

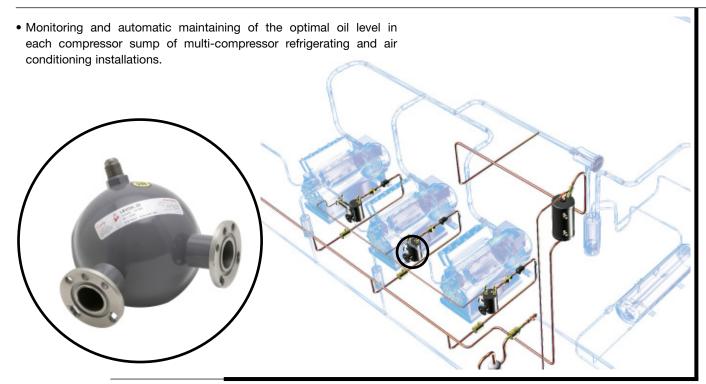
Carly **Mechanical oil level** regulators and adapters

DTGB - 51.1-6-4-11



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■ Applications



■ Functional features

- Products are compatible with HFCs, HCFCs, CFCs, CO2 (Subcritical) as well as with their associated oils and additives. Products are designed for use of non-hazardous refrigerants from group 2 of PED 97/23/EC.
- · Product classification in CE categories is performed using the PED 97/23/EC table corresponding to a volume-based selection.
- The oil level regulators are entirely made of steel.
- Two connection flanges at 90° on the standard oil level regulator body allow for one, fastening on the compressor boss and for the other, the connection of the oil sight glass originally fixed on the compressor.
- Detail of items supplied with the oil level regulators, pages 51.3.

■ CARLY advantages

- Optimized range of oil level regulators equipped with two holes universal flanges in order to be mounted on most of compressors available on the market.
- Resistance to higher pressure and limited foaming phenomenon inside the regulator due to the spherical design.
- Internal valve/needle/float oil return system, efficient and reliable. Minimizes the bad effect of foaming and ensures a good stability of the oil level.
- The density and viscosity of oils have nearly no effect on the regulator LEVOIL®.
- Due to the large pressure differential (1bar to 4,5bar), the basic model LEVOIL 23 is suitable for mounting on 2 levels cascade packs.
- Installation possible on the right or left side of the compressor, thanks to the centered inlet oil connection.
- Inlet oil connection inclined backwards, in order to avoid the cylinder heads of the compressor.
- Small volume of oil retention in the lower part of the LEVOIL®.
- Wide range of adapters allowing connection of the LEVOIL® on most of the compressors available on the market.
- GOST certified products.



Mechanical oil level regulators and adapters



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■ Functional features

- The systematic use of LEVOIL® oil level regulators:
 - guarantees oil level regulation in each compressor sump, preventing its deterioration and its exceptional wear.
 - does not require any additional electro-mechanical or electronic device for oil level check.
 - makes possible the installation of compressors at different heights, or at different oil levels.
 - · allows independent operation of each compressor mounted in parallel.
 - allows parallel mounting on a same installation of compressors

- of different dimensional features or refrigerating capacities.
- facilitates the visualisation of oil levels thanks to two possibilities for mounting (right/left) on the compressor for the standard models with seven-hole flanges.

■ Recommendations

- * The oil level regulators must be bolted on the compressor bosses instead of the original oil level sight glass.
- * The regulator must be fit in using the small elements of the installation kit delivered together (see page 51.3). The four-lobed gasket has to be used when connecting a sight glass or an adapter on the regulator (flange with grooves): see page 51.10.
- * If the compressor sump does not provide a connection matching the flange of the standard oil level regulator, use a HCYN 1A adapter (see pages 51.6 to 51.9)
- * Mounting of oil level regulator must only be performed with the oil feed connection located in the higher part.
- * The oil receiver enables the feeding of oil level regulators, and it must be mounted two meters minimum above the oil level regulators; if it cannot be, it is necessary to mount a HCYCT non adjustable or HCYCTR adjustable differential valve on the oil receiver and to connect it to the suction line, in order to maintain overpressure in the receiver, ensuring:
 - continuous and regular oil feed of regulators
 - Ilimitation of the pressure in the oil return line in the oil return line of the feeding of the oil level regulators, whose excess would hinder proper operation of regulators and be a source of incidents for the installation.
- * Imperatively provide for an oil filter (HCYF or HCYBF or HYDROIL if polyol-ester

