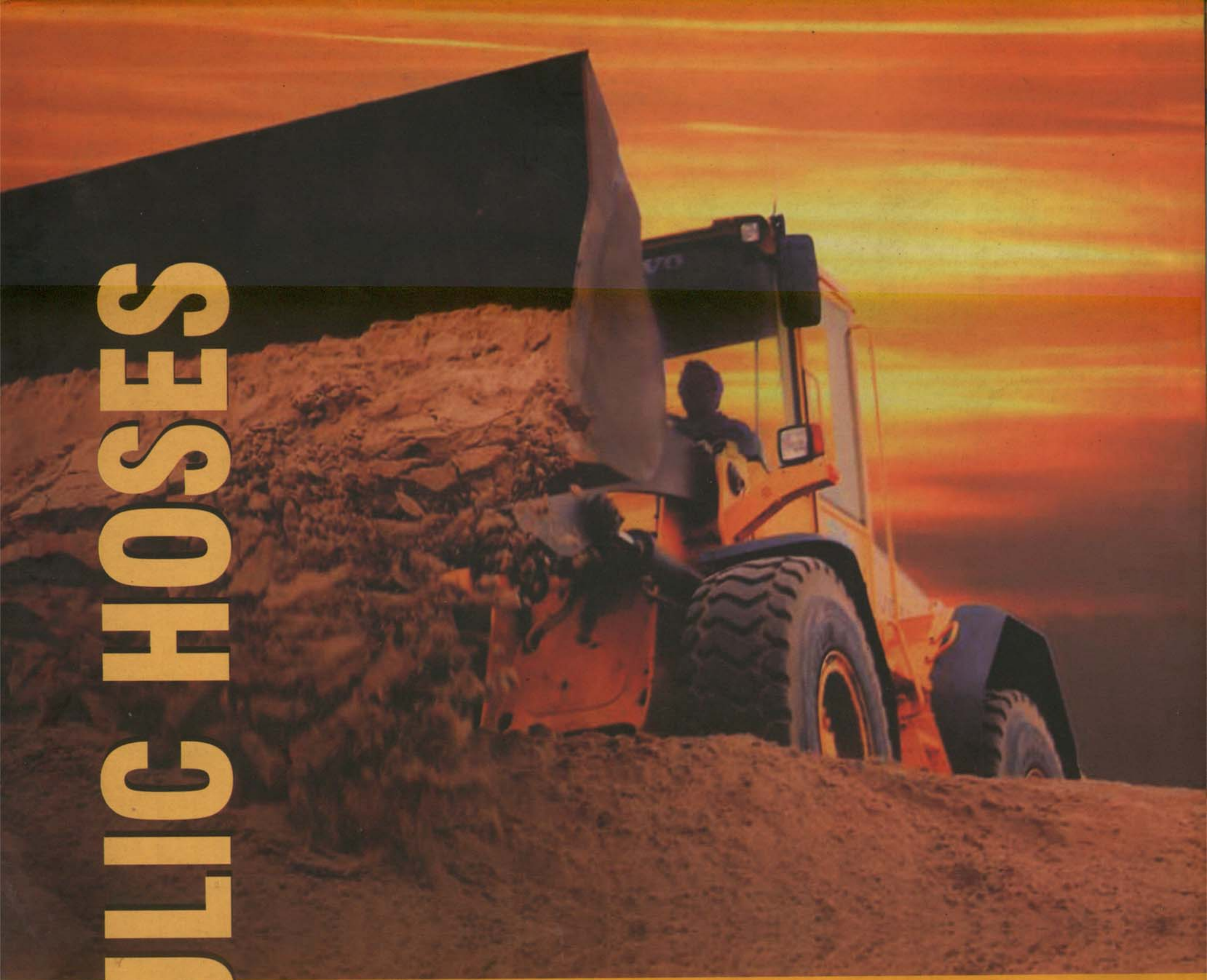


GATES

# HYDRAULIC HOSES







# GATES HYDRAULIC HOSES

Gates Connected

HOSE TYPE	Description	Product No.	Hose ID		Hose OD		Working Pressure		Min Burst Pressure		Min. Bend Radius	Packaging Spec.	Service Temp Range	CONSTRUCTION	RECOMMENDED FOR
			inch	mm	mm	psi	bar	psi	bar	inch					
<b>EFG6K Spiral Wire Hose—SAE 100R15</b> Meets Flame Resistance Acceptance Designation "MSHA 2G" For Biodegradable Hydraulic Fluids	6 EFG6K	4651-1396	3/8	9.5	20.2	6,000	414	24,000	1656	2.50	i	-40°C to +121°C	Tube: Black, oil resistant, synthetic rubber (Nitrile - Type C). Reinforcement: Four (six for -20) alternating layers of spiraled, high tensile steel. Cover: Black, oil resistant, synthetic rubber (Neoprene - Type A). Blue stripe with gold print layline.	Extremely high-pressure, high-impulse applications such as hydrostatic transmissions. EFG6K is designed to meet all requirements of SAE 100R15 specifications and performance requirements of EN 856 4SP (-6, -8, -10 and -12) and EN 856 4SH (-12, -16, and -20). Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluids. Superior impulse performance: tested to 1,000,000 impulse cycles	
	8 EFG6K	4651-1371	1/2	12.7	24.0	6,000	414	24,000	1656	3.50	i				
	10 EFG6K	4651-1672	5/8	15.9	27.6	6,000	414	24,000	1656	4.00	i				
	12 EFG6K	4651-4909	3/4	19.1	31.4	6,000	414	24,000	1656	4.75	e				
	16 EFG6K	4651-4910	1	25.4	38.7	6,000	414	24,000	1656	6.00	e				
20 EFG6K	4651-1290	1-1/4	31.8	50.0	6,000	414	24,000	1656	8.25	i					
<b>EFG5K Spiral Wire Hose—SAE 100R13</b> Meets Flame Resistance Acceptance Designation "MSHA 2G" For Biodegradable Hydraulic Fluids	6 EFG5K	**	3/8	9.5	20.2	5,000	345	20,000	1380	5.00	i	-40°C to +121°C	Tube: Black, oil resistant synthetic rubber (Neoprene - Type A). Reinforcement: Four (six for -20) alternating layers of spiraled, high-tensile steel. Cover: Black, oil resistant synthetic rubber (Neoprene - Type A). Dual red stripe layline.	Extremely high-pressure hydraulic applications. EFG5K is designed to meet all requirements of SAE 100R13 specifications and performance requirements of EN 856 4SH (-24, and -32) and EN 856 R13. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluids. Superior impulse performance: tested to 1,000,000 impulse cycles	
	8 EFG5K	**	1/2	12.7	24.0	5,000	345	20,000	1380	3.50	i				
