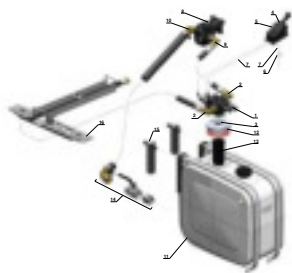


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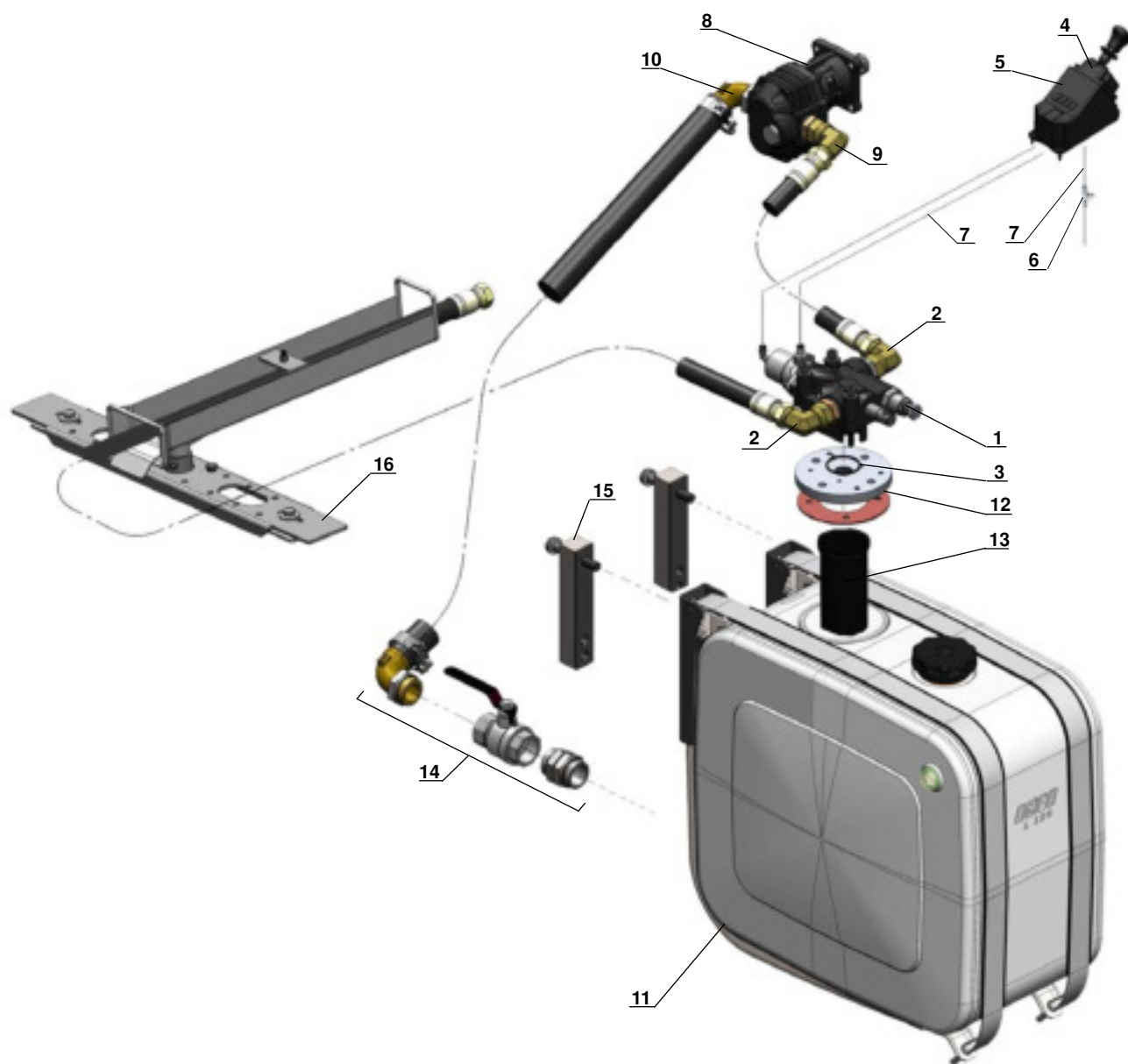
PRESSURE HOSES

pag.1

**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001:2015 =**

O.M.F.B. S.p.a. Hydraulic Components
We reserve the right to make any changes without notice.
Edition 2018.09 No reproduction, however partial, is permitted.
Via Cave, 7/9 25050 Provaglio d'Iseo (Brescia) Italy Tel.: +39.030.9830611
Fax: +39.030.9839207-208 Internet:www.omfb.it e-mail:info@omfb.it

OMFB
HYDRAULIC COMPONENTS



Kit - 1 includes (1 hose system):

Alu tank 170 liter including mounting brackets for DAF XF/CF right hand side mounting

Gear pump 200 bar, left rotation, 82 l/min

Single pressure valve with proportional lowering

Pneumatic cabin control including 8 meters 4 coloured pipes

Valve mounting kit for mounting on top of tank including submerged oil filter

Swivel arm with adjustable height

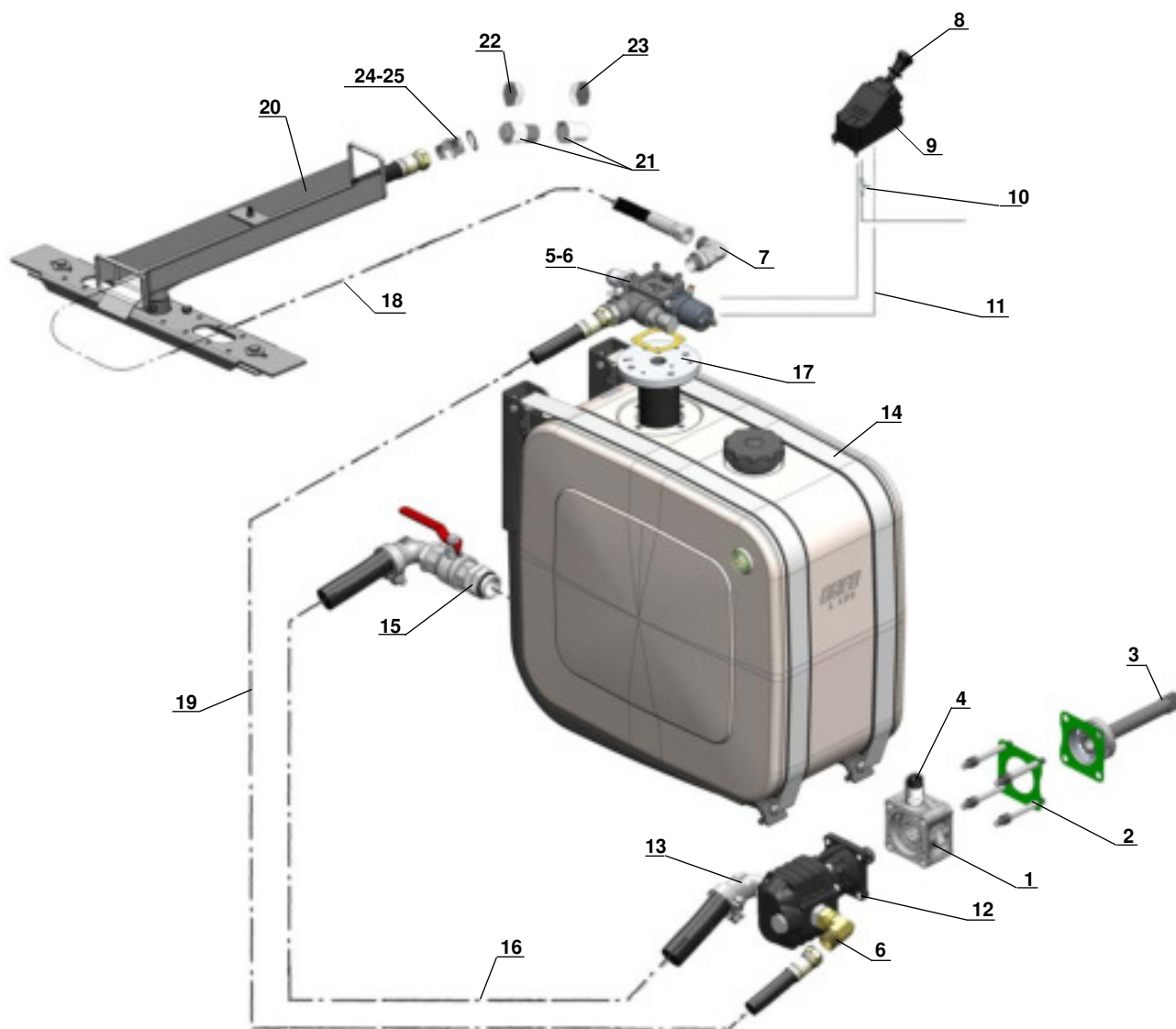
Ball valve and all other high pressure and low pressure fittings