- oils, see chapters 45 and 46) upstream of the oil level regulators in order to stop contaminants from disturbing their good operation.
- * In order to perform perfect air-tightness with the connections to screw without gasket, it is recommended to use a thread sealing product.
- * For the adjustable oil level regulators models:
- turn the nut clockwise, to lower the oil level turn the nut counter clockwise, to raise the oil level.
- * In some cases, the vibrations generated by the compressors can disturb the oil level regulators operation; it is then necessary to eliminate causes of vibration.
- * For correct operation, it is necessary to ensure, after mounting, that the oil level regulators are perfectly horizontal.
- * Check that the oil quality is not degrading with time and make regularly some oil acidity tests (TESTOIL-MAS and TESTOIL-POE: refer to chapter 91).
- * Ensure that the pressure differential between the oil feeding and the compressor crankcase remains within the range recommended page 51.3.
- * To select the optimal oil level, refer to the recommendations given by the compressor manufacturers; most of the time, this reference level is situated between the quarter and the half-sight glass.
- * During the selection process, take into account the oil return line pressure drops (filters, low sections, complex shapes),

- that can vary in time (filter blocking).
- * In the case of multi-compressor systems, it is recommended to use oil level regulators with a pressure equalization connection (LEVOIL 33 RE models), in order to get all the compressor sumps at the same pressure.
- * Replace the different gaskets each time the regulators or the sight glasses are taken out (see page 51.10).
- * Replace the oil filter after each intervention on the oil system (change of oil, component replacement, etc)
- * General assembly precautions: refer to chapter 115.





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■ Technical features

CARLY references		Type of connection	Pressure range (bar)	Oil inlet connection To screw SAE (inch)	Pressure equalization connection To screw SAE (inch)	Adjusted level	Installation kit (delivered with the product)
LEVOIL 22		7 holes Ø 6,5mm	1 - 4,5	1/4"	/	Set ½ glass	4 screw HM6-30 4 nuts M6 4 washers Diam. 6 2 0-ring 1 quadring 1 fitting wedge for 4 holes sight glass
LEVOIL 23		7 holes Ø 6,5mm	1 - 4,5	3/8"	/	Set ½ glass	4 screw HM6-30 4 nuts M6 4 washers Diam. 6 2 0-ring 1 quadring 1 fitting wedge for 4 holes sight glass
LEVOIL 23 BO		1" 1/8 - 18 UNEF	1 - 4,5	3/8"	/	Set ½ glass	1 sight glass 1" 1/4 - 12 UNF 2 PTFE gaskets 1 1" 1/8 - 18 UNEF adapter
LEVOIL 23 SC		3/4" NPTF	1 - 4,5	3/8"	/	Set ½ glass	1 sight glass 1" 1/4 - 12 UNF 2 PTFE gaskets 1 3/4" NPT adapter
LEVOIL 23 SU		1" 1/4 - 12 UNF	1 - 4,5	3/8"	/	Set ½ glass	2 PTFE gaskets
LEVOIL 33 RE		7 holes Ø 6,5mm	1 - 6,5	3/8"	1/4	Adjustable bet- ween ¼ and ¾ - glass	4 screw HM6-30 4 nuts M6 4 washers Diam. 6 2 0-ring 1 quadring 1 fitting wedge for 4 holes sight glass

See tables page 51-8 and 51-9 for regulators ans compressors association.





