



HIDRACAR S.A.

HIDRACAR ACCUMULATOR REFERENCE CODE IDENTIFICATION

This is the standard **HIDRACAR S.A.** accumulator reference code layout (without colour; here only for code section identification purposes):

X # # # X # # X # - X X X X / X X

◆ The first letter (**X**) indicates the type of accumulator:

U for bladder **M** for membrane **F** for bellows **P** for piston

◆ The following three digits (**###**) identify the volume of the accumulator:

U001 0.07 litres	P007 0.68 litres	P030 3.00 litres	U100 9.50 litres	P200 20.0 litres
P001 0.14 litres	M008 0.80 litres	U040 3.70 litres	M100 10.0 litres	P220 22.0 litres
U002 0.15 litres	U010 0.95 litres	M040 4.00 litres	F100 10.0 litres	U250 25.0 litres
M002 0.21 litres	F010i 0.90 litres	F040 3.70 litres	F100i 9.50 litres	P250 25.0 litres
F002 0.15 litres	P010 1.10 litres	F040i 3.70 litres	P100 10.0 litres	P300 30.0 litres
P002 0.27 litres	M012 1.20 litres	P040 4.00 litres	P120 12.0 litres	U320 32.0 litres
U003 0.35 litres	U015 1.40 litres	F050 5.00 litres	U130 13.0 litres	U350 35.0 litres
F003 0.30 litres	F015 1.40 litres	P050 5.00 litres	P140 14.0 litres	P350 35.0 litres
F003i 0.35 litres	F015i 1.40 litres	U060 5.60 litres	U150 15.0 litres	P400 40.0 litres
P003 0.35 litres	P015 1.50 litres	M060 5.60 litres	M150 15.0 litres	P500 50.0 litres
M004 0.40 litres	P020 2.00 litres	F060 5.60 litres	F150 15.0 litres	P600 60.0 litres
F005i 0.30 litres	P025 2.50 litres	F060i 5.60 litres	F150i 15.0 litres	P700 70.0 litres
P005 0.57 litres	U030 2.60 litres	P060 6.00 litres	P150 15.0 litres	P800 80.0 litres
U007 0.65 litres	M030 2.80 litres	P070 7.00 litres	P160 16.0 litres	P900 90.0 litres
F007 0.70 litres	F030 2.60 litres	P080 8.00 litres	U180 18.0 litres	P990 99.0 litres
F007i 0.65 litres	F030i 2.70 litres	P090 9.00 litres	U200 20.0 litres	

◆ The second letter (**X**) refers to the type of gas charging valve:

A for a ¼" BSP valve **B** for a Vg8 valve

◆ The second set of two digits (**##**) refers to the design pressure of the accumulator (number to be multiplied by 10 to give the actual pressure in bar units):

Examples:

02 (0)2 x 10 = 20 bar **18** 18 x 10 = 180 bar **41** 41 x 10 = 410 bar

◆ The third letter (**X**) identifies the material of the separator element between the charging gas (N₂ or air) and the liquid in the circuit:

N Nitrile rubber (NBR)	E EPDM rubber	V FKM rubber	B Butyl rubber
S Silicone rubber	G Hydrogenated NBR	R Low temperature Nitrile rubber	
T TFM y PTFE	F FKM (70% Fluorine)	C Neoprene rubber	A Aflas
	I Stainless steel		H Hypalon

- ◆ Followed by a last digit (#) which refers to the number of connecting ports (see the standard thread size available on each technical note; these are referenced at the very end of the code as such if different from our standard thread size):

1 One connection port **2** Two connection ports

Special case (§): In carbon steel body accumulators, a 0 digit follows after the 1 or 2 digit. if the specific material code is not included.

- ◆ Finally, the last set of two to four letters (XXXX) (or its absence) identifies the raw material of the accumulator body and bladder or membrane inserts:

AI AISI 316L Stainless steel **DU** Duplex **SDU** Super Duplex **TI** Titanium
HAST Hastelloy **AC** Carbon steel **(NO LETTERS)** Carbon steel (§)
ALLY Special alloy **SA** Carbon steel – internal nickel coating accumulator for water service
PP Polypropylene **PC** PVC **PCC** Chlorinated PVC **PD** PVDF

- ◆ In some instances an extra codification for one or more special characteristics is added, separated by a slash after the basic part of the reference code:

E Special manufacture **DR** Quick dismantling design **CR** Reinforcing jacket
IN Indicator rod attachment **BA** With a connection for an additional cylinder
NS Apparatus without welded seams **IC** Internal HALAR® coating **SB** No insert bladder
TF PTFE connecting port **TFG** Graphite-PTFE connecting port
PE Polyethylene connection port **PD** PVDF connecting port
HC Hastelloy connecting port **CC** Heating jacket
(90°) Connection port at 90° **(LINIA)** In-line accumulator

Let's see an overall example:

F007A11I1-AI/CC
F007A11I1-AI/CC

F	Bellows type	007	0.65 litres volume
A	fitted with a ¼" BSP valve	11	110 bar design pressure
I	Stainless steel bellows	1	One connection port
AI	Stainless steel body	CC	Heating jacket

So this reference corresponds to a stainless steel, bellows type, accumulator with an internal volume of 0.65 litres, designed for working at a pressure of 110 bar, fitted with a stainless steel bellows, one standard connection port, a ¼" BSP gas charging valve and heating jacket.

6th Rev., May 2014