

HY-SPEC
HYDRAULIK

Hydraulic Cylinders

Catalogue

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HY-SPEC PRODUCT FAMILY

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HY-SPEC HYDRAULIK

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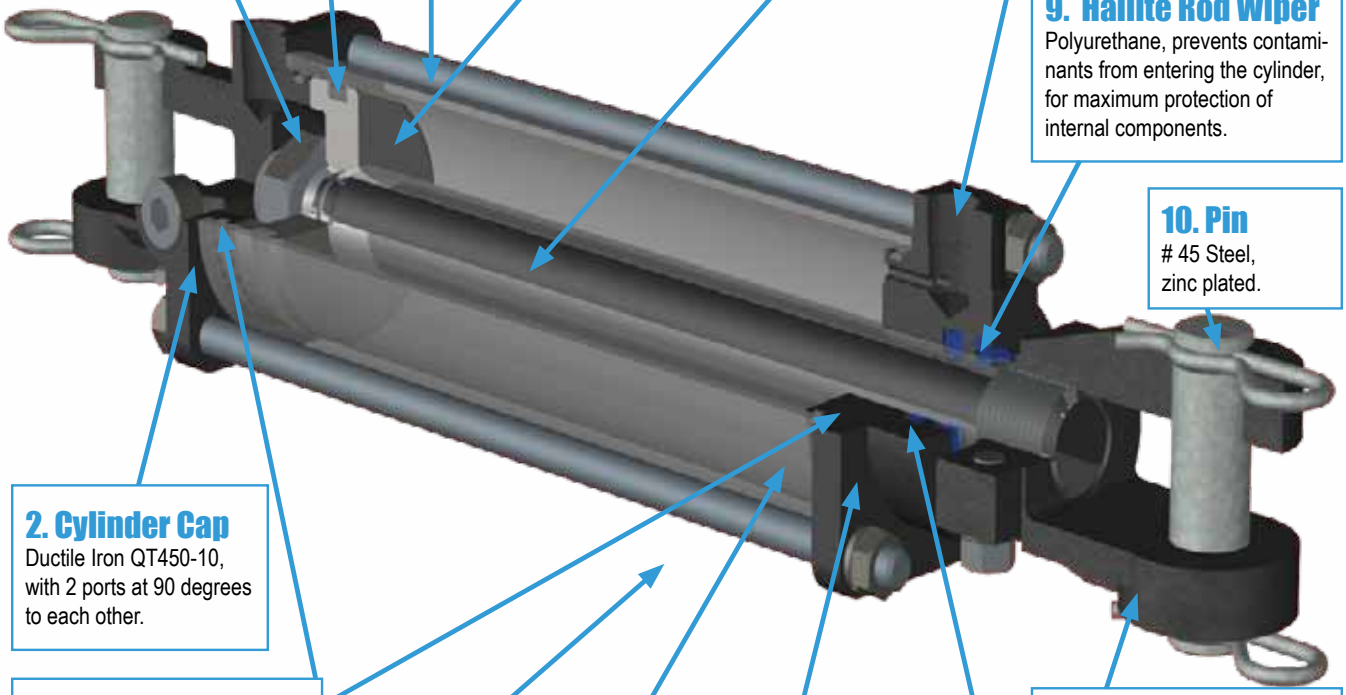
HY-SPEC HYDRAULIK

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AGU Series - Tie Rod Type Hydraulic Cylinders



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.

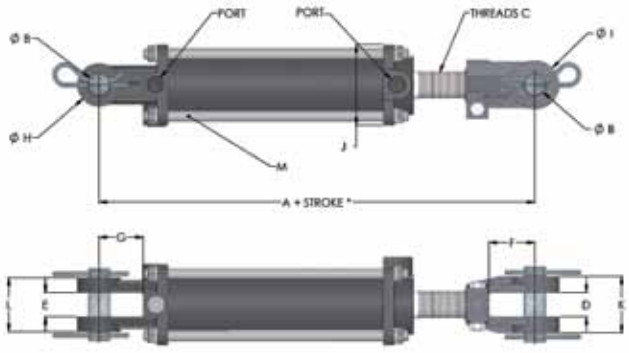
14. Tube
20 Steel, with a micro-honed finish.

