

SEL Hydraulic hoses
Next generation flexible Spiral hoses





As SEL/ EATON family we exceed the limits of innovation.

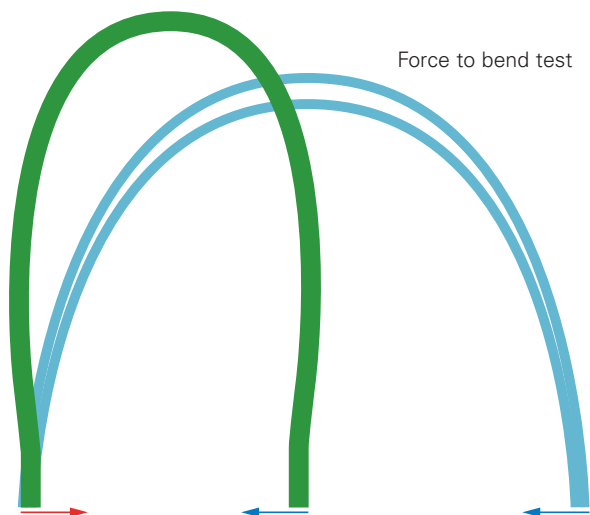
We are proud to be your solution partner with the New Eaton SEL X-4000 +, X-5000 +, X-6000 + flexible Spiral Hoses. These patent-pending high pressure spiral hydraulic hoses were designed with material science and process innovation to meet the most demanding applications, where very high pressure and the need for easy installation in tight spaces come together.

SEL X-4000 +, X-5000 +, X-6000 + hoses exceed performance of SAE 100 R12, R13 and R15 standards as well as ISO 18752-CC standard, by reaching 50% SAE standard bend radii performance, in high pressure demanding applications.

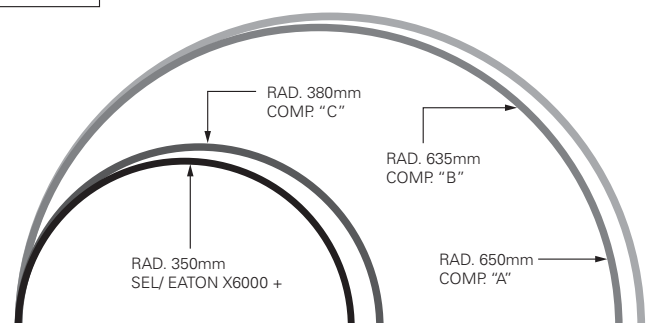
Furthermore; SEL X-4000 +, X-5000 +, X-6000 + hoses were created by improving Force-to-bend, as well as having high abrasion and ozone resistant covers, compared to requirements of SAE and EN standards.

SEL X-4000 +, X-5000 +, X-6000 + new generation flexible hydraulic hoses offer several advantages for the user:

- Improved flexibility for easier installation in tight spaces, due to meeting and exceeding industry requirements at 50% of the installed hose bend.
- Improved compatibility against most general hydraulic fluids in the market, including new generation environmentally accepted hydraulic fluids such as HETG, HEES, HEPG and HEPR oils.
- Improved life time expectation, due to better connection with the fitting as the enhanced synthetic rubber inner tube bears high compression-set properties.
- Improved life time expectation due to high elastic modulus properties of the inner tube, providing higher resistance against deformation in, for example, dynamic applications.
- Improved life time expectation due to high abrasion and ozone resistant cover compared to requirements of SAE and EN standard.
- Improved energy saving due to reduction in weight of spiral hose assembly.
- Less shipping cost due to reduction in weight and outer diameter of hose.



420 bar -32









SEL X-4000 +

GHH280

4-6 Steel wire spiral

Exceeds ISO 18752-CC, SAE100 R12 Performance



#													4 or 6 Spiral
	DASH SIZE	Hose ID		WSOD (max)		Hose OD max		Max. OP		Burst Pressure		Bending Radius	
	mm	in	mm	in	mm	in	bar	psi	bar	psi	mm	kg/m	
-16	25.40	1.00	34.70	1.35	37.20	1.46	280	4060	1120	16240	150	1.51	4
-20	31.80	1.25	43.10	1.70	45.90	1.81	280	4060	1120	16240	210	2.30	4
-24	38.10	1.50	50.00	1.97	53.20	2.09	280	4060	1120	16240	250	2.992	4
-32	50.80	2.00	67.60	2.66	71.40	2.81	280	4060	1120	16240	350	5.611	6


Construction

- Special synthetic rubber tube resistant to mineral, vegetable and glycol based hydraulic oil
- 4 or 6 high tensile strength steel wire reinforced
- Super high abrasion and weather resistance special synthetic rubber cover
- **Patent pending design**

Application

For hydraulic systems with high peak pressure and arduous operating conditions such as high pressure hydraulic circuits (for example on booms) on mobile construction equipment, mining equipment, agriculture machines.

Operating temperature


- 40 °C / + 120 °C

Higher Feature

- Bend radius improved up to 50% according to SAE standard products
- Force to bend improved up to 25% according to standard products

Marking









SEL X-5000 +

GHH350

4-6 Steel wire spiral

Exceeds ISO 18752-CC, SAE100 R13 Performance



#													4 or 6 Spiral
	DASH SIZE	Hose ID		WSOD (max)		Hose OD max		Max. OP		Burst Pressure		Bending Radius	
	mm	in	mm	in	mm	in	bar	psi	bar	psi	mm	kg/m	
-12	19.0	0.75	27.4	1.08	30.3	1.19	350	5075	1400	20300	120	1.145	4
-16	25.4	1.00	34.7	1.37	37.7	1.48	350	5075	1400	20300	150	1.715	4
-20	31.8	1.25	43.1	1.70	46.1	1.81	350	5075	1400	20300	210	2.298	4
-24	38.1	1.50	50.0	1.97	53.2	2.09	350	5075	1400	20300	250	2.992	4
-32	50.8	2.00	67.6	2.66	71.4	2.81	350	5075	1400	20300	350	5.611	6

Construction

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Application

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Operating temperature



- 40 °C / + 120 °C

Higher Feature

- Bend radius improved up to 50% according to SAE standard products
- Force to bend improved up to 40% according to standard products

Marking









SEL X-6000 +

GHH420

4-6 Steel wire spiral

Exceeds ISO 18752-CC, SAE100 R15 Performance



#													4 or 6 Spiral
	DASH SIZE	Hose ID		WSOD (max)		Hose OD max		Max. OP		Burst Pressure		Bending Radius	
	mm	in	mm	in	mm	in	bar	psi	bar	psi	mm	kg/m	
-6	9.5	0.37	18.1	0.71	20.9	0.82	420	6090	1680	24360	65	0.7	4
-8	12.7	0.50	21.0	0.83	24.4	0.96	420	6090	1680	24360	90	0.92	4
-10	15.9	0.63	24.6	0.97	28.1	1.11	420	6090	1680	24360	100	1.13	4
-12	19.0	0.75	28.4	1.12	30.7	1.21	420	6090	1680	24360	120	1.246	4
-16	25.4	1.00	35.4	1.39	37.9	1.49	420	6090	1680	24360	140**	1.828	4
-20	31.8	1.25	46.6	1.83	49.6	1.95	420	6090	1680	24360	260	3.166	6
-24	38.1	1.50	54.0	2.13	56.9	2.24	420	6090	1680	24360	310	4.396	6
-32	50.8	2.00	68.0	2.68	72.0	2.83	420	6090	1680	24360	350	6.282	6

**Best-in-class

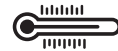
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Higher Feature

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- Force to bend improved up 40% according to standard products

Marking