	10 EFG5K	**	5/8	15.9	27.6	5,000	345	20,000	1380	4.00	i				
	12 EFG5K	4651-4903	3/4	19.1	31.4	5,000	345	20,000	1380	4.75	f				
	16 EFG5K	4651-4904	1	25.4	38.7	5,000	345	20,000	1380	6.00	f				
20 EFG5K	**	1-1/4	31.8	50.0	5,000	345	20,000	1380	8.25	i					
<b>EFG4K Spiral Wire Hose—SAE 100R12</b> Meets Flame Resistance Acceptance Designation "MSHA 2G" For Biodegradable Hydraulic Fluids	6 EFG4K	4651-1338	3/8	9.5	20.3	4,000	276	16,000	1104	2.50	i	-40°C to +121°C	Tube: Black, oil resistant synthetic rubber (Nitrile - Type C). Reinforcement: Four alternating layers of spiraled, high tensile steel wire. Cover: Black, oil resistant, synthetic rubber (Neoprene - Type A). Blue stripe with white print layline.	Extremely high-pressure, high-impulse applications. Exceeds all performance requirements for SAE 100R12, EN 856 R12 and EN 856 4SP (-16). Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluids. Superior impulse performance: tested to 1,000,000 impulse cycles	
	8 EFG4K	4651-1339	1/2	12.7	24.0	4,000	276	16,000	1104	3.50	i				
	10 EFG4K	4651-1367	5/8	15.9	27.6	4,000	276	16,000	1104	4.00	i				
	12 EFG4K	4651-4901	3/4	19.1	30.7	4,000	276	16,000	1104	4.75	f				
	16 EFG4K	4651-4902	1	25.4	38.0	4,000	276	16,000	1104	6.00	f				
20 EFG4K	4651-1284	1-1/4	31.8	47.0	4,000	276	16,000	1104	8.27	i					
<b>4XH Spiral Wire Hose—EN 856 4SH ISO 3862</b> Meets Flame Resistance Acceptance Designation "MSHA IC-417"	12 4XH	4651-4907	3/4	19.1	31.5	6,100	420	26,100	1800	8.30	f	-40°C to +100°C	Tube: Black, oil resistant synthetic rubber (Nitrile). Reinforcement: Four alternating layers of spiraled, high tensile steel wire. Cover: Black, oil resistant, synthetic rubber (Nitrile)	Extremely high-pressure, high-impulse applications. Most flexible EN 856 4SH hose in industry. Compatible with biodegradable hydraulic fluids like synthetic ester, polyglycol and vegetable oil as well as standard petroleum-based fluids. Superior impulse performance: tested to 1,000,000 impulse cycles	
	16 4XH	4651-4908	1	25.4	37.7	5,600	386	26,100	1800	8.70	f				
	20 4XH	**	1-1/4	31.8	45.2	5,050	350	20,300	1400	16.50	i				