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.

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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

HYS 20 AGU XX - (ASAE) - 10

- **HYS** — Company prefix for **HY-SPEC**
- **20** — Cylinder bore **20, 25, 30, 35** or **40** (ex. 20 = 2.0")
- **AGU** — Model type **AGU**
- **XX** — Cylinder stroke (inches)
- **(ASAE)** — ASAE = longer rod extension than standard cylinder
- **10** — Design number

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

AGU Series - Model Codes

	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		14 1/4	18 1/4		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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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		2000	44	
*	HYS 35AGU16-ASAE-10	3 1/2 X 16		31 1/2	47 1/2		1600	45	
	HYS 35AGU18-10	3 1/2 X 18		28 1/4	46 1/4		1700	47	
	HYS 35AGU20-10	3 1/2 X 20		30 1/4	50 1/4		1400	50	
	HYS 35AGU24-10	3 1/2 X 24	1-1/2	34 1/4	58 1/4		2200	59	HYS AGU 351500-10
	HYS 35AGU30-10	3 1/2 X 30		40 1/4	70 1/4		1500	68	
*	HYS 35AGU36-10	3 1/2 X 36		46 1/4	82 1/4		1100	76	
*	HYS 40AGU04-10	4 X 4	1-1/4	14 1/4	18 1/4		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		2400	45	
	HYS 40AGU14-10	4 X 14		24 1/4	38 1/4		1900	48	
	HYS 40AGU16-10	4 X 16		26 1/4	42 1/4		1600	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			57	HYS AGU 401500-10
	HYS 40AGU20-10	4 X 20		30 1/4	50 1/4		2300	60	
	HYS 40AGU24-150-10	4 X 24		34 1/4	58 1/4		1700	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.

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.

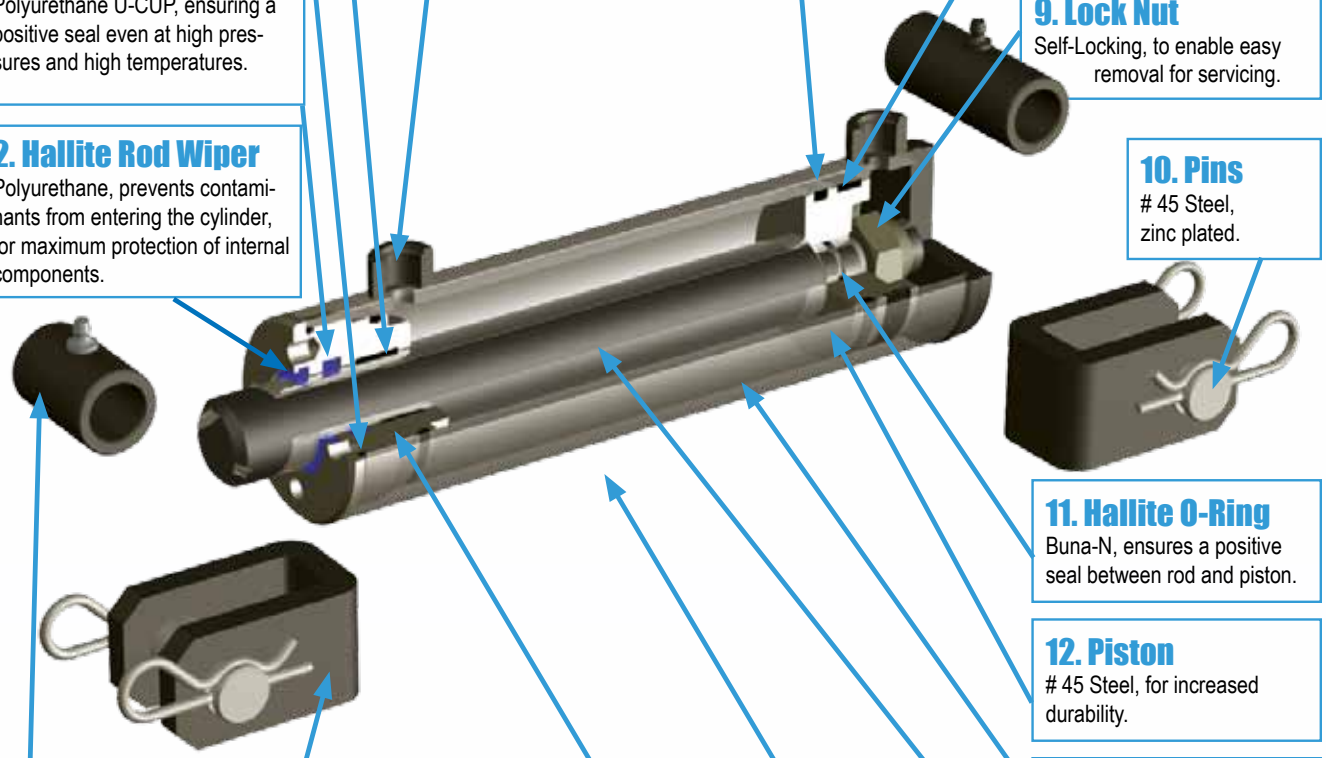
4. Hallite O-Ring
Buna-N, protects threads from moisture and corrosion.

