

PIRANHAFLEX™
HYDRAULICS

HYDRAULIC PRODUCTS

**100R7, 100R8,
100R18 Hose &
SCTP Series
Permanent
Couplings**





PERMANENTLY ATTACHED HOSE ENDS

FOR USE WITH SAE 100R7, 100R8 AND 100R18 THERMOPLASTIC HOSE



Male Pipe

PART No.	Hose I.D.	Pipe
SCTP25-2A	1/8	1/8
SCTP25-3A	3/16	1/8
SCTP25-3B	3/16	1/4
SCTP25-4A	1/4	1/8
SCTP25-4C	1/4	3/8
SCTP25-5B	5/16	1/4
SCTP25-5C	5/16	3/8
SCTP25-6C	3/8	3/8
SCTP25-8D	1/2	1/2
SCTP25-12E	3/4	3/4
SCTP25-16H	1	1



Female NPSM Pipe (Swivel)

PART No.	Hose I.D.	Pipe
SCTP26SW-3B	3/16	1/4
SCTP26SW-4B	1/4	1/4
SCTP26SW-6C	3/8	3/8



90° ELBOW S.A.E. 37° Female Flare (Swivel)

PART No.	Hose I.D.	Tube
SCTP39-34	3/16	1/4
SCTP39-45	1/4	5/16
SCTP39-66	3/8	3/8
SCTP39-68	3/8	1/2
SCTP39-88	1/2	1/2



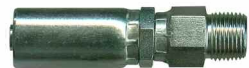
J.I.C. 37° Male Flare

PART No.	Hose I.D.	Tube
SCTP37-66	3/8	3/8



45° ELBOW S.A.E. 37° Female Flare (Swivel)

PART No.	Hose I.D.	Tube
SCTP40-66	3/8	3/8



Male Pipe (Working Swivel)

PART No.	Hose I.D.	Pipe
SCTP25SW-4B	1/4	1/4
SCTP25SW-6C	3/8	3/8
SCTP25SW-8D	1/2	1/2



S.A.E. 37° Female Flare (Swivel)

PART No.	Hose I.D.	Tube
SCTP38-24	1/8	1/4
SCTP38-34	3/16	1/4
SCTP38-44	1/4	1/4
SCTP38-45	1/4	5/16
SCTP38-46	1/4	3/8
SCTP38-66	3/8	3/8
SCTP38-68	3/8	1/2
SCTP38-88	1/2	1/2
SCTP38-1212	3/4	3/4



Female O-Ring Face Seal (Swivel)

PART No.	Hose I.D.	ORFS
SCTP58-66	3/8	11/16 - 16

CRIMP SPECIFICATIONS FOR PERMANENTLY ATTACHED HOSE ENDS (FOR USE WITH SAE 100R7, 100R8 AND 100R18 THERMOPLASTIC HOSE)

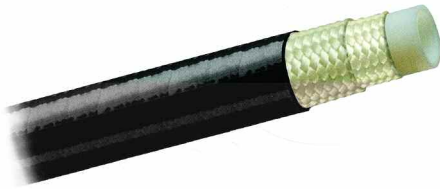
All Hydraulic Assemblies should be pressure tested prior to use.

NOTE: Also see Fairview's Accutek™ Adapters, Quick Disconnects and Valves

Dash Size	Inside Diameter (IN.)	Crimp Outside Diameter (IN.)
-2	1/8	0.365
-3	3/16	0.500
-4	1/4	0.555
-5	5/16	0.630
-6	3/8	0.675
-8	1/2	0.830
-12	3/4	1.080
-16	1	1.340

IMPORTANT: This reference chart is provided by Fairview Fittings & Manufacturing for convenience only. The information contained herein cannot be guaranteed because conditions of use are beyond our control, such as variances in hose outside diameters. This document should not be substituted for the judgement of a qualified professional. Assemblies should be tested prior to installation. The user of this information assumes all risk associated with its use.

MEDIUM PRESSURE HOSE



S.A.E. 100R7

Meet or Exceeds S.A.E. J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible

For medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose combines the best features of conventional rubber hose with the unique advantages of synthetic materials.

Recommended use: Hand held grease guns.

