24			32	56			43		
HYS 30MAL28-10	3 X 28			36	64		48	2500		
HYS 30MAL30-10	3 X 30			38	68		50	2200		
HYS 30MAL32-10	3 X 32			40	72		53	2000		
HYS 30MAL36-10	3 X 36			44	80		58	1600		
HYS 30MAL40-10	3 X 40			48	88		63	1300		
HYS 30MAL48-10	3 X 48			56	104		73	950		
HYS 35MAL06-10	3 1/2 X 6	1-3/4	1-1/4	16	22	SAE-8	3000	30	HYS MF 351750-10	
HYS 35MAL08-10	3 1/2 X 8			18	26			33		
HYS 35MAL10-10	3 1/2 X 10			20	30			36		
HYS 35MAL12-10	3 1/2 X 12			22	34			39		
HYS 35MAL14-10	3 1/2 X 14			24	38			42		
HYS 35MAL16-10	3 1/2 X 16			26	42			45		
HYS 35MAL18-10	3 1/2 X 18			28	46			48		
HYS 35MAL20-10	3 1/2 X 20			30	50			51		
HYS 35MAL24-10	3 1/2 X 24			34	58			57		
HYS 35MAL28-10	3 1/2 X 28			38	66			63		
* HYS 35MAL30-10	3 1/2 X 30			40	70			66		2900
HYS 35MAL32-10	3 1/2 X 32			42	74			69		2600
HYS 35MAL36-10	3 1/2 X 36			46	82		75	2100		
HYS 35MAL40-10	3 1/2 X 40			50	90		81	1700		
HYS 35MAL48-10	3 1/2 X 48			58	106		93	1200		
HYS 40MAL08-10	4 X 8			2	1-1/2		18	26		SAE-8
HYS 40MAL10-10	4 X 10	20	30			50				
HYS 40MAL12-10	4 X 12	22	34			55				
HYS 40MAL14-10	4 X 14	24	38			59				
HYS 40MAL16-10	4 X 16	26	42			63				
HYS 40MAL18-10	4 X 18	28	46			67				
HYS 40MAL20-10	4 X 20	30	50			71				
HYS 40MAL24-10	4 X 24	34	58			80				
HYS 40MAL28-10	4 X 28	38	66			88				
HYS 40MAL30-10	4 X 30	40	70			92				
HYS 40MAL32-10	4 X 32	42	74			96				
HYS 40MAL36-10	4 X 36	46	82			105	2700			
HYS 40MAL40-10	4 X 40	50	90			113	2300			
HYS 40MAL48-10	4 X 48	58	106			130	1600			

\*Stocked in limited quantity.

ASK FOR HY-SPEC QUALITY

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MODEL	BORE X STROKE (in.)	ROD DIA. (in.)	PIN DIA. (in.)	CENTER TO CENTER OF PIN (in.)		PORTS	MAX EXTENSION PRESSURE (PSI)	WEIGHT (lb)	SEAL KIT PART #
				Retracted	Extended				
HYS 50MAL08-10	5 X 8	2-1/2	1-3/4 & 2	20	28	SAE-12	3000	82	HYS MF 502500-10
* HYS 50MAL10-10	5 X 10			22	32			89	
HYS 50MAL12-10	5 X 12			24	36			95	
* HYS 50MAL14-10	5 X 14			26	40			101	
* HYS 50MAL16-10	5 X 16			28	44			108	
* HYS 50MAL18-10	5 X 18			30	48			114	
HYS 50MAL20-10	5 X 20			32	52			121	
HYS 50MAL24-10	5 X 24			36	60			133	
HYS 50MAL28-10	5 X 28			40	68			146	
HYS 50MAL30-10	5 X 30			42	72			152	
HYS 50MAL32-10	5 X 32			44	76			159	
* HYS 50MAL36-10	5 X 36			48	84			172	
HYS 50MAL40-10	5 X 40			52	92			184	
HYS 50MAL48-10	5 X 48			60	108		210	2500	

\*Stocked in limited quantity.

