

WHIP CHECKS

Hoses can whip if they become accidentally uncoupled or tear away from the fitting. Whipchecks act to control whipping in the event of a failure. Spring-loaded loops in the cable ends open easily to pass over the couplings, for a firm grip on the hose. **To function properly, restraint cables must be installed in a fully extended position with no slack. Maximum working pressure is 200 PSI.**



Hose End

Hose End

Part Number	Length	Hose-to-Hose
WHIP-S	20"	1/8" cable for 1/2" to 1 1/4" hose-to-hose
WHIP-L	38"	1/4" cable for 1 1/2" to 3" hose-to-hose
WA-4	44"	3/8" cable for 4" hose-to-hose

Correct Installation



Hose End

Tool End

Part Number	Hose-to-Hose
WHIP-ST	1/8" cable for 1/2" to 1 1/4" hose-to-tool
WHIP-LT	1/4" cable for 1 1/2" to 3" hose-to-tool

Incorrect Installation



WHIPSOCK



Part Number	Size	OD Range	Length	Average Break Strength
	in			
KSW12	3/4	0.75" - 1.13"	25.2"	6,200 lbs
KSW16	1	1.13" - 1.50"	34.3"	14,000 lbs
KSW24	1-1/2	1.88" - 2.38"	49.2"	23,000 lbs
KSW32	2	2.38" - 2.75"	51.2"	23,000 lbs
KSW48	3	3.38" - 3.88"	72.4"	26,000 lbs
KSW64	4	4.75" - 5.50"	86.6"	34,000 lbs

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories

NYLON WHIP CHECKS

Help protect your workers from injury and your equipment from damage

To reduce damage to equipment and injury to personnel when pipes or hoses accidentally disconnect while under pressure. Suitable for use on pneumatic, water and hydraulic pipes and hoses. Slide the two rubber grommets to keep choked eyes snug on the hose. The available standard lengths will accommodate pipes and hoses with inside diameters from 1/4" up to 10". Meets both OSHA and Canada OHS requirements for restraining devices on pipe and hose connections.

Available in Four Different Strengths

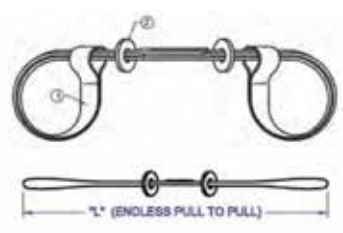


HH230



HH430

OSHA 1926.603(a)(10) states: Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected.



Part Number	Length (L)	Maximum Working Pressure (PSI)									
		Recommended for Use on the Following Pipe and Hose Inside Diameters									
		1/4"	1/2"	3/4"	1"	2"	3"	4"	6"	8"	10"
HH130	30"	26,000	6,500	2,900	1,650	400	-	-	-	-	-
HH140	40"	-	-	-	1,650	400	175	100	-	-	-
HH230	30"	52,000	13,000	6,800	3,300	750	-	-	-	-	-
HH244	44"	-	-	-	3,300	750	350	200	-	-	-
HH264	64"	-	-	-	-	750	350	200	90	-	-
HH330	30"	-	29,000	13,000	7,300	1,800	-	-	-	-	-
HH344	44"	-	-	-	7,300	1,800	820	460	-	-	-
HH364	64"	-	-	-	-	1,800	820	460	200	-	-
HH430	30"	-	37,000	16,000	9,400	2,300	-	-	-	-	-
HH444	44"	-	-	-	9,400	2,300	1,040	580	-	-	-
HH464	64"	-	-	-	-	2,300	1,040	580	260	-	-

Round Nylon Whipcheck											
HHS9X8.000	96"	-	-	-	-	-	-	-	-	290	-
HHS12X8.000	96"	-	-	-	-	-	-	-	-	370	230
HHS12X9.500	114"	-	-	-	-	-	-	-	-	370	230