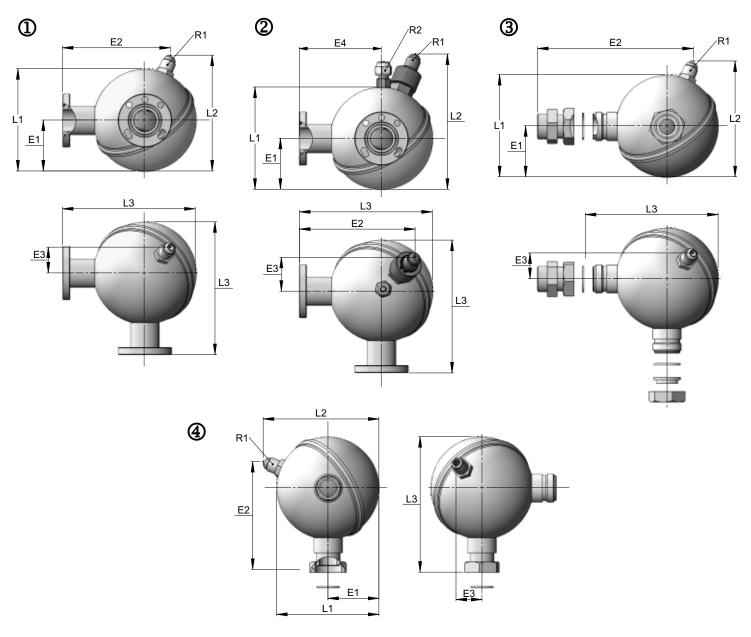
Mechanical oil level regulators and adapters



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■ Technical features

CARLY references	Drawing Nb			Di	mensions (m	m)				ns to flare (inch)
10101011000		L1	L2	L3	E1	E2	E3	E4	R1	R2
LEVOIL 22	1	115	130	148	58	119	29	/	1/4	/
LEVOIL 23	1	115	130	148	58	119	29	/	3/8	/
LEVOIL 23 BO	3	115	130	204	58	174	29	/	3/8	/
LEVOIL 23 SC	3	115	130	204	58	174	29	/	3/8	/
LEVOIL 23 SU	4	115	130	152	58	121	29	/	3/8	/
LEVOIL 33 RE	2	115	157	151	60	131	39	92	3/8	1/4





Mechanical oil level regulators and adapters

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■ Technical features

CARLY references	Volume	Pressure range	Maximal working pressure	Working pressure (1) PS BT	Maximal working temperature	Minimal working temperature	Working temperature (1)	CE Category
	(L)	∆P (bar)	PS (bar)	(bar)	(°C)	(°C)	(°C)	
LEVOIL 22	0,8	1 - 4,5	42	/	100	-20	/	Art3§3
LEVOIL 23	0,8	1 - 4,5	42	/	100	-20	1	Art3§3
LEVOIL 23 BO	0,8	1 - 4,5	42	/	100	-20	/	Art3§3
LEVOIL 23 SC	0,8	1 - 4,5	42	/	100	-20	/	Art3§3
LEVOIL 23 SU	0,8	1 - 4,5	42	/	100	-20	/	Art3§3
LEVOIL 33 RE	0,8	1 - 6,5	42	/	100	-20	1	Art3§3

⁽¹⁾ The working pressure is limited to the PS BT value when working temperature is lower than or equal to TS BT value.

■ Example of selection

The selection of the oil level regulator LEVOIL® implies for the user to take into account all the conditions under which the product will be used (temperature - pressure - refrigerant - oil - external environment etc).

- Refrigerating unit composed of three compressors operating with R404A under the following conditions:
 - Compressors n°1 et 2 $T_0 = -10^{\circ}C$
- Po = 4.4 barPo = 2.5 bar
- $T_0 = -25^{\circ}C$ Use of a HCYCT 3 differential valve between the oil receiver and the suction collector
- that maintains a pressure differential of 1.4 bar.
- · Oil level regulation at half glass (according manufacturer's recommendation).
- Inlet oil pipe diameter 3/8".
- Which LEVOIL® mechanical oil level regulator to choose?
 - Calculation of the oil receiver pressure (PRH)

 $PRH = Po maxi + \Delta P valve$

Result: PRH = 4.4 + 1.4 = 5.8 bar

* LEVOIL® SELECTION FOR COMPRESSORS NO.1 AND NO.2

The pressure differential between the HCYR oil receiver and the common line compressors being of 1.40 bar (given by the HCYCT 3 differential valve), a LEVOIL® oil level regulator accepting a pressure differential of 1.4 bar has to be mounted on each of these compressors.

