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HYDRAULIC HOSE

AVENGER 1 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R1AT

Recommended for: High pressure hydraulic oil lines

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: One braid of high tensile steel wire

Cover: Black, oil resistant and abrasion resistant synthetic rubber.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required for the B & F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T13A	-3	3/16	.46	3600	1.4
T14A	-4	1/4	.53	3250	1.5
T15A	-5	5/16	.59	3100	2.0
T16A	-6	3/8	.69	2600	2.0
T18A	-8	1/2	.81	2300	3.0
T110A	-10	5/8	.93	1900	3.5
T112A	-12	3/4	1.09	1500	4.3
T116A	-16	1	1.41	1300	5.5
T120A	-20	1-1/4	1.72	945	16.5
T124A	-24	1-1/2	1.99	725	20.0
T132A	-32	2	2.52	580	24.0

DIEHARD 1 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R1AT

Recommended for: High pressure hydraulic oil lines, in applications where the outside of the hose is subjected to abrasion that may cause premature failure of standard hoses.

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: One braid of high tensile steel wire

Cover: Black, oil resistant and abrasion resistant synthetic rubber. "FRAS" Flame Resistant and Anti-Static.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required for the B & F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T14D	-4	1/4	.53	3250	1.5
T15D	-5	5/16	.59	3100	2.0
T16D	-6	3/8	.69	2600	2.0
T18D	-8	1/2	.81	2300	3.0
T110D	-10	5/8	.93	1900	3.5
T112D	-12	3/4	1.09	1500	4.3
T116D	-16	1	1.41	1300	5.5
T120D	-20	1-1/4	1.72	945	16.5
T124D	-24	1-1/2	1.99	725	20.0
T132D	-32	2	2.52	580	24.0

SURVIVOR 1 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R1AT

Recommended for: High pressure hydraulic oil applications where pressure or temperature requirements exceed the performance requirements of SAE 100R1AT, or where resistance to phosphate ester** fluid is required. May be used with compressed air if cover of hose is perforated (pin-pricked) and additional safety devices are used.

Tube: Black, synthetic rubber, specifically compounded for temperature resistance and multi fluid resistance.

Reinforcement: One braid of high tensile steel wire

Cover: Blue, oil resistant and abrasion resistant synthetic rubber.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +302F
For water, water/oil emulsions, diesel fuels, glycol, air, and some phosphate esters**

No skiving required for the B & F series hose ends.

**Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RQP14	-4	1/4	.53	3250	4.0
RQP15	-5	5/16	.59	3120	4.5
RQP16	-6	3/8	.69	2600	5.0
RQP18	-8	1/2	.81	2300	7.0
RQP112	-12	3/4	1.09	1740	9.5
RQP116	-16	1	1.41	1300	12.0

AVENGER 2 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R2AT

Recommended for: High pressure hydraulic oil lines

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: Two braids of high tensile steel wire

Cover: Black, oil resistant and abrasion resistant synthetic rubber.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required for the B & F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T24A	-4	1/4	.59	6000	4.0
T26A	-6	3/8	.75	5100	5.0
T28A	-8	1/2	.87	5000	7.0
T210A	-10	5/8	.99	3600	8.0
T212A	-12	3/4	1.15	3100	9.5
T216A	-16	1	1.48	2540	12.0
T220A	-20	1-1/4	1.89	2030	16.5
T224A	-24	1-1/2	2.14	1450	20.0
T232A	-32	2	2.65	1305	24.0

DIEHARD 2 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R2AT

Recommended for: High pressure hydraulic oil lines where the outside of the hose is subjected to abrasion that may cause premature failure of standard hoses.

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: Two braids of high tensile steel wire

Cover: Black, extra abrasion and oil resistant synthetic rubber. "FRAS" Flame Resistant and Anti-Static.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required for the B & F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T24D	-4	1/4	.59	6000	4.0
T26D	-6	3/8	.75	5100	5.0
T28D	-8	1/2	.87	5100	7.0
T210D	-10	5/8	.99	3600	8.0
T212D	-12	3/4	1.15	3100	9.5
T216D	-16	1	1.48	2540	12.0
T220D	-20	1-1/4	1.89	2030	16.5
T224D	-24	1-1/2	2.14	1450	20.0
T232D	-32	2	2.65	1305	24.0

SLIDER 2 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R2AT

Recommended for: High pressure hydraulic oil lines in applications where the outside cover of the hose is subjected to sliding abrasion that may cause premature failure of standard hoses. The extremely high abrasion resistant properties of the polyethylene sheathed cover combined with the high working pressures and excellent impulse life when tested to EN 853 Type 2SN/SAE 100R2AT test conditions result in, increased service life and minimize equipment downtime.

Tube: Black, oil resistant synthetic rubber, (Nitrile).

Reinforcement: Two braids of high tensile steel wire

Cover: Black, abrasion resistant and oil resistant rubber sheathed with a layer of extremely abrasion resistant polyethylene.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required for the B & F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T24S	-4	1/4	.59	6000	4.0
T26S	-6	3/8	.75	5100	5.0
T28S	-8	1/2	.87	5100	7.0
T210S	-10	5/8	.99	3600	8.0
T212S	-12	3/4	1.15	3100	9.5
T216S	-16	1	1.48	2400	12.0
T220S	-20	1-1/4	1.89	1800	16.5
T224S	-24	1-1/2	2.14	1300	20.0
T232S	-32	2	2.65	1150	24.0

SURVIVOR 2 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R2AT

Recommended for: High pressure hydraulic oil applications where pressure or temperature requirements exceed the performance requirements of SAE 100R2AT, or where resistance to phosphate ester** fluid is required. May be used with compressed air if cover of hose is perforated (pin-pricked) and additional safety devices are used.

Tube: Black, synthetic rubber, specifically compounded for temperature resistance and multi fluid resistance.

Reinforcement: Two braids of high tensile steel wire

Cover: Blue, oil resistant and abrasion resistant synthetic rubber.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +302F
For water, water/oil emulsions, diesel fuels, glycol, air, and some phosphate esters**

No skiving required for the B & F series hose ends.

**Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RQP24	-4	1/4	.59	5800	4.0
RQP26	-6	3/8	.75	5100	5.0
RQP28	-8	1/2	.87	4350	7.0
RQP210	-10	5/8	.99	3600	8.0
RQP212	-12	3/4	1.15	3100	9.5
RQP216	-16	1	1.48	2400	12.0
RQP220	-20	1-1/4	1.89	2175	16.5
RQP224	-24	1-1/2	2.14	1450	20.0
RQP232	-32	2	2.65	1300	24.0

AVENGER 100R17 HOSE



Meets or exceeds the performance requirements of SAE 100R17.

Recommended for: High pressure hydraulic oil lines. Constant working pressure (Isobaric) of 3,050 psi in all sizes. Small bend radius and compact dimensions are advantages in installations where space is minimal. (Tighter bend radius than SAE 100R1 & R2.)

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: T3K4A to T3K8A: One braid of high tensile steel wire
T3K10A to T3K16A: Two braids of high tensile steel wire

Cover: Black, oil resistant and abrasion resistant synthetic rubber.

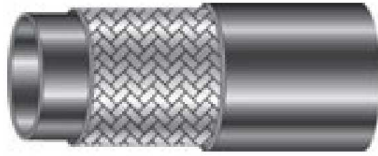
Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required. Use B series hose ends.
Not suitable for use with Field Attachable Couplings.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T3K4A	-4	1/4	.47	3050	2.0
T3K5A	-5	5/16	.53	3050	2.2
T3K6A	-6	3/8	.62	3050	2.5
T3K8A	-8	1/2	.74	3050	3.5
T3K10A	-10	5/8	.95	3050	4.0
T3K12A	-12	3/4	1.11	3050	4.9
T3K16A	-16	1	1.43	3050	5.9

DIEHARD 100R17 HOSE



Meets or exceeds the performance requirements of SAE 100R17.

Recommended for: High pressure hydraulic oil lines. Constant working pressure (Isobaric) of 3,050 psi in all sizes. Small bend radius and compact dimensions are advantages in installations where space is minimal. (Tighter bend radius than SAE 100R1 & R2.)

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: T3K4D to T3K8D: One braid of high tensile steel wire

T3K10D to T3K16D: Two braids of high tensile steel wire

Cover: Black, extra abrasion and oil resistant and abrasion resistant synthetic rubber. "FRAS" Flame Resistant and Anti-Static

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +212F

No skiving required. Use B series hose ends. Not suitable for use with Field Attachable Couplings.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
T3K4D	-4	1/4	.47	3050	2.0
T3K5D	-5	5/16	.53	3050	2.2
T3K6D	-6	3/8	.62	3050	2.5
T3K8D	-8	1/2	.74	3050	3.5
T3K10D	-10	5/8	.95	3050	4.0
T3K12D	-12	3/4	1.11	3050	4.9
T3K16D	-16	1	1.43	3050	5.9

DINFLEX 100R16 HOSE



Meets or exceeds the performance requirements of SAE 100R2AT and SAE 100R16.

Recommended for: High pressure hydraulic oil lines. Dinflex Hose has the compact outside diameter of one wire braid hose, but exceeds the performance requirements of SAE 100R2 two wire braid hose. Smaller bend radius and higher flexibility than standard two wire hose.

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: Two braids of high tensile steel wire.

Cover: Black, oil resistant and abrasion resistant synthetic rubber.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: from -40F to +212F

No skiving required. Use B series hose ends. Not suitable for use with Field Attachable Couplings.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
DF24A	-4	1/4	.54	6000	2.0
DF26A	-6	3/8	.69	5100	2.5
DF28A	-8	1/2	.81	4250	3.5
DF210A	-10	5/8	.93	3600	4.0
DF212A	-12	3/4	1.09	3100	4.8
DF216A	-16	1	1.41	2400	6.0

AVENGER 4 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R12

Recommended for: Very high pressure hydraulic oil lines

Tube: Black, oil resistant synthetic rubber

Reinforcement: Four alternating layers of spiraled high tensile steel wire

Cover: Black, oil resistance ad abrasion resistant synthetic rubber

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: from -40F to +250F

No skiving required for the F series hose ends.
B series sizes -6 to -10 can be used; does require skiving

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
HSP08A	-8	1/2	.97	6000	9.0
H1210A	-10	5/8	1.11	5100	8.0
H1212A	-12	3/4	1.21	5100	9.5
H1216A	-16	1	1.50	5100	12.0
H1220A	-20	1-1/4	1.85	4000	16.0
H1224A	-24	1-1/2	2.11	3700	20.0
H1232A	-32	2	2.63	3050	24.0

DIEHARD 4 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R12

Recommended for: Very high pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to abrasion that may cause premature failure of standard hoses

Tube: Black, oil resistant synthetic rubber

Reinforcement: four alternating layers of spiraled high tensile steel wire

Cover: Black, extra abrasion resistant and oil resistant synthetic rubber. "FRAS" Flame Resistant and Anti-Static

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: from -40F to +250F

No skiving required for the F series hose ends.
B series sizes -6 to -10 can be used; does require skiving

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
HSP08D	-8	1/2	.97	6000	9.0
H1210D	-10	5/8	1.11	5100	8.0
H1212D	-12	3/4	1.21	5100	9.5
H1216D	-16	1	1.50	5100	12.0
H1220D	-20	1-1/4	1.85	4000	16.0
H1224D	-24	1-1/2	2.11	3700	20.0

SLIDER 4 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R12

Recommended for: Very high pressure hydraulic oil lines, in applications where the outside cover of the hose is subjected to sliding abrasion that may cause premature failure of standard hoses. The extremely high abrasion resistant properties of the polyethylene sheathed cover combined with the high working pressures and excellent impulse life when tested to 100R12 test conditions result in, increased service life and minimize equipment downtime.