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.

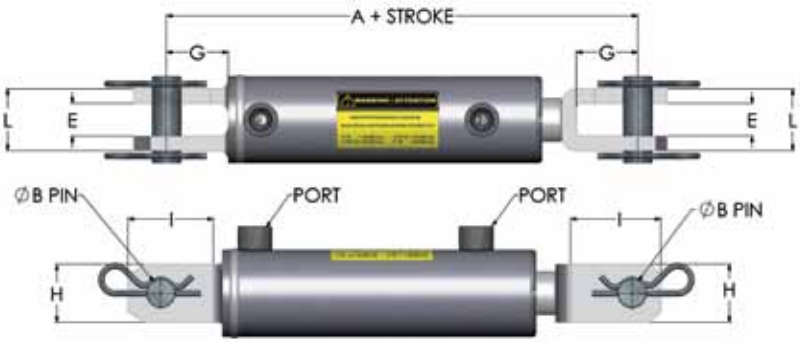
16. Cylinder Head
45 Steel, with 25% longer thread for increased strength. Threaded design ensures easy disassembly to allow for quick seal replacement.

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.

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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

HYS 25 FEM XX - (200) - (ASAE) - 10

- **HYS** — Company prefix for **HY-SPEC**
- **25** — Cylinder bore **20, 25, 30, 35, 40** or **50** (ex. 20 = 2.0")
- **FEM** — Model type **FEM**
- **XX** — Cylinder stroke (inches)
- **(200)** — Rod diameter if non-standard (ex: 200 = 2.0")
- **(ASAE)** — **ASAE** = longer rod extension than standard cylinder
- **10** — Design number

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

FEM Series - Model Codes

	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	1	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		2600	35	
	HYS 20FEM30-10	2 X 30			40 1/4	70 1/4		2300	37	
	HYS 20FEM32-10	2 X 32			42 1/4	74 1/4		2000	38	
*	HYS 20FEM34-10	2 X 34			44 1/4	78 1/4		1800	40	
	HYS 20FEM36-10	2 X 36			46 1/4	82 1/4		1600	42	
	HYS 25FEM04-10	2 1/2 X 4	1-1/2		14 1/4	18 1/4	SAE-8	3000	18	HYS MF 251500-10
	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		2700	49	
	HYS 25FEM34-10	2 1/2 X 34			44 1/4	78 1/4		2400	51	
	HYS 25FEM36-10	2 1/2 X 36			46 1/4	82 1/4		2200	54	
	HYS 30FEM04-10	3 X 4			14 1/4	18 1/4		3000	21	HYS MF 301500-10
	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		2400	51	
	HYS 30FEM30-10	3 X 30			40 1/4	70 1/4		2100	53	
	HYS 30FEM32-10	3 X 32			42 1/4	74 1/4		1900	56	
	HYS 30FEM34-10	3 X 34			44 1/4	78 1/4		1700	58	
	HYS 30FEM36-10	3 X 36			46 1/4	82 1/4		1500	61	

*Stocked in limited quantity.