<b>4XP Spiral Wire Hose—EN 856 4SP ISO 3862</b> Meets Flame Resistance Acceptance Designation "MSHA IC-417"	6 4XP	**	3/8	9.5	21.2	6,650	460	26600	1840	7.10	i	-40°C to +100°C	Tube: Black, oil resistant synthetic rubber (Nitrile). Reinforcement: Four alternating layers of spiraled, high tensile steel wire. Cover: Black, oil resistant, synthetic rubber (Nitrile)	Extremely high-pressure, high-impulse hydraulic applications. Most flexible EN 856 4SP hose in industry. Superior impulse performance: tested to 1,000,000 impulse cycles at bend radius lower than EN 856 standard. Compatible with biodegradable hydraulic fluids like synthetic ester, polyglycol and vegetable oil as well as standard petroleum-based fluids.	
	8 4XP	4651-10033	1/2	12.7	24.3	6,150	425	23200	1600	4.70	i				
	10 4XP	4651-10034	5/8	15.9	27.7	5,800	400	23200	1600	5.50	i				
	12 4XP	4651-4905	3/4	19.1	31.5	5,500	380	23925	1650	6.70	e				
	16 4XP	4651-4906	1	25.4	39.0	4,650	320	20300	1400	13.40	e				
20 4XP	**	1-1/4	31.8	49.8	3,050	210	18120	1250	18.10	i					
<b>CPS COAL POWER-4 AND 6 SPIRAL HOSE</b> Meets performance requirement of SAE 100 R13 Meets flame resistance acceptance designation "MSHA 2G"	12 CPS	4651-0400	3/4	19.1	31.4	5,000 <sup>1</sup>	345	20,000	1380	4.75	i	-40°C to +121°C	Tube: Black, oil resistant synthetic rubber (Neoprene). Reinforcement: Four alternating layers of spiraled, high tensile steel wire over a layer of fabric on 1", 1 1/2" and 2" size. Cover: Black, oil resistant, abrasion resistant synthetic rubber (Neoprene). Yellow layline stripe.	High pressure lines in longwall mining equipment and roof support systems / petroleum based or water emulsion fluids. Compatible with biodegradable hydraulic fluids like polyglycol and vegetable oils as well.	
	16 CPS	4651-0401	1	25.4	38.7	5,000 <sup>1</sup>	345	20,000	1380	6.00	i				
	20 CPS	4651-0402	1-1/4	31.8	50.0	5,000 <sup>1</sup>	345	20,000	1380	8.25	i				
	24 CPS	4651-0415	1-1/2	38.1	57.3	5,000 <sup>1</sup>	345	20,000	1380	10.00	i				
	32 CPS	4651-0416	2	50.8	71.1	5,000 <sup>1</sup>	345	20,000	1380	25.00	i				
<b>BHL X-TRA HOSE</b> Meets flame resistance acceptance designation "MSHA 2G"	4 BHL	4657-8743	1/4	6.4	15.1	5,075	350	20,300	1400	2.00	g	-40°C to +120°C	Tube: Nitrile Black Reinforcement: 2 braid of high tensile steel wire Cover: Specially modified synthetic rubber	Hose for high impulse and tight bend radius application. Mainly used for backhoe loader, other construction and earth moving application.	