Tube: Black, oil resistant synthetic rubber, (Nitrile).

Reinforcement: Four alternating layers of spiraled high tensile steel wire

Cover: Black, abrasion resistant and oil resistant rubber sheathed with a layer of extremely abrasion resistant polyethylene.

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +250F

No skiving required for the F series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
H1206S	-6	3/8	.80	5100	5.0
H1208S	-8	1/2	.94	5100	7.0
H1210S	-10	5/8	1.11	5100	8.0
H1212S	-12	3/4	1.21	5100	9.5
H1216S	-16	1	1.50	5100	12.0
H1220S	-20	1-1/4	1.85	4000	16.0
H1224S	-24	1-1/2	2.11	3700	20.0
H1232S	-32	2	2.63	3050	24.0

AVENGER 6 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R13

Recommended for: Extremely high pressure hydraulic oil lines

Tube: Black, oil resistant synthetic rubber

Reinforcement:

Sizes -12 & -16: Four alternating layers of spiraled high tensile steel wire

Sizes -20 to -32: Six alternating layers of spiraled high tensile steel wire

Cover: Black, oil resistant and abrasion resistant synthetic rubber

Flame Resistant: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: -40 to +250F

No skiving required for the H series hose ends
F series sizes -12 to -20 can be used; does require skiving

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
H1312A	-12	3/4	1.26	5100	9.5
H1316A	-16	1	1.52	5100	12.0
H1320A	-20	1-1/4	1.96	5100	16.5
H1324A	-24	1-1/2	2.26	5100	20.0
H1332A	-32	2	2.83	5100	24.0

DIEHARD 6 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R13

Recommended for: Extremely high pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to abrasion that may cause premature failure of standard hoses.

Tube: Black, oil resistant synthetic rubber

Reinforcement:

Sizes -12 & -16: Four alternating layers of spiraled high tensile steel wire

Sizes -20 to -32: Six alternating layers of spiraled high tensile steel wire

Cover: Black, extra abrasion and oil resistant synthetic rubber. "FRAS" Flame Resistant and Anti-Static.

Flame Resistant: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: -40 to +250F

No skiving required for the H series hose ends
F series sizes -12 to -20 can be used; does require skiving

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
H1312D	-12	3/4	1.26	5100	9.5
H1316D	-16	1	1.52	5100	12.0
H1320D	-20	1-1/4	1.96	5100	16.5
H1324D	-24	1-1/2	2.26	5100	20.0

SLIDER 6 WIRE HOSE



Meets or exceeds the performance requirements of SAE 100R13

Recommended for: Extremely high pressure hydraulic oil lines, in applications where the outside cover of the hose is subjected to sliding abrasion that may cause premature failure of standard hoses. The extremely high abrasion resistant properties of the polyethylene sheathed cover combined with the high working pressures and excellent impulse life when tested to 100R13 test conditions result in, increased service life and minimize equipment downtime.

Tube: Black, oil resistant synthetic rubber, (Nitrile).

Reinforcement:

Size -12 & -16: Four alternating layers of spiral high tensile steel wire

Size -20 to -32: Six alternating layers of spiral high tensile steel wire

Cover: Black, abrasion resistant and oil resistant rubber sheathed with a layer of extremely abrasion resistant polyethylene.

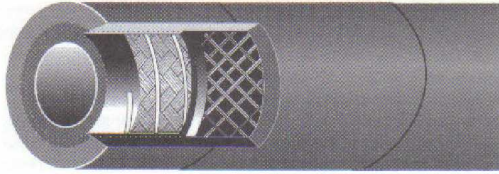
Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

Temperature Range: from -40F to +250F

No skiving required for the H series hose ends.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
H1312S	-12	3/4	1.26	5100	9.5
H1316S	-16	1	1.52	5100	12.0
H1320S	-20	1-1/4	1.96	5100	16.5
H1324S	-24	1-1/2	2.26	5100	20.0
H1332S	-32	2	2.83	5100	25.0

SAE 100R4 NRP 2004



Meets or exceeds the performance requirements of SAE 100R4.

Recommended for: Petroleum and water base hydraulic fluids in suction lines or in low pressure return lines

Tube: Black, oil resistant synthetic rubber (Nitrile)

Reinforcement: Textile reinforcement with spiral wire to prevent collapsing

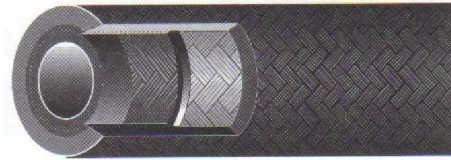
Cover: Black, oil resistant and abrasion resistant synthetic rubber

Temperature Range: from -40F to +212F

Uses non-skive M series hose ends

ITEM	Hose ID	Hose OD	Working PSI	Bend Radius
12C4	3/4	1.24	300	5.0
16C4	1"	1.53	250	6.0
20C4	1-1/4"	1.78	200	8.0
24C4	1-1/2"	2.07	150	10.0
32C4	2"	2.54	100	12.0
40C4	2-1/2"	3.12	62	14.0
48C4	3"	3.62	56	18.0

SAE 100R5 1-WIRE BRAID TEXTILE COVER



Meets or exceeds the performance requirements of SAE 100R5, SAE J1402 Type All (up to -12 size)

DOT Approved

Recommended for: Medium to high pressure hydraulic oil applications. Suitable for under the hood automotive/trucking applications including hydraulic oil, diesel fuel, lubrication oil and transmission oil coolers. Size -4 to -12 also comply with SAE J1402 Type All "Automotive Air Brake Hose" for use in truck air brake systems including flexible connections from frame to axle, tractor to trailer, and other unshielded air lines that are exposed to potential pull or impact.

Tube: Black, oil resistant synthetic rubber (Nitrile)

Reinforcement: Polyester inner braid covered with one braid of high tensile steel wire

Cover: Black polyester braid. Skiving of cover is not required.

Temperature Range: -40F to +212F

Uses M series hose ends. Can use field attachable ends as well

ITEM	Hose ID	Hose OD	Working PSI	Bend Radius
4C5C	3/16	.52	3050	3.00
5C5C	1/4	.58	3050	3.38
6C5C	5/16	.67	2250	4.00
8C5C	13/32	.77	2000	4.62
10C5C	1/2	.92	1750	5.50
12C5C	5/8	1.08	1500	6.50
16C5C	7/8	1.23	800	7.38
20C5C	1-1/8	1.50	625	9.00
24C5C	1-3/8	1.75	500	10.50
32C5C	1-13/16	2.22	350	13.25
40C5C	2-3/8	2.88	350	24.00

SURVIVOR SAE 100R5 1 WIRE TEXTILE COVER



Meets or exceeds the performance requirements of SAE 100R5, SAE J1402 Type All (up to -12 size)

DOT Approved

Recommended for: Medium to high pressure hydraulic oil applications, or where resistance to phosphate ester** fluid is required. The small bend radius, temperature and light weight make it suitable for under the hood automotive/trucking applications including hydraulic oil, diesel fuel, lubrication oil and transmission oil coolers.

Tube: Black, synthetic rubber, specifically compounded for temperature resistance and multi fluid resistance

Reinforcement: Polyester inner braid covered with one braid of high tensile steel wire

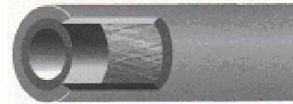
Cover: Blue polyester braid. Skiving of cover is not required.

Temperature Range: -40F to +302F

Uses M series hose ends. Can use field attachable ends as well

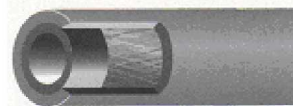
ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RQP54	-4	3/16	.52	3050	3.0
RQP55	-5	1/4	.58	3050	3.3
RQP56	-6	5/16	.68	2250	4.0
RQP58	-8	13/32	.76	2000	4.6
RQP510	-10	1/2	.92	1750	5.5
RQP512	-12	5/8	1.08	1500	6.5
RQP516	-16	7/8	1.24	800	7.4
RQP520	-20	1-1/8	1.50	625	9.0
RQP524	-24	1-3/8	1.75	500	10.5
RQP532	-32	1-13/16	2.22	350	13.3

SAE 100R3 2 Textile Braid



ITEM	Hose ID	Hose OD	Working PSI	Bend Radius
4C3	1/4	.56	1250	3.0
6C3	3/8	.75	1125	4.0
8C3	1/2	.94	1000	5.0
12C3	3/4	1.25	750	6.0
16C3	1"	1.50	565	8.0

PUSH-ON HOSE RUBBER COVER



Recommended for: Petroleum based hydraulic oils, glycol antifreeze solutions, water, diesel fuels, and air

Tube: Black, oil resistant synthetic rubber (Nitrile)

Reinforcement: One textile braid

Cover: Black, oil and abrasion resistant synthetic rubber

Flame Resistant: Meets Flame Resistance Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: -40F to +203F

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
4LOLA	-4	1/4	1/2	300	3.0
5LOLA	-5	5/16	9/16	300	3.0
6LOLA	-6	3/8	5/8	300	3.0
8LOLA	-8	1/2	3/4	300	5.0
10LOLA	-10	5/8	29/32	300	6.0
12LOLA	-12	3/4	1-1/32	300	6.9

SURVIVOR PUSH-ON HOSE



Recommended for: Hydraulic oil lines, transmission oil cooler lines, glycol antifreeze solutions, water, diesel fuels and air.

Tube: Black, oil resistant synthetic rubber (Nitrile)

Reinforcement: One textile braid

Cover: Blue, oil and abrasion resistant synthetic rubber

Flame Resistant: Meets Flame Resistance Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range:

Petroleum base hydraulic oils & transmissions oils: -40F to +257F constant, and up to +275F intermittent (up to 10% of operating time).

Air: -40F to +212F

Diesel fuels: -40F to +160F

Water: +160F

Should not be used at both maximum working pressures and maximum temperature simultaneously.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RQP64	-4	1/4	.50	400	2.5
RQP65	-5	5/16	.56	400	3.0
RQP66	-6	3/8	.63	400	3.0
RQP68	-8	1/2	.78	400	4.0
RQP610	-10	5/8	.91	350	5.0
RQP612	-12	3/4	1.04	300	6.0

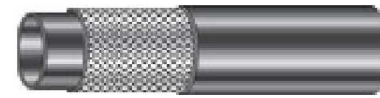
FUEL LINE HOSE



BULK PAK 25FT SPOOL

ITEM	Hose ID	Hose OD
4FLH	1/4	1/2
5FLH	5/16	9/16
6FLH	3/8	5/8

SAE 100R7 THERMOPLASTIC



Meets or exceeds the performance requirements (except electrical non-conductivity tests) of SAE 100R7. Note: 1/8" size is not included in the above standards.