1x 280 bar 4 layer hose of 150cm

1x 280 bar 4 layer hose of 400cm

**- 1 HOSE SYSTEM
- TIPPER APPLICATION**

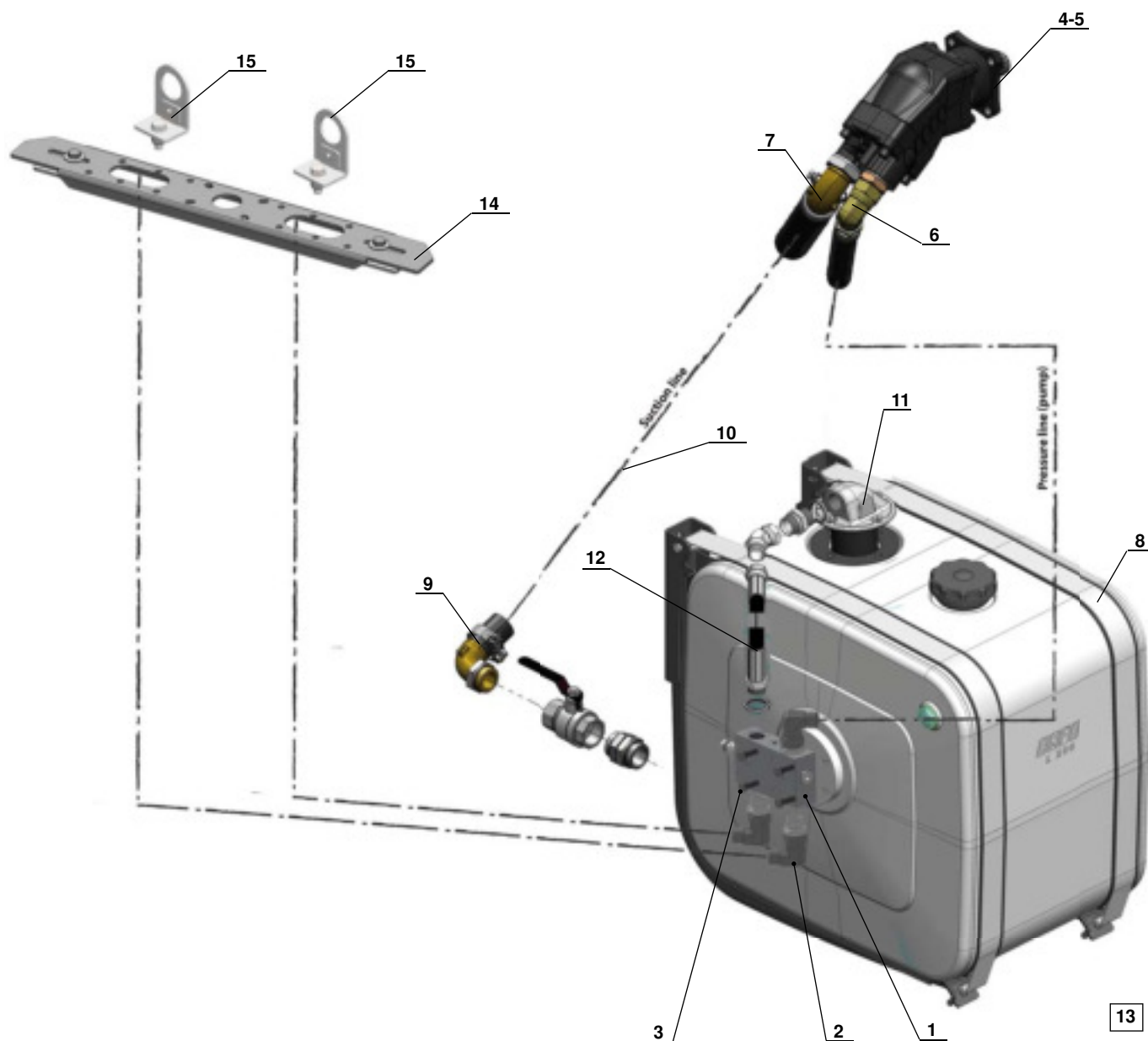
GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
VALVE	1	12100800210	3 positions pneumatic tipping valve - proportional lowering - maximum flow 250L/min - pressure cap. up to 400 bar"	1
	2	15520001009	HP fitting 1"	2
	3	12199400502	Set of screws and bolts for fastening the valve onto the plate.	1
PNEUMATIC CONTROL	4	10000171101	Pneumatic control with blocking function	1
	5	10000270065	Angled Bracket for pneumatic control	1
	6	10001600312	Pneumatic fitting	1
	7	10098000502	4 coloured air pipes, 8 meters	1
PUMP	8	10501110833	Gear pump 200 bar, 82 L/min, left rotation	1
	9	15520034100	HP fitting 3/4" x 1"	1
	10	15510000501	LP fitting 1"1/4 X T.50 (60-63)	1
TANK	11	13561311706	OIL TANK ALU LT170 64X71X45, including mounting brackets	1
	12	12199400226	Flange for top mounting valve on tank	1
	13	11800111177	Return submerged oil filter, mounted in tank under valve (200L per minute)	1
	14	15599000283	Suction kit	1
	15	13590100111	Mounting kit for oil tanks on DAF CF/XF	1
HOSES	16	15599350208	LP HOSE 50X64(DN 2") SAE 100 R4, 2 meter	1
	17	15611104002	HP HOSE 400CM 280BAR, 4 layer	1
	18	15611101505	HP HOSE 150CM 280BAR, 4 layer	1
ARM	19	12201500255	Swivel arm (French version)	1



Kit - 2 includes (1 hose system):
 PTO quill shaft and mounting kit for ZF As-Tronic transmission
 Aluminium tank 150 liter including mounting brackets
 Gear pump 200 bar, left rotation, 82 l/min
 Single pressure valve with proportional lowering
 Pneumatic cabin control including 20 meter of air pipe
 Valve mounting kit for mounting on top of tank
 Swivel arm with adjustable height
 Ball valve and all other high pressure and low pressure fittings
 Quick release coupling with wings and plug
 1x 215BAR 2 layer hose of 150cm
 1x 215BAR 2 layer hose of 250cm

**- 1 HOSE SYSTEM
 - TIPPER APPLICATION
 - SWIVEL ARM**

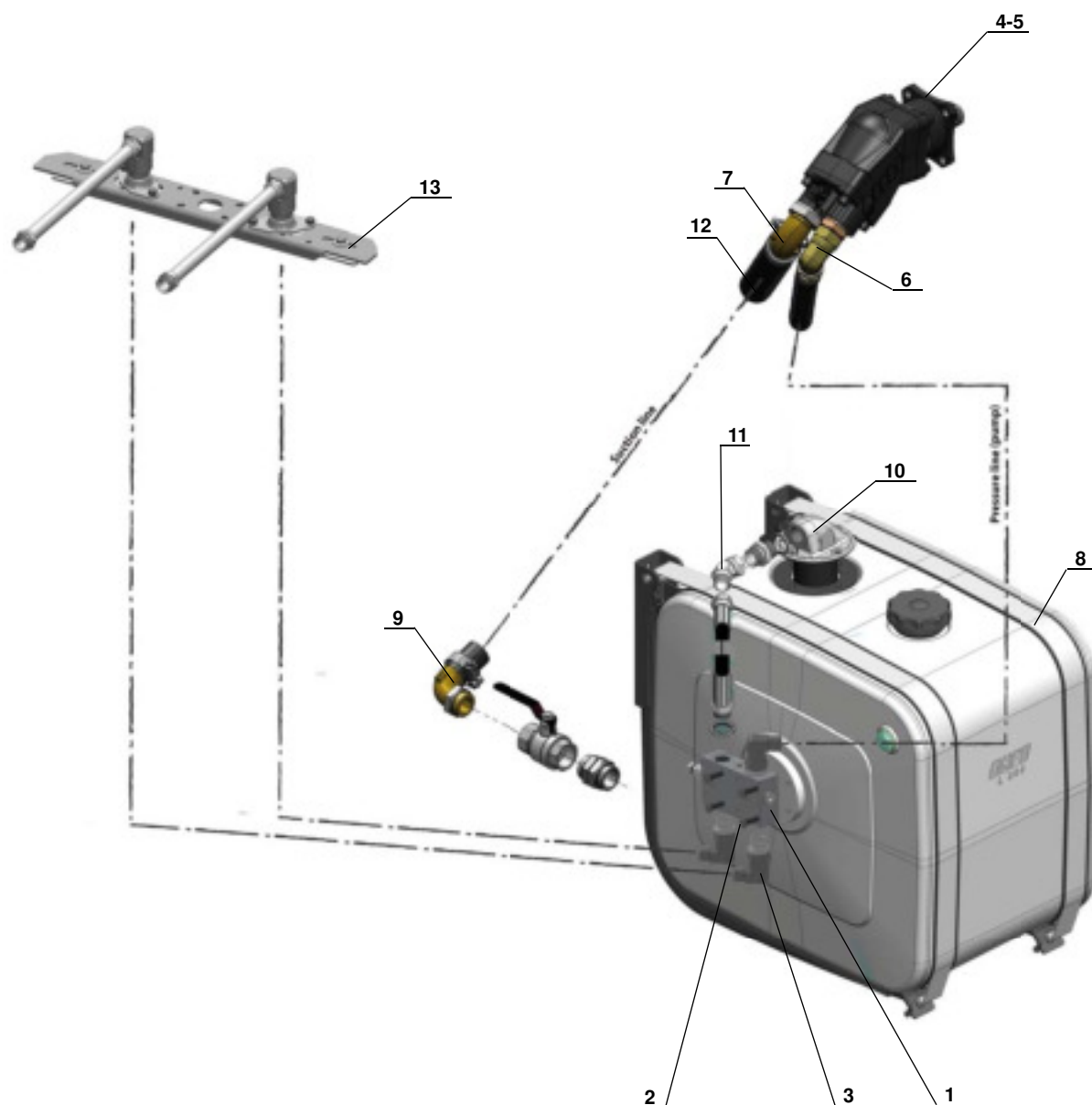
GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
PTO	1	01004000171	PTO "POWER-LIGHT" 1:1 ISO	1
	2	15400304347	MOUNTING KIT	1
	3	09300600053	QUILL-SHAFT	1
	4	31100100198	PRESSURE SWITCH	1
VALVE	5	12100800050	MODULAR 250 G1 Direct valve	1
	6	12199400502	Set of screws and bolts for fastening the valve onto the plate.	1
	7	15520010348	HP fitting 1" - 3/4" - 90°	2
PNEUMATIC CONTROL	8	10000171094	Pneumatic control N-FORCE	1
	9	10000270243	Angled Bracket for pneumatic control	1
	10	10001700053	Pneumatic fitting	1
	11	10098000057	Air pipe black "PA-12"6X4 20 meter	1
PUMP	12	10502810825	Gear pump 200 bar, 82 L/min, left rotation	1
	13	15510000412	LP fitting 1" X T.50 (60-63)	1
TANK	14	13561311500	Oil tank ALU lt 150, including mounting brackets	1
	15	15599000283	Kit suction G 1-1/2	1
	16	15599350208	Suction hose SAE100 R4 L=2MT	1
	17	12199400226	Flange for top mounting valve on tank	1
HOSES	18	15610002507	Hose 2SN R2AT 3/4" FD+FD cm 250	1
	19	15610001508	Hose 2SN R2AT 3/4" FD+FD cm 150	1
ARM	20	12201500255	Swivel arm for pipes	1
QUICK RELEASE COUPLING	21A	11901700090	Quick coupling Male/Lugs	1
	21B	11901700107	Quick coupling Female/fix	1
	22	11900302101	Plug	1
	23	11900302094	Male plug	1
	24	11600600151	HP fitting G3/4 - G1	1
	25	11600911002	Dowty washer G1	1



Kit - 3 includes (2 hoses system):
 Piston pump 350 bar, 108 l/min, right rotation.
 Aluminium tank 200 liter including mounting brackets
 Single pressure relief valve panel block
 Valve mounting kit for mounting on tank side
 Return oil filter compact size and return hose
 Crossboard bracket with 2 bracket for single
 quick coupling "wings"
 Ball valve and all other high pressure
 and low pressure fittings