- **CONSTRUCTION:** High tensile strength fiber reinforcement Braided Synthetic fiber.
- **TUBE:** Oil and Heat-Resistant Nylon Inner Tube.
- **COVER:** Resistant Polyurethane, pin pricked cover.
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Black
- **FITTINGS:** SCTP (for 1/8 & 3/16 sizes), SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	* Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7-2-REEL	1/8	0.322	3,000	12,000	0.75	3	250
HR7-3-REEL	3/16	0.415	3,000	12,000	0.75	5	250
HR7-4-REEL	1/4	0.496	2,750	11,000	1.50	6	250
HR7-5-REEL	5/16	0.580	2,500	10,000	1.75	8	250
HR7-6-REEL	3/8	0.650	2,250	9,000	2.00	11	250
HR7-8-REEL	1/2	0.834	2,000	8,000	3.00	16	250
HR7-12-REEL	3/4	1.050	1,250	5,000	6.00	22	250

• **LOW TEMPERATURE AVAILABLE ON REQUEST:** -65°F to +200°F, -54°C to +93°C

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	* Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7LT-4-REEL	1/4	0.496	2,750	11,000	1.50	6	250
HR7LT-6-REEL	3/8	0.650	2,250	9,000	2.00	11	250
HR7LT-8-REEL	1/2	0.834	2,000	8,000	3.00	16	250

TWIN-LINE MEDIUM PRESSURE HOSE



S.A.E. 100R7

Meets or Exceeds S.A.E. J517
Specifications

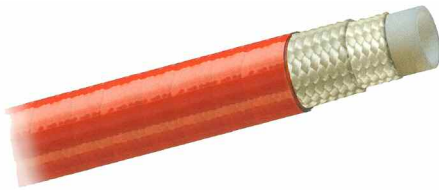
FEATURES: Low Elongation • Best Value 100R7 Hose

TYPICAL APPLICATIONS: For use with General Hydraulics • Material Handling • Forklift • Chemical Transfer

- **CONSTRUCTION:** Braided Synthetic Fiber Reinforcement
- **TUBE:** Nylon-Lined Core Tube
- **COVER:** Perforated Polyurethane Cover
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C for petroleum based hydraulic fluids.
- **PACKAGING:** Reels
- **COLOR:** Black
- **FITTINGS:** SCTP

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR7TW-4-REEL	1/4	.496	1-1/2	2,750	11,000	.06	250
HR7TW-6-REEL	3/8	.650	2	2,250	9,000	.11	250
HR7TW-8-REEL	1/2	.834	3	2,000	8,000	.16	200

MEDIUM PRESSURE (Non-Conductive) HOSE



S.A.E. 100R7

Meet or Exceeds SAE J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible

For medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose combines the best features of conventional rubber hose with the unique advantages of synthetic materials.

- **CONSTRUCTION:** High tensile strength fiber reinforcement Braided Synthetic fiber.
- **TUBE:** Oil and Heat-Resistant Nylon Inner Tube.
- **COVER:** Resistant Polyurethane non-pin pricked cover
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **FITTINGS:** SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7-4ORA-REEL	1/4	0.496	2750	11,000	1.50	6	250
HR7-5ORA-REEL	5/16	0.580	2500	10,000	1.75	8	250
HR7-6ORA-REEL	3/8	0.650	2250	9,000	2.00	11	250
HR7-8ORA-REEL	1/2	0.834	2000	8,000	3.00	16	250

MEDIUM PRESSURE TWIN-LINE (Non-Conductive) HOSE



S.A.E. 100R7

Meets or Exceeds S.A.E. J517 Specifications

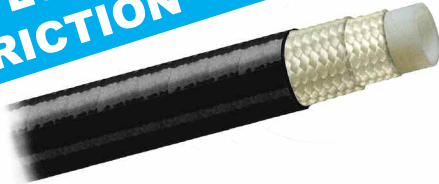
FEATURES: • Low Elongation • Best Value 100R7 Hose
TYPICAL APPLICATIONS: For use with General Hydraulics • Material Handling • Forklift • High Pressure Gas Transfer • Chemical Transfer

- **CONSTRUCTION:** Braided Synthetic Fiber Reinforcement
- **TUBE:** Nylon-Lined Core Tube
- **COVER:** Perforated Polyurethane Cover
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **FITTINGS:** SCTP

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR7TW-6ORA-REEL	3/8	.650	2	2,250	9,000	.130	250

MEDIUM PRESSURE HOSE - (PLUS COVER)

LOW FRICTION



S.A.E. 100R7

Meet or Exceeds S.A.E. J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible

Tested at 1/2 bend radius
under SAE Standards

Special low friction polyurethane for medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose has special low friction cover that eliminates hose routing problems between hose sheaves and pulleys with Fork Truck applications.