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FEM Series - Model Codes

	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	HYS MF 351750-10
*	HYS 35FEM30-10	3 1/2 X 30			40 1/4	70 1/4		2900	71	
*	HYS 35FEM32-10	3 1/2 X 32			42 1/4	74 1/4		2600	74	
*	HYS 35FEM34-10	3 1/2 X 34			44 1/4	78 1/4		2300	77	
	HYS 35FEM36-10	3 1/2 X 36			46 1/4	82 1/4		2100	80	
	HYS 40FEM04-10	4 X 4	2	1 & 1-1/2	14 1/4	18 1/4		3000	46	HYS MF 402000-10
	HYS 40FEM06-10	4 X 6			16 1/4	22 1/4			51	
	HYS 40FEM08-10	4 X 8			18 1/4	26 1/4			55	
*	HYS 40FEM08-ASAE-10	4 X 8			20 1/4	28 1/4			57	
	HYS 40FEM10-10	4 X 10			20 1/4	30 1/4			59	
	HYS 40FEM12-10	4 X 12			22 1/4	34 1/4			63	
	HYS 40FEM14-10	4 X 14			24 1/4	38 1/4			67	
	HYS 40FEM16-10	4 X 16			26 1/4	42 1/4			72	
*	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			76	
	HYS 40FEM20-10	4 X 20			30 1/4	50 1/4			80	
	HYS 40FEM24-10	4 X 24			34 1/4	58 1/4			88	
	HYS 40FEM28-10	4 X 28			38 1/4	66 1/4			97	
	HYS 40FEM30-10	4 X 30			40 1/4	70 1/4			101	
	HYS 40FEM32-10	4 X 32			42 1/4	74 1/4			105	
*	HYS 40FEM34-10	4 X 34			44 1/4	78 1/4			109	
	HYS 40FEM36-10	4 X 36			46 1/4	82 1/4		2700	113	
*	HYS 50FEM04-10	5 X 4	2-1/2	1-1/2 & 2	19 3/4	23 3/4	SAE-12	3000	95	HYS MF 502500-10
	HYS 50FEM06-10	5 X 6			21 3/4	27 3/4			102	
	HYS 50FEM08-10	5 X 8			23 3/4	31 3/4			108	
*	HYS 50FEM10-10	5 X 10			25 3/4	35 3/4			114	
	HYS 50FEM12-10	5 X 12			27 3/4	39 3/4			121	
*	HYS 50FEM14-10	5 X 14			29 3/4	43 3/4			127	
*	HYS 50FEM16-10	5 X 16			31 3/4	47 3/4			134	
	HYS 50FEM18-10	5 X 18			33 3/4	51 3/4			140	
	HYS 50FEM20-10	5 X 20			35 3/4	55 3/4			146	
	HYS 50FEM24-10	5 X 24			39 3/4	63 3/4			159	
	HYS 50FEM28-10	5 X 28			43 3/4	71 3/4			172	
	HYS 50FEM30-10	5 X 30			45 3/4	75 3/4			178	
	HYS 50FEM32-10	5 X 32			47 3/4	79 3/4			185	
*	HYS 50FEM36-10	5 X 36			51 3/4	87 3/4			197	

*Stocked in limited quantity.