**- 2 HOSE SYSTEM
 - WALKING FLOOR**

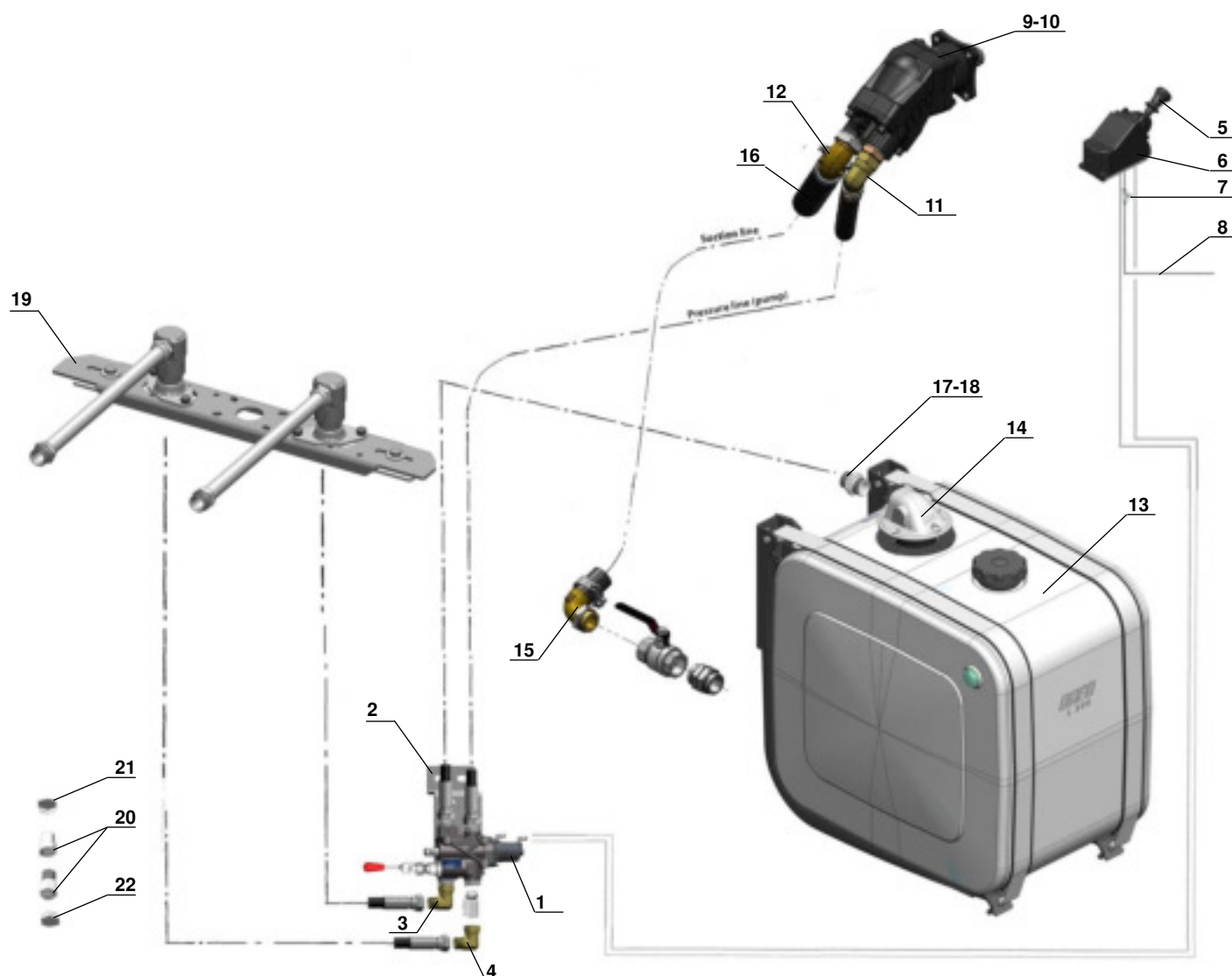
GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
PANEL WITH RELIEF VALVE	1	12108000016	1" RELIEF VALVE PANEL BLOCK	1
	2	15520001009	HP fitting 1" - 90°	3
	3	12199401172	MOUNTING KIT FOR RELIEF VALVE	1
PUMP	4	60200111083	HDT 108 DX.	1
	5	50700100086	Gasket ISO 7707	1
	6	15520101008	HP fitting 1" - 45°	1
	7	15509000497	"GOLD"45° 1"1/4 X T.50 (60-63)	1
TANK	8	13561372007	Oil tank ALU lt200 + Plate+kit	1
	9	15599000283	Kit suction G 1-1/2	1
	10	15599350208	Suction hose SAE100 R4 L=2mt	1
	11	11800120032	FILTER CAP 4H.G1-60µM 200L	1
	12	13590400118	RETURN HOSE KIT, FILTER/OIL TANK, G1, 200LT	1
	13	11601200108	Long nipple + nut G1	2
ARM	14	12201530035	Bracket	1
	15	12199400824	Bracket for single quick coupling "wings"	2



Kit - 4 includes (2 hoses system):
 Piston pump 350 bar, 108 l/min, right rotation.
 Aluminium tank 200 liter including mounting brackets
 Single pressure relief valve panel block
 Valve mounting kit for mounting on tank side
 Return oil filter compact size and return hose
 Crossboard bracket with 2 swivel joints
 Ball valve and all other high pressure and low pressure fittings

**- 2 HOSE SYSTEM
 - WALKING FLOOR
 - SWIVEL ARM**

GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
VALVE	1	12108000016	Panel with pilot valve	1
	2	12199401172	Set of screws and bolts for fastening the valve	1
	3	15520001009	HP fitting 1" - 90°	5
PUMP	4	60200111083	HDT 108 DX.	1
	5	50700100086	Gasket ISO 7707	1
	6	15520101008	HP fitting 1" - 45°	1
	7	15509000497	"GOLD"45° 1"1/4 X T.50 (60-63)	1
TANK	8	13561372007	Oil tank alu lt200 + 2plate + kit	1
	9	15599000283	Kit suction G 1-1/2	1
	10	11800120032	Filter cap G1 60 micron	1
	11	13590400118	Return hose kit	1
HOSE	12	15599350208	Suction hose SAE100 R4 L=2mt	1
ARM	13	12201510039	Crossboard brk for 2 revolv. joints	1

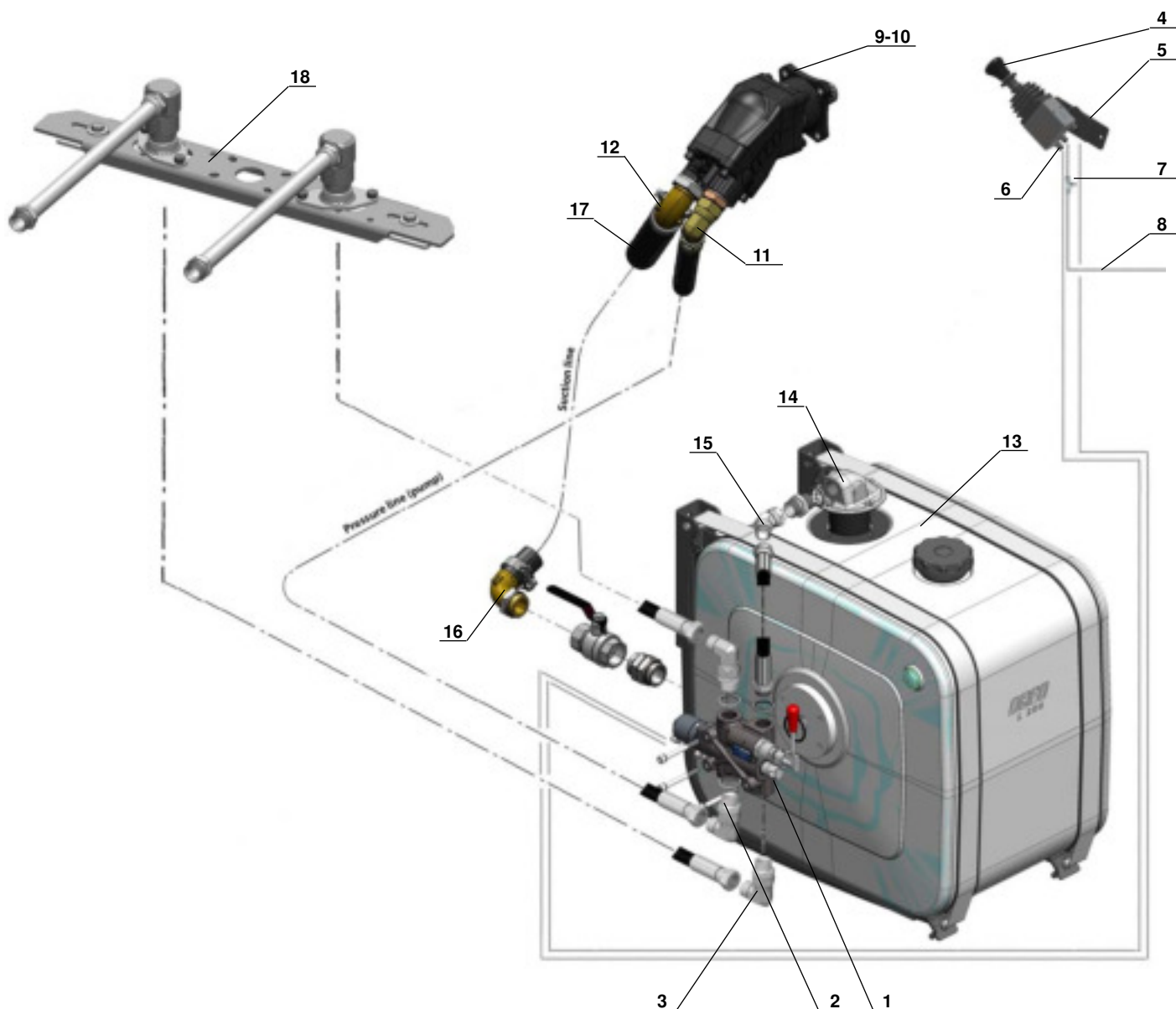


Kit -5 includes (2 hoses system):

- Piston pump 350 bar, 108 l/min, right rotation.
- Aluminium tank 200 liter including mounting brackets
- Double pressure valve with proportional lowering
- Pneumatic cabin control including 20 meter of air pipe
- Valve mounting kit for mounting on tank side
- Return oil filter compact size and return hose
- Crossboard bracket with 2 Swivel joint
- Ball valve and all other high pressure and low pressure fittings
- Quick release coupling wit wings and plug

**- 2 HOSE SYSTEM
- TIPPER+WALKING FLOOR**

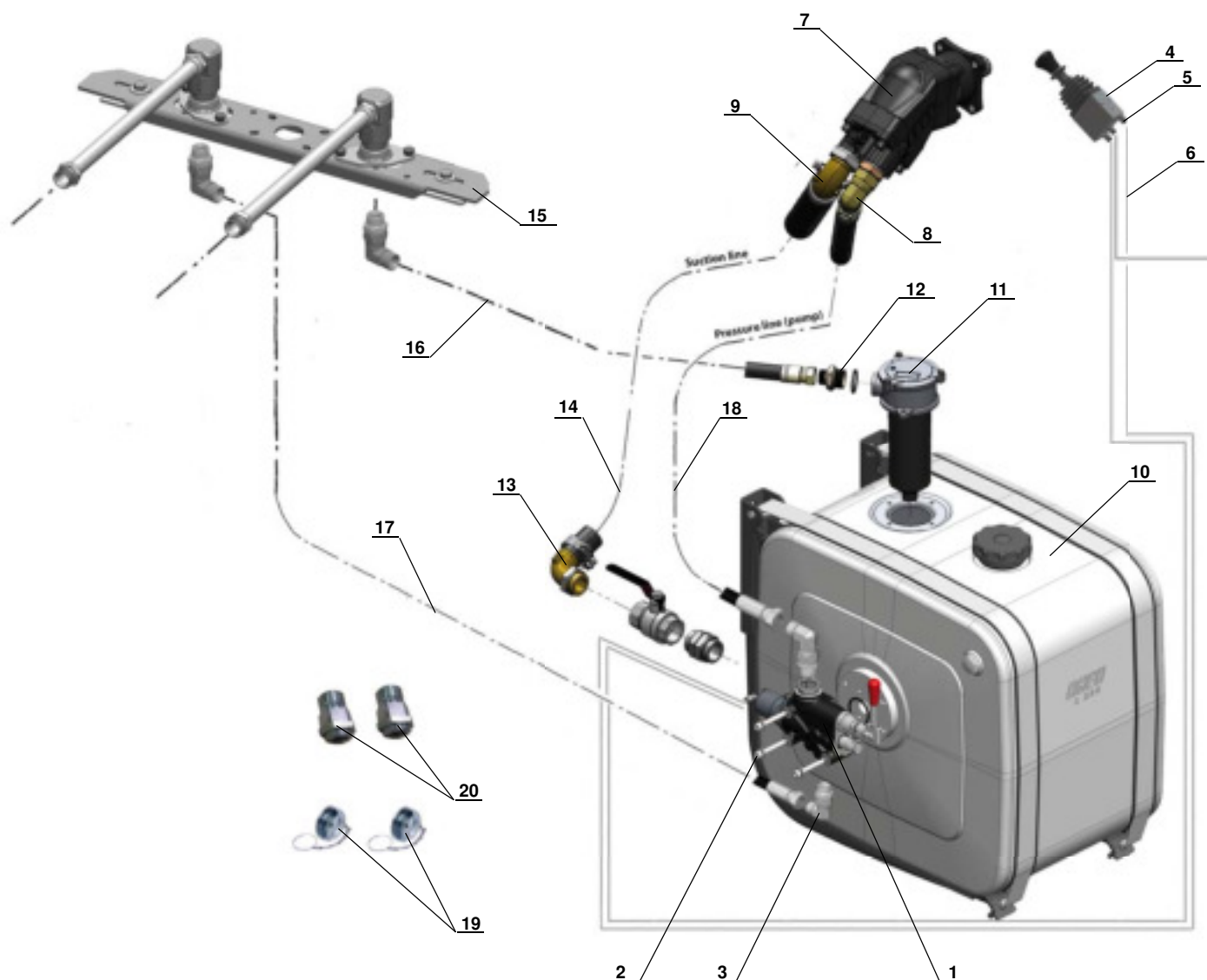
GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
VALVE	1	12101802207	Modul-truck 250 G1 2 press.mec.	1
	2	12199400771	Bracket	1
	3	15520001009	HP fitting 1" - 90°	3
	4	11600400171	Extension G1 medium	1
PNEUMATIC CONTROL	5	10000171101	Pneumatic control with blocking function	1
	6	10000270243	Angled Bracket for pneumatic control	1
	7	10001700053	Pneumatic T fitting	1
	8	10098000057	Air pipe black "PA-12"6X4 20 meter	1
PUMP	9	60200111083	HDT 108 DX.	1
	10	50700100086	Gasket ISO 7707	1
	11	15520101008	HP fitting 1" - 45°	1
	12	15509000497	"GOLD"45° 1"1/4 X T.50 (60-63)	1
TANK	13	13561312009	OIL TANK ALU LT200 64X71X50, including mounting brackets	1
	14	11800120032	FILTER CAP G1 60 micron	1
	15	15599000283	KIT SUCTION G 1-1/2	1
	16	15599350208	SUCTION HOSE SAE100 R4 L=2MT	1
	17	11600911002	DOWTY WASHER G 1	3
	18	11600600179	HP fitting G1 - G1	2
ARM	19	12201510039	Crossboard brk for 2 revol. joints	1
QUICK RELEASE COUPLING	20A	11901700090	Quick Coupling Male/Lugs	1
	20B	11901700107	Quick Coupling Female/fix	1
	21	11900302101	Plug	1
	22	11900302094	Male plug	1