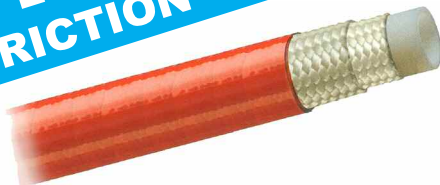
- **CONSTRUCTION:** High tensile strength fiber reinforcement Braided Synthetic fiber.
- **TUBE:** Seamless Nylon Inner Tube.
- **COVER:** Resistant Polyurethane, pin pricked cover.
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Black
- **FITTINGS:** SC700 (for 1/8 & 3/16 sizes), SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

3/4" AND 1" I.D. AVAILABLE ON REQUEST

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	* Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7P-4-REEL	1/4	0.496	2,750	11,000	1.50	6	250
HR7P-6-REEL	3/8	0.650	2,250	9,000	2.00	11	250
HR7P-8-REEL	1/2	0.834	2,000	8,000	3.00	16	250

MEDIUM PRESSURE HOSE (PLUS COVER Non-Conductive)

LOW FRICTION



S.A.E. 100R7

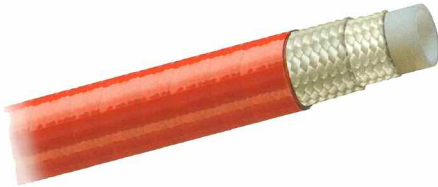
Meet or Exceeds SAE J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible

Special low friction polyurethane for medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose has special low friction cover that eliminates hose routing problems between hose sheaves and pulleys with Fork Truck applications.

- **CONSTRUCTION:** High tensile strength fiber reinforcement Braided Synthetic fiber.
- **TUBE:** Seamless Nylon Inner Tube.
- **COVER:** Resistant Polyurethane non-pin pricked cover
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **FITTINGS:** SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7P-4ORA-REEL	1/4	0.496	2,750	11,000	1.50	6	250
HR7P-6ORA-REEL	3/8	0.650	2,250	9,000	2.00	11	250
HR7P-8ORA-REEL	1/2	0.834	2,000	8,000	3.00	16	250

MEDIUM PRESSURE HOSE (ANSI 92.2 Compliant)



Orange non-conductive (REACH compliant), polyurethane for medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose combines the best features of conventional rubber hose with the unique advantages of synthetic materials. Non-pin pricked cover available on request.

S.A.E. 100R7

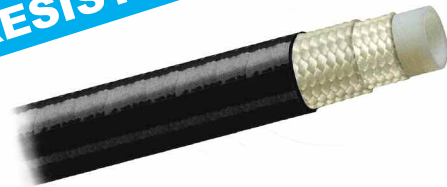
Meet or Exceeds SAE J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible
Complies with ANSI 92.2 for vehicle mounted aerial devices.

- **CONSTRUCTION:** High tensile strength fiber reinforcement Braided Synthetic fiber.
- **TUBE:** Oil and Heat-Resistant Nylon Inner Tube.
- **COVER:** Resistant Polyurethane non-pin pricked cover
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **FITTINGS:** SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7AN-4ORA-REEL	1/4	0.496	2750	11,000	1.50	6	250
HR7AN-6ORA-REEL	3/8	0.650	2250	9,000	2.00	11	250
HR7AN-8ORA-REEL	1/2	0.834	2000	8,000	3.00	16	250

MEDIUM PRESSURE HOSE (Improved Kink Resistance)

KINK RESISTANT



Improved kink resistance, polyurethane pin pricked cover for medium pressure hydraulic service in the handling of most hydraulic fluids, diesel fuels, water and lubricating oils. Not suitable for use with phosphate esters. This hose has improved flexural rigidity up to 16% less force to bend and improved kink resistance, up to 53% more force required to reach kink initiation versus competitive 100R7 type hoses

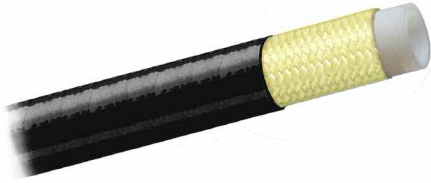
S.A.E. 100R7

Meet or Exceeds S.A.E. J517
Exceeds 100R7 Impulse Requirements
Lightweight and Flexible