Recommended for: High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F. Suitable for use with some gases, fluids, and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

Tube: 1/8"—oil resistant seamless thermoplastic (polyester); 3/16"-3/4"—oil resistant seamless thermoplastic (nylon)

Reinforcement: 1/8"—One braid of synthetic yarn (polyester); 3/16"-3/4"—One or two braids of synthetic yarn (nylon)

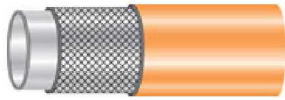
Cover: Black, oil and abrasion resistant thermoplastic (polyurethane)

Temperature Range: from -40F to +203F

Uses the M series hose ends. No skiving required. Special assembly procedures required for 1/8" hose. Contact Technical Department for further information.

ITEM	Hose ID	Hose OD	Working PSI	Bend Radius
4C7	1/4	29/64	2750	4.0
5C7	5/16	9/16	2500	4.5
6C7	3/8	5/8	2250	5.0
8C7	1/2	51/64	2000	7.0
10C7	5/8		1500	8.0
12C7	3/4	1-1/16	1250	9.5
16C7	1	1-3/8	1000	12.0

SAE 100R7 THERMOPLASTIC NON-CONDUCTIVE



Meets or exceeds the performance requirements (including electrical non-conductivity tests) of SAE 100R7.

Recommended for: High pressure hydraulic oil lines where electrical non-conductivity is required. For use in applications where there is a potential for contact with high voltage sources. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F.

Electrical Non-Conductivity: Meets non-conductivity requirements of SAE 100R7. Incorrect storage and use, particularly those leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

Tube: White, oil resistant seamless thermoplastic (polyester)

Reinforcement: One or two braids of synthetic yarn (polyester)

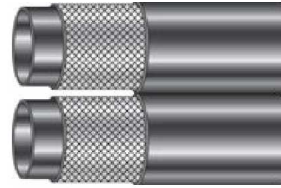
Cover: Orange, oil and abrasion resistant thermoplastic (polyurethane)

Temperature Range: -40F to +203F

Uses the M series hose ends. No skiving required.

ITEM	Hose ID	Hose OD	Working PSI	Bend Radius
4C7NC	1/4	29/64	2750	4.0
5C7NC	5/16	9/16	2500	4.5
6C7NC	3/8	5/8	2250	5.0
8C7NC	1/2	51/64	2000	7.0
10C7NC	5/8		1500	8.0
12C7NC	3/4	1-1/16	1250	9.5
16C7NC	1	1-3/8	1000	12.0

SAE 100R7 THERMOPLASTIC TWIN LINE



Meets or exceeds the performance requirements (except electrical non-conductivity tests) of SAE 100R7.

Recommended for: Consists of two 100R7 hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used on dispensing equipment and other applications requiring two hoses. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F. Suitable for use with some gases, fluids, and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

Tube: oil resistant seamless thermoplastic (nylon)

Reinforcement: one or two braids of synthetic yarn (nylon)

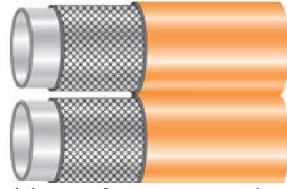
Cover: Black, oil and abrasion resistant thermoplastic (polyurethane)

Temperature Range: from -40F to +203F

Uses the M series hose ends. No skiving required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT74T	-4	1/4	.50 X 2	2750	4.0
RT75T	-5	5/16	.58 X 2	2500	4.5
RT76T	-6	3/8	.65 X 2	2250	5.0
RT78T	-8	1/2	.83 X 2	2000	7.0

**SAE 100R7 THERMOPLASTIC
NON-CONDUCTIVE TWIN LINE**



Meets or exceed the performance requirements (including electrical non-conductivity tests) of SAE 100R7.

Recommended for: Consists of two 100R7 hoses of the same size. Used where electrical non-conductivity is required. For use in applications where there is a potential for contact with high voltage sources. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +185F.

Electrical Non-Conductivity: Meets non-conductivity requirements of SAE 100R7. Incorrect storage and use, particularly those leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

Tube: White, oil resistant seamless thermoplastic (polyester)

Reinforcement: One or two braids of synthetic yarn (polyester)

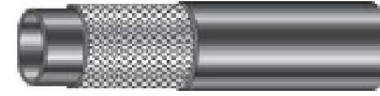
Cover: Orange, oil and abrasion resistant thermoplastic (polyurethane)

Temperature Range: -40F to +203F

Uses the M series hose ends. No skiving is required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT74TN	-4	1/4	.50 X 2	2750	4.0
RT75TN	-5	5/16	.58 X 2	2500	4.5
RT76TN	-6	3/8	.65 X 2	2250	5.0
RT78TN	-8	1/2	.81 X 2	2000	7.0

SAE 100R8 THERMOPLASTIC



Meets or exceeds the performance requirements (except electrical non-conductivity) of SAE 100R8.

Recommended for: High pressure oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

Tube: Oil resistant seamless thermoplastic (Nylon). Smooth inner tube for high flow rate.

Reinforcement: One or two braids of synthetic yarn (Aramid).

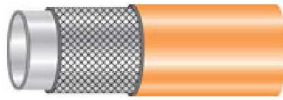
Cover: Black, oil and abrasion resistant thermoplastic (Polyurethane). Smooth, easy to clean cover.

Temperature Range: from -40F to +203F

Uses M series hose ends. No skiving required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT84	-4	1/4	.50	5000	4.0
RT86	-6	3/8	.65	4000	5.0
RT88	-8	1/2	.81	3500	7.0

SAE 100R8 THERMOPLASTIC NON-CONDUCTIVE



Meets or exceeds the performance requirements (except electrical non-conductivity) of SAE 100R8.

Recommended for: High pressure hydraulic oil lines where electrical nonconductivity is required (for use in applications where there is potential for contact with high voltage sources). Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F. Smooth inner tube for high flow rate; smooth, easily cleaned cover. The aramid reinforcement gives RT8N Hose excellent corrosion and fatigue resistance, and low elongation of +/-2% at maximum dynamic working pressure.

Tube: White, oil resistant seamless thermoplastic (polyester)

Reinforcement: One or two braids of synthetic yarn (Aramid).

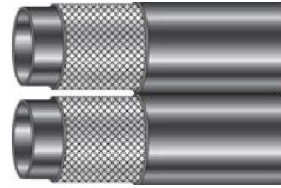
Cover: Orange, oil and abrasion resistant thermoplastic (Polyurethane). Cover is unperforated.

Temperature Range: from -40F to +203F

Uses M series hose ends. No skiving required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT84N	-4	1/4	.50	5000	4.0
RT86N	-6	3/8	.65	4000	5.0
RT88N	-8	1/2	.81	3500	7.0

SAE 100R8 THERMOPLASTIC TWIN LINE



Meets or exceeds the performance requirements (except electrical non-conductivity) of SAE 100R8.

Recommended for: Consists of two RT8 series hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used on dispensing equipment and other applications requiring two hoses. Suitable for mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

Tube: Oil resistant seamless thermoplastic (Nylon). Smooth inner tube for high flow rate.

Reinforcement: One or two braids of synthetic yarn (Aramid).

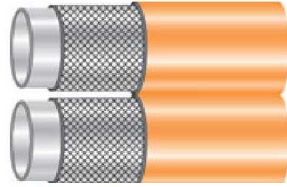
Cover: Black, oil and abrasion resistant thermoplastic (Polyurethane). Smooth, easy to clean cover.

Temperature Range: from -40F to +203F

Uses M series hose ends. No skiving required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT84T	-4	1/4	.50 X 2	5000	4.0
RT86T	-6	3/8	.65 X 2	4000	5.0
RT88T	-8	1/2	.81 X 2	3500	7.0

SAE 100R8 THERMOPLASTIC NON-CONDUCTIVE TWIN LINE



Meets or exceeds the performance requirements (including electrical non-conductivity tests) of SAE 100R8.

Recommended for: Consists of two RT8N series hoses of the same size, permanently joined together in a flat compat form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used for hydraulic powered hand tools, such as loppers and chain saws, and other applications requiring two hoses. Suitable for use with mineral, vegetable, and most ester based hydraulic fluids. Heat and hydrolysis stabilized for use with water based hydraulic fluids up to +158F.

Electrical Non-Conductivity: meets non-conductivity requirements of SAE 100R8. Incorrect storage and use, particularly that leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

Tube: White, oil resistant seamless thermoplastic (Polyester). Smooth inner tube for high flow rate.

Reinforcement: One or two braids of synthetic yarn (Aramid).

Cover: Orange, oil and abrasion resistant thermoplastic (Polyurethane). Cover is unperforated. Smooth, easily cleaned cover.

Temperature Range: from -40F to +203F

Uses M series hose ends. No skiving required.

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
RT84TN	-4	1/4	.50 X 2	5000	4.0
RT86TN	-6	3/8	.65 X 2	4000	5.0
RT88TN	-8	1/2	.81 X 2	3500	7.0

STAINLESS STEEL TEFLON HOSE



Meets or exceeds the performance requirements of SAE 100R14.

Recommended for: High pressure hydraulic oil lines. Fluids at extremes of pressure and temperature.

Tube: Teflon (PTFE)

Reinforcement & Cover: One braid of high tensile Grade 304 stainless steel wire.

Temperature Range: From -76F to +500F. (According to application)

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
H24304	-4	1/4	.37	3000	3.0
H24306	-6	3/8	.51	2000	5.0
H24308	-8	1/2	.63	1750	6.5
H24310	-10	5/8	.76	1500	7.5
H24312	-12	3/4	.88	1000	8.5
H24316	-16	1	1.13	1000	12.0

JACK HOSE



Meets Materials Handling Institute specification IJ 100 (July 1979) for hydraulic hose and assemblies used with jacking systems.

Recommended for: Hydraulic jack applications requiring a light weight, small outside diameter hose.

Tube: Black, oil resistant synthetic rubber. (Nitrile)

Reinforcement: Two braids of high tensile steel wire.