Kit - 6. includes (2 hoses system):
 Piston pump 350 bar, 108 l/min, right rotation.
 Aluminium tank 200 liter including mounting brackets
 Double pressure valve with proportional lowering
 Pneumatic cabin control including 20 meter of air pipe
 Valve mounting kit for mounting on tank side
 Return oil filter compact size and return hose
 Crossboard bracket with 2 swivel joints
 Ball valve and all other high pressure and low pressure fittings

**- 2 HOSE SYSTEM
 - TIPPER+WALKING FLOOR
 - SWIVEL ARM**

GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
VALVE	1	12101802207	Modul-truck 250 G1 2 press.mec.	1
	2	12199400888	Set of screws and bolts for fastening the valve onto the plate.	1
	3	15520001009	HP fitting 1" - 90°	5
PNEUMATIC CONTROL	4	10000140026	Air ctrl for tipper valve flat type	1
	5	10000240016	Support kit	1
	6	10001700151	Pneumatic black fitting	3
	7	10001700053	Pneumatic T fitting	1
	8	10098000057	Air pipe black "PA-12"6X4 20 meter	1
PUMP	9	60200111083	HDT 108 DX	1
	10	50700100086	Gasket ISO 7707	1
	11	15520101008	HP fitting 1" - 45°	1
	12	15509000497	"GOLD"45° 1"1/4 X T.50 (60-63)	1
TANK	13	13561372007	OIL TANK ALU LT200 + PLATE + KIT	1
	14	11800120032	FILTER CAP G1 60 micron	1
	15	13590400118	RETURN HOSE KIT	1
	16	15599000283	KIT SUCTION G 1-1/2	1
	17	15599350208	SUCTION HOSE SAE100 R4 L=2MT	1
ARM	18	12201510039	Crossboard brk for 2 revol. joints	1



Kit - 7 includes (2 hoses system):
 Piston pump 350 bar, 108 l/min, right rotation.
 Aluminium tank 200 liter including mounting brackets.
 Double pressure valve with proportional lowering.
 Pneumatic cabin control including 20 meter of air pipe.
 Valve mounting kit for mounting on tank side.
 Return oil filter.
 Crossboard bracket with 2 swivel joints.
 Ball valve and all other high pressure and low pressure fittings.
 Quick release coupling with wings and plug.
 1x 280BAR 4 layer hose of 140cm
 1x 280BAR 4 layer hose of 150cm
 1x 280BAR 4 layer hose of 160cm

**- 2 HOSE SYSTEM
 - TIPPER+WALKING FLOOR
 - SWIVEL ARM
 - WITH PRESSURE HOSES**

GROUP	POS.	PART N°	PART DESCRIPTION	Q.TY
VALVE	1	12100700202	TIPVLV MODULAR 250 CE 1" 2PRS.MEC	1
	2	12199400502	MOUNTING KIT GASKETS/SCREWS FORMOD.	1
	3	15520001009	HP fitting 1" - 90°	4
PNEUMATIC CONTROL	4	10000140026	3WAYS-3POS.BLOCKS PRORDOWN BOTPORT	1
	5	10001700151	AIR FIT.STRAIGHT X TUBE 6-1/8"CYL.	5
	6	10098000057	AIR TUBE MT.20 "PA-12" 6X4 BLACK	1
PUMP	7	60200111083	PISTON PUMP BENT-AXIS HDT108 R ISO	1
	8	15520101008	HP fitting 1" - 45°	1
	9	15509000497	"GOLD"45° 1"1/4 X T.50 (60-63)	1
TANK	10	13561352001	SIDE TANK ALUM.LT200 I=115+PLAT+KIT	1
	11	11800101455	RETURN FILTER 2X115/170LT.60µM	1
	12	11600600204	PRESSURE NIPPLE 1"X 1-1/4"	1
	13	15599000283	KIT SUCTION G 1-1/2	1
	14	15599350208	SUCTION HOSE SAE100 R4 L=2MT	1
ARM	15	12201510039	SWIVEL ARMS 2REVOL.JOINTS 90° 1"DAF	1
HOSES	16	15611101407	HOSE T4 R9R 25X39 FD+FD 1" CM 140	1
	17	15611101505	HOSE T4 R9R 25X39 FD+FD 1" CM 150	1
	18	15611101603	HOSE T4 R9R 25X39 FD+FD 1" CM 160	1
QUICK RELEASE COUPLING	19	11900302101	CAP X QUICK RELEASE SCREWED 1"	2
	20	11901700090	QUICK COUP.WINGS 1" FIXED	2

Oil tank - DIAMOND Series

Side-steel

Tank code OMFB	Filling capacity	A mm	Weight Kg
13591011359	135	350	20
13591011500	150	400	22
13591011706	170	450	23.5
13591012009	200	500	25.5



Side-aluminium

Tank code OMFB	Filling capacity	A mm	Weight Kg
13591311356	135	350	12
13591311507	150	400	13
13591311703	170	450	14
13591312006	200	500	15
13591302517	250	600	17



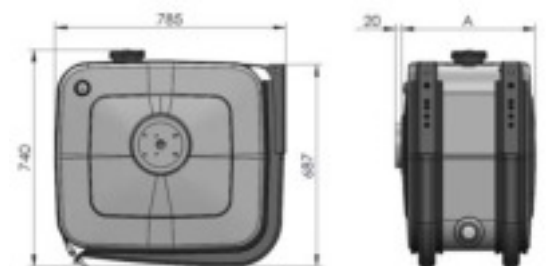
Side-aluminium left plate

Tank code OMFB	Filling capacity	A mm	Weight Kg
13591351358	135	350	14
13591351509	150	400	15
13591351705	170	450	16
13591352008	200	500	17



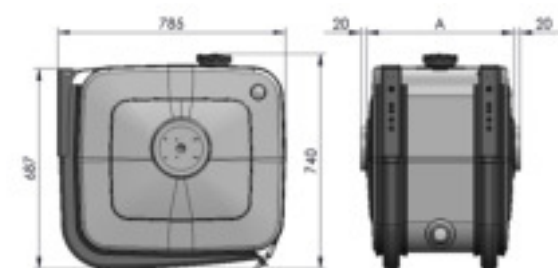
Side-aluminium right plate

Tank code OMFB	Filling capacity	A mm	Weight Kg
13591361703	170	450	16
13591362006	200	500	17



Side-aluminium right/left plate

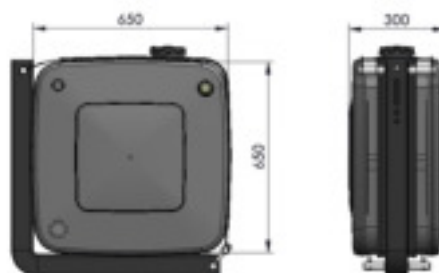
Tank code OMFB	Filling capacity	A mm	Weight Kg
13591372004	200	500	



DB oil tanks

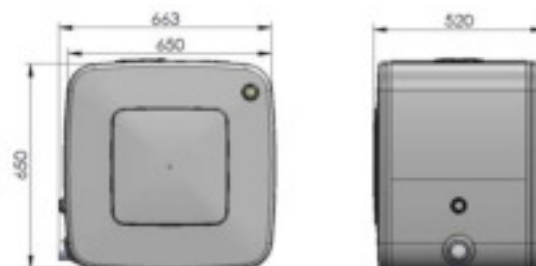
Hydraulic oil tank - MONO

Tank code OMFB	Filling capacity	Weight Kg
H1AMBL03020	115	38,5



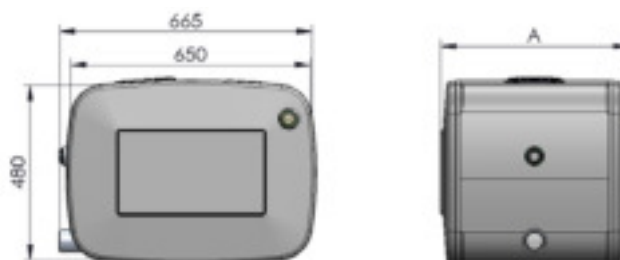
Multifittings oil tank - JOLLY L

Tank code OMFB	Filling capacity	Weight Kg
H1ANBL05240	200	15,5



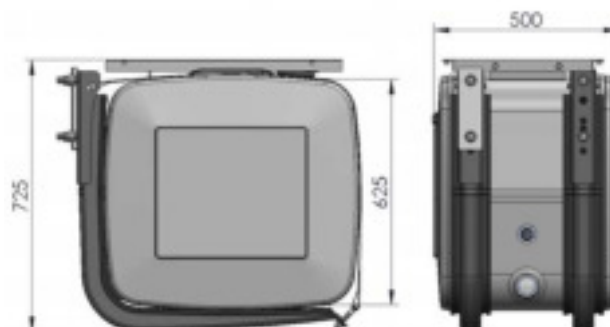
Multifittings oil tank - JOLLY P

Tank code OMFB	Filling capacity	A mm	Weight Kg
H1ANBP03540	100	350	10,5
H1ANBP05040	140	500	12,5