- **CONSTRUCTION:** Braided high tensile strength fiber reinforcement
- **TUBE:** Polyester Inner Tube.
- **COVER:** Resistant Polyurethane, pin pricked cover.
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **PACKAGING:** Reels
- **COLOR:** Black
- **FITTINGS:** SC700 (for 1/8 & 3/16 sizes), SCTP
- * **S.A.E. WORKING PRESSURES SHOWN**

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	* Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (IN.)	Weight / 100 Ft. (LBS.)	Reel Lengths (FT.)
HR7R-3-REEL	3/16	0.415	3,000	12,000	0.75	5	250
HR7R-4-REEL	1/4	0.496	2,750	11,000	1.50	7	250
HR7R-5-REEL	5/16	0.580	2,500	10,000	1.75	9	250
HR7R-6-REEL	3/8	0.650	2,250	9,000	2.00	12	250
HR7R-8-REEL	1/2	0.834	2,000	8,000	3.00	17	250
HR7R-12-REEL	3/4	1.050	1,250	5,000	6.00	24	250

HR8 HIGH PRESSURE HOSE



Meets or exceeds **S.A.E.**
100R8 Specifications

Extremely Durable
Highly Abrasion Resistant

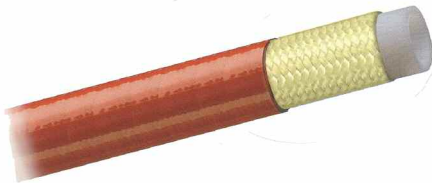
FEATURES: Meets or exceeds SAE 100R8 impulse requirements, good kink resistance, lightweight; less than about half of comparable rubber wire hose. Highly abrasion resistant outer cover, the inner tube will not chip or peel in service.

TYPICAL APPLICATIONS: Ideal for use in applications where a non-conductive high pressure hydraulic hose is required; industrial hydraulic construction, material handling, agricultural equipment, hydraulic tools, lubrication lines and hydraulic lifts.

- **CONSTRUCTION:** Aramid Fiber Reinforcement
- **TUBE:** Seamless Polyester Inner Tube
- **COVER:** Highly Abrasion Resistant Polyurethane Pinpricked Cover
- **COLOR:** Black
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **FITTINGS:** SCTP

PART No.	Nominal I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR8-4-REEL	1/4	.485	2	5,000	20,000	.070	250
HR8-6-REEL	3/8	.630	2-1/2	4,000	16,000	.100	250
HR8-8-REEL	1/2	.820	3-1/2	3,500	14,000	.170	250
HR8-12-REEL	3/4	1.050	4-1/2	2,250	9,000	.200	250

HR8 NON-CONDUCTIVE HIGH PRESSURE HOSE



Meets or exceeds **S.A.E.**
100R8 Specifications

FEATURES: Meets or exceeds SAE 100R8 impulse requirements, good kink resistance, lightweight; less than about half of comparable rubber wire hose. Highly abrasion resistant outer cover, the inner tube will not chip or peel in service.

TYPICAL APPLICATIONS: Ideal for use in applications where a non-conductive high pressure hydraulic hose is required; industrial hydraulic construction, material handling, agricultural equipment, hydraulic tools, lubrication lines and hydraulic lifts.

- **CONSTRUCTION:** Aramid Fiber Reinforcement
- **TUBE:** Extruded Seamless Polyester Inner Tube
- **COVER:** Highly Abrasion Resistant Polyurethane Non-Pinpricked Cover
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **FITTINGS:** SCTP

PART No.	Nominal I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR8-4ORA-REEL	1/4	.485	2	5,000	20,000	.070	250
HR8-6ORA-REEL	3/8	.630	2-1/2	4,000	16,000	.100	250
HR8-8ORA-REEL	1/2	.820	3-1/2	3,500	14,000	.170	250

HR8TW TWIN-LINE NON-CONDUCTIVE HIGH PRESSURE HOSE



Meets **S.A.E. 100R8**
Specifications
Lightweight and
Extremely durable.

FEATURES: Meets or exceeds SAE 100R8 impulse requirements, good kink resistance, lightweight; less than about half of comparable rubber wire hose. Highly abrasion resistant outer cover, the inner tube will not chip or peel in service.