## CYLINDER PARTS & ACCESSORIES



PIN ONLY



PIN & BUSHING KIT



FEMALE CLEVIS



STROKE LIMITERS

Dimensions in inches

PIN ONLY			
MODEL	Ø PIN	USABLE LENGTH	FOR CYLINDER MODEL
HYSPIN1000X2625	1	2.750	20AGU-10 25AGU-10 30AGU-10 35AGU-10 40AGU-10
HYSPIN1000X2250	1	2.250	20FEM-10 25FEM-10 30FEM-10
HYSPIN1000X3375	1-1/4	2.500	35FEM-10
HYSPIN1500X4375	1-1/2	3.250	40FEM-10
HYSPIN2000X4250	2	4.250	50FEM-10

PIN & BUSHING KIT (includes 2 pins & 4 bushings)		
MODEL	Ø PIN	FOR CYLINDER MODEL
HYSHYF-35-075-K	1-1/4 to 1	35FEM-10
HYSHYF-40-075-ASAE-K	1-1/2 to 1	40FEM-ASAE-10
HYSHYF-40-075-K	1-1/2 to 1	40FEM-10
HYSHYF-50-075-K	2 to 1-1/2	50FEM-10
HYSHYM-50-075	2 to 1 3/4	50MAL-10 (2 bushings only)
HYSITC12-18-001	1 1/2 to 1	12ITC-10 (1 bushing only)

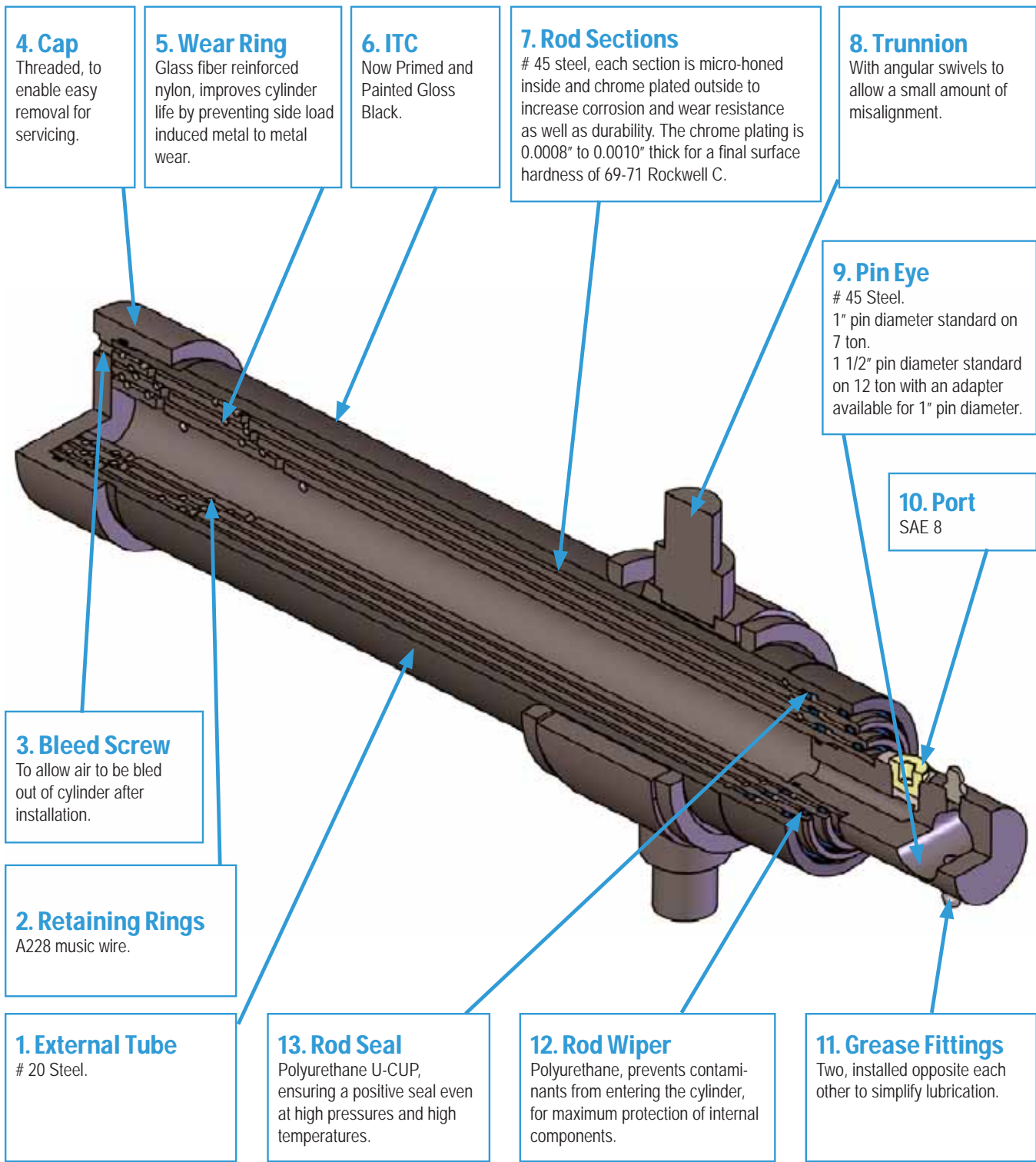
FEMALE CLEVIS		
MODEL	THREAD	FOR CYLINDER MODEL
HYSAGU-20-070	1-1/8 12UNF	20AGU-10 25AGU-10
HYSAGU-30-070	1-1/4 12UNF	30AGU-10 35AGU-10
HYSAGU-40-070	1-1/4 12UNF	40AGU-10