	6 BHL	4657-8744	3/8	9.5	17.7	4,785	330	19,140	1320	2.20	g				
	8 BHL	4657-8745	1/2	12.7	20.6	3,987	275	15,950	1100	4.00	h				
	10 BHL	4657-8746	5/8	15.9	24.6	3,987	275	15,950	1100	4.00	h				
<b>G2 2-WIRE BRAID HOSE—SAE 100R2</b> Meets Flame Resistance Acceptance Designation "MSHA 2G"	3 G2	4657-8950	3/16	4.8	13.2	6,025	414	24,000	1655	1.75	a	-40°C to +100°C	Tube: Black, oil-resistant synthetic rubber (Nitrile - Type C). Reinforcement: Two braids of high-tensile steel wire. Cover: Black, oil and abrasion resistant thin synthetic rubber (Modified Nitrile - Type C2).	High-pressure hydraulic oil lines. Meets or exceeds the requirements of SAE 100R2AT and SAE 100R2 Type Sand performance requirements of EN 853 2SN.	
	4 G2	4657-4852	1/4	6.4	14.7	5,800	400	23,200	1600	2.00	a				
	6 G2	4657-4830	3/8	9.5	18.5	4,800	331	19,200	1324	2.50	a				
	8 G2	4657-4831	1/2	12.7	21.8	4,000	276	16,000	1104	3.50	b				
	10 G2	4657-4832	5/8	15.9	24.9	3,625	250	14,500	1000	4.00	b				
	12 G2	4657-4833	3/4	19.1	28.7	3,100	214	12,400	856	4.75	b				
	16 G2	4657-4834	1	25.4	37.5	2,400	166	9,600	664	6.00	c				
	20 G2	4657-4900	1-1/4	31.8	47.5	1,825	126	7,300	504	8.25	c				
	24 G2	4657-4894	1-1/2	38.1	54.6	1,300	90	5,000	360	10.00	c				
	32 G2	4657-4895	2	50.8	65.0	1,175	81	4,500	324	12.50	c				
<b>G2H HIGH-TEMP HIGH PRESSURE</b> 2-Wire Braid Hose—SAE 100R2	20 G2H	4657-4911	1-1/4	31.8	47.5	1,650	126	6,500	504	18.50	i	-40°C to +135°C	Tube: Black, oil-resistant synthetic rubber (Nitrile - Type C). Reinforcement: Two braids of high-tensile steel wire. Cover: Black, oil-resistant synthetic rubber (Hypalon - Type M).	High-pressure hydraulic oil lines. Meets or exceeds the requirements of SAE 100R2AT and performance requirements of EN 853.	
	24 G2H	4657-4842	1-1/2	38.1	54.6	1,300	90	5,000	362	20.00	i				
	32 G2H	4657-4843	2	50.8	67.3	1,175	81	4,500	324	25.00	i				
<b>J2AT 2-WIRE BRAID JACK HOSE</b> Meets Flame Resistance Acceptance Designation "MSHA 2G" Meets U 100 Jack Hose spec.	4 J2AT	4657-8737	1/4	6.3	14.7	10,000	690	20,000	1380	4.00	a	-40°C to +100°C	Tube: Black, oil resistant, synthetic rubber (Nitrile - Type C). Reinforcement: Two braids of high tensile steel wire. Cover: Black, oil and abrasion resistant synthetic rubber (Modified Nitrile - Type C2).	Hydraulic jack applications. Meets Material Handling Institute specification U 100 for hydraulic hose and assemblies used with jacking systems.	