- Long Life for Impulse Cycling and Flexing • UV Resistant Cover

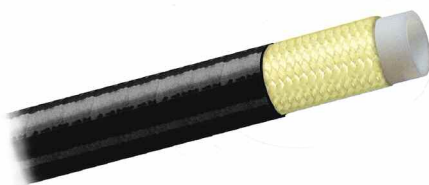
TYPICAL APPLICATIONS: Ideal for use in applications where a non-conductive high pressure hydraulic twin-line hose is required; industrial hydraulic construction, material handling, agricultural equipment, hydraulic tools, lubrication lines and hydraulic lifts.

- **CONSTRUCTION:** Aramid Fiber Reinforcement
- **TUBE:** Extruded Seamless Polyester Inner Tube
- **COVER:** Highly Abrasion Resistant Polyurethane Non-Pin pricked Cover
- **COLOR:** Orange, NON-CONDUCTIVE Marking
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C
- **FITTINGS:** SCTP

Other Sizes Available

PART No.	Actual I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR8TW-6ORA-REEL	3/8	.630	2-1/2	4,000	16,000	.100	250

HR18 CONSTANT PRESSURE HOSE



S.A.E. 100R18
Meets or Exceeds S.A.E. J517
Specifications

FEATURES: Exceeds 100R18 Impulse requirements • Lightweight and Flexible • Ideal for general hydraulic service.

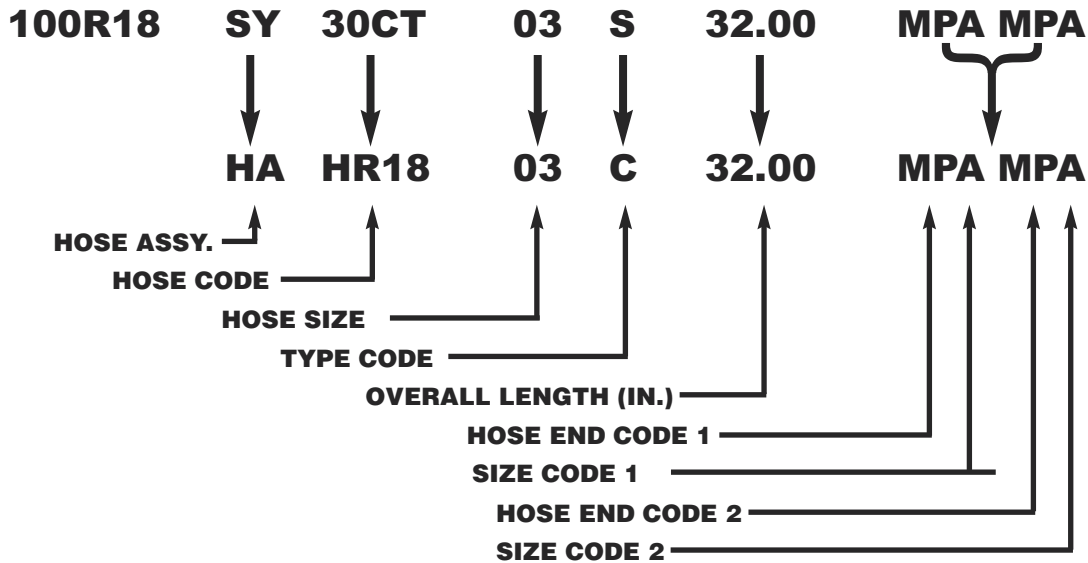
TYPICAL APPLICATIONS: General purpose high pressure hydraulic applications • industrial Hydraulic • Construction • Material Handling • Agricultural Equipment • Hydraulic Tools • Lubrication Lines and Man Lifts

- **CONSTRUCTION:** Braided Synthetic Fiber Reinforcement
- **TUBE:** Seamless Polyester Inner Tube
- **COVER:** Abrasion Resistant Polyurethane Cover
- **COLOR:** Black
- **TEMPERATURE:** -40°F to +200°F, -40°C to +93°C, Petroleum-Based Hydraulic Fluids
- **TEMPERATURE:** -40°F to +140°F, -40°C to +60°C, With Water-Based or Fire Resistant Fluids
- **FITTINGS:** SCTP