STROKE LIMITER ADJUSTABLE FROM 2 1/8" TO 5 3/16"		
MODEL	Ø ROD	FOR CYLINDER MODEL
HYSSL-1125-3000-001	1-1/8	20AGU-10 25AGU-10
HYSSL-1250-3000-001	1-1/4	30AGU-10 35AGU-10 40AGU-10
HYSSL-1250-3000-002	1-1/2 1-3/4 2	35AGU-10 40AGU-10

### ASK FOR HY-SPEC QUALITY

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**4. Cap**  
Threaded, to enable easy removal for servicing.

**5. Wear Ring**  
Glass fiber reinforced nylon, improves cylinder life by preventing side load induced metal to metal wear.

**6. ITC**  
Now Primed and Painted Gloss Black.

**7. Rod Sections**  
# 45 steel, each section is micro-honed inside and chrome plated outside to increase corrosion and wear resistance as well as durability. The chrome plating is 0.0008" to 0.0010" thick for a final surface hardness of 69-71 Rockwell C.

**8. Trunnion**  
With angular swivels to allow a small amount of misalignment.

**9. Pin Eye**  
# 45 Steel.  
1" pin diameter standard on 7 ton.  
1 1/2" pin diameter standard on 12 ton with an adapter available for 1" pin diameter.

**10. Port**  
SAE 8

**3. Bleed Screw**  
To allow air to be bled out of cylinder after installation.

**2. Retaining Rings**  
A228 music wire.

**1. External Tube**  
# 20 Steel.

**13. Rod Seal**  
Polyurethane U-CUP, ensuring a positive seal even at high pressures and high temperatures.

**12. Rod Wiper**  
Polyurethane, prevents contaminants from entering the cylinder, for maximum protection of internal components.