Cover: Black, extra abrasion resistant and oil resistant rubber. "FRAS" Flame Resistant and Anti-Static

Flame Resistance: Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration

Temperature Range: From -40F to + 120F

No skiving required with the B series hose ends

ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
TJ24D	-4	1/4	.59	10000	4.0
TJ26D	-6	3/8	.75	10000	5.0

AIR BRAKE HOSE



- Spiral synthetic cord reinforcement with neoprene cover
- -40F to +200F temperature range
- Max operating pressure 255 psi
- Max burst pressure 900 psi
- Meets SAE J1402

ITEM	Dash	Hose ID	Hose OD	Working PSI
AIR BRAK-6	-6	3/8	3/4	255
AIR BRAK-8	-8	1/2	7/8	255

AIR CONDITIONING HOSE



ITEM	Dash	Hose ID	Hose OD	Working PSI	Bend Radius
ACH-6	-6	5/16	.75	350	4.0
ACH-8	-8	13/32	.91	350	4.7
ACH-10	-10	1/2	1.00	350	5.5
ACH-12	-12	5/8	1.13	350	6.5

NYLON HOSE GUARD



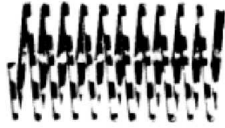
ITEM	Nominal I.D.	Outside Flat
HG-10	.77	1.25
HG-16	1.14	1.88
HG-20	1.30	2.13
HG-24	1.53	2.50
HG-28	1.75	2.81
HG-30	1.85	3.00
HG-32	2.25	3.63
HG-42	2.64	4.25
HG-50	3.66	5.81
HG-46	2.96	4.75

BEND RESTRICTORS



ITEM
BR14B
BR38B
BR12B

SPRING GUARD



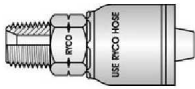
Recommended for: Protection for hose cover against abrasion and deep gouges, thus prolonging the life of the hose.

Construction: Spring steel wire, galvanized for corrosion protection

ITEM	Nominal I.D.
RWA-16	.63
RWA-20	.78
RWA-23	.91
RWA-27	1.06
RWA-31	1.22
RWA-34	1.34
RWA-41	1.61
RWA-49	1.93
RWA-56	2.20
RWA-68	2.68

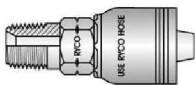
HYDRAULIC HOSE ENDS

B SERIES 1 PIECE CRIMP COUPLINGS FOR 1 & 2 WIRE HOSE
MALE PIPE RIGID



ITEM
3B-2MP
3B-4MP
4B-2MP
4B-4MP
4B-6MP
4B-8MP
6B-4MP
6B-6MP
6B-8MP
8B-6MP
8B-8MP
8B-12MP
10B-8MP
10B-12MP
12B-8MP
12B-12MP
12B-16MP
16B-12MP
16B-16MP
16B-20MP
20B-20MP

LONG MALE PIPE RIGID



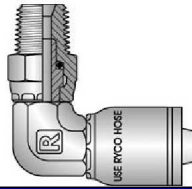
ITEM
4B-6MPL
MALE PIPE SWIVEL



ITEM
4B-2MPX

ITEM
4B-4MPX
4B-6MPX
6B-4MPX
6B-6MPX
6B-8MPX
8B-6MPX
8B-8MPX
12B-12MPX
16B-16MPX

MALE PIPE SWIVEL 90



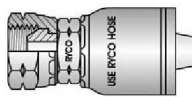
ITEM
4B-4MPX90
6B-6MPX90
8B-8MPX90
12B-12MPX90

FEMALE PIPE RIGID



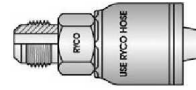
ITEM
4B-4FP
4B-6FP
6B-6FP
6B-8FP
8B-6FP
8B-8FP
10B-12FP
12B-12FP

FEMALE PIPE SWIVEL



ITEM
4B-4FPX
6B-4FPX
6B-6FPX
6B-8FPX
8B-8FPX
12B-12FPX
16B-16FPX

MALE JIC



ITEM
4B-4MJ
4B-5MJ
4B-6MJ
4B-8MJ
5B-6MJ
6B-6MJ
6B-8MJ
6B-10MJ
8B-8MJ
8B-10MJ
8B-12MJ
10B-10MJ
10B-12MJ
12B-12MJ
12B-14MJ
12B-16MJ
16B-16MJ
16B-20MJ
20B-20MJ

FEMALE JIC SWIVEL

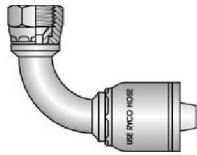


ITEM
3B-4FJX
4B-4FJX
4B-5FJX
4B-6FJX
4B-8FJX
6B-4FJX
6B-6FJX
6B-8FJX
6B-10FJX
8B-6FJX
8B-8FJX
8B-10FJX
8B-12FJX
10B-8FJX
10B-10FJX
10B-12FJX
12B-10FJX

FEMALE JIC SWIVEL	
ITEM	
12B-12FJX	
12B-14FJX	
12B-16FJX	
16B-12FJX	
16B-16FJX	
20B-20FJX	
FEMALE JIC SWIVEL 45	

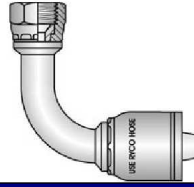


ITEM	
4B-4FJX45	
4B-5FJX45	
4B-6FJX45	
6B-6FJX45	
6B-8FJX45	
8B-8FJX45	
8B-10FJX45	
10B-10FJX45	
10B-12FJX45	
12B-12FJX45	
12B-16FJX45	
16B-16FJX45	
20B-20FJX45	
FEMALE JIC SWIVEL 90 SHORT	



ITEM	
4B-4FJX90S	
4B-5FJX90S	
4B-6FJX90S	
5B-6FJX90S	
6B-6FJX90S	
6B-8FJX90S	
8B-8FJX90S	
8B-10FJX90S	
10B-8FJX90S	
10B-10FJX90S	
10B-12FJX90S	
12B-12FJX90S	
12B-16FJX90S	
16B-16FJX90S	

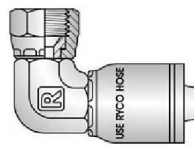
ITEM	
16B-20FJX90S	
20B-20FJX90S	
FEMALE JIC SWIVEL 90 LONG	



ITEM	
4B-4FJX90L	
4B-5FJX90L	
6B-6FJX90L	
6B-8FJX90L	
8B-8FJX90L	
8B-10FJX90L	
10B-10FJX90L	
10B-12FJX90L	
12B-12FJX90L	
16B-16FJX90L	
20B-20FJX90L	
FEMALE JIC SWIVEL 45 BLOCK	

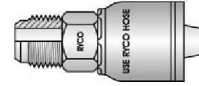


ITEM	
4B-4FJX45BL	
6B-6FJX45BL	
6B-8FJX45BL	
8B-8FJX45BL	
8B-10FJX45BL	
12B-12FJX45BL	
16B-16FJX45BL	
FEMALE JIC SWIVEL 90 BLOCK	



ITEM	
4B-4FJX90BL	
4B-5FJX90BL	
4B-6FJX90BL	
6B-6FJX90BL	
6B-8FJX90BL	
8B-8FJX90BL	

ITEM	
8B-10FJX90BL	
8B-12FJX90BL	
12B-12FJX90BL	
16B-16FJX90BL	
MALE SAE	



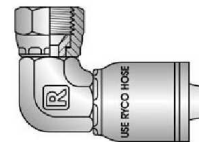
ITEM	
4B-6MS	
6B-6MS	
FEMALE SAE SWIVEL	



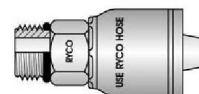
ITEM	
4B-6FSX	
6B-6FSX	
12B-12FSX	
FEMALE SAE SWIVEL 45	



ITEM	
6B-6FSX45	
FEMALE SAE SWIVEL 90	



ITEM	
6B-6FSX90	
SAE MALE BOSS	



ITEM	
4B-4MB	

SAE MALE BOSS

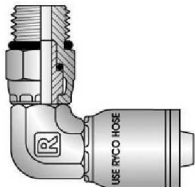
ITEM
4B-5MB
4B-6MB
6B-6MB
6B-8MB
6B-10MB
8B-8MB
8B-10MB
8B-12MB
10B-10MB
10B-12MB
12B-12MB
12B-16MB
16B-16MB
20B-20MB

MALE BOSS SWIVEL



ITEM
6B-6MBX
6B-8MBX
8B-8MBX
8B-10MBX
8B-12MBX
10B-10MBX
12B-12MBX

MALE BOSS SWIVEL 90



ITEM
6B-6MBX90
6B-8MBX90
6B-10MBX90
8B-8MBX90
8B-10MBX90
12B-12MBX90

MALE FLARELESS



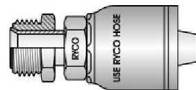
ITEM
4B-4MFA
4B-5MFA
6B-5MFA
6B-6MFA
6B-8MFA
8B-8MFA
8B-10MFA
12B-12MFA
16B-16MFA

FEMALE BRAZE-ON



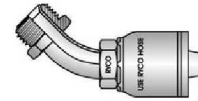
ITEM
4B-4FBO
4B-5FBO
4B-6FBO
6B-6FBO
6B-8FBO
8B-8FBO
8B-10FBO
10B-10FBO
10B-12FBO
12B-12FBO
16B-16FBO

MALE INVERTED FLARE SWIVEL



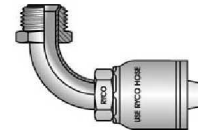
ITEM
4B-4MIX
6B-6MIX
6B-7MIX

MALE INVERTED FLARE SWIVEL 45



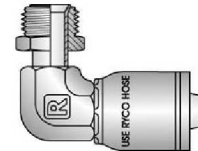
ITEM
6B-6MIX45

MALE INVERTED FLARE SWIVEL 90



ITEM
4B-4MIX90
6B-6MIX90

MALE INVERTED FLARE SWIVEL 90 BLOCK



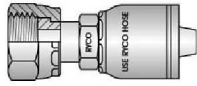
ITEM
6B-6MIX90BL
6B-7MIX90BL

MALE FLAT FACE



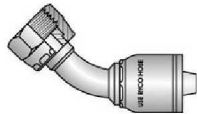
ITEM
4B-4MFFOR
4B-6MFFOR
6B-6MFFOR
6B-8MFFOR
8B-8MFFOR
8B-10MFFOR
10B-10MFFOR
10B-12MFFOR
12B-12MFFOR
16B-16MFFOR
20B-20MFFOR

FEMALE FLAT FACE SWIVEL



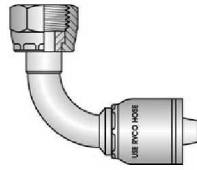
ITEM
4B-4FFORX
4B-6FFORX
6B-4FFORX
6B-6FFORX
6B-8FFORX
8B-6FFORX
8B-8FFORX
8B-10FFORX
8B-12FFORX
10B-10FFORX
10B-12FFORX
12B-10FFORX
12B-12FFORX
12B-16FFORX
16B-16FFORX
20B-20FFORX

FEMALE FLAT FACE SWIVEL 45



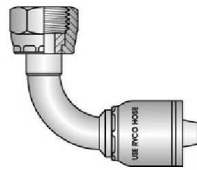
ITEM
4B-4FFORX45
4B-6FFORX45
6B-6FFORX45
6B-8FFORX45
8B-8FFORX45
10B-10FFORX45
8B-10FFORX45
10B-12FFORX45
12B-12FFORX45
12B-16FFORX45
16B-16FFORX45
20B-20FFORX45