	6 J2AT	4657-8751	3/8	9.5	18.8	10,000	690	20,000	1380	5.00	a				
<b>MINING HOSE</b> Meets BCS 174 - 1992 performance Meets flame resistance acceptance designation "MSHA 2G"	DN 8	4654-7961	1/4	6.3	17.0	5,525	450	26,100	1,800	4.00	a	-40°C to +100°C	Tube: Black, oil resistant synthetic rubber (Nitrile). Reinforcement: Two braid, high tensile steel wire. Cover: Black, oil resistant, abrasion resistant synthetic rubber (Modified Nitrile).	High pressure hydraulic lines in longwall mining equipment and roof support system; petroleum based or water emulsion fluids	
	DN10	4654-7962	3/8	9.5	21.3	5,250	380	22,000	1,520	5.10	a				
	DN12	4654-7963	1/2	12.7	26.5	4,000	362	21,000	1,448	6.00	b				
	DN20	4654-7964	3/4	19.1	33.6	4,000	276	16,000	1,104	9.10	b				
	DN25	4654-7965	1	25.4	40.7	3,125	215	12,500	861	12.00	c				
	DN32	4654-7967	1-1/4	31.8	47.2	2,500	172	10,000	689	15.10	c				
DN40	4654-7966	1-1/2	38.0	54.0	2,118	146	8,472	584	18.00	c					
<b>MegaTech™ ACR</b> Hot Oil / Air Return Line Hose	4 ACR	**	1/4	6.4	13.2	1,000	69	4,000	276	2.00	i	-40°C to +149°C	Tube: Black, specifically compounded for temperature and chemical resistance (CPE). Reinforcement: One braid, high tensile steel wire. Cover: Black, oil & abrasion resistant polyester braid. Flame resistant "US MSHA 2 G"	Pressurized hot oil return lines and rotary air compressor lines	
	6 ACR	4657-2340	3/8	9.5	17.0	1,000	69	4,000	276	2.50	i				
	8 ACR	4657-2341	1/2	12.7	19.3	1,000	69	4,000	276	3.50	i				
	10 ACR	4657-2342	5/8	15.9	24.1	1,000	69	4,000	276	4.00	i				
	12 ACR	4657-2336	3/4	19.1	26.4	1,000	69	4,000	276	4.75	i				
	16 ACR	4657-2337	1	25.4	34.0	1,000	69	4,000	276	6.00	i				
	20 ACR	4657-2338	1-1/4	31.8	40.0	1,000	69	4,000	276	8.50	i				
	24 ACR	4657-0204	1-1/2	38.1	49.4	500	35	2,000	140	15.00	i				
	32 ACR	4657-0805	2	50.8	62.9	500	35	2,000	140	18.00	c				
	40 ACR	4657-4908	2-1/2	63.5	75.3	500	35	2,000	140	22.00	c				
48 ACR	4657-4909	3	76.4	88.9	500	35	2,000	140	24.00	i					
<b>G1 1-WIRE BRAID HOSE—SAE 100R1 TYPE</b> At medium pressure	3 G1	4657-8749	3/16	4.8	11.9	3,625	250	14,500	1000	1.75	i	-40°C to +100°C	Tube: Black, oil-resistant synthetic rubber (Nitrile - Type C). Reinforcement: One braid of high-tensile steel wire. Cover: Black, oil and abrasion resistant synthetic rubber (Modified Nitrile - Type C2).	Medium pressure hydraulic lines. Meets or exceeds the requirements of SAE 100R1 Type AT and performance requirements of DIN 20022 1SN / EN 853 1SN. Provides tighter than standard minimum bend radius and greater flexibility for easier plumbing.	
	4 G1	4657-4846	1/4	6.4	13.5	3,275	226	13,100	904	2.20	a				
	5 G1	4657-4828	5/16	7.9	15.0	3,125	218	12,500	864	2.00	a				
	6 G1	4657-2980	3/8	9.5	17.5	2,600	180	10,400	720	2.50	a				
	8 G1	4657-4825	1/2	12.7	20.8	2,325	160	9,300	640	3.50	b				
	10 G1	4657-4826	5/8	15.9	23.9	1,900	131	7,600	524	4.00	b				
	12 G1	4657-4827	3/4	19.1	27.9	1,525	105	6,100	420	4.75	b				
	16 G1	4657-4829	1	25.4	35.8	1,275	88	5,100	352	6.00	c				
	20 G1	4657-4897	1-1/4	31.8	43.4	925	64	3,700	256	8.25	c				
	24 G1	4657-2498	1-1/2	38.1	49.8	725	50	2,900	200	10.00	c				
	32 G1	4657-4896	2	50.8	64.0	600	41	2,700	164	12.50	c				
	<b>G1H HIGH-TEMP 1-WIRE BRAID HOSE</b> <														