**11. Grease Fittings**  
Two, installed opposite each other to simplify lubrication.

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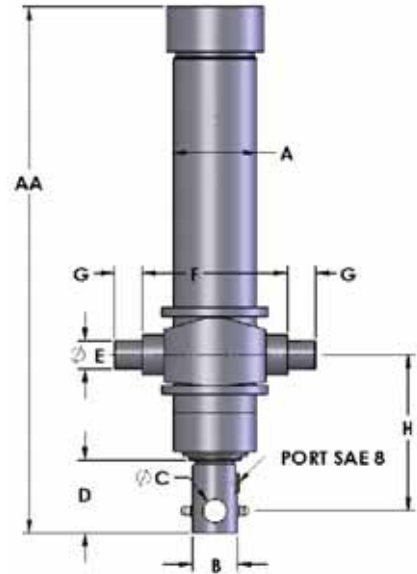
Note actual products may differ from photos shown in this brochure. Product availability and specifications are subject to change without notice.



Box brackets  
See page 18



Frame brackets  
See page 18



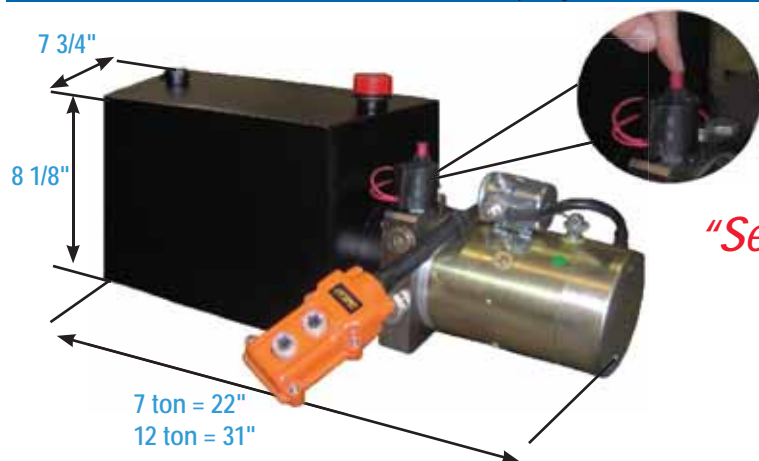
## INVERTED TELESCOPIC CYLINDERS

7 ton series - 1 3/4", 2 3/8" & 3" sections - 2000 PSI  
Dimensions in inches

MODEL	CAPACITY	STROKE	AA	A	B	Ø C	D	E	F	G	H	Fluid Volume (gal)	WEIGHT (lb)
HYS 07-ITC-78-3-10	7 ton	78.00	35.50	3.74	2.00	1.00	3.19	1.25	6.50	1.25	7.00	1.6	68
HYS 07-ITC-90-3-10	7 ton	90.00	39.50	3.74	2.00	1.00	3.19	1.25	6.50	1.25	7.00	1.8	75
HYS 07-ITC-108-3-10	7 ton	108.00	45.50	3.74	2.00	1.00	3.19	1.25	6.50	1.25	7.00	2.2	101
HYS ITC07-10	Seal Kit for 7 ton telescopic cylinder												

12 ton series - 2 3/8", 3" & 3 5/8" sections - 2300 PSI  
Dimensions in inches

MODEL	CAPACITY	STROKE	AA	A	B	Ø C	D	E	F	G	H	Fluid Volume (gal)	WEIGHT (lb)
HYS12-ITC-078-3-10	12 ton	78.00	34.75	4.43	2.00	1.00 & 1.50	3.54	1.50	7.61	1.43	7.00	2.5	106.00
HYS12-ITC-090-3-10	12 ton	90.00	38.75	4.43	2.00	1.00 & 1.50	3.54	1.50	7.61	1.43	7.00	2.8	107.00
HYS12-ITC-108-3-10	12 ton	108.00	44.75	4.43	2.00	1.00 & 1.50	3.54	1.50	7.61	1.43	7.00	2.4	132.00
HYS12-ITC-120-3-10	12 ton	120.00	48.75	4.43	2.00	1.00 & 1.50	3.54	1.50	7.61	1.43	7.00	3.8	143.00
HYS ITC12-10	Seal Kit for 12 ton telescopic cylinder												