FEMALE FLAT FACE SWIVEL 90 SHORT



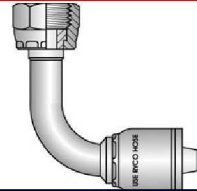
ITEM
4B-4FFORX90S
4B-6FFORX90S
6B-6FFORX90S
6B-8FFORX90S
8B-8FFORX90S
8B-10FFORX90S
8B-12FFORX90S
10B-10FFORX90S
10B-12FFORX90S
12B-12FFORX90S
12B-16FFORX90S
16B-16FFORX90S
20B-20FFORX90S

FEMALE FLAT FACE SWIVEL 90 MEDIUM



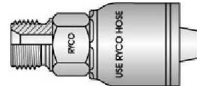
ITEM
4B-4FFORX90M
4B-6FFORX90M
6B-6FFORX90M
6B-8FFORX90M
8B-8FFORX90M
8B-10FFORX90M
8B-12FFORX90M
10B-10FFORX90M
10B-12FFORX90M
12B-8FFORX90M
12B-12FFORX90M
12B-16FFORX90M
16B-16FFORX90M
20B-20FFORX90M

FEMALE FLAT FACE SWIVEL 90 LONG



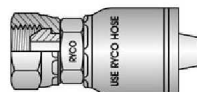
ITEM
4B-4FFORX90L
4B-6FFORX90L
6B-6FFORX90L
6B-8FFORX90L
8B-8FFORX90L
8B-10FFORX90L
8B-12FFORX90L
10B-10FFORX90L
10B-12FFORX90L
12B-12FFORX90L
12B-16FFORX90L
16B-16FFORX90L
20B-20FFORX90L

MALE BRITISH STANDARD PARALLEL PIPE



ITEM
3B-2MBSPP
4B-4MBSPP
6B-6MBSPP
6B-8MBSPP
8B-8MBSPP
8B-10MBSPP
10B-10MBSPP
12B-12MBSPP
16B-16MBSPP
20B-20MBSPP

FEMALE BRITISH PARALLEL PIPE SWIVEL

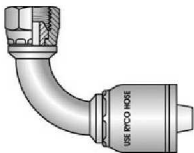


ITEM
4B-2FBSPPX
4B-4FBSPPX
4B-6FBSPPX

FEMALE BRITISH PARALLEL PIPE SWIVEL	
ITEM	
6B-4FBSPPX	
6B-6FBSPPX	
6B-8FBSPPX	
8B-6FBSPPX	
8B-8FBSPPX	
8B-12FBSPPX	
10B-10FBSPPX	
10B-12FBSPPX	
12B-12FBSPPX	
16B-16FBSPPX	
16B-20FBSPPX	
20B-20FBSPPX	
FEMALE BRITISH PARALLEL PIPE SWIVEL 45	

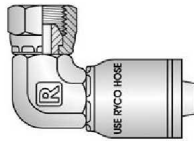


ITEM	
4B-4FBSPPX45	
6B-6FBSPPX45	
8B-8FBSPPX45	
10B-10FBSPPX45	
12B-12FBSPPX45	
16B-16FBSPPX45	
20B-20FBSPPX45	
FEMALE BRITISH PARALLEL PIPE 90 SHORT	



ITEM	
4B-4FBSPPX90S	
4B-6FBSPPX90S	
6B-6FBSPPX90S	
6B-8FBSPPX90S	
8B-8FBSPPX90S	
8B-10FBSPPX90S	
10B-10FBSPPX90S	
12B-12FBSPPX90S	
16B-16FBSPPX90S	
20B-20FBSPPX90S	

FEMALE BRITISH PARALLEL PIPE 45 BLOCK	
ITEM	
6B-6FBSPPX45BL	
FEMALE BRITISH PARALLEL PIPE 90 BLOCK	



ITEM	
4B-4FBSPPX90BL	
4B-6FBSPPX90BL	
6B-6FBSPPX90BL	
6B-8FBSPPX90BL	
8B-8FBSPPX90BL	
12B-12FBSPPX90BL	
FEMALE BRITISH FLAT FACE SWIVEL	



ITEM	
6B-8FBFFX	
8B-8FBFFX	
MALE BRITISH PIPE TAPER	

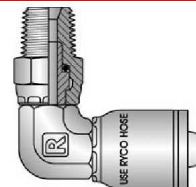


ITEM	
4B-2MBSPT	
4B-4MBSPT	
4B-6MBSPT	
4B-8MBSPT	
6B-4MBSPT	
6B-6MBSPT	
6B-8MBSPT	
8B-6MBSPT	
8B-8MBSPT	

ITEM	
8B-10MBSPT	
10B-8MBSPT	
10B-10MBSPT	
10B-12MBSPT	
12B-12MBSPT	
16B-16MBSPT	
20B-20MBSPT	
MALE BRITISH PIPE TAPER SWIVEL	



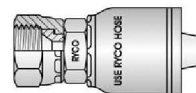
ITEM	
6B-6MBSPTX	
6B-8MBSPTX	
8B-8MBSPTX	
MALE BRITISH PIPE TAPER SWIVEL 90	



ITEM	
6B-6MBSPTX90	
6B-8MBSPTX90	
8B-8MBSPTX90	
MALE JAPANESE INDUSTRIAL STANDARD	

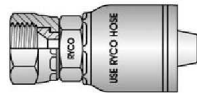


ITEM	
6B-6MJIS	
8B-8MJIS	
FEMALE JAPANESE INDUSTRIAL STANDARD SWIVEL	



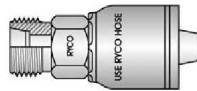
ITEM	
4B-4FJISX	

FEMALE JAPANESE INDUSTRIAL STANDARD SWIVEL	
ITEM	
6B-6FJISX	
6B-8FJISX	
8B-8FJISX	
12B-12FJISX	
16B-16FJISX	




ITEM	
4B-4FKX	
6B-6FKX	
6B-8FKX	
8B-8FKX	
8B-10FKX	
10B-10FKX	
10B-12FKX	
12B-10FKX	
12B-12FKX	
12B-16FKX	
16B-16FKX	

MALE DIN LIGHT

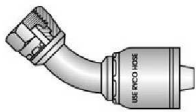


ITEM	
4B-6MDL	
4B-8MDL	
6B-10MDL	
6B-12MDL	
6B-15MDL	
8B-15MDL	
8B-18MDL	
10B-18MDL	
12B-22MDL	
16B-28MDL	

FEMALE DIN LIGHT SWIVEL	
	

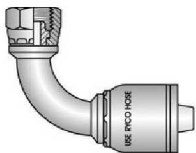
ITEM	
4B-6FDLX	
4B-8FDLX	
4B-10FDLX	
6B-10FDLX	
6B-12FDLX	
8B-15FDLX	
8B-18FDLX	
10B-18FDLX	
12B-22FDLX	
16B-28FDLX	
20B-35FDLX	

FEMALE DIN LIGHT SWIVEL 45



ITEM	
4B-6FDLX45	
4B-8FDLX45	
6B-10FDLX45	
6B-12FDLX45	
8B-15FDLX45	
8B-18FDLX45	
10B-18FDLX45	
12B-22FDLX45	
16B-28FDLX45	

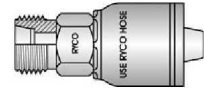
FEMALE DIN LIGHT SWIVEL 90



ITEM	
4B-6FDLX90	
4B-8FDLX90	
4B-10FDLX90	
6B-10FDLX90	
6B-12FDLX90	
8B-15FDLX90	
8B-18FDLX90	

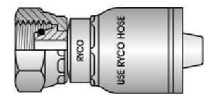
ITEM	
10B-18FDLX90	
12B-22FDLX90	
16B-28FDLX90	

MALE DIN HEAVY



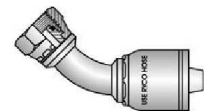
ITEM	
4B-8MDH	
4B-10MDH	
6B-12MDH	
6B-14MDH	
8B-16MDH	
10B-20MDH	
12B-20MDH	
12B-25MDH	
16B-30MDH	
20B-38MDH	

FEMALE DIN HEAVY SWIVEL



ITEM	
4B-6FDHX	
4B-8FDHX	
4B-10FDHX	
6B-12FDHX	
6B-14FDHX	
8B-16FDHX	
10B-20FDHX	
12B-20FDHX	
12B-25FDHX	
16B-30FDHX	
20B-38FDHX	

FEMALE DIN HEAVY SWIVEL 45

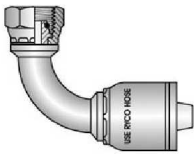


ITEM	
4B-6FDHX45	
4B-8FDHX45	

FEMALE DIN HEAVY SWIVEL 45

ITEM
4B-10FDHX45
6B-12FDHX45
6B-14FDHX45
8B-16FDHX45
10B-20FDHX45
12B-20FDHX45
12B-25FDHX45
16B-30FDHX45
20B-38FDHX45

FEMALE DIN HEAVY SWIVEL 90



ITEM
4B-6FDHX90
4B-8FDHX90
4B-10FDHX90
6B-12FDHX90
6B-14FDHX90
8B-16FDHX90
10B-20FDHX90
12B-20FDHX90
12B-25FDHX90
16B-30FDHX90
20B-38FDHX90

METRIC STAND PIPE



ITEM
4B-6MSP
4B-8MSP
4B-10MSP
6B-12MSP
8B-15MSP
8B-16MSP

STAND PIPE



ITEM
4B-6SP
6B-6SP
8B-8SP
8B-10SP
16B-16SP

FEMALE GREASE END



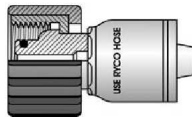
ITEM
4B-8FG

HOSE SPLICER



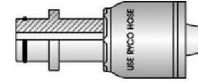
ITEM
4B-MEND
6B-MEND
8B-MEND
10B-MEND
12B-MEND
16B-MEND

PRESSURE WASHER SWIVEL



ITEM
4B-6PWX
6B-6PWX

MALE PRESSURE WASHER



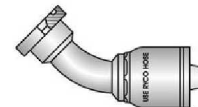
ITEM
4B-4MPW

CODE 61 FLANGE



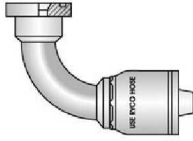
ITEM
8B-8FL
8B-12FL
10B-10FLK
12B-10FLK
12B-12FL
12B-16FL
16B-16FL
16B-20FL
16B-24FL
20B-20FL

CODE 61 FLANGE 45



ITEM
8B-8FL45
8B-12FL45
10B-10FLK45
12B-12FL45
12B-16FL45
16B-16FL45
16B-20FL45
16B-24FL45
20B-20FL45
20B-24FL45

CODE 61 FLANGE 90



ITEM

8B-8FL90

8B-12FL90

10B-10FLK90

12B-12FL90

12B-16FL90

16B-16FL90

16B-20FL90

20B-20FL90

20B-24FL90

F SERIES 1 PIECE CRIMP COUPLINGS FOR 4 WIRE HOSE

MALE PIPE RIGID



ITEM
6F-4MP
6F-6MP
8F-6MP
8F-8MP
12F-12MP
16F-12MP
16F-16MP
20F-16MP
20F-20MP
24F-24MP
32F-32MP

MALE PIPE RIGID LONG



ITEM
32F-32MPL

FEMALE PIPE SWIVEL



ITEM
20F-20FPX
24F-24FPX
32F-32FPX

MALE JIC



ITEM
6F-6MJ
8F-8MJ
8F-10MJ

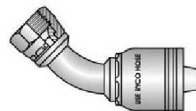
ITEM
12F-12MJ
16F-16MJ
20F-20MJ
24F-24MJ
32F-32MJ