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

SAFETY BLOW GUNS



Part Number	PSI
BG100	150

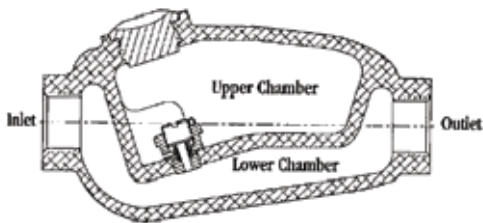
PISTOL GRIP

Part Number	PSI
BG200	150



IN LINE LUBRICATORS

Air entering the inlet pressurizes both the lower and upper chamber. When the tool reciprocates, there is a sudden pressure drop in the lower chamber. When this occurs, the oil is forced through the valve into the air stream. The amount of oil injected is adjusted by opening or closing the metering valve. Pooling of oil in the line after use can be reduced by turning the unit upside down after shutdown. This allows the pressure in the two chambers to equalize thus eliminating the pressure differential causing the oil flow. Installation is recommended within 25 feet of the tool to be lubricated. Minimum flow rate is 30 SCFM.



In-line lubricator has a fill plug and sight disc.

Part Number	NPT Size	Oil Capacity	MAX WP	Air Flow
	in		PSIG	@ 70 PSI
PL-050	½	1.4 FL. OZ.	500	30 SCFM
PL-075	¾	3.7 FL. OZ.	200	70 SCFM
PL-075L	¾	11.0 FL. OZ.	300	70 SCFM
PL-100	1	16.0 FL. OZ.	250	100 SCFM

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories

HOSE HANDLE CLAMPS

The hose handle allows for easier movement in the field and increased efficiency with the capability to move two hoses at a time.

Temperatures: -40°C to +50°C (-40°F to +122°F).

Reversible Handle



Part Number	Hose Size
	in
HC-300-H	3
HC-400-H	4
HC-600-H	6
HC-800-H	8

HOSEBUN™

Hosebuns are designed to properly suspend hose and to maintain bend radius and keep the hose from kinking.



Hosebuns are used in the oil & gas, hydraulic, marine, ship-to-shore, gas stations and in mobile equipment industries.

Material: Urethane

Temperature: -35°C to 13°C (-31°C to 200°F)

Part Number	Hose Size	Length in	Package Weight lbs	Sling Height	Sling Type	Rated Capacity
	in			in		lbs
HB-200	2	18.00	4.00	7.25	D-Ring	800
HB-300	3	12.75	4.25	8.50	D-Ring	800
HB-400	4	11.50	5.00	8.00	D-Ring	800
HB-600	6	21.50	16.00	22.50	Type 4 Hook Eye	8,000
HB-800	8	30.50	35.00	18.00	Type 4 Hook Eye	12,000

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

HOSE PROTECTOR

- Protects hose from abrasion.
- Material grooves prevent the slipping and wear of cable ties.
- Used on hydraulic and fuel hoses.
- Easy to assemble and move.

Part Number		Length
Black	Yellow	in
HP4B	HP4Y	4
HP6B	HP6Y	6
HP8B	HP8Y	8
HP10B	HP10Y	10
HP12B	HP12Y	12



BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories

DRY STABILIZER GAUGES - VIBRATION CONTROL



2-1/2" Dry Stabilizer Gauge

A stabilizer dampened movement that eliminates pointer flutter caused by vibration. This makes pressure reading much easier. No more leaky gauges. Won't fog in cold temperatures.

- Stainless steel case
- Brass internals
- +1.5% accuracy
- -20°C to 65°C (-4°F to 150°F)

Range	2-1/2" Dial 1/4" Lower Mount	2-1/2" Dial 1/4" Center Back
30" - 0 - 30 psi	PGCD2.5-30/30LM	PGCD2.5-30/30CB
0 - 15 psi	PGDS2.5-15LM	PGDS2.5-15CB
0 - 30 psi	PGDS2.5-30LM	PGDS2.5-30CB
0 - 60 psi	PGDS2.5-60LM	PGDS2.5-60CB
0 - 100 psi	PGDS2.5-100LM	PGDS2.5-100CB
0 - 160 psi	PGDS2.5-160LM	PGDS2.5-160CB
0 - 200 psi	PGDS2.5-200LM	PGDS2.5-200CB
0 - 300 psi	PGDS2.5-300LM	PGDS2.5-300CB
0 - 600 psi	PGDS2.5-600LM	PGDS2.5-600CB
0 - 1,000 psi	PGDS2.5-1000LM	PGDS2.5-1000CB
0 - 3,000 psi	PGDS2.5-3000LM	PGDS2.5-3000CB
0 - 5,000 psi	PGDS2.5-5000LM	PGDS2.5-5000CB
0 - 10,000 psi	PGDS2.5-10000LM	PGDS2.5-10000CB