Operating pressure: 3000 PSI

100% PRESSURE TESTED

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	2540	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

HYS 15 MAL XX - 10

- **10** — Design number
- **XX** — Cylinder stroke (inches)
- **MAL** — Model type **MAL**
- **15** — Cylinder bore **15, 20, 25, 30, 35, 40** or **50** (ex. 15 = 1.5", only available for MAL series)
- **HYS** — Company prefix for **HY-SPEC**

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 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	1	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		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	

MALSeries - Model Codes

	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		2500	48	
	HYS 30MAL30-10	3 X 30			38	68		2200	50	
	HYS 30MAL32-10	3 X 32			40	72		2000	53	
	HYS 30MAL36-10	3 X 36			44	80		1600	58	
	HYS 30MAL40-10	3 X 40			48	88		1300	63	
	HYS 30MAL48-10	3 X 48			56	104		950	73	
	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		2900	66	
	HYS 35MAL32-10	3 1/2 X 32			42	74		2600	69	
	HYS 35MAL36-10	3 1/2 X 36			46	82		2100	75	
	HYS 35MAL40-10	3 1/2 X 40			50	90		1700	81	
	HYS 35MAL48-10	3 1/2 X 48			58	106		1200	93	
	HYS 40MAL08-10	4 X 8	2	1-1/2	18	26	SAE-8	3000	46	HYS MF 402000-10
	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		2700	105	
	HYS 40MAL40-10	4 X 40			50	90		2300	113	
	HYS 40MAL48-10	4 X 48			58	106		1600	130	

*Stocked in limited quantity.

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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		2500	210	

*Stocked in limited quantity.