FEMALE JIC SWIVEL



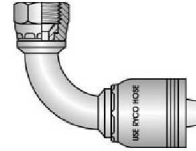
ITEM
6F-6FJX
6F-8FJX
8F-8FJX
8F-10FJX
8F-12FJX
10F-10FJX
10F-12FJX
12F-10FJX
12F-12FJX
12F-14FJX
12F-16FJX
16F-12FJX
16F-16FJX
16F-20FJX
20F-16FJX
20F-20FJX
20F-24FJX
24F-24FJX
32F-32FJX

FEMALE JIC SWIVEL 45



ITEM
6F-6FJX45
8F-8FJX45
8F-10FJX45
10F-10FJX45
10F-12FJX45
12F-12FJX45
12F-16FJX45
16F-16FJX45
20F-20FJX45
24F-24FJX45
32F-32FJX45

FEMALE JIC SWIVEL 90 SHORT



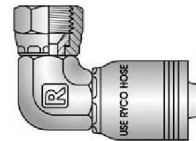
ITEM
6F-6FJX90S
8F-8FJX90S
8F-10FJX90S
10F-10FJX90S
10F-12FJX90S
12F-12FJX90S
12F-16FJX90S
16F-16FJX90S
20F-20FJX90S
24F-24FJX90S
32F-32FJX90S

FEMALE JIC SWIVEL 90 LONG



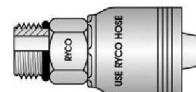
ITEM
12F-12FJX90L
16F-16FJX90L
20F-20FJX90L

FEMALE JIC SWIVEL 90 BLOCK



ITEM
16F-16FJX90BL

SAE MALE BOSS



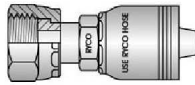
ITEM
12F-12MB
16F-16MB

MALE FLAT FACE



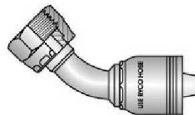
ITEM
6F-6MFFOR
8F-8MFFOR
12F-12MFFOR
16F-16MFFOR
20F-20MFFOR

FEMALE FLAT FACE SWIVEL



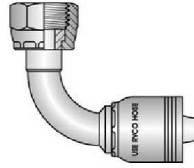
ITEM
6F-6FFORX
8F-8FFORX
8F-10FFORX
8F-12FFORX
10F-10FFORX
12F-12FFORX
24F-24FFORX
12F-16FFORX
16F-16FFORX
16F-20FFORX
20F-20FFORX

FEMALE FLAT FACE SWIVEL 45



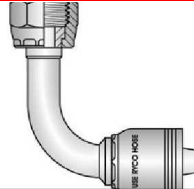
ITEM
6F-6FFORX45
6F-8FFORX45
8F-8FFORX45
10F-10FFORX45
12F-12FFORX45
16F-16FFORX45
20F-20FFORX45

FEMALE FLAT FACE SWIVEL 90 MEDIUM



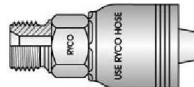
ITEM
6F-6FFORX90M
8F-8FFORX90M
8F-10FFORX90M
10F-10FFORX90M
12F-12FFORX90M
16F-16FFORX90M
20F-20FFORX90M

FEMALE FLAT FACE SWIVEL 90 LONG



ITEM
12F-12FFORX90L
16F-16FFORX90L
20F-20FFORX90L

MALE BRITISH STANDARD PARALLEL PIPE



ITEM
6F-6MBSPP
8F-8MBSPP
12F-12MBSPP
16F-16MBSPP
20F-20MBSPP
24F-24MBSPP
32F-32MBSPP

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL



ITEM
6F-6FBSPPX
8F-8FBSPPX
12F-12FBSPPX
16F-16FBSPPX
20F-20FBSPPX
24F-24FBSPPX
32F-32FBSPPX

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL HEAVY DUTY



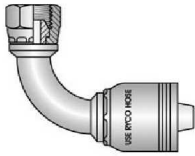
ITEM
8F-8FBSPPXH
12F-12FBSPPXH
16F-16FBSPPXH
20F-20FBSPPXH

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 45



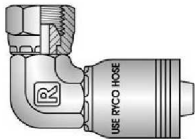
ITEM
6F-6FBSPPX45
8F-8FBSPPX45
12F-12FBSPPX45
16F-16FBSPPX45
20F-20FBSPPX45
24F-24FBSPPX45
32F-32FBSPPX45

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 90 SHORT



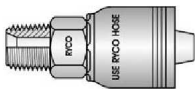
ITEM
8F-8FBSPPX90S
12F-12FBSPPX90S
16F-16FBSPPX90S
20F-16FBSPPX90S
20F-20FBSPPX90S
24F-24FBSPPX90S
32F-32FBSPPX90S

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 90 BLOCK



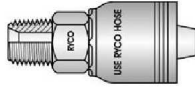
ITEM
12F-12FBSPPX90BL
16F-16FBSPPX90BL

MALE BRITISH STANDARD PIPE TAPER



ITEM
6F-6MBSPT
8F-8MBSPT
12F-12MBSPT
16F-16MBSPT
20F-20MBSPT
24F-24MBSPT
32F-32MBSPT

MALE BRITISH STANDARD PIPE TAPER HEAVY DUTY

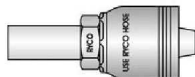


FEMALE BRAZE-ON



ITEM
8F-8FBO
8F-10FBO
12F-10FBO
12F-12FBO
12F-16FBO
16F-12FBO
16F-16FBO
16F-20FBO
20F-16FBO
20F-20FBO
24F-24FBO
32F-32FBO

METRIC STAND PIPE

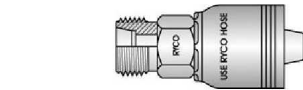


FEMALE KOMATSU SWIVEL



ITEM
6F-6FKX
8F-8FKX
8F-10FKX

MALE DIN HEAVY



ITEM
8F-16MDH
12F-20MDH
12F-25MDH
16F-25MDH
16F-30MDH
20F-30MDH
20F-38MDH

FEMALE DIN HEAVY SWIVEL



ITEM
6F-12FDHX
8F-16FDHX
10F-20FDHX
10F-25FDHX
12F-20FDHX
12F-25FDHX
16F-25FDHX
16F-30FDHX
20F-38FDHX

FEMALE DIN HEAVY SWIVEL 45



ITEM
8F-16FDHX45
12F-20FDHX45
12F-25FDHX45

FEMALE DIN HEAVY SWIVEL 45

ITEM

16F-30FDHX45
20F-38FDHX45

FEMALE DIN HEAVY SWIVEL 90



ITEM

8F-16FDHX90
12F-20FDHX90
12F-25FDHX90
16F-30FDHX90
20F-38FDHX90

HOSE SPLICER



ITEM

6F-MEND
8F-MEND
12F-MEND
16F-MEND
20F-MEND
24F-MEND
32F-MEND

CODE 61 FLANGE



ITEM

8F-8FL
8F-12FL
12F-10FLK
12F-12FL
12F-16FL
16F-16FL
16F-20FL
20F-16FL
20F-20FL
20F-24FL
24F-24FL

ITEM

24F-32FL
32F-32FL
32F-40FL

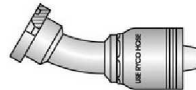
CODE 61 FLANGE 22



ITEM

12F-12FL22
12F-16FL22
16F-16FL22
16F-20FL22
20F-20FL22
20F-24FL22
24F-24FL22
24F-32FL22
32F-32FL22

CODE 61 FLANGE 30



ITEM

12F-12FL30
16F-16FL30
20F-20FL30
24F-24FL30
24F-32FL30
32F-32FL30

CODE 61 FLANGE 45



ITEM

8F-8FL45
8F-12FL45
12F-10FLK45
12F-12FL45
12F-16FL45
16F-16FL45
16F-20FL45
20F-20FL45
20F-24FL45
24F-24FL45

ITEM

24F-32FL45
32F-32FL45

CODE 61 FLANGE 60



ITEM

12F-12FL60
16F-16FL60
16F-20FL60
20F-20FL60
20F-24FL60
24F-24FL60
24F-32FL60
32F-32FL60

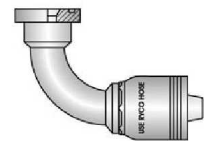
CODE 61 FLANGE 67



ITEM

12F-12FL67
12F-16FL67
16F-16FL67
16F-20FL67
20F-20FL67
20F-24FL67
24F-24FL67
24F-32FL67
32F-32FL67

CODE 61 FLANGE 90



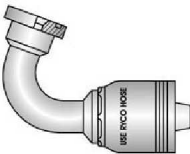
ITEM

8F-8FL90
8F-12FL90
12F-10FLK90
12F-12FL90
12F-16FL90
16F-12FL90
16F-16FL90
16F-20FL90
16F-24FL90

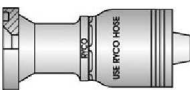
CODE 61 FLANGE 90	
ITEM	
20F-16FL90	
20F-20FL90	
20F-24FL90	
24F-24FL90	
24F-32FL90	
32F-32FL90	
32F-40FL90	
CODE 61 FLANGE 90 LONG	



ITEM	
8F-12FL90L	
12F-12FL90L	
12F-16FL90L	
16F-16FL90L	
16F-20FL90L	
20F-20FL90L	
20F-24FL90L	
24F-24FL90L	
24F-32FL90L	
32F-32FL90L	
CODE 61 FLANGE 110	



ITEM	
24F-24FL110	
24F-32FL110	
32F-32FL110	
CODE 62 FLANGE	



ITEM	
8F-8FLH	
12F-12FLH	
12F-16FLH	
16F-12FLH	
16F-16FLH	
16F-20FLH	

ITEM	
20F-16FLH	
20F-20FLH	
20F-24FLH	
24F-24FLH	
24F-32FLH	
32F-32FLH	
CODE 62 FLANGE 22	



ITEM	
12F-12FLH22	
12F-16FLH22	
CODE 62 FLANGE 30	



ITEM	
16F-20FLH30	
CODE 62 FLANGE 45	



ITEM	
12F-12FLH45	
12F-16FLH45	
16F-12FLH45	
16F-16FLH45	
16F-20FLH45	
20F-20FLH45	
20F-24FLH45	
24F-24FLH45	
24F-32FLH45	
32F-32FLH45	
CODE 62 FLANGE 60	