DRY GAUGE - STANDARD



1-1/2" Dry Gauge

- Stainless steel case
- Brass internals
- +1.5% accuracy
- -20°C to 65°C (-4°F to 150°F)

Range	1-1/2" Dial 1/4" Center Back
0 - 30 psi	PGD1.5-30CB
0 - 60 psi	PGD1.5-60CB
0 - 100 psi	PGD1.5-100CB
0 - 160 psi	PGD1.5-160CB
0 - 200 psi	PGD1.5-200CB

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

LIQUID FILLED GAUGES



2-1/2" Stainless Steel Liquid Filled Gauge

- Stainless steel case
- Glycerin filled
- Brass internals
- +1.5% accuracy
- - 20°C to 65°C (-4°F to 150°F)

Range	2-1/2" Dial 1/4" Lower Mount	2-1/2" Dial 1/4" Center Back
30" - 0 - 30 psi	PGCL2.5-30/30LM	PGCL2.5-30/30CB
0 - 15 psi	PGL2.5-15LM	PGL2.5-15CB
0 - 30 psi	PGL2.5-30LM	PGL2.5-30CB
0 - 60 psi	PGL2.5-60LM	PGL2.5-60CB
0 - 100 psi	PGL2.5-100LM	PGL2.5-100CB
0 - 160 psi	PGL2.5-160LM	PGL2.5-160CB
0 - 200 psi	PGL2.5-200LM	PGL2.5-200CB
0 - 300 psi	PGL2.5-300LM	PGL2.5-300CB
0 - 600 psi	PGL2.5-600LM	PGL2.5-600CB
0 - 1,000 psi	PGL2.5-1000LM	PGL2.5-1000CB
0 - 1,500 psi	PGL2.5-1500LM	PGL2.5-1500CB
0 - 2,000 psi	PGL2.5-2000LM	PGL2.5-2000CB
0 - 3,000 psi	PGL2.5-3000LM	PGL2.5-3000CB
0 - 5,000 psi	PGL2.5-5000LM	PGL2.5-5000CB
0 - 6,000 psi	PGL2.5-6000LM	PGL2.5-6000CB
0 - 10,000 psi	PGL2.5-10000LM	PGL2.5-10000CB

GAUGE ACCESSORIES



Part Number	Description
PGL2.5-UC	2-1/2" U-Clamp
PGL2.5-FF	2-1/2" Panel Mount

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories

LIQUID FILLED GAUGES



4" Stainless Steel Liquid Filled Gauge

- Stainless steel case
- Glycerin filled
- Brass internals
- +1.5% accuracy
- - 20°C to 65°C (-4°F to 150°F)

Range	4" Dial ½" Lower Mount
30" - 0 - 30 psi	PGL4-30/30LM12
0 - 100 psi	PGL4-100LM12
0 - 160 psi	PGL4-160LM12
0 - 200 psi	PGL4-200LM12
0 - 300 psi	PGL4-300LM12
0 - 600 psi	PGL4-600LM12
0 - 1,000 psi	PGL4-1000LM12
0 - 1,500 psi	PGL4-1500LM12
0 - 2,000 psi	PGL4-2000LM12
0 - 3,000 psi	PGL4-3000LM12
0 - 5,000 psi	PGL4-5000LM12
0 - 10,000 psi	PGL4-10000LM12
0 - 15,000 psi	PGL4-15000LM12
0 - 5,000 psi	PGL4-5000LMSS12

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

DIGITAL PRESSURE GAUGES



Range	2-½" Dial ¼" Lower Mount
0-1450PSI	PG-Digital-0-100BAR
0-8700PSI	PG-Digital-0-600BAR