Result: LEVOIL 23

* LEVOIL® SELECTION FOR COMPRESSOR NO.3

The pressure differential between the HCYR oil receiver and compressor No.3 being of 5.8 - 2.5 = 3.3 bar, a LEVOIL® oil level regulator accepting a pressure differential of 3.3 bar has to be mounted on the compressor.

Result: LEVOIL 23 / LEVOIL 33 RE

⁽²⁾ Classification by volume, according to PED 97/23/EC (refer to chapter 0 page 7).





Mechanical oil level regulators and adapters

→ HCYN 1A

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■ Technical features

• HCYN 1A adapters allow connection of CARLY oil level regulators to compressors when it is not possible to connect the universal 7 holes flange directly on the compressors sight glass flange.

CARLY references	Features of compressor connection (sight glass)	Accessories delivered with the adapter	End view from compressor side	Side view compressor on the right
HCYN 1A2	Threads 1" 1/8 - 12 UNF	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 trous diameter 60		
HCYN 1A3	3 screws 1/4" diameter 47.6	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6		
HCYN 1A5	4 screws 1/4" diameter 50	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 holes diameter 60		
HCYN 1A7	Threads 1" 1/2 - 18 UNEF	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 holes diameter 60		
HCYN 1A9	4 screws 1/4" at 90° diameter 50	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 holes diameter 60		
HCYN 1A10	Threads 1" 1/8 - 18 UNEF	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 holes diameter 60		
HCYN 1A11	Threads 3/4" NPT	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 glass 3 holes diameter 60		
HCYN 1A14	1" 3/4 - 12 UN ROTALOCK	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 gasket PTFE 1 glass 3 holes diameter 60		
HCYN 1A15	1" 1/4 - 12 UNF ROTALOCK	1 O-ring 3 screws HM6 - 30 cl 8 - 8 3 nuts HM6 3 washers DEC 6 1 gasket PTFE 1 glass 3 holes diameter 60		

See tables page 51-8 and 51-9 for regulators ans compressors association.



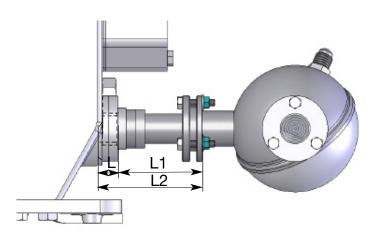


Mechanical oil level regulators and adapters

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■ Technical features

CARLY references	Dimensions (mm)						
	L1	L2	L				
HCYN 1A2	58,5	84,5	26,0				
HCYN 1A3	102,0	102,0	1				
HCYN 1A5	57,5	82,5	25,0				
HCYN 1A7	55,5	82,5	27,0				
HCYN 1A9	59,5	63,0	3,5				
HCYN 1A10	46,5	57,5	11,0				
HCYN 1A11	46,5	72,5	26,0				
HCYN 1A14	46,5	72,5	26,0				
HCYN 1A15	46,5	72,5	26,0				



CARLY references	Nominal Diameter DN	Maximal working pressure PS	Working pressure (1) PS BT	Maximal working temperature TS maxi	Minimal working temperature TS mini	Working temperature (1) TS BT	CE Category
	(mm)	(bar)	(bar)	(°C)	(°C)	(°C)	
HCYN 1A2	21,7	42	/	100	-20	/	Art3§3
HCYN 1A3	21,7	42	/	100	-20	/	Art3§3
HCYN 1A5	21,7	42	/	100	-20	/	Art3§3
HCYN 1A7	21,7	42	/	100	-20	/	Art3§3
HCYN 1A9	21,7	42	/	100	-20	/	Art3§3
HCYN 1A10	21,7	42	/	100	-20	/	Art3§3
HCYN 1A11	21,7	42	/	100	-20	/	Art3§3
HCYN 1A14	21,7	42	/	100	-20	/	Art3§3
HCYN 1A15	21,7	42	/	100	-20	/	Art3§3

⁽¹⁾ The working pressure is limited to the PS BT value when working temperature is lower than or equal to TS BT value.