CYLINDER PARTS & ACCESSORIES



PIN ONLY



PIN & BUSHING KIT



FEMALE CLEVIS



STROKE LIMITERS

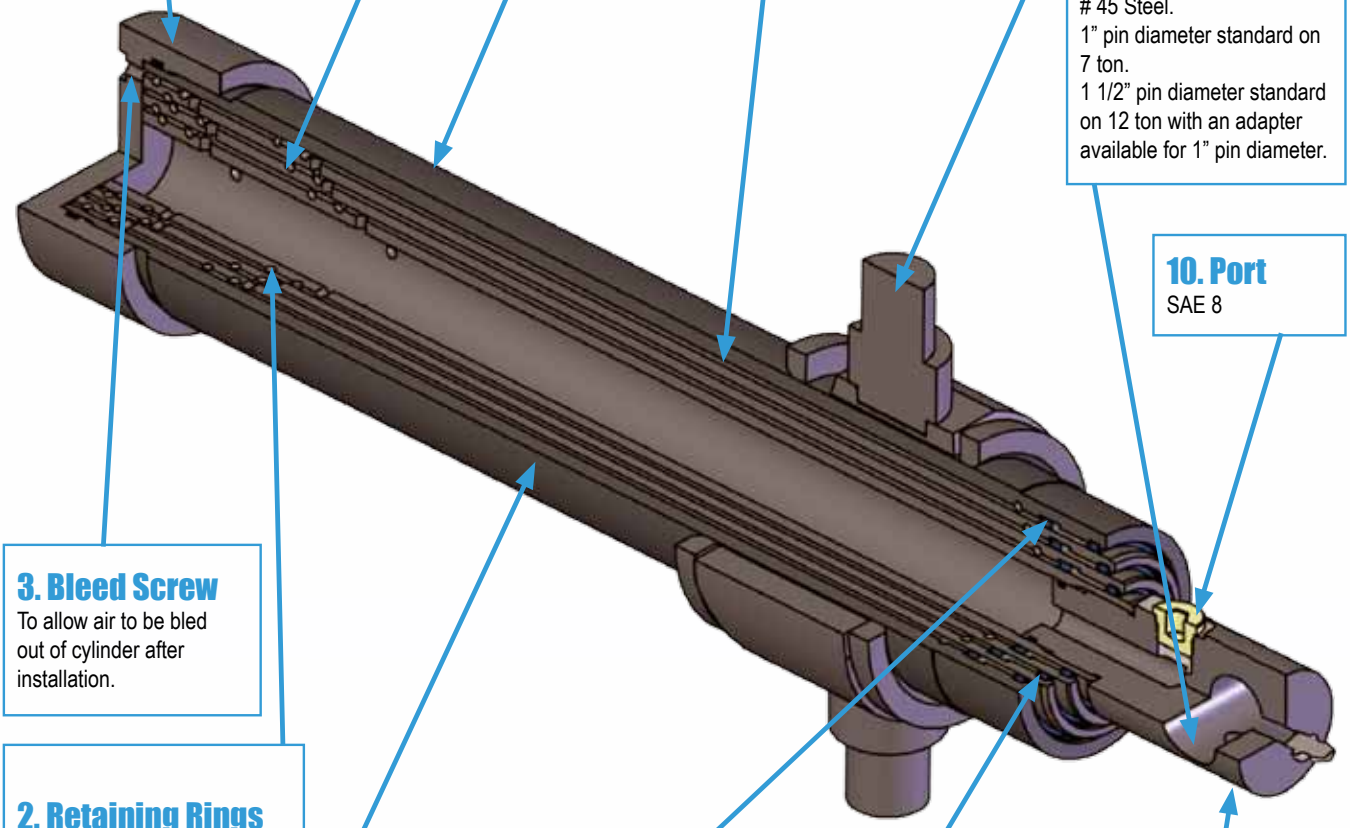
Dimensions in inches

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



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.

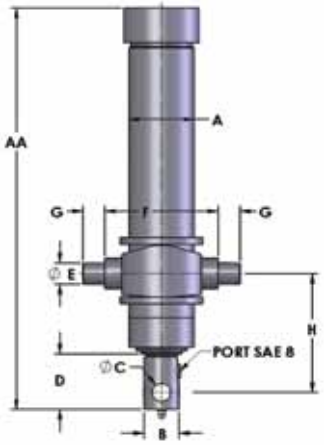
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Power Pack
See page 18



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	81
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	88
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	104
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	114.00
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												

FRAME AND BOX BRACKETS - 7 TON & 12 TON



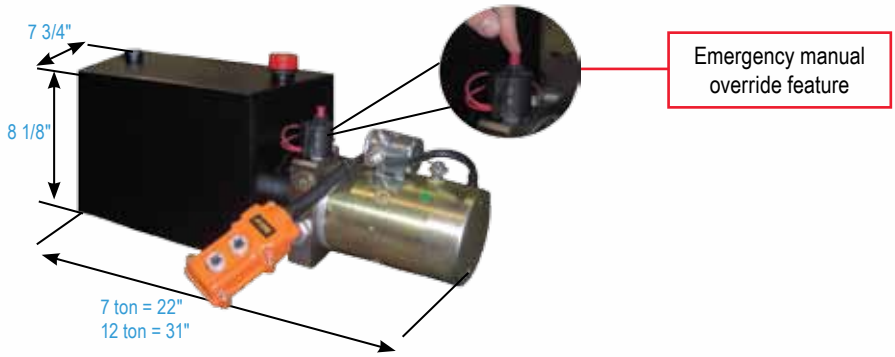
Box bracket



Frame bracket

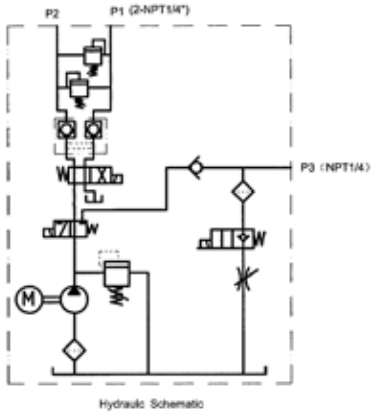
PART #	DESCRIPTION
HYS 712-ITS-000-10	Frame bracket for 7 ton and 12 ton cylinder
HYS 007-ITS-000-10	Box bracket for 7 ton cylinder (2 required per cylinder)
HYS 012-ITS-000-10	Box bracket for 12 ton cylinder (2 required per cylinder)

POWER PACK FOR TRAILER APPLICATION	
MODEL	DESCRIPTION
HYSSE12H3GSMOR23-R2	Dump Trailer power pack - 7 ton
HYSSE12H5GSMOR23-R2	Dump Trailer power pack - 12 ton
HYSLSV2-08-2NCP-M-ID	2 Position - 2 Way cartridge valve with manual override