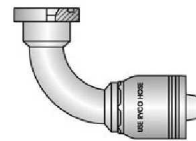


ITEM	
12F-12FLH60	

ITEM	
12F-16FLH60	
CODE 62 FLANGE 67	



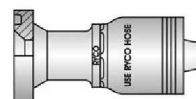
ITEM	
12F-12FLH67	
12F-16FLH67	
CODE 62 FLANGE 90	



ITEM	
8F-8FLH90	
8F-12FLH90	
12F-12FLH90	
12F-16FLH90	
16F-12FLH90	
16F-16FLH90	
16F-20FLH90	
20F-16FLH90	
20F-20FLH90	
20F-24FLH90	
24F-24FLH90	
24F-32FLH90	
32F-32FLH90	
CODE 62 FLANGE 110	



ITEM	
24F-24FLH110	
24F-32FLH110	
32F-32FLH110	
CAT FLANGE	

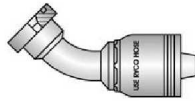


ITEM	
12F-12FLC	

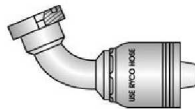
CAT FLANGE	
ITEM	
12F-16FLC	
16F-16FLC	
16F-20FLC	
CAT FLANGE 22	



ITEM	
12F-12FLC22	
12F-16FLC22	
CAT FLANGE 45	



ITEM	
12F-12FLC45	
12F-16FLC45	
CAT FLANGE 67	

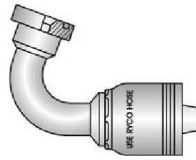


ITEM	
12F-12FLC67	
12F-16FLC67	
CAT FLANGE 90	



ITEM	
12F-12FLC90	
12F-16FLC90	
16F-16FLC90	

CAT FLANGE 110	
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ITEM	
24F-24FLC110	

H SERIES 1 PIECE CRIMP COUPLINGS FOR 6 WIRE HOSE
MALE PIPE RIGID



ITEM
12H-12MP
16H-16MP
20H-20MP
24H-24MP
32H-32MP

MALE PIPE RIGID LONG



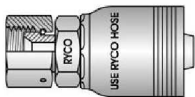
ITEM
32H-32MPL

MALE JIC



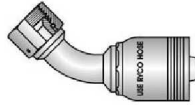
ITEM
12H-12MJ
16H-16MJ
20H-20MJ
24H-24MJ
32H-32MJ

FEMALE JIC SWIVEL



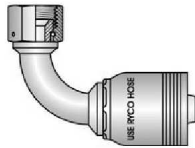
ITEM
12H-12FJX
12H-16FJX
16H-16FJX
20H-20FJX
24H-24FJX
32H-32FJX

FEMALE JIC SWIVEL 45



ITEM
12H-12FJX45
16H-16FJX45
20H-20FJX45
24H-24FJX45
32H-32FJX45

FEMALE JIC SWIVEL 90 MEDIUM



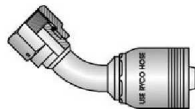
ITEM
12H-12FJX90M
12H-16FJX90M
16H-16FJX90M
20H-20FJX90M
24H-24FJX90M
32H-32FJX90M

FEMALE FLAT FACE SWIVEL



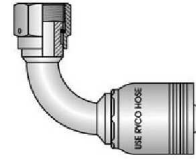
ITEM
12H-12FFORX
16H-16FFORX
20H-20FFORX
24H-24FFORX

FEMALE FLAT FACE SWIVEL 45



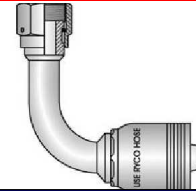
ITEM
12H-12FFORX45
16H-16FFORX45
20H-20FFORX45

FEMALE FLAT FACE SWIVEL 90 MEDIUM



ITEM
12H-12FFORX90M
16H-16FFORX90M
20H-20FFORX90M

FEMALE FLAT FACE SWIVEL 90 LONG



ITEM
12H-12FFORX90L
16H-16FFORX90L
20H-20FFORX90L

MALE BRITISH STANDARD PARALLEL PIPE



ITEM
12H-12MBSPP
16H-16MBSPP
20H-20MBSPP
24H-24MBSPP
32H-32MBSPP

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL



ITEM
12H-12FBSPPX
16H-16FBSPPX
20H-20FBSPPX
24H-24FBSPPX
32H-32FBSPPX

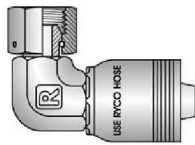
FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 90



ITEM

- 12H-12FBSPPX90
- 16H-16FBSPPX90
- 20H-20FBSPPX90

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 90 BLOCK



ITEM

- 16H-16FBSPPX90BL

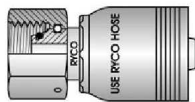
MALE DIN HEAVY



ITEM

- 12H-25MDH
- 16H-30MDH
- 20H-38MDH

FEMALE DIN HEAVY SWIVEL



ITEM

- 12H-25FDHX
- 16H-30FDHX
- 20H-38FDHX

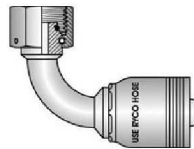
FEMALE DIN HEAVY SWIVEL 45



ITEM

- 20H-38FDHX45
- 12H-25FDHX45
- 16H-30FDHX45

FEMALE DIN HEAVY SWIVEL 90



ITEM

- 12H-25FDHX90
- 16H-30FDHX90
- 20H-38FDHX90

MALE BRITISH STANDARD PIPE TAPER



ITEM

- 12H-12MBSPT
- 16H-16MBSPT
- 20H-20MBSPT
- 24H-24MBSPT
- 32H-32MBSPT

FEMALE BRAZE-ON



ITEM

- 16H-16FBO
- 20H-20FBO
- 24H-24FBO
- 32H-32FBO

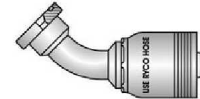
CODE 61 FLANGE



ITEM

- 12H-12FL
- 16H-16FL
- 16H-20FL
- 20H-20FL
- 20H-24FL
- 24H-24FL
- 24H-32FL
- 32H-32FL

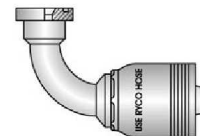
CODE 61 FLANGE 45



ITEM

- 12H-12FL45
- 16H-16FL45
- 16H-20FL45
- 20H-20FL45
- 20H-24FL45
- 24H-24FL45
- 24H-32FL45
- 32H-32FL45

CODE 61 FLANGE 90



ITEM

- 12H-12FL90
- 16H-16FL90
- 16H-20FL90
- 20H-20FL90
- 20H-24FL90
- 24H-24FL90
- 24H-32FL90
- 32H-32FL90

CODE 61 FLANGE 110



ITEM

- 24H-24FL110
- 24H-32FL110
- 32H-32FL110

CODE 62 FLANGE



ITEM

- 12H-12FLH
- 16H-12FLH
- 16H-16FLH
- 16H-20FLH
- 20H-20FLH
- 20H-24FLH
- 24H-24FLH
- 24H-32FLH
- 32H-32FLH

CODE 62 FLANGE 22



ITEM

- 12H-12FLH22
- 16H-16FLH22
- 20H-20FLH22
- 20H-24FLH22
- 24H-24FLH22
- 32H-32FLH22

CODE 62 FLANGE 30



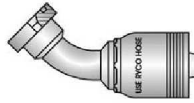
ITEM

- 12H-12FLH30
- 16H-16FLH30
- 16H-20FLH30

ITEM

- 20H-20FLH30
- 20H-24FLH30
- 24H-24FLH30
- 32H-32FLH30

CODE 62 FLANGE 45



ITEM

- 12H-12FLH45
- 16H-12FLH45
- 16H-16FLH45
- 16H-20FLH45
- 20H-20FLH45
- 20H-24FLH45
- 24H-24FLH45
- 24H-32FLH45
- 32H-32FLH45

CODE 62 FLANGE 60



ITEM

- 12H-12FLH60
- 16H-16FLH60
- 16H-20FLH60
- 20H-20FLH60
- 20H-24FLH60
- 24H-24FLH60
- 24H-32FLH60
- 32H-32FLH60

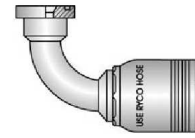
CODE 62 FLANGE 67



ITEM

- 12H-12FLH67
- 16H-16FLH67
- 20H-20FLH67
- 20H-24FLH67

CODE 62 FLANGE 90



ITEM

- 12H-12FLH90
- 12H-16FLH90
- 16H-12FLH90
- 16H-16FLH90
- 16H-20FLH90
- 20H-20FLH90
- 20H-24FLH90
- 24H-24FLH90
- 24H-32FLH90
- 32H-32FLH90

CODE 62 FLANGE 110



ITEM

- 24H-24FLH110
- 24H-32FLH110
- 32H-32FLH110

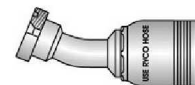
CAT FLANGE



ITEM

- 12H-12FLC
- 16H-16FLC
- 16H-20FLC
- 20H-20FLC
- 20H-24FLC
- 24H-24FLC
- 32H-32FLC

CAT FLANGE 22



ITEM

- 12H-12FLC22

CAT FLANGE 22	
ITEM	
16H-16FLC22	
16H-20FLC22	
20H-20FLC22	
20H-24FLC22	
24H-24FLC22	



CAT FLANGE 30	
ITEM	
12H-12FLC30	
16H-16FLC30	
16H-20FLC30	
20H-20FLC30	
20H-24FLC30	
24H-24FLC30	

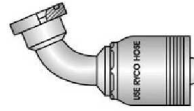
CAT FLANGE 45	
ITEM	
12H-12FLC45	
16H-16FLC45	
16H-20FLC45	
20H-20FLC45	
20H-24FLC45	
24H-24FLC45	



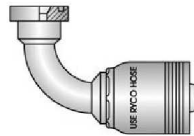
CAT FLANGE 60	
ITEM	
12H-12FLC60	
16H-16FLC60	
16H-20FLC60	
20H-20FLC60	
20H-24FLC60	
24H-24FLC60	



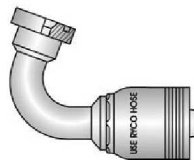
CAT FLANGE 67	
ITEM	
12H-12FLC67	
16H-16FLC67	
16H-20FLC67	
20H-20FLC67	
20H-24FLC67	
24H-24FLC67	



CAT FLANGE 90	
ITEM	
12H-12FLC90	
16H-16FLC90	
16H-20FLC90	
20H-20FLC90	
20H-24FLC90	
24H-24FLC90	



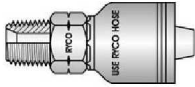
CAT FLANGE 110	
ITEM	
12H-12FLC110	
16H-16FLC110	
16H-20FLC110	
20H-20FLC110	
20H-24FLC110	
24H-24FLC110	