Emergency manual  
override feature

MODEL	DESCRIPTION
HYSLSV2-08-2NCP-M-ID	Manual override valve

## "Selected Power Units for Trailers"

MODEL	RECOMMENDED CAPACITY
HYSSE12H3GSMOR23-R2	7 ton
HYSSE12H5GSMOR23-R2	12 ton

ASK FOR HY-SPEC QUALITY

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## FRAME AND BOX BRACKETS - 7 TON & 12 TON



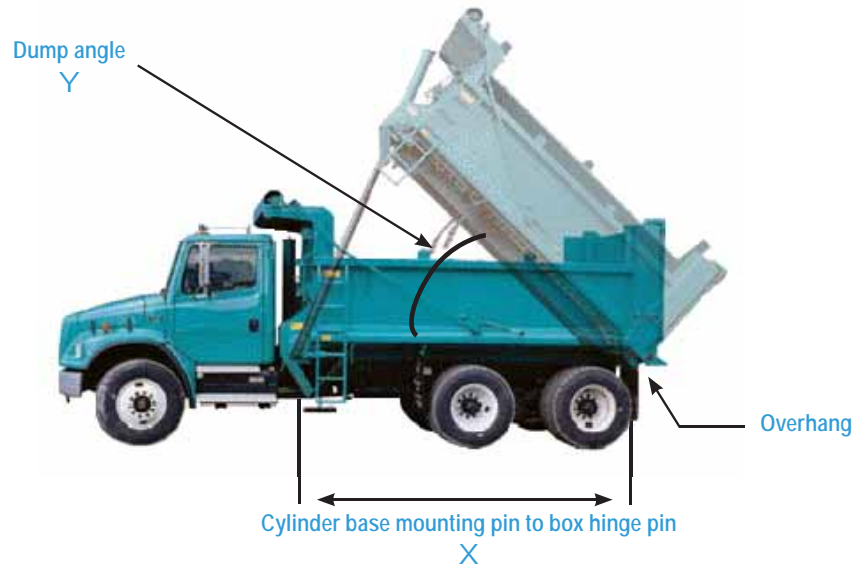
Box bracket



Frame bracket

PART #	DESCRIPTION
HYS 712-ITS-000-10	Frame bracket for 7 ton and 12 ton cylinder
HYS 007-ITS-000-10	Box bracket for 7 ton cylinder (2 required per cylinder)
HYS 012-ITS-000-10	Box bracket for 12 ton cylinder (2 required per cylinder)

## ITC TELESCOPIC CYLINDERS - DUMP ANGLE

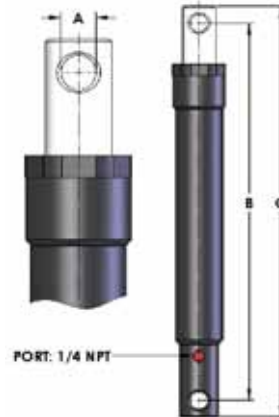


MODEL	X	Y	X	Y	X	Y
HYS07-ITC-078-3-10	9' 2"	42°	8' 6"	45°	8' 2"	47°
HYS07-ITC-090-3-10	10'	44°	9' 6"	46°	9'	49°
HYS07-ITC-108-3-10	12'	44°	11' 6"	46°	11'	48°
HYS07-ITC-120-3-10	13'	45°	12' 6"	47°	12'	49°
HYS12-ITC-078-3-10	9' 2"	42°	8' 6"	45°	8' 2"	47°
HYS12-ITC-090-3-10	10'	44°	9' 6"	46°	9'	49°
HYS12-ITC-108-3-10	12'	44°	11' 6"	46°	11'	48°
HYS12-ITC-120-3-10	13'	45°	12' 6"	47°	12'	49°

THE MAXIMUM ANGLE ALLOWED IS 50°

ASK FOR HY-SPEC QUALITY

Note actual products may differ from photos shown in this brochure.  
Product availability and specifications are subject to change without notice.