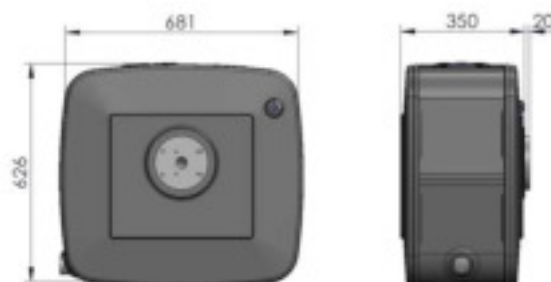
Hydraulic oil tank - SCALETTA

Tank code OMFB	Filling capacity	Weight Kg
H2ALBQ05022	180	43,5



Side mounting oil tanks - Q

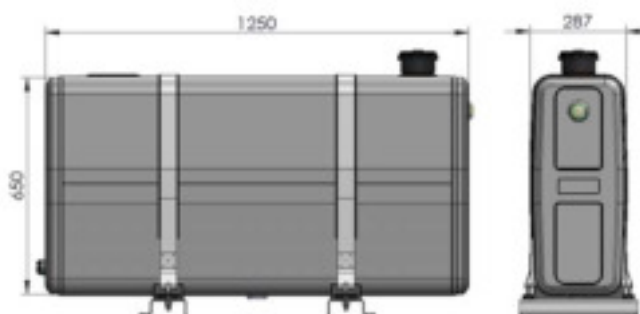
Tank code OMFB	Filling capacity	Weight Kg
H2GLBQ03540	135	28



Rear cabin oil tanks - VERTICAL

Aluminium

Tank code OMFB	Filling capacity	Weight Kg
V1ARBS08020	130	24,3
V1ARBS10020	160	27
V1ARBS12520	200	30
V1ARBS14520	230	32

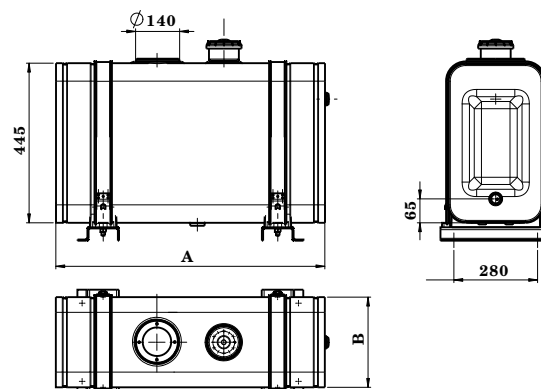


Coated steel

Tank code OMFB	Filling capacity	Weight Kg
V1GRBS08020	130	39
V1GRBS10020	160	44
V1GRBS12520	200	49,4
V1GRBS14520	230	54,2

Rear cab-steel top plate

Tank code OMFB	Filling capacity	A mm	B mm	Weight Kg
13570000758	75	600	305	20
13570001006	100	600	325	31
13570001300	130	800		38
13570001659	165	1000		45
13570001800	180	1100		50
13570002452	245	1400		54



Mounting kits for oil tanks

Code OMFB	Description
13590300020	Side kit type DIAMOND (150-170-200-250 lt)

Code OMFB	Description
13590300084	Side kit type DIAMOND (135 lt)



Code OMFB	Description
13590302019	Rear cab kit type DIAMOND



Code OMFB	Description
135903BQLX0	Side kit type Q (625x680)



Code OMFB	Description
135903BLLX2	Side kit type JOLLY L (650x650) (150-170-200-250 lt)



Code OMFB	Description
135903BLLX3	Side kit type JOLLY L (650x650) (135 lt)



Code OMFB	Description
135903BLLX2	Rear cab kit type JOLLY L



Code OMFB	Description
135903BPLX0	Side kit type JOLLY P (480x650) (110-125-140-170-200 lt)



Code OMFB	Description
135903BPLX1	Rear cab kit type JOLLY L (100 lt)



Code OMFB	Description
135903BPRX0	Rear cab kit type JOLLY P



Tank accessories and spare parts

Filler Cap

Code OMFB	Description
11801300103	Filler cap
11890200107	Filter elements
11801300201	Filler cap
11890200125	Filter elements
11890500042	Filler cap



Blank flange

Code OMFB	Description
13599020110	Blank flange



Gasket

Code OMFB	Description
50600002541	Gasket d.90 x 155



Rubber Protection

Code OMFB	Description
13599000712	Rubber protection



Strap

Code OMFB	Description
13599030216	Stainless steel strap for oil tank
13599030305	PVC protection for oil tank strap



1533577



1533578

Mounting brackets

Code OMFB	Description
13599030387	Mounting brackets



Mounting kit

Code OMFB	Description
13599030403	Pins and nuts (2 of each) mounting kit for oil tank



Oil level

Code OMFB	Description
50900400043	Oil level



Spacer

Code OMFB	Description
53800000493	Spacer for oil tank H=4



Spacer mounting kit

Code OMFB	Description
13590100022	Spacer mounting kit DAF XF/CF 8 o'clock rif. 022



Code OMFB	Description
13590100111	Spacer mounting kit DAF XF/CF 3 o'clock rif. 111



Code OMFB	Description
13590100602	Spacer mounting kit NEW DAF XF/CF 2 o'clock



Code OMFB	Description
13590100611	Spacer mounting kit NEW DAF 2 o'clock



Code OMFB	Description
13590100620	Spacer mounting kit NEW DAF 8/4 o'clock



Return hose kit

Code OMFB	Description
13590400118	Return hose kit filter/oil tank G1 - 200L



Code OMFB	Description
13590400038	Aux return kit G1" + G1/2" l=115



Coupling

Code OMFB	Description
46001455013	Alu coupling G"1/2
46001455040	Alu coupling G"1



Return filter and accessories

Filter cap, complete with cartridge 1 return port

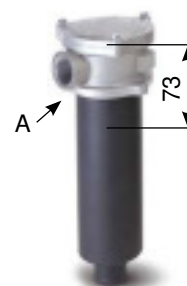
Code OMFB	Description	A
11800120032	Cartridge 60 μ m (steel) 200lt	G1
11800120041	Cartridge 25 μ m (cellulose) 160lt	G1
11800120087	Cartridge 25 μ m (fiber) 160lt	G1-1/4



Flangible filter

Distance between the holes=115

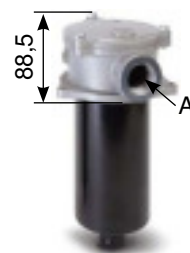
Code OMFB	Filter	Displ.	A
11800100358	Steel 90 μ m	90	G 3/4
11800101455	Steel 60 μ m	170	G 1 1/4
11800101482	Steel 60 μ m	200	G 1
11800102409	Reinforced cellulose 25 μ m	100	G 1
11800102445	Reinforced cellulose 25 μ m	175	G 1
11800102454	Reinforced cellulose 25 μ m	175	G 1 1/4
11800103355	Reinforced cellulose 10 μ m	55	G 3/4



Flangible filter

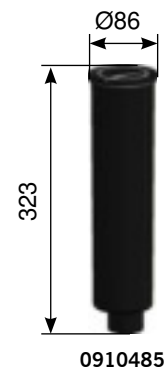
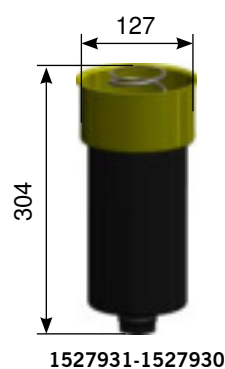
Distance between the holes=175

Code OMFB	Filter	Displ.	A
11800101508	Steel 60 μm	260	G 1 1/4
11800102507	Reinforced cellulose 25 μm	270	



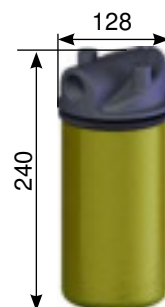
Submerged filter

Code OMFB	Type flange	Displ.
11800111757	175	180
11800112756		130
11800111177	115	200



Return filter

Code OMFB	Filter	Displ.
11800131208	60 μm	205



Spare cartridge

Code OMFB	Description
11800202453	Cartridge Reinforced cellulose 25 μm
11800211176	Cartridge Steel 60 μm
11800212175	Cartridge Reinforced cellulose 25 μm
11800231207	Cartridge for return filters

Clogging indicator

Code OMFB	Description
11800000082	Pressure gauge, scale from 0 to 6 bar rear attachment



SUCTION FITTINGS

Suction kits

Code OMFB	Description
15599000274	Suction kit for wet kits - 50mm



Code OMFB	Description
15599000283	Suction kit for side mounting tank G 1-1/2 - 50mm



Code OMFB	Description
15599000292	Suction kit for rear tanks G 1"1/4 - 50mm



Code OMFB	Description
15599000416	Suction kit for rear tanks G 1"1/2 - 50mm



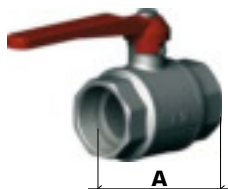
Code OMFB	Description
15530095015	Fitting kit 90° suction oil tank G 1"1/2 - 50mm



Suction fittings and accessories

Ball valves

Code OMFB	Description	A
12600500071	Ball valve G 1"1/4	82
12600500080	Ball valve G 1"1/2	89



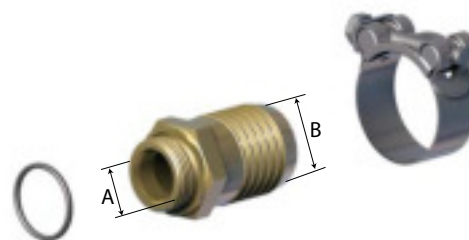
Orientable ball valves

Code OMFB	Description
12600600507	Orientable ball valve G 2" Male/Female



Straight "GOLD" suction fittings

Code OMFB	A		B
	mm	inch	
15508000373	40		G 1"
15508000462	40		G 1"1/4
15508000471	40		G 1"1/4
15508000417	50	2"	G 1"
15508000506	50	2"	G 1"1/4
15508000551	45		G 1"1/2
15508000597	50	2"	G 1"1/2
15508000711	50	2"	G 2"



45° "GOLD" suction fittings

Code OMFB	A		B
	mm	inch	
15509000493	40		G 1"1/4
15509000497	50	2"	G 1"1/4
15509000540	50	2"	G 1"1/2
15509000559	50	2"	G 1"1/2



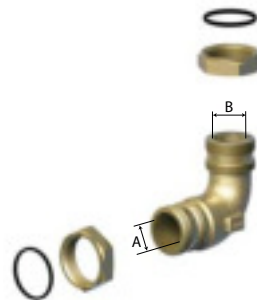
90° "GOLD" suction fittings

Code OMFB	A		B
	mm	inch	
15510000412	50	2"	G 1"
15510000467	40		G 1"1/4
15510000501	50	2"	G 1"1/4
15510000592	50	2"	G 1"1/2



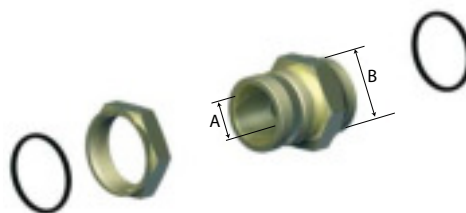
90° “GOLD” fittings with thread on both sides

Code OMFB	A	B
15511000143	G 1"1/4	G 1"1/4
15511000161	G 1"1/2	G 1"1/2
15511000303	G 1"1/2	G 1"1/4



Straight suction fittings with thread on both sides

Code OMFB	A	B
15511100142	G 1"1/4	G 1"1/4
15511100160	G 1"1/2	G 1"1/2
15511100302	G 1"1/4	G 1"1/2



Hose bracket kit

Code OMFB	Description
13590100273	L=300 Bracket pipe kit plus extra longer bracket



Clamps

Code OMFB	Description
15590160635	Clamp D.60-63 - H22 M8



SUCTION HOSES

Code OMFB	Dimension	Length
15599350100	50 x 62	1 mt
15599350155	50 x 62	1,5 mt
15599350208	50 x 62	2 mt
15599350253	50 x 62	2,5 mt



Suction hoses

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**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001:2015 =**

O.M.F.B. S.p.a. Hydraulic Components
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OMFB
HYDRAULIC COMPONENTS