2-½" Digital Pressure Gauge

- Simple 2 button operation
- Reset to zero feature
- Backlight turns on when on/off button is pressured
- Option for display to remain continuously on
- ASME B40.100 compliant
- Continuous peak pressure indication option
- ±1% accuracy (±0.5% optional for gauges up to 10,000 PSI)
- -10°C to 50°C (14°F to 122°F)

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories

NYLON SLEEVING



- High abrasion resistance
- Resistant to water, oil and hydraulic fluids
- Useful for bundling 2 or more hoses
- MSHA approved flame resistant
- Temperature range: -40°C to 125°C (-40°F to 250°F)

Part Number	Flat Width	Round ID	Standard Pack
	in	in	ft
NS-077	1.38	0.77	300
NS-090	1.59	0.90	300
NS-100	1.66	1.00	300
NS-114	1.81	1.14	300
NS-122	2.05	1.22	300
NS-138	2.36	1.38	300
NS-159	2.64	1.59	300
NS-181	2.87	1.81	300
NS-219	3.58	2.19	300
NS-238	3.94	2.38	300
NS-263	4.21	2.63	300
NS-296	4.96	2.96	300
NS-366	5.81	3.66	300

NYLON SLEEVE - VELCRO



Part Number	Flat Width	Round ID	Standard Pack
	in	in	ft
NSV-200B	7.75	2.00	150
NSV-300B	10.90	3.00	150
NSV-400B	14.00	4.00	150
NSV-500B	17.25	5.00	150
NSV-600B	20.38	6.00	150
NSV-700B	23.50	7.00	150
NSV-800B	26.62	8.00	150

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

PLASTIC WRAP - MEDIUM DUTY



- Ideal for abrasion protection or bundling hose assemblies
- Resistant to water, oil and fuels
- Temperature Range: -50°C to 77°C (-58°F to 170°F)

Black Part Number	Yellow Part Number	ID	Wall Thickness	Length
		in	in	ft
PWMD-040B	PWMD-040Y	0.40	0.06	100
PWMD-050B	PWMD-050Y	0.50	0.06	100
PWMD-065B	PWMD-065Y	0.65	0.08	100
PWMD-080B	PWMD-080Y	0.80	0.09	100
PWMD-110B	PWMD-110Y	1.10	0.09	100
PWMD-140B	PWMD-140Y	1.40	0.10	100
PWMD-170B	PWMD-170Y	1.70	0.14	100
PWMD-200B	PWMD-200Y	2.00	0.14	100
PWMD-240B	PWMD-240Y	2.40	0.16	50
PWMD-290B	PWMD-290Y	2.90	0.16	50
PWMD-350B	PWMD-350Y	3.50	0.18	50
PWMD-390B	PWMD-390Y	3.90	0.18	50

* Yellow is non stock.

PLASTIC WRAP - HEAVY DUTY



- Ideal for abrasion protection or bundling hose assemblies
- Resistant to water, oil and fuels
- Temperature range: -50°C to 77°C (-58°F to 170°F)

Black Part Number	Yellow Part Number	ID	Wall Thickness	Length
		in	in	ft
PWHD-050B	PW-050Y	0.50	0.07	100
PWHD-075B	PW-075Y	0.75	0.12	100
PWHD-100B	PW-100Y	1.00	0.12	100
PWHD-125B	PW-125Y	1.25	0.13	100
PWHD-150B	PW-150Y	1.50	0.14	100
PWHD-200B	PW-200Y	2.00	0.16	100
PWHD-250B	PW-250Y	2.50	0.21	50
PWHD-300B	PW-300Y	3.00	0.22	35
PWHD-350B	PW-350Y	3.50	0.25	25
PWHD-400B	PW-400Y	4.00	0.25	20
PWHD-600B	PW-600Y	6.00	0.25	15

* Yellow is non stock.