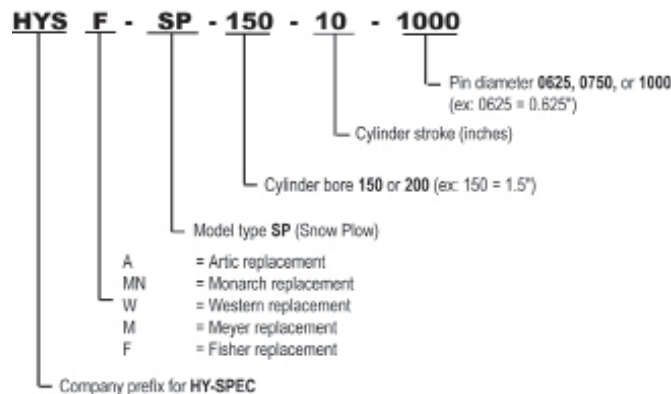


Dimensions in inches

MODEL	BORE X STROKE	Ø A PIN	B	C	WEIGHT (lb)
<b>Fisher Replacement</b>					
HYS F-SP-150-10-1000	1 1/2 X 10	1.000	18.750	20.500	15
HYS F-SP-150-12-1000	1 1/2 X 12	1.000	20.750	22.500	16
<b>Meyer Replacement</b>					
HYS M-SP-150-06-0625	1 1/2 X 6.375	0.625	12.000	13.375	10
HYS M-SP-150-10-0625	1 1/2 X 10.375	0.625	16.063	17.500	14
HYS M-SP-150-12-0625	1 1/2 X 12	0.625	18.000	19.375	15
HYS M-SP-200-06-0750	2 X 6	0.750	13.188	14.688	17
HYS M-SP-200-12-0625	2 X 12	0.625	18.000	19.375	24
<b>Western Replacement</b>					
HYS W-SP-150-06-0750	1 1/2 X 6.063	0.750	12.937	14.313	11
HYS W-SP-150-08-0750	1 1/2 X 8	0.750	15.250	16.625	12
HYS W-SP-150-10-0750	1 1/2 X 10	0.750	17.250	18.625	14
HYS W-SP-150-10-1000	1 1/2 X 10	1.000	17.000	18.500	14
HYS W-SP-200-10-1000	2 X 10	1.000	17.250	18.750	22
HYS W-SP-200-16-1000	2 X 16.375	1.000	23.625	25.125	31
<b>Monarch Replacement</b>					
HYS MN-SP-150-10-1000	1 1/2 X 10	1.000	17.000	18.625	14
HYS MN-SP-150-12-1000	1 1/2 X 12	1.000	19.000	20.625	15
<b>Artic Replacement</b>					
HYS A-SP-150-10-0750	1 1/2 X 10	0.750	17.000	18.500	14
HYS A-SP-150-12-0750	1 1/2 X 12	0.750	19.000	20.500	16



## MODEL NUMBER FOR SP



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## "Please contact us for all your special cylinder requirements"