Bent-axis piston pumps

HDS series - 12/17/25/34

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>
HDS 12	60100110123	Right	12,62	350	400	2300	3000
	60100110129	Left	12,62	350	400	2300	3000
HDS 17	60100110173	Right	16,98	350	400	2300	3000
	60100110179	Left	16,98	350	400	2300	3000
HDS 25	60100110253	Right	25,12	350	400	2300	3000
	60100110259	Left	25,12	350	400	2300	3000
HDS 34	60100110343	Right	33,80	350	400	2300	3000
	60100110349	Left	33,80	350	400	2300	3000



HDS series - 40/47/55/64

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>
HDS 40	60100110403	Right	41,25	350	400	1900	2500
	60100110409	Left	41,25	350	400	1900	2500
HDS 47	60100110473	Right	47,13	350	400	1900	2500
	60100110479	Left	47,13	350	400	1900	2500
HDS 55	60100110553	Right	56,70	350	400	1900	2500
	60100110559	Left	56,70	350	400	1900	2500
HDS 64	60100110643	Right	63,56	350	400	1900	2500
	60100110649	Left	63,56	350	400	1900	2500



HDS series - 84/108

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>
HDS 84	60100110843	Right	84,33	350	400	1500	2000
	60100110849	Left	84,33	350	400	1500	2000
HDS 108	60100111083	Right	107	350	400	1500	2000
	60100111089	Left	107	350	400	1500	2000



HDT series - 84/96/108

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>
HDT 84	60200110843	Right	84,2	350	370	1500	2000
	60200110849	Left	84,2	350	370	1500	2000
HDT 96	60200110963	Right	95,5	350	370	1500	2000
	60200110969	Left	95,5	350	370	1500	2000
HDT 108	60200111083	Right	107	350	370	1500	2000
	60200111089	Left	107	350	370	1500	2000



MDS series - 80/130 - Tipper piston pumps

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>
MDS 80	60300110803	Right	77,25	250	300	1800	2100
	60300110809	Left	77,25	250	300	1800	2100
MDS 130	60300111303	Right	131,62	250	270	1500	2000
	60300111309	Left	131,62	250	270	1500	2000



TWIN FLOW Bent-axis piston pumps

TWIN-FLOW series

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>		Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>
			A	B		
53+53	60400115053	Right	53	55	350	400
	60400115059	Left	53	55	350	400
70+35	60400117033	Right	36,5	68,3	350	400
	60400117039	Left	36,5	68,3	350	400
76+76	60400117673	Right	75,1	74,8	300	350
	60400117679	Left	75,1	74,8	300	350



Axial piston pumps

DARK series - 55-60

	Code OMFB	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. speed <i>rpm</i>
DARK 55	10800505529	54	300	350	1500
DARK 60	10800505921	59,3	300	350	1500



2PAK series

	Code OMFB	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. speed <i>rpm</i>
2PAK	10800508026	82,2	300	350	1500



2PAK Twin delivery series

	Code OMFB	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. speed <i>rpm</i>
2 PAK	10800835351	35+35	300	350	1500



Accessories

Gasket

Code OMFB	Description
50700100086	Gasket ISO 7707-4



Code OMFB	Description
10820024887	24V Bypass HDT 75-84-96-108



Relief valve assembly

Code OMFB	Pump type	IN	OUT
10820500479	HDS 40 - HDS 47 - HDS 55 HDS 64 - MDS 80	G 1 1/4"	G 3/4"
10820501085	HDS 108 - MDS 130	G 1 1/2"	G 1"
10820550843	HDT 75 - HDT 84 HDT 96 - HDT 108	G 1 1/4"	G 1"



Gear pumps

NPH ISO - Unidirectional

	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. intermittent pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>	Min. speed <i>rpm</i>
NPH 17	10501110173	Right	17,04	290	315	325	2500	3000	300
	10501110182	Left	17,04						
NPH 22	10501110226	Right	22,15						
	10501110235	Left	22,15						
NPH 27	10501110271	Right	26,18						
	10501110280	Left	26,18						
NPH 34	10501110342	Right	33,88	280	300	310	2200	2800	
	10501110351	Left	33,88						
NPH 43	10501110431	Right	43,12	270	290	300	2000	2500	
	10501110441	Left	43,12						
NPH 51	10501110511	Right	50,82	240	260	280			
	10501110520	Left	50,82						
NPH 61	10501110619	Right	60,06	220	240	250	1800	2000	
	10501110628	Left	60,06						
NPH 73	10501110735	Right	72,88	200	220	230	1600		
	10501110744	Left	72,88						
NPH 82	10501110824	Right	81,08	190	210	220	1500	1800	
	10501110833	Left	81,08						
NPH 90	10501110904	Right	90,43	180	200				
	10501110913	Left	90,43						
NPH 100	10501111001	Right	98,18						
	10501111010	Left	98,18						
NPH 125	10501111252	Right	122,72	160	180	200			
	10501111261	Left	122,72						



LTH ISO - Birotational

	Code OMFB	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. intermittent pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>	Min. speed <i>rpm</i>
LTH 43	10502810432	43,12	230	240	250	1700	2250	300
LTH 61	10502810610	60,06	190	200	210	1500	1800	
LTH 82	10502810825	81,08	160	180	190	1400	1700	
LTH 90	10502810905	90,43						
LTH 100	10502811002	98,18						



LTMH ISO - Birotational



	Code OMFB	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. intermittent pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>	Min. speed <i>rpm</i>
LTMH 90	10503310908	91,45	230	250	265	1800	2700	300
LTMH 100	10503311005	99,77	220	240	255			
LTMH 112	10503311121	112,24	205	225	240			
LTMH 120	10503311201	122,45	195	215	230	1500	2500	

NPGH ISO - Unidirectional



	Code OMFB	Rotation	Displac. <i>cm³/rev</i>	Max. continuous pressure <i>bar</i>	Max. intermittent pressure <i>bar</i>	Max. peak pressure <i>bar</i>	Max. continuous speed <i>rpm</i>	Max. intermittent speed <i>rpm</i>	Min. speed <i>rpm</i>
NPGH 63	10501210636	Right	63,70	290	315	325	1800	2700	300
	10501210645	Left							
NPGH 73	10501210734	Right	74,87	280	300	315			
	10510210743	Left							
NPGH 84	10501210841	Right	85,96	260	280	290			
	10501210850	Left							
NPGH 100	10501211000	Right	102,60	250	270	280			
	10501211019	Left							
NPGH 116	10501211162	Right	119,24	240	260	270	1500	2500	
	10501211171	Left							
NPGH 133	10501211331	Right	135,88	220	250	260			
	10510211340	Left							
NPGH 150	10501211500	Right	149,75	180	210	220			
	10501211519	Left							

Tipping valves

Code OMFB	Description
12100700202	Modular 250 2 pressures - mechanical
Flow	: 250 lt/min
P.R.V. Factory setting	: 140 bar (1 st pressure) 230 bar (2 st pressure)
P.R.V. Max setting	: 330 bar (1 st pressure) 410 bar (2 st pressure)
IN	: G 1
Tank	: G 1
OUT	: G 1
Pneumatic connection	: 1/8" fitting, pipe 6mm



Code OMFB	Description
12100700319	Modular 250 2 pressures: independent - pneumatic
Flow	: 250 lt/min
P.R.V. Factory setting	: 140 bar (1 st pressure) 230 bar (2 st pressure)
P.R.V. Max setting	: Factory set +0/200 bar (1 st pressure) Factory set +0/200 bar (2 st pressure)
IN	: G 1
Tank	: G 1
OUT	: G 1
Pneumatic connection	: 1/8" fitting, pipe 6mm



Code OMFB	Description
12100703209	Modular 250 3 pressures - mechanical
Flow	: 250 lt/min
P.R.V. Factory setting	: 140 bar (1 st pressure) 230 bar (2 st pressure) 370 bar (3 st pressure)
P.R.V. Max setting	: 170 bar (1 st pressure) 260 bar (2 st pressure) 400 bar (3 st pressure)
IN	: G 1
Tank	: G 1
OUT	: G 1
Pneumatic connection	: 1/8" fitting, pipe 6mm



Code OMFB	Description
12100800041	Modular 200-Direct valve
12100800050	Modular 250-Direct valve
P.R.V. Factory setting	: 160 bar
P.R.V. Max setting	: 280 bar
IN	: G 3/4 (1528453) - G 1 (1533625)
Tank	: G 1
OUT	: G 1
Pneumatic connection	: 1/8" fitting, pipe 6mm



Code OMFB	Description
12100800185	Modular 150-Direct valve

Flow : 150 lt/min
P.R.V. Factory setting : 160 bar
P.R.V. Max setting : 280 bar
IN : G 3/4
Tank 1 : G 1 **Tank 2:** G 1/2
OUT : G 3/4
Pneumatic connection : 1/8" fitting, pipe 6mm



Code OMFB	Description
12100800210	Modular 250-Pilot valve

Flow : 250 lt/min
P.R.V. Factory setting : 180 bar
P.R.V. Max setting : 350 bar
IN : G 1
Tank : G 1
OUT : G 1
Pneumatic connection : 1/8" fitting, pipe 6mm



Code OMFB	Description
12100800283	Modular 250-Cartridge valve

Flow : 250 lt/min
P.R.V. Factory setting : 160 bar
P.R.V. Max setting : 260 bar
IN : G 1
Tank : G 1
OUT : G 1
Pneumatic connection : 1/8" fitting, pipe 6mm



Code OMFB	Description
12100800434	Modular 150 Side ports - Cartridge valve

Flow : 150 lt/min
P.R.V. Factory setting : 160 bar
P.R.V. Max setting : 260 bar
IN : G 3/4
Tank : G 3/4
OUT : G 3/4
Pneumatic connection : 1/8" fitting, pipe 6mm



Accessories

Flanges

Code OMFB	Description
12199400182	Mounting flange for tipping valves: FM/FP 80 - Modular 150



Code OMFB	Description
12199400217	Mounting flange for tipping valves Modular 150/250



Code OMFB	Description
12199400226	Mounting flange for tipping valves Modular 150/250 on side mounting tanks



Code OMFB	Description
12199400299	Mounting flange for tipping valves Modular 150/250 on rear cab mounting tanks



Seal kits

Code OMFB	Description
12199400404	Mounting kit for Modular 150



Code OMFB	Description
12199400502	Mounting kit for Modular 250



Code OMFB	Description
12199400539	Mounting kit for relief valve



Code OMFB	Description
12199400557	Mounting kit for Modular 250 with plate



Code OMFB	Description
12199400888	Mounting kit for Modultrack



Pressure switches

Code OMFB	Description
12200900011	Idrostop



Code OMFB	Description
12201100571	Protection cap for pressure switch



Tipping valve brackets

Code OMFB	Description
12199400600	Bracket kit for Modular 250



Code OMFB	Description
12199400726	Return plate kit for Modular 250



Code OMFB	Description
12199400762	Straight mounting bracket for tipping valve "HT-250"



Code OMFB	Description
12199400771	Bracket kit for HT-250



Code OMFB	Description
12199400780	Bracket kit for HT-250



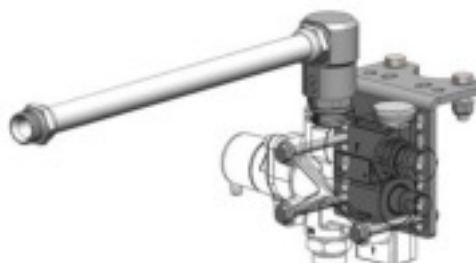
Code OMFB	Description
12199400806	Mounting kit for Modular 250 tipping valve onto fifth wheel with 1 swivel joint