POWER PACK FOR SNOWPLOW	
MODEL	DESCRIPTION
HYS YBZ-F2.1S1W14/WUAAT1	Snow plow power pack





WIRELESS REMOTE CONTROL				
MODEL	DESCRIPTION	OPERATING VOLTAGE	MAXIMUM CURRENT	OPERATING TEMPERATURE
HYS GS-HYD-D7	Wireless remote control	+9 V DC to +28V DC	10 Amps DC Max	-40 C to +125 C



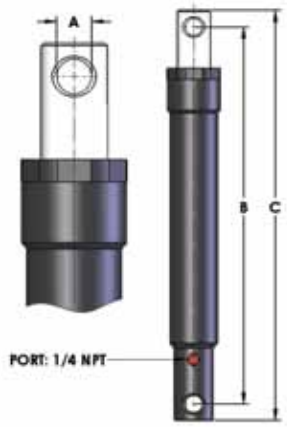
Features and Benefits

- Can handle 12 or 24 volt dc.
- Potted for protection!
- Installation wires instead of terminals
- Learning transmitter!
- 3-minute automatic time-out feature
- In-line fuse already installed!
- Back-up manual switches on receiver
- On/off switch on transm. & receiver!
- Can still use the tethered remote

Note: For more power pack model & option, please refer to our AC/DC power packs catalogue

ASK FOR HY-SPEC QUALITY
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Product availability and specifications are subject to change without notice.



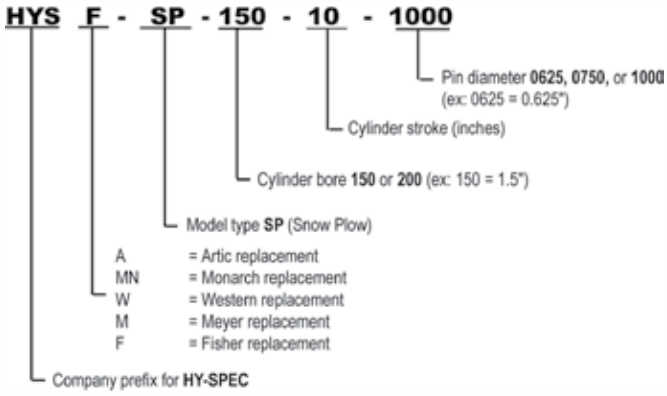


Dimensions in inches

MODEL	BORE X STROKE	Ø A PIN	B	C	WEIGHT (lb)
Fisher Replacement					
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
Meyer Replacement					
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
Western Replacement					
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
Monarch Replacement					
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
Artic Replacement					
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



"Contact us for all your special cylinder requirements"

Single acting

Special attachements

Molded attachments

By-pass manifolds

Rephasing cylinders

Cartridge valve cavities

Nitrated shafts

Trunnion mounts

Spherical rod ends

Port tubes

Special manifolds

Special heads

Multiple ports

Special rod ends



Use the form on the next page

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www.Hy-spec.com

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Product availability and specifications are subject to change without notice.

Non-Standard Cylinder - Order Form

All fields must be filled

NON-STANDARD CYLINDER ORDER FORM

INCH: ☐
METRIC: ☐

Single/Double acting:_____ Paint:_____ Sticker:_____ Stamp:_____

Application/Special request:

Mounting position

TUBE ATTACHMENT

ROD ATTACHMENT

Customer

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

Branch

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

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

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

HY-SPEC

Notes

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HY-SPEC HYDRAULIK

HYDRAULIC AND GAS ENGINE 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.

HY-SPEC HYDRAULIK, WARRANTS ITS GAS ENGINE PRODUCTS AGAINST DEFECTS IN DESIGN, MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FROM THE DATE OF SALE:

- 12 MONTHS : CONSUMER USE**
- 3 MONTHS : COMMERCIAL USE***

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.

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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.

** CONSUMER USE MEANS PERSONAL USE BY A CONSUMER.
*** COMMERCIAL USE MEANS ALL OTHERS USERS, INCLUDING COMMERCIAL, INCOME GENERATING OR RENTAL.

HY-SPEC HYDRAULIK

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