PART No.	Nominal Hose I.D. (IN.)	Hose O.D. (IN.)	Min. Bend Radius (IN.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Approx. Wgt./Ft. (LBS.)	Reel Length (FT.)
HR18-4-REEL	1/4	.496	1-1/2	3,000	12,000	.064	250
HR18-6-REEL	3/8	.650	2	3,000	12,000	.110	250
HR18-8-REEL	1/2	.834	3	3,000	12,000	.160	250



Conversion Chart SY To HA part number (HR7, HR8 and HR18 Assemblies)



HOSE CODES

NEW CODES

CODE	HOSE
T1SN	S.A.E. 100R1
T1XX	S.A.E. 100R1
T2SN	S.A.E. 100R2
T2XX	S.A.E. 100R2
H4SH	DIN 20023 4SH
HR3X	S.A.E. 100R3
HR4X	S.A.E. 100R4
HR5X	S.A.E. 100R5
HR5H	100R5HT High Temp.
HR7X	S.A.E. 100R7
HR7A	100R7 ANSI
HR7P	100R7 Plus

CODE	HOSE
HR7R	100R7 Kink Resistant
R7LT	100R7 Low Temp
R7NC	100R7 Non-Conductive
R7PN	100R7 Plus Non-Con
HR8X	S.A.E. 100R8
R8NC	100R8 Non-Conductive
HR12	S.A.E. 100R12
HR13	S.A.E. 100R13
HR16	S.A.E. 100R16
HR17	S.A.E. 100R17
R17L	100R17 LowTemp.
HR18	S.A.E. 100R18

HOSE END CODES

CODE	DESCRIPTION
B9	Female British Paralell 90° Elbow
BF	Female BSPP Swivel Female Cone
BM	Female BSPP Swivel Male Cone
FH	Female Heavy Metric
H9	Female Heavy Metric 90° Metric
JS	Female JIS 30° Flare
KM	Female Komatsu 30° Flare
FL	Female Light Metric
L9	Female Light Metric 90° Elbow
FV	Female NPSM Swivel
RS	Female O-Ring Face Seal
R5	Female O-Ring Face Seal 45° Elbow
R9	Female O-Ring Face Seal 90° Elbow
FP	Female Pipe
FJ	Female Swivel 37° S.A.E.
J5	Female Swivel 37° S.A.E. 45° Elbow
J9	Female Swivel 37° S.A.E. 90° Elbow
JL	Female Swivel 37° S.A.E. 90° Elbow (Long)
FS	Female Swivel 45° S.A.E.
S5	Female Swivel 45° S.A.E. 45° Elbow
S9	Female Swivel 45° S.A.E. 90° Elbow

CODE	DESCRIPTION
TR	Flareless Tube Repair
GT	Grease Tap
MJ	Male 37° S.A.E.
MS	Male 45° S.A.E.
BP	Male British Paralell
BT	Male British Tapered
MH	Male Heavy Metric
MI	Male Inverted Flare
I5	Male Inverted Flare 45° Elbow
I9	Male Inverted Flare 90° Elbow
ML	Male Light Metric
MO	Male O-Ring
O9	Male O-Ring Boss 90° Elbow
SO	Male O-Ring Boss Swivel
MP	Male Pipe
SP	Male Pipe Swivel
P9	Male Pipe Swivel 90° Elbow
ST	Stand Pipe

SIZE CODES

HOSE SIZE	TUBE	SIZE CODE
02	1/8"	A
03	3/16"	F
04	1/4"	B
05	5/16"	G
06	3/8"	C
08	1/2"	D
10	5/8"	I
12	3/4"	E
16	1"	H
20	1-1/4"	J
24	1-1/2"	K
32	2"	M

ASSEMBLY TYPE CODES

CODE	TYPE	CODE	TYPE
C	Crimp Ends	S	Swage Hose
R	Reusable Ends	T	Twin-Line Hose

CODE DESCRIPTION

C5	Flange code 61 45° Elbow
C9	Flange code 61 90° Elbow
C1	Flange code 61 Straight
D5	Flange code 62 45° Elbow
D9	Flange code 62 90° Elbow
D2	Flange code 62 Straight





≡QUALIZER™ (DRY) Pressure Gauges

- Dry Gauge • #304 Stainless Steel Case • 1.5% Full Scale Accuracy
- Ambient-Process Temp: - 58°F To + 200°F, -50°C To +93°C • Meets ASME B40.100 Standards

The ≡QUALIZER™ Pressure Gauge Series

These gauges are dry gauges that come with a dampening movement that eliminates pointer flutter caused by vibration and pulsation. This makes pressure reading much easier. No more worries of fill fluid leaking or compatibility issues with the process media. Gauges can be easily serviced without the hassle of draining and refilling the case with fluid.