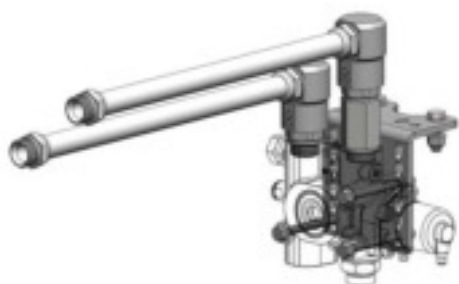
Code OMFB	Description
12199400897	Mounting kit for Modul-truck tipping valve onto fifth wheel with 2 swivel joint



Code OMFB	Description
12199400922	"L" shaped mounting bracket + 1 swivel joint assembly for modul-truck 250 tipping valve



Code OMFB	Description
12199400931	"L" shaped mounting bracket + 2 swivel joint assembly for modul-truck 250 tipping valve



Code OMFB	Description
53800401253	Shaped mounting bracket for Modular 250



Revolving joints

Code OMFB	Description
12200800058	Revolving joints G 1"



Swivel arms

Code OMFB	Description
12201500200	L=100
12201500219	L=120



Code OMFB	Description
12201500255	Swivel arm for pipes connection on semitrailers



Swivel joints

Code OMFB	Description
12201510011	Bracket kit G 3/4
12201510039	Bracket kit G 1



Code OMFB	Description
12201510066	Bracket kit G 1
12201510244	Bracket kit G 3/4



Code OMFB	Description
12201510217	Bracket kit G 1



Code OMFB	Description
12201520028	90° G 1 and G 3/4 support



Code OMFB	Description
12201530035	Crossboard



Code OMFB	Description
12201600058	Additional position 1 pipe G 3/4"
12201600101	Additional position 1 pipe G 1"



Code OMFB	Description
54100000012	Steel hose G 1" L=430 (T=466)
54100000254	Steel hose G 3/4" L=430 (T=462)



Other valves

Code OMFB	Description
12108000016	Relief valve for tractor head hydraulic kit



Code OMFB	Description
12108000052	Relief valve for tractor head hydraulic kit



Code OMFB	Description
12200100046	Flow deflect valve with handle at 3 ways



Code OMFB	Description
12101901001	Manual diverter valve



Code OMFB	Description
12102200141	Pneumatic diverter valve



High pressure fittings

Male-female reductions

Code OMFB	Male	Female
11500312349	G 1/2	G 3/4
11500334101	G 3/4	G 1



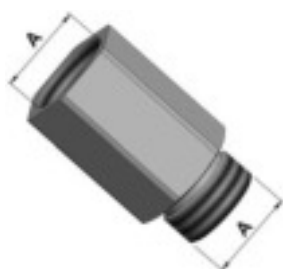
Plug

Code OMFB	Description
11500600153	Steel plug TCE 1"



Extensions

Code OMFB	A	Length
11600400091	G 1	58
11600400171	G 1	45



Nipples

Code OMFB		
11600600106	1/2"	1/2"
11600600142	3/4"	3/4"
11600600151	3/4"	1"
11600600160	3/4"	1/2"
11600600179	1"	1"
11600600188	1-1/4"	1-1/4"
11600600204	1"	1-1/4"
11600600240	1/2"	1"
11600600295	3/4"	1-1/4"



Dowty Washers

Code OMFB	Description
11600910129	1/2" - 21,5x28,5x2,5
11600910343	3/4" - 27x35x2,5
11600911002	1" - 33,8x43x3,4
11600911137	1 1/4" - 42,9x52,5x3,4



Self-Centering dowty washers

Code OMFB	Description
11600930125	G 1/2"
11600930349	G 3/4"
11600931008	G 1"



High pressure fittings

Code OMFB	Description
11601800344	Elbow 90° fittings 3/4"



Code OMFB	Description
11601901002	Elbow 45° fittings 1"



High pressure T fitting

Code OMFB	Description
11602000073	Male - swivel female 3/4"
11602000082	Male - swivel female 1"



Code OMFB	Description
11602100081	Swivel "T" fitting 1"



Code OMFB	Description
11601000084	3 ways-male 1" HP



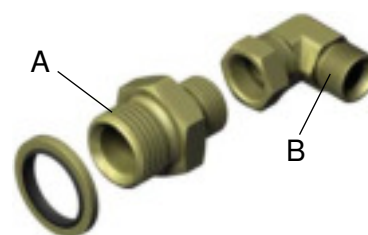
Bulkhead nipples

Code OMFB	Description
11601200082	3/4"x3/4"+Nut
11601200108	1"x1"+Nut



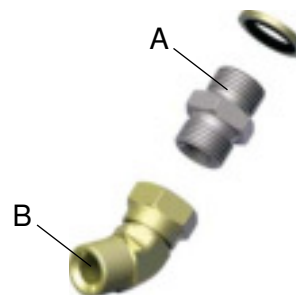
90° High pressure fittings

Code OMFB	A	B
15520000340	G 3/4"	G 3/4"
15520001009	G 1"	G 1"
15520010348	G 1"	G 3/4"
15520034100	G 3/4"	G 1"



45° High pressure fittings

Code OMFB	A	B
15520100349	G 3/4"	G 3/4"
15520101008	G 1"	G 1"
15520134107	G 3/4"	G 1"



High pressure adaptor

Code OMFB	Description
15603500054	Adaptor 90° 1"



Code OMFB	Description
15603510043	Adaptor 45° 1"



Conjunction nipples

Code OMFB	Description
15604000048	Conjunction nipples G 3/4"



Pneumatic cab controls

N-FORCE EVO - no PTO Switch

Code OMFB	Versions	Lever return
10000131101	Without PTO control switch	with low and tip block
10000131110	Without PTO control switch	automatic "CE"
10000131218	Without PTO control switch	with low block



N-FORCE EVO - with PTO Switch

Code OMFB	Versions	Lever return
10000131003	Automatic PTO knock-off	automatic "CE"
10000131030	Manual PTO knock-off	automatic "CE"
10000131067	Manual PTO knock-off	with low and tip block
10000131094	Automatic PTO knock-off	with low and tip block
10000131209	Automatic PTO knock-off	with low block
10000131127	Manual PTO knock-off	with low block



N-FORCE EVO with side ports

Code OMFB	Versions	Lever return
10090131108	Without PTO control switch	with low and tip block
10090131117	Without PTO control switch	automatic "CE"
10090131215	Without PTO control switch	with low block



Code OMFB	Versions	Lever return
10090131000	Automatic PTO knock-off	automatic "CE"
10090131037	Manual PTO knock-off	automatic "CE"
10090131064	Manual PTO knock-off	with low and tip block
10090131091	Automatic PTO knock-off	with low and tip block
10090131126	Automatic PTO knock-off	with low block
10090131206	Manual PTO knock-off	with low block



N-FORCE MINI - no PTO Switch

Code OMFB	Versions	Lever return
10002431101	Without PTO control switch	with low and tip block
10002431110	Without PTO control switch	automatic "CE"
10002431218	Without PTO control switch	with low block



N-FORCE MINI - with PTO Switch

Code OMFB	Versions	Lever return
10002431003	Automatic PTO knock-off	automatic "CE"
10002431030	Manual PTO knock-off	automatic "CE"
10002431067	Manual PTO knock-off	with low and tip block
10002431094	Automatic PTO knock-off	with low and tip block
10002431209	Automatic PTO knock-off	with low block
10002431127	Manual PTO knock-off	with low block



N-GAGE3

Code OMFB	Description
10000100515	Air pneumatic cab switch with lamp



Code OMFB	Description
10000100524	Air pneumatic cab switch without lamp



Sandwich controls rear ports

Code OMFB	Versions	Lever return
10000140017	Proportional lowering/tipping	with low and tip block
10000140026	Proportional lowering	with low and tip block
10000140044	Proportional lowering	with low block
10000140062	Proportional lowering	with tip block
10000142015	Proportional lowering/tipping	Automatic "CE"
10000142024	Proportional lowering	automatic "CE"



Sandwich controls side ports

Code OMFB	Versions	Lever return
10000140008	Proportional lowering/tipping	with low and tip block
10000140035	Proportional lowering	with low and tip block
10000140053	Proportional lowering	with low block
10000140071	Proportional lowering	with tip block
10000142006	Proportional lowering/tipping	Automatic "CE"
10000142033	Proportional lowering	automatic "CE"



Pneumatic control switches

Code OMFB	Description
10000142259	4 way & 3 position pneumatic controls with side ports
10000142268	4 way & 3 position pneumatic controls with rear ports



Code OMFB	Description
10000142106	3 way & 2 position pneumatic controls with side ports
10000142115	3 way & 2 position pneumatic controls with rear ports



Pneumatic selector

Code OMFB	Description
10000260101	Pneumatic selector



Pneumatic cab controls bracket & supports

Bracket kit

Code OMFB	Description
10000240016	Bracket kit for sandwich air switch for DAF XF 105 CABIN



Code OMFB	Description
10000240025	Bracket kit for sandwich control switch - DAF XF (2012)



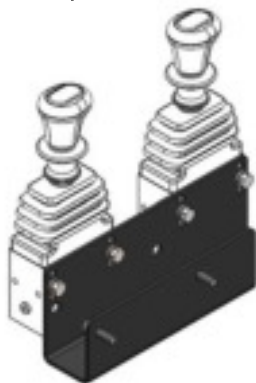
Code OMFB	Description
10000240034	Bracket kit for pneumatic control switch - DAF CF EURO 5



Code OMFB	Description
10000240043	Bracket kit for pneumatic control switch - DAF CF EURO 6



Code OMFB	Description
10000240070	Bracket kit for DAF XF2012



Code OMFB	Description
10000270047	N/FORCE Vertical bracket H=80



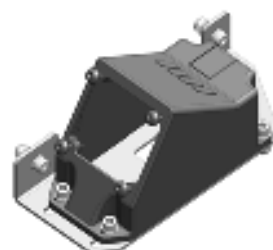
Code OMFB	Description
10000270056	N-FORCE Fixing kit to cabin handle d. 25mm



Code OMFB	Description
10000270065	Bracket external mounting



Code OMFB	Description
10000270172	N-FORCE Bracket kit for DAF XF 2015



Code OMFB	Description
10000270225	N-FORCE Bracket kit for DAF CF 85



Code OMFB	Description
10000270234	N-FORCE Bracket kit for control MAN TGX-TGS



Code OMFB	Description
10000270243	N-FORCE Bracket kit for DAF XF (2012)



Code OMFB	Description
10000270252	Bracket kit for N-FORCE VOLVO FH



Code OMFB	Description
10000270261	N-FORCE Bracket kit SCANIA E6 R-S Series



Code OMFB	Description
10000270289	Bracket kit for N-FORCE MAN TGX/TGS



Code OMFB	Description
10000270298	Bracket kit for N-FORCE RENAULT T



Code OMFB	Description
10000270323	Bracket kit for N-FORCE EVO MERCEDES EURO 6



Code OMFB	Description
10000270332	Bracket kit for N-FORCE DAF XF 2016/04



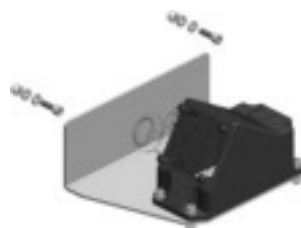
Code OMFB	Description
10000270341	Bracket kit for N-FORCE VOLVO FH 2016/04



Code OMFB	Description
10000270369	N-FORCE Bracket kit MAN 3 AXLES MD



Code OMFB	Description
10000270378	Bracket kit for N-FORCE SCANIA E6 SERIE R-S



Pneumatic fittings and accessories

Selector valve

Code OMFB	Description
10000300031	Selector valve 1/8"