Single acting



Special attachments



Molded attachments



By-pass manifolds

Rephasing cylinders



Cartridge valve cavities

Nitrated shafts



Trunnion mounts

Spherical rod ends



Special manifolds



Port tubes

Special heads



Multiple ports

Special rod ends



Please use the form on the next page

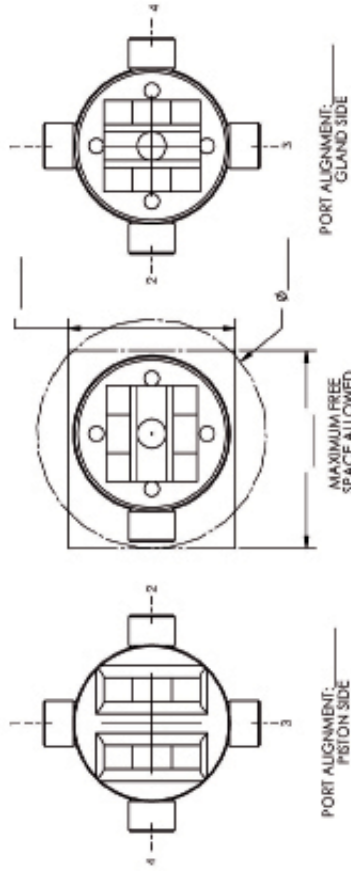
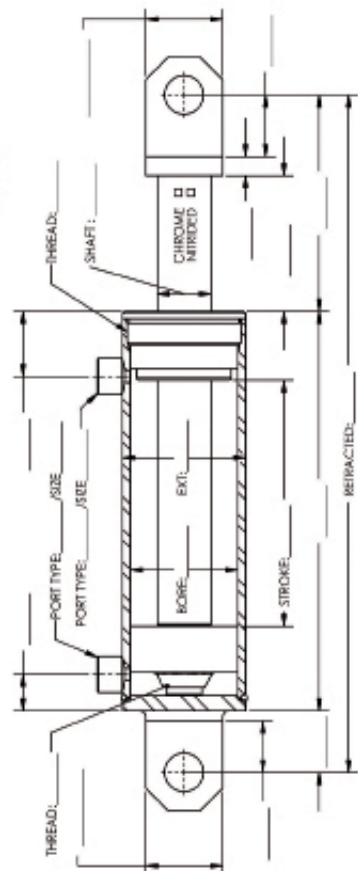
ASK FOR HY-SPEC QUALITY

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All fields must be filled

## NON-STANDARD CYLINDER ORDER FORM

INCH:   
METRIC:

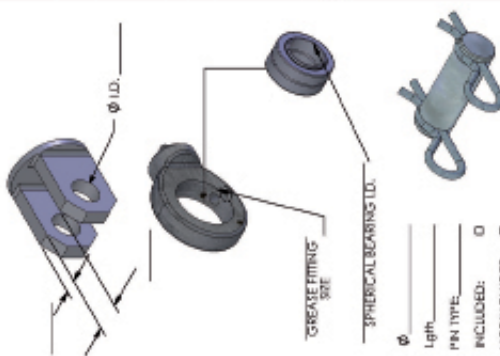
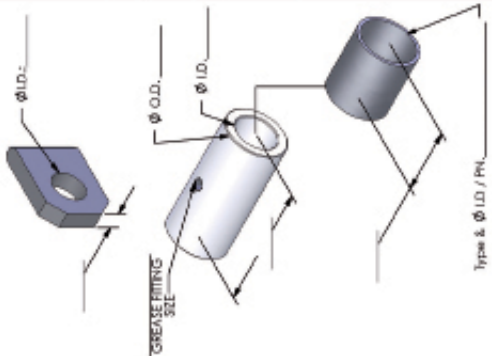


Single/Double acting: \_\_\_\_\_ Paint: \_\_\_\_\_ Sticker: \_\_\_\_\_ Stamp: \_\_\_\_\_

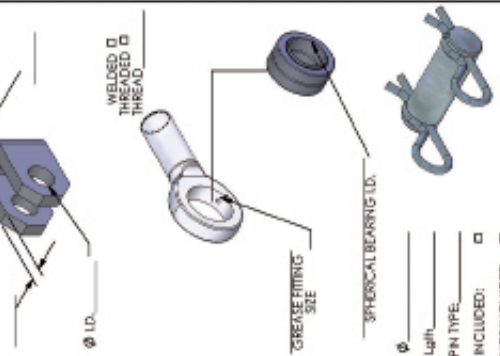
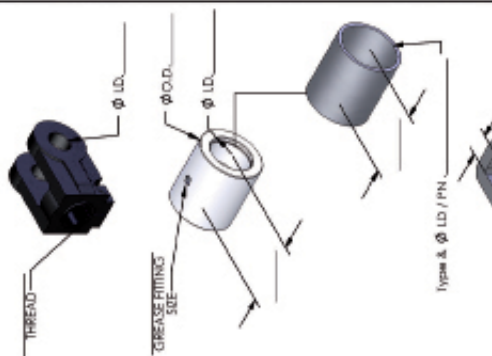
Application/Special request: \_\_\_\_\_