CAT FLANGE 110	
ITEM	
24H-24FLC110	

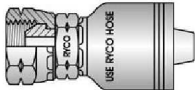
M SERIES 1 PIECE CRIMP COUPLING FOR 100R5, 100R4 SUCTION & TEFLON HOSE

MALE PIPE RIGID



ITEM
2M-2MP
3M-2MP
4M-2MP
4M-4MP
6M-4MP
6M-6MP
6M-8MP
8M-6MP
8M-8MP
8M-12MP
12M-12MP
16M-16MP
20M-20MP
24M-24MP
32M-32MP

FEMALE PIPE SWIVEL



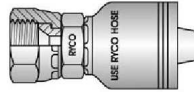
ITEM
4M-4FPX

MALE JIC



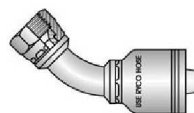
ITEM
8M-10MJ
4M-4MJ
4M-5MJ
4M-6MJ
6M-6MJ
6M-8MJ
8M-8MJ

FEMALE JIC SWIVEL



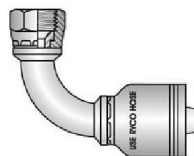
ITEM
3M-4FJX
4M-3FJX
4M-4FJX
4M-5FJX
4M-6FJX
5M-5FJX
5M-6FJX
5M-8FJX
6M-4FJX
6M-6FJX
6M-8FJX
8M-6FJX
8M-8FJX
8M-10FJX
8M-12FJX
10M-12FJX
12M-10FJX
12M-12FJX
16M-16FJX
20M-20FJX
24M-24FJX
32M-32FJX

FEMALE JIC SWIVEL 45



ITEM
4M-6FJX45
12M-12FJX45
16M-16FJX45
20M-20FJX45

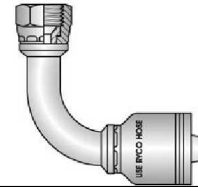
FEMALE JIC SWIVEL 90 SHORT



ITEM
4M-4FJX90S
4M-5FJX90S

ITEM
4M-6FJX90S
5M-6FJX90S
6M-6FJX90S
6M-8FJX90S
8M-8FJX90S
8M-10FJX90S
12M-12FJX90S
16M-16FJX90S
20M-20FJX90S
32M-32FJX90S

FEMALE JIC SWIVEL 90 LONG



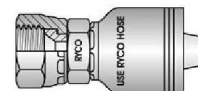
ITEM
5M-6FJX90L

MALE SAE



ITEM
6M-6MS

FEMALE SAE SWIVEL



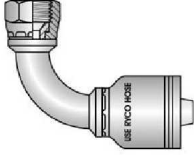
ITEM
5M-6FSX
6M-6FSX

FEMALE SAE SWIVEL 45



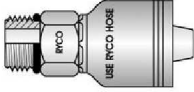
ITEM
6M-6FSX45

FEMALE SAE SWIVEL 90



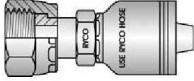
ITEM
5M-6FSX90
6M-6FSX90

SAE MALE BOSS



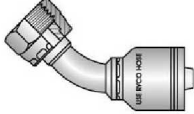
ITEM
4M-4MB
4M-5MB

FEMALE FLAT FACE SWIVEL



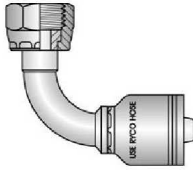
ITEM
4M-4FFORX
4M-6FFORX
6M-6FFORX
6M-8FFORX
8M-8FFORX
12M-12FFORX
16M-16FFORX
20M-20FFORX

FEMALE FLAT FACE SWIVEL 45



ITEM
4M-4FFORX45
6M-6FFORX45
6M-8FFORX45
8M-8FFORX45
12M-12FFORX45
16M-16FFORX45
20M-20FFORX45

FEMALE FLAT FACE SWIVEL 90

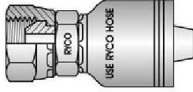


ITEM
4M-4FFORX90
4M-6FFORX90
6M-6FFORX90
6M-8FFORX90
8M-8FFORX90
12M-12FFORX90
16M-16FFORX90
20M-20FFORX90

MALE BRITISH STANDARD PARALLEL PIPE

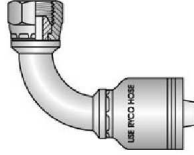
ITEM
6M-4MBSPP
6M-6MBSPP
6M-8MBSPP
8M-6MBSPP
8M-8MBSPP
12M-12MBSPP
16M-16MBSPP
20M-20MBSPP

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL



ITEM
4M-4FBSPPX
6M-4FBSPPX
6M-6FBSPPX
6M-8FBSPPX
8M-8FBSPPX
8M-12FBSPPX
12M-12FBSPPX
16M-16FBSPPX
20M-20FBSPPX

FEMALE BRITISH STANDARD PARALLEL PIPE SWIVEL 90




ITEM
4M-4FBSPPX90
6M-6FBSPPX90
6M-8FBSPPX90
8M-8FBSPPX90
12M-12FBSPPX90
16M-16FBSPPX90

FEMALE JAPANESE INDUSTRIAL STANDARD SWIVEL



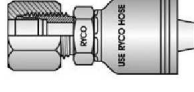
ITEM
6M-6FJISX
6M-8FJISX
8M-8FJISX
12M-12FJISX

FEMALE BRAZE-ON



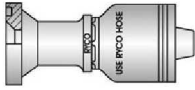
ITEM
6M-6FBO

MALE FLARELESS



ITEM
6M-6MFA

CODE 61 FLANGE



ITEM
20M-20FL
24M-24FL
32M-32FL

CODE 61 FLANGE 45

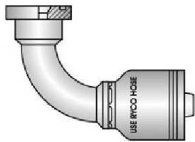


ITEM
24M-24FL45
32M-32FL45

CODE 61 FLANGE 60

ITEM
32M-32FL60

CODE 61 FLANGE 90



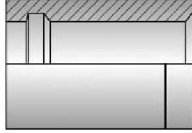
ITEM
24M-24FL90
32M-32FL90

CODE 62 FLANGE 60

ITEM
32M-32FLH60

TEF SERIES 2 PIECE COUPLINGS FOR STAINLESS STEEL TEFLON HOSE

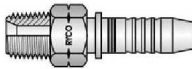
CRIMP FERRULE



ITEM

4TEF1FS
6TEF1FS
8TEF1FS
10TEF1FS
12TEF1FS
16TEF1FS

MALE PIPE RIGID



ITEM

4TEF-4MP
6TEF-6MP
8TEF-8MP
12TEF-12MP
16TEF-16MP

MALE JIC



ITEM

4TEF-4MJ
4TEF-5MJ
4TEF-6MJ
6TEF-6MJ
6TEF-8MJ
8TEF-8MJ
8TEF-10MJ

FEMALE JIC SWIVEL



ITEM

4TEF-4FJX
4TEF-5FJX
4TEF-6FJX
6TEF-6FJX
6TEF-8FJX
8TEF-8FJX
8TEF-10FJX
10TEF-10FJX
10TEF-12FJX
12TEF-10FJX
12TEF-12FJX
16TEF-16FJX

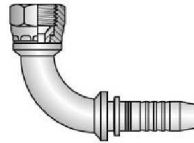
FEMALE JIC SWIVEL 45



ITEM

6TEF-6FJX45
8TEF-10FJX45

FEMALE JIC SWIVEL 90



ITEM

4TEF-4FJX90
4TEF-5FJX90
6TEF-6FJX90
6TEF-8FJX90
8TEF-8FJX90
8TEF-10FJX90
10TEF-10FJX90
12TEF-12FJX90
16TEF-16FJX90

FEMALE SAE SWIVEL



ITEM

4TEF-4FSX
4TEF-5FSX
6TEF-6FSX
6TEF-8FSX
8TEF-8FSX
8TEF-10FSX
10TEF-10FSX
12TEF-10FSX
12TEF-12FSX

MALE BRITISH PIPE TAPER



ITEM

4TEF-4MBSPT
6TEF-4MBSPT
6TEF-6MBSPT
6TEF-8MBSPT
8TEF-8MBSPT
12TEF-12MBSPT
16TEF-16MBSPT

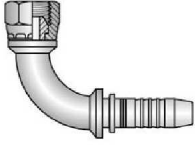
FEMALE BRITISH PIPE PARALLELSWIVEL



ITEM

4TEF-4FBSPPX
6TEF-6FBSPPX
8TEF-8FBSPPX
10TEF-8FBSPPX
12TEF-12FBSPPX
16TEF-16FBSPPX

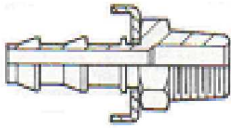
**FEMALE BRITISH PIPE
PARALLEL SWIVEL 90**



ITEM

4TEF-4FBSPX90
6TEF-6FBSPX90
8TEF-8FBSPX90
12TEF-12FBSPX90
16TEF-16FBSPX90

PUSH-LOC HOSE ENDS
NPTF SOLID MALE BRASS



ITEM
10004B-102
10004B-104
10004B-106
10006B-102
10006B-104
10006B-106
10006B-108
10008B-104
10008B-106
10008B-108
10008B-112
10010B-108
10010B-112
10012B-108
10012B-112

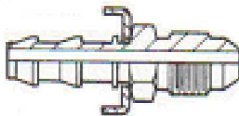
PIPE FEMALE RIGID

ITEM
10004B-202
10004B-204
10006B-204
10006B-206
10008B-206
10008B-208

NPTF SOLID FEMALE BRASS

ITEM
10004B-054
10006B-056
10008B-058

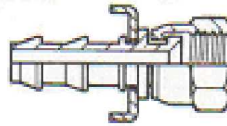
SAE 45 DEG SOLID MALE BRASS



ITEM
10004B-304
10004B-305
10006B-305
10006B-306
10006B-308

ITEM
10008B-308
10008B-310
10010B-308
10010B-310

SAE 45 DEG FEMALE SWIVEL BRASS



ITEM
10004B-404
10004B-405
10004B-406
10006B-406
10010B-410
10012B-412

JIC 37 DEG FEMALE SWIVEL BRASS



ITEM
10004B-606
10006B-606
10006B-608
10008B-608
10008B-610
10012B-610
10012B-612

37° JIC FEMALE SWIVEL 45 DEG ELBOW

ITEM
10006B-646
10008B-648

37° JIC FEMALE SWIVEL 90 DEG ELBOW

ITEM
10006B-666
10008B-668
10010B-670

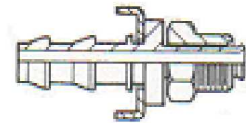
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ITEM
10004B-2MBSPP

SAE 45 DEG FEMALE INVERTED SOLID

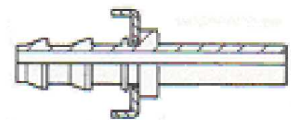
ITEM
10004B-A03
10004B-A04
10004B-A05
10006B-A05
10006B-A06
10008B-A08
10010B-A08

SAE 45 DEG MALE INVERTED SWIVEL



ITEM
10004B-B03
10004B-B04
10004B-B05
10005B-B05
10006B-B05
10006B-B06
10006B-B08
10008B-B08
10008B-B10

TUBE



ITEM
10004B-X03
10004B-X04
10004B-X05
10006B-X08
10008B-X08

HOSE MENDER



ITEM
10006B-Y06
10008B-Y08
10010B-Y10
10012B-Y12