⁽²⁾ Classification by diameter, according to PED 97/23/EC (refer to chapter 0 page 7).





Mechanical oil level regulators and adapters

→ LEVOIL® + HCYN 1A

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■ Compressor / oil level regulator association

C	ompressor	Type of connection	Oil level regulator	Oil level regulator + adapter	Electronic oil level regulator	BOOSTER application LP oil level regulator	Adjustable oil level regulator	Oil level regulator with equalisation
Brand	Range		(1,0 bar < ∆p < 4,5 bar)		(3,5 bar < ∆p < 21 bar)	(1,0 bar < ∆p < 4,5 bar)	(1,0 bar < ∆p < 6,5 bar)	(1,0 bar < ∆p < 6,5 bar)
	2CC> 2KC 2CHC> 2JHC 4CC> 4FC, 4CHC> 4FHC,	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEV0IL 22/23	,	LEVOIL 23 BO	LEVOIL 33 RE	LEVOIL 33 RE
	4NFR> 4UFR, NFC> UFC	. ,,,		+ HCYN 1A10	,		+ HCYN 1A10	+ HCYN 1A10
	2N, 2T, 4N, 4T, 4P, 4U , 4Z 4FE, 4G, 4H, 4J, 4JE,	4 holes in Ø 50mm	LEVOIL 22/23	LEVOIL 22/23 (+ HCYN 1A5 for	/	LEVOIL 22/23 (+ HCYN 1A5 for	LEVOIL 33 RE (+ HCYN 1A5 for	LEVOIL 33 RE (+ HCYN 1A5 for
BITZER	6F, 6G, 6H, 6J, W S4, S6, S66			CP before 05/1997)		CP before 05/1997)	CP before 05/1997)	CP before 05/1997)
	8D, 8E			LEVOIL 22/23 + HCYN 1A5	/	LEVOIL 22/23 + HCYN 1A5	LEVOIL 33 RE + HCYN 1A5	LEVOIL 33 RE + HCYN 1A5
	4NC(S)> 4VC(S), 4NHC> 4VHC, 4NES> 4VES, 4NDC> 4VDC	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
	6D, 6E			TEMON 00/00		LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
	8FC, 8GC		/	LEVOIL 22/23 + HCYN 1A3	/	+ HCYN 1A3	+ HCYN 1A3	+ HCYN 1A3
	GSD 8	1" 3/4 - 12 UNF	1	LEVOIL 22/23 + HCYN 1A14	/	LEVOIL 22/23 + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14
	HA, HG (4, 5, 6) HG (7, 8) HGZ	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
воск	EX HA, HG (12, 22, 34)	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEVOIL 22/23 + HCYN 1A10	/	LEVOIL 23 BO	LEVOIL 33 RE + HCYN 1A10	LEVOIL 33 RE + HCYN 1A10
	AM (2> 5) F (2> 16)	4 holes in Ø 50mm	1	LEVOIL 22/23 + HCYN 1A9	/	LEVOIL 22/23 + HCYN 1A9	LEVOIL 33 RE + HCYN 1A9	LEVOIL 33 RE + HCYN 1A9
CARRIER	EA, ER, 6E, OBE, OBCC	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
OAIIIIEII	DA, DR, 5F, 5H, 6D, 6E	1" 1/2 - 18 UNEF	1	LEVOIL 22/23 + HCYN 1A7	1	LEVOIL 22/23 + HCYN 1A7	LEVOIL 33 RE + HCYN 1A7	LEVOIL 33 RE + HCYN 1A7
	DK, DL, DN, ZR, ZZ	1" 1/8 - 12 UNF	1	LEVOIL 22/23 + HCYN 1A2	1	LEVOIL 22/23 + HCYN 1A2	LEVOIL 33 RE + HCYN 1A2	LEVOIL 33 RE + HCYN 1A2
	D2, D3, D4, D6, 4CC, 6CC	3 holes in	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
	D8, 8CC	Ø 47,6mm	1	LEVOIL 22/23 + HCYN 1A3	1	LEVOIL 22/23 + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3
COPELAND	ZB, ZF, ZS, ZO	3/4" - 14 NPTF	LEVOIL 23 SC	LEVOIL 22/23 + HCYN 1A11	1	LEVOIL 23 SC	LEVOIL 33 RE + HCYN 1A11	LEVOIL 33 RE + HCYN 1A11
	ZR (11> 19, 90), ZP (180/235/295/385)	1" 3/4 - 12 UNF Rotalock	1	LEVOIL 22/ 23 + HCYN 1A14	/	LEVOIL 22/23 + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14
	ZR (94/108/125/144/160/190) ZP (90/103/120/137/154/182) ZB (50> 114)	1" 1/4 - 12 UNF Rotalock	LEVOIL 23 SU	LEVOIL 22/23 + HCYN 1A15	1	LEVOIL 22/23 + HCYN 1A15	RE + HCYN 1A15	RE + HCYN 1A15