ANGLE: \_\_\_\_\_ Mounting position: \_\_\_\_\_

### TUBE ATTACHMENT



### ROD ATTACHMENT



Extension load: \_\_\_\_\_  
Retraction load: \_\_\_\_\_  
Load Holding req: \_\_\_\_\_  
Cycles / Hour: \_\_\_\_\_  
Oper. pressure: \_\_\_\_\_

Name: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Customer \_\_\_\_\_

Name: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Branch \_\_\_\_\_

Date: \_\_\_\_\_  
Client ref: \_\_\_\_\_  
Drawing ref: \_\_\_\_\_  
Quantity: \_\_\_\_\_  
Required date: \_\_\_\_\_  
Hy-Spec ref: \_\_\_\_\_



ASK FOR HY-SPEC QUALITY

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## HYDRAULIC PRODUCTS LIMITED WARRANTY

HY-SPEC HYDRAULIK, warrants its hydraulic products against defects in design, material and workmanship for a period of 12-months from the date of sale. HY-SPEC HYDRAULIK will replace any part of its products, free of charge, if after inspection by HY-SPEC HYDRAULIK the part is deemed a manufacturing defect.

This warranty does not apply to any product which has been subject to unauthorized modification, repair or alteration; an accident; improper operation or maintenance; abnormal conditions; or the wear from normal use.

HY-SPEC HYDRAULIK shall not be liable for loss of time, manufacturing costs, labour, transport, material, loss of profits, consequential damages (direct or indirect), as a result of defective products.

HY-SPEC HYDRAULIK's responsibility will be limited to the repair or replacement of the defective product or the reimbursement of the price paid at the time it was ordered.

Any warranty claim must be presented within 30 days of the manufacturing defect discovery. Shipping return charges are at the customer's expense.

# HY-SPEC

HYDRAULIK

HY-SPEC HYDRAULIK specializes in the import and export of a wide range of high quality hydraulic components such as: utility cylinders, agricultural and telescopic; directional control valves; gas engines; gauges and much more.

The HY-SPEC brand name stands for high quality hydraulic components. These products, sourced from around the world, are manufactured to our High Specifications, which are established by our in house engineering department.

The HY-SPEC team members have been chosen for their experience and are trained to give courteous and efficient service, which you can depend on. Their experience totals over 100 years in the hydraulic industry. They work closely with our customers to provide the best solution for the application.



*Agricultural equipment*



*Mobile equipment*

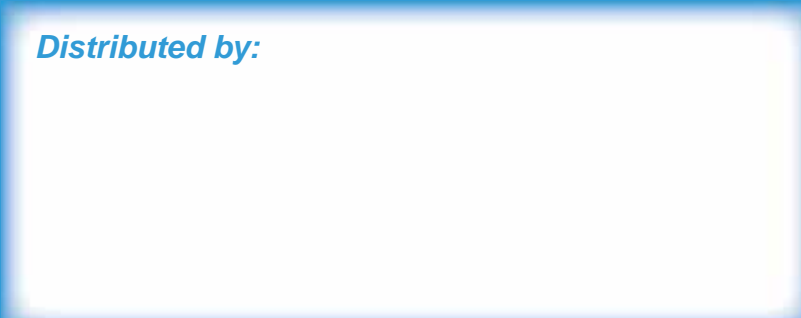


*Forestry equipment*



*Construction equipment*

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