Accessories

TUBE CLAMPS - STANDARD



STANDARD



TWIN STANDARD

Group	Hole Size		Pipe Size	Tube OD	Standard Clamps	
	in	mm			Standard	Twin Standard
1	0.25	6.4	1/8"	1/4"	TCS1-6.4A	TCT1-6.4A
	0.38	9.5		3/8"	TCS1 - 9.5A	TCT1-9.5A
	0.47	12			TCS1-12A	TCS1 - 12A
2	0.50	12.7	1/4"	1/2"	TCS2-12.7A	TCT2-12.7A
	0.53	13.5			TCS2-13.5A	TCT2-13.5A
	0.63	16	3/8"	5/8"	TCS2-16A	TCT2-16A
	0.67	17.2			TCS2-17.2A	TCT2-17.2A
	0.71	18			TCS2-18A	TCT2-18A
3	0.75	19	1/2"	3/4"	TCS3-19A	TCT3-19A
	0.79	20			TCS3-20A	TCT3-20A
	0.84	21.3			TCS3-21.3A	TCT3-21.3A
	1.00	25.4		1"	TCS3-25.4A	TCT3-25.4A
4	1.06	26.9	3/4"		TCS4-26.9A	TCT4-26.9A
	1.10	28			TCS4-28A	TCT4-28A
5	1.25	32	1"	1-1/4"	TCS5-32A	TCT5-32A
	1.31	33.7			TCS3-33.7A	TCS3-33.7A
	1.50	38		1-1/2"	TCS5-38A	TCT5-38A
	1.57	40			TCS5-40A	TCS5-40A
	1.66	42			TCS5-42A	TCS5-42A
6	1.75	44.5	1-1/2"	1-3/4"	TCS6-44.5A	--
	1.90	48.3			TCS6-48.3A	--
	2.00	50.8		2"	TCS6-50.8A	--

- Stacking nuts and bolts are available

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

TUBE CLAMPS - HEAVY



HEAVY

Group	Hole Size		Pipe Size	Tube OD	Clamps
	in	mm			
H1	0.25	6.4	1/8"	1/4"	TCH1-6.4A
	0.38	9.5		3/8"	TCH1-9.5A
	0.50	12.7		1/2"	TCH1-12.7A
	0.53	13.5	1/4"		TCH1-13.5A
	0.63	16		5/8"	TCH1-16A
	0.67	17.2	3/8"		TCH1-17.2A
H2	0.75	19	1/2"	3/4"	TCH2-19A
	0.79	20			TCH3-20A
	0.84	21.3			TCH2-21.3A
	1.00	25.4	3/4"	1"	TCH2-25.4A
	1.06	26.9			TCH2-26.9A
	1.10	28			TCH2-28A
H3	1.25	32	1"	1-1/4"	TCH3-32A
	1.31	33.7			TCH3-33.7A
	1.50	38		1-1/2"	TCH3-38A
	1.66	42			TCH3-42A
H4	1.75	44.5	1-1/2"	1-3/4"	TCH4-44.5A
	1.90	48.3			TCH4-48.3A
	2.00	50.8		2"	TCH4-50.8A
	2.24	57	2"	2-1/4"	TCH4-57A
	2.38	60.3			TCH4-60.3A
	2.50	63.5		2-1/2"	TCH4-63.5A
	2.75	70		2-3/4"	TCH4-70A
H5	2.87	73	2-1/2"		TCH5-73A
	3.00	76.1		3"	TCH5-76.1A
	3.50	88.9	3"	3-1/2"	TCH5-88.9A
	4.50	114.3		4"	TCH6-114.3A

- Stacking nuts and bolts are available

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

Accessories



HOSE CUTTER ½" - 2" OD

Part Number	Description
G99	Hose Cutters



CALIPER

Part Number	Description
Caliper	6" Digital Caliper



ID TAG

Part Number	Description
ID101	1.5" x 2.5" Type 304 Stainless Tag



CABLE TIE

Part Number	Description
CABLETIE-BL10	¼" x 10" Type 304 Stainless Tie
CABLETIE-BL14	¼" x 14" Type 304 Stainless Tie



CABLE TIE GUN

Part Number	Description
CABLETIE-BL-GUN	Automatic Gun

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.