Mechanical oil level regulators and adapters

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■ Compressor / oil level regulator association

Co	Compressor		Oil level regulator	Oil level regulator + adapter	Electronic oil level regulator	BOOSTER application LP oil level regulator	Adjustable oil level regulator	Oil level regulator with equalisation
Brand	Range		(1,0 bar < ∆p < 4,5 bar)		(3,5 bar < ∆p < 21 bar)	(1,0 bar < ∆p < 4,5 bar)	(1,0 bar < ∆p < 6,5 bar)	(1,0 bar < ∆p < 6,5 bar)
DANFOSS	MLZ / MFZ / LFZ	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEVOIL 22/23 + HCYN 1A10	/	LEVOIL 23 BO	LEVOIL 33 RE + HCYN 1A10	LEVOIL 33 RE + HCYN 1A10
DANFUSS	SH (090> 161)	1" 3/4 - 12 UNF ROTALOCK	1	LEVOIL 22/23 + HCYN 1A14	/	LEVOIL 22/23 + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14	LEVOIL 33 RE + HCYN 1A14
	H1, K (40CC> 280CC) Hi (100>240) SCC (180B>280B)	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEVOIL 22/23 + HCYN 1A10	/	LEVOIL 23 BO	LEVOIL 33 RE + HCYN 1A10	LEVOIL 33 RE + HCYN 1A10
DORIN	H2, H32, H4K, K4, K5, K6, KP, 2S, Y6, SC SCC (500>2500B) Hi (400> 1500)	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
	K7, K8, Y7	3 holes in Ø 47,6mm	1	LEVOIL 22/23 + HCYN 1A3	/	LEVOIL 22/23 + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3
DUNHAM-BUSH	В6	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
FRASCOLD	A, B, D, F, S, V, Z A-SK> S-SK	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
THAGGED	W	3 holes in Ø 47,6mm	1	LEVOIL 22/23 + HCYN 1A3	/	LEVOIL 22/23 + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3
MANEUROP	All compressors with sight glass	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEVOIL 22/23 + HCYN 1A10	/	LEVOIL 23 BO	LEVOIL 33 RE + HCYN 1A10	LEVOIL 33 RE + HCYN 1A10
	PK, PL	1" 1/8 - 12 UNF	1	LEVOIL 22/23 + HCYN 1A2	/	LEVOIL 22/23 + HCYN 1A2	LEVOIL 33 RE + HCYN 1A2	LEVOIL 33 RE + HCYN 1A2
PRESTCOLD	P	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
	P8, P08	3 holes in Ø 47,6mm	1	LEVOIL 22/23 + HCYN 1A3	/	LEVOIL 22/23 + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3
REFCOMP	SP	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
nei oom	SP (8 cyl)	3 holes in Ø 47,6mm	1	LEVOIL 22/23 + HCYN 1A3	/	LEVOIL 22/23 + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3	LEVOIL 33 RE + HCYN 1A3
TECUMSEH	All compressors with sight glass	1" 1/8 - 18 UNEF	LEVOIL 23 BO	LEVOIL 22/23 + HCYN 1A10	1	LEVOIL 23 BO	LEVOIL 33 RE + HCYN 1A10	LEVOIL 33 RE + HCYN 1A10
EUROPE	SCROLL VSA	3/4" - 14 NPTF	LEVOIL 23 SC	LEVOIL 22/23 + HCYN 1A11	1	LEVOIL 23 SC	LEVOIL 33 RE + HCYN 1A11	LEVOIL 33 RE + HCYN 1A11
TRANE	M, R	3 holes in Ø 47,6mm	LEVOIL 22/23		1	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE
IIIANL	К	3/4" - 14 NPTF	LEVOIL 23 SC	LEVOIL 22/23 + HCYN 1A11	1	LEVOIL 23 SC	LEVOIL 33 RE + HCYN 1A11	LEVOIL 33 RE + HCYN 1A11
YORK	GC, GS, JS	3 holes in Ø 47,6mm	LEVOIL 22/23		/	LEVOIL 22/23	LEVOIL 33 RE	LEVOIL 33 RE