≡QUALIZER™

- Dampens vibration and pulsation
- Eliminates leaks and discoloration
- Can be used at higher temperatures than glycerine filled gauges
- Provides ease in reading
- Reinforced lightweight design

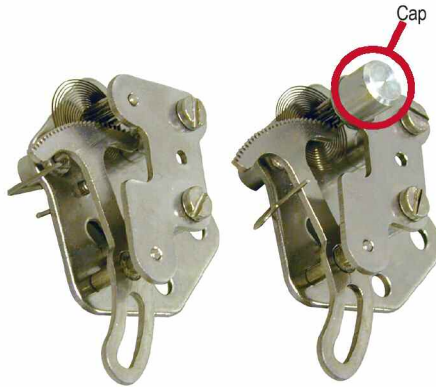
PG-60ZRSD25

How it works

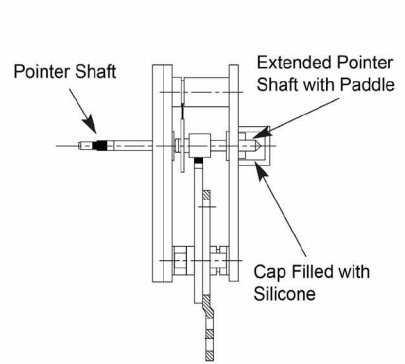
The pointer shaft is extended through the back of the movement with a small flat paddle affixed to the end of the shaft. A stainless steel cap filled with silicone is pressed over the end of the shaft, covering the paddle. This creates enough resistance to dampen the pointer and movement just as if the gauge is liquid filled, but without the concerns.



ALL STAINLESS



Standard Movement ≡QUALIZER™ Movement



Testing Standards

250,000 cycle testing was performed on ≡QUALIZER™ and glycerin filled gauges side-by-side. The performance of the ≡QUALIZER™ gauges were comparable to that of glycerin filled gauges.

Ambient/Process Temp. -58°F to 200°F (-50°C to 93°C), without the possibility of liquid freeze-up.

Reference Gauge Pressure (psi)	≡QUALIZER(ZR) Series (% accurate)	Liquid (glycerine filled) (% accurate)
100	99.6	99.8
200	99.3	99.2
300	99.8	99.3
400	99.3	99.6

Average 99.5 %

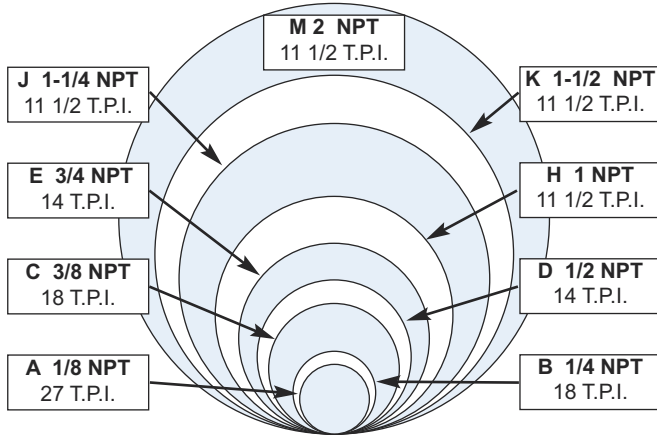
Average 99.5 %



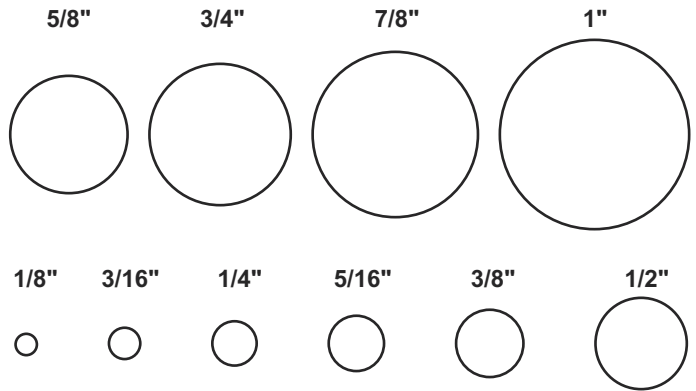
SIZE CHARTS



ACTUAL OUTSIDE DIAMETERS OF PIPE THREADS



ACTUAL OUTSIDE DIAMETERS OF TUBING



FRACTIONAL SIZE CODES

Used with all Part Numbers to designate Tube and Pipe Fractional Sizes.