Carly
Refrigeration & Climate Components Solutions



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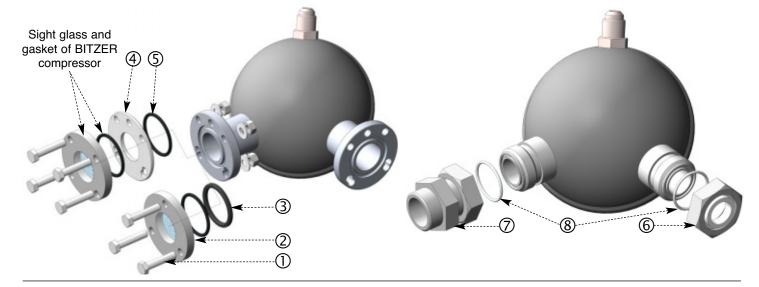
Mechanical oil level regulators and adapters

→ LEVOIL® + HCYN 1A

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■ Spare parts

CARLY references	Part Nb	Description	Types	Quantity
HCYN 1V1K	1+2+3+5	Bolts (1) + Glass (2) + gaskets (3, 5)	LEVOIL 22 / 23 / 33 RE	1
CY 29900130	1+3+4+5	Bolts (1) + intermediate disk (4) + gaskets (3, 5)	LEVOIL 22 / 23 / 33 RE	1
CY 15552000	3	Quad ring	LEVOIL 22 / 23 / 33 RE	1
CY 15552190	5	0-ring	LEVOIL 22 / 23 / 33 RE	1
CY 12850080	6	Sight glass 1" 1/4 ROTALOCK	LEVOIL 23 SC / 23 BO / 23 SU	1
CY 17637550	7	1" 1/8 -18 UNEF adapter	LEVOIL 23 BO	1
CY 17637490	7	3/4" NPT adapter	LEVOIL 23 SC	1
CY 15580120	8	PTFE gasket	LEVOIL 23 SC / 23 B0 / 23 SU	1



■ Weights and packaging

CARLY		veight :g)	Packaging unit		
references	With Without packaging		standard	OEM	
LEVOIL 22	1,27	1,10	1	/	
LEVOIL 23	1,27	1,10	1	1	
LEVOIL 23 BO	1,90	1,70	1	/	
LEVOIL 23 SC	1,90	1,70	1	1	
LEVOIL 23 SU	1,90	1,70	1	/	
LEVOIL 33 RE	1,37	1,20	1	1	

CARLY	Unit w (k	_	Packaging unit		
references	With Without packaging		standard	OEM	
HCYN 1A2	0,45	0,45	1	/	
HCYN 1A3	0,45	0,45	1	/	
HCYN 1A5	0,60	0,60	1	/	
HCYN 1A7	0,58	0,58	1	/	
HCYN 1A9	0,45	0,45	1	/	
HCYN 1A10	0,40	0,40	1	/	
HCYN 1A11	0,45	0,45	1	/	
HCYN 1A14	0,45	0,45	1	1	
HCYN 1A15	0,45	0,45	1	/	