Tube Size Code -- 1/16ths

1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2	2-1/2	3	4
2	3	4	5	6	7	8	10	12	14	16	20	24	32	40	48	64

Pipe Size Code

1/16	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2-1/2	3	4
1	A	B	C	D	E	H	J	K	M	N	P	S

METRIC THREAD STANDARDS

TUBE SIZE MM	DIN METRIC (LIGHT)	DIN METRIC (HEAVY)
6	M12x1.5	M14x1.5
8	M14x1.5	M16x1.5
10	M16x1.5	M18x1.5
12	M18x1.5	M20x1.5
14	--	M22x1.5
15	M22x1.5	--
16	--	M24x1.5
18	M26x1.5	--
20	--	M30x2.0
22	M30x2.0	--
25	--	M36x2.0
28	M36x2.0	--
30	--	M42x2.0
35	M45x2.0	--
38	--	M52x2.0
42	M52x2.0	--

TUBE FITTING SIZE AND THREAD STANDARDS

DASH SIZE	O.D. TUBE SIZE	45° S.A.E. FLARE		37° J.I.C. FLARE		COMPRESSION		45° INVERTED FLARE		THREADED SLEEVE	
		O.D.	THREAD	O.D.	THREAD	O.D.	THREAD	O.D.	THREAD	O.D.	THREAD
-2	1/8	5/16	24	5/16	24	5/16	24	5/16	28	5/16	24
-3	3/16	3/8	24	3/8	24	3/8	24	3/8	24	3/8	24
-4	1/4	7/16	20	7/16	20	7/16	24	7/16	24	7/16	24
-5	5/16	1/2	20	1/2	20	1/2	24	1/2	20	1/2	20
-6	3/8	5/8	18	9/16	18	9/16	24	5/8	18	9/16	20
-8	1/2	3/4	16	3/4	16	5/8	24	11/16	18	5/8	18
-10	5/8	7/8	14	7/8	14	11/16	20	3/4	18	11/16	16
-12	3/4	1-1/16	14	1-1/16	12	13/16	18	7/8	18	--	--
-14	7/8	1-1/4	12	1-3/16	12	1	18	1-1/16	16	--	--
-16	1	1-3/8	12	1-5/16	12	1-1/8	18	1-3/16	16	--	--
-20	1-1/4	--	--	1-5/8	12	1-1/4	16	--	--	--	--
-24	1-1/2	--	--	1-7/8	12	--	--	--	--	--	--
-32	2	--	--	2-1/2	12	--	--	--	--	--	--

TUBE FITTING SIZE AND THREAD STANDARDS

DASH SIZE	O.D. TUBE SIZE	O-RING BOSS		FLARELESS		O-RING FACE SEAL		BRITISH PIPE TAPER		BRITISH PIPE PARALLEL	
		O.D.	THREAD	O.D.	THREAD	O.D.	THREAD	O.D.	THREAD	O.D.	THREAD
-2	1/8	5/16	24	5/16	24	--	--	--	--	--	--
-3	3/16	3/8	24	3/8	24	--	--	--	--	--	--
-4	1/4	7/16	20	7/16	20	9/16	18	1/4	19	1/4	19
-5	5/16	1/2	20	1/2	20	--	--	--	--	--	--
-6	3/8	9/16	18	9/16	18	11/16	16	3/8	19	3/8	19
-8	1/2	3/4	16	3/4	16	13/16	16	1/2	14	1/2	14
-10	5/8	7/8	14	7/8	14	1	14	5/8	14	5/8	14
-12	3/4	1-1/16	12	1-1/16	12	1-3/16	12	3/4	14	3/4	14
-14	7/8	1-3/16	12	1-3/16	12	--	--	--	--	--	--
-16	1	1-5/16	12	1-5/16	12	1-7/16	12	1	11	1	11
-20	1-1/4	1-5/8	12	1-5/8	12	1-11/16	12	--	--	--	--
-24	1-1/2	1-7/8	12	1-7/8	12	2	12	--	--	--	--
-32	2	2-1/2	12	2-1/2	12	--	--	--	--	--	--



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