Pneumatic solenoid valves

Code OMFB	Description
10001500082	3/2 NC 24V 1/8" IP66 valve



Code OMFB	Description
10001500153	3/2 NC 24V 1/8" Mountable flange



Pneumatic fittings

Code OMFB	Description
10001600312	Tee air pipe 6 - 1/8"



Code OMFB	Description
10001700053	Tee intermediate air pipe 6



Code OMFB	Description
10001700142M	M5 air pipe 6



Code OMFB	Description
10001700151	1/8" air pipe 6



Code OMFB	Description
10001700188	1/8" air pipe 6



Air pipe

Code OMFB	Description
10098000057	Air pipe for WET KITS - 20 mt roll
10098000066	Air pipe for WET KITS - 25 mt roll



Code OMFB	Description
10098000502	Air pipe - 8 mt roll - 6mm 4 colors



Code OMFB	Description
10098142207	PA-12 4x2 black+fitt. - 20 mt roll



Quick couplings

Ball type TV series

Code OMFB	Male
11900500058	1/2"
11900500076	3/4"
11900500094	1"



Code OMFB	Female
11900500085	3/4"
11900500101	1"



Screw type

Code OMFB	Male
11900700092	1"



Code OMFB	Female
11900700109	1"



N series standard

Code OMFB	Male
11901500074	3/4"
11901500092	1"



Code OMFB	Female
11901500083	3/4"
11901500109	1"



Wings screw type

Code OMFB	Fixed piece
11901700072	3/4"
11901700090	1"



Code OMFB	Loose wings piece
11901700081	3/4"
11901700107	1"

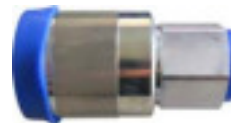


ISO 14541 screw type

Code OMFB	Fixed piece
11901812050	1"



Code OMFB	Loose piece
11901811051	1"



FASTER "NV"

Code OMFB	Male
11902021054	1"



Code OMFB	Female
11902022053	1"



STUCCHI "BIR"

Code OMFB	Male
11902131043	3/4"
11902131051	1"



Code OMFB	Female
11902132041	3/4"
11902132050	1"



STUCCHI "SERIE A"

Code OMFB	Male
11902141040	3/4"



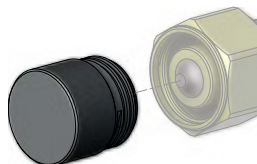
Code OMFB	Female
11902142049	3/4"



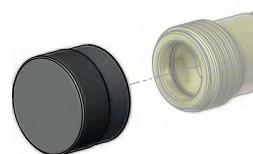
Quick couplings accessories

Dust caps - Screw type couplings

Code OMFB	Male
11900300649	3/4"
11900300685	1"



Code OMFB	Female
11900300694	1"



Dust caps - Wings couplings

Code OMFB	Male - Loose wings piece
11900302076	3/4"
11900302094	1"



Code OMFB	Female - Fixed piece
11900302085	3/4"
11900302101	1"



Dust caps - ISO 14541 couplings

Code OMFB	Male
11900303093	1"



Code OMFB	Female
11900303100	1"



Bracket kit for quick release couplings

Code OMFB	Description
12199400824	Bracket kit for wings quick release coupling



Code OMFB	Description
12199400833	Bracket kit for single quick release coupling G 1



PRESSURE HOSES and FITTINGS

High pressure hoses

FD+FD-1 SN SAE 100 R1AT - G 3/8

Working pressure: 180 bar

Code OMFB	Length
15608800506	50 cm
15608800551	55 cm
15608800604	60 cm
15608800659	65 cm
15608800702	70 cm
15608800757	75 cm
15608800800	80 cm
15608800855	85 cm
15608800908	90 cm
15608800953	95 cm
15608801005	100 cm
15608801050	105 cm
15608801103	110 cm
15608801158	115 cm
15608801201	120 cm
15608801256	125 cm
15608801309	130 cm
15608801354	135 cm
15608801407	140 cm
15608801452	145 cm
15608801505	150 cm
15608801550	155 cm
15608801603	160 cm
15608801658	165 cm
15608801701	170 cm
15608801756	175 cm
15608801809	180 cm
15608801854	185 cm
15608801907	190 cm
15608801952	195 cm
15608802004	200 cm
15608802059	205 cm
15608802102	210 cm
15608802157	215 cm
15608802200	220 cm
15608802255	225 cm
15608802308	230 cm
15608802353	235 cm
15608802406	240 cm
15608802451	245 cm
15608802504	250 cm
15608802559	255 cm

15608802602	260 cm
15608802657	265 cm
15608802700	270 cm
15608802755	275 cm
15608802808	280 cm
15608802853	285 cm
15608802906	290 cm
15608802951	295 cm
15608803003	300 cm
15608803101	310 cm
15608803209	320 cm
15608803307	330 cm
15608803405	340 cm
15608803503	350 cm
15608803601	360 cm
15608803709	370 cm
15608803807	380 cm
15608803905	390 cm
15608804002	400 cm



FD+M-1 SN SAE 100 R1AT - G 3/8

Working pressure: 180 bar

Code OMFB	Length
15608830500	50 cm
15608830555	55 cm
15608830608	60 cm
15608830653	65 cm
15608830706	70 cm
15608830751	75 cm
15608830804	80 cm
15608830859	85 cm
15608830902	90 cm
15608830957	95 cm
15608831009	100 cm
15608831054	105 cm
15608831107	110 cm
15608831152	115 cm
15608831205	120 cm
15608831250	125 cm
15608831303	130 cm
15608831358	135 cm
15608831401	140 cm
15608831456	145 cm
15608831509	150 cm
15608831554	155 cm

15608831607	160 cm
15608831652	165 cm
15608831705	170 cm
15608831750	175 cm
15608831803	180 cm
15608831858	185 cm
15608831901	190 cm
15608831956	195 cm
15608832008	200 cm
15608832053	205 cm
15608832106	210 cm
15608832151	215 cm
15608832204	220 cm
15608832259	225 cm
15608832302	230 cm
15608832357	235 cm
15608832400	240 cm
15608832455	245 cm
15608832508	250 cm
15608832553	255 cm
15608832606	260 cm
15608832651	265 cm
15608832704	270 cm
15608832759	275 cm
15608832802	280 cm
15608832857	285 cm
15608832900	290 cm
15608832955	295 cm
15608833007	300 cm
15608833105	310 cm
15608833203	320 cm
15608833301	330 cm
15608833409	340 cm
15608833507	350 cm
15608833605	360 cm
15608833703	370 cm
15608833801	380 cm
15608833909	390 cm
15608834006	400 cm



FD+FD-1 SN SAE 100 R1AT - G 1

Working pressure: 88 bar

Code OMFB	Length
15609100501	50 cm
15609100556	55 cm
15609100609	60 cm
15609100654	65 cm
15609100707	70 cm
15609100752	75 cm
15609100805	80 cm
15609100850	85 cm
15609100903	90 cm
15609100958	95 cm
15609101000	100 cm
15609101055	105 cm
15609101108	110 cm
15609101153	115 cm
15609101206	120 cm
15609101251	125 cm
15609101304	130 cm
15609101359	135 cm
15609101402	140 cm
15609101457	145 cm
15609101500	150 cm
15609101555	155 cm
15609101608	160 cm
15609101653	165 cm
15609101706	170 cm
15609101751	175 cm
15609101804	180 cm
15609101859	185 cm
15609101902	190 cm
15609101957	195 cm
15609102009	200 cm
15609102107	210 cm
15609102205	220 cm
15609102303	230 cm
15609102401	240 cm
15609102509	250 cm
15609102803	280 cm
15609103008	300 cm
15609103508	350 cm



FD+FC 90°-1 SN SAE 100 R1AT - G 1**Working pressure: 88 bar**

Code OMFB	Length
15609112007	200 cm
15609112507	250 cm
15609113006	300 cm
15609113506	350 cm

**FD+M-1 SN SAE 100 R1AT - G 1****Working pressure: 88 bar**

Code OMFB	Length
15609131504	150 cm
15609131602	160 cm
15609131700	170 cm
15609131808	180 cm
15609131906	190 cm
15609132003	200 cm
15609132101	210 cm
15609132209	220 cm
15609132307	230 cm
15609132405	240 cm
15609132503	250 cm

**FD+FD-2 SN SAE 100 R2AT - G 1/4****Working pressure: 400 bar**

Code OMFB	Length
15609703002	300 cm

**FC90°+FC90°-2 SN SAE 100 R2AT - G 3/8****Working pressure: 330 bar**

Code OMFB	Length
15609820706	70 cm
15609820751	75 cm

**FD+FD-2 SN SAE 100 R2AT - G 1/2****Working pressure: 275 bar**

Code OMFB	Length
15609900503	50
15609900601	60
15609900709	70
15609900807	80
15609900905	90
15609901002	100
15609901100	110
15609901208	120
15609901306	130
15609901404	140
15609901502	150
15609901600	160
15609901708	170
15609901806	180
15609901904	190
15609902001	200
15609902109	210
15609902207	220
15609902305	230
15609902403	240
15609902501	250
15609902609	260
15609902707	270
15609902805	280
15609902903	290
15609903000	300
15609903108	310
15609903206	320
15609903304	330
15609903402	340
15609903500	350
15609903608	360
15609903706	370
15609903804	380
15609903902	390
15609904009	400



FD+M-2 SN SAE 100 R2AT - G 1/2**Working pressure: 275 bar**

Code OMFB	Length
15609930507	50
15609930605	60
15609930703	70
15609930801	80
15609930909	90
15609931006	100
15609931104	110
15609931202	120
15609931300	130
15609931408	140
15609931506	150
15609931604	160
15609931702	170
15609931800	180
15609931908	190
15609932005	200
15609932103	210
15609932201	220
15609932309	230
15609932407	240
15609932505	250
15609932603	260
15609932701	270
15609932809	280
15609932907	290
15609933004	300
15609933102	310
15609933200	320
15609933308	330
15609933406	340
15609933504	350
15609933602	360
15609933700	370
15609933808	380
15609933906	390
15609934003	400

**FD+FD-2 SN SAE 100 R2AT - G 3/4****Working pressure: 215 bar**

Code OMFB	Length
15610000652	65 cm
15610000705	70 cm
15610000750	75 cm
15610000803	80 cm
15610000858	85 cm
15610000901	90 cm
15610000956	95 cm
15610001008	100 cm
15610001053	105 cm
15610001106	110 cm
15610001151	115 cm
15610001204	120 cm
15610001259	125 cm
15610001302	130 cm
15610001357	135 cm
15610001400	140 cm
15610001455	145 cm
15610001508	150 cm
15610001553	155 cm
15610001606	160 cm
15610001651	165 cm
15610001704	170 cm
15610001759	175 cm
15610001802	180 cm
15610001900	190 cm
15610002007	200 cm
15610002105	210 cm
15610002203	220 cm
15610002301	230 cm
15610002409	240 cm
15610002507	250 cm
15610002605	260 cm
15610002703	270 cm
15610002801	280 cm
15610002909	290 cm
15610003006	300 cm
15610003104	310 cm
15610003202	320 cm
15610003300	330 cm
15610003408	340 cm
15610003506	350 cm
15610003604	360 cm
15610003702	370 cm
15610003800	380 cm
15610003908	390 cm
15610004005	400 cm



FD+F90-2 SN SAE 100 R2AT - G 3/4
Working pressure: 215 bar

Code OMFB	Length
15610010650	65 cm
15610010703	70 cm
15610010758	75 cm
15610010801	80 cm
15610010856	85 cm
15610010909	90 cm
15610010954	95 cm
15610011006	100 cm
15610011051	105 cm
15610011104	110 cm
15610011159	115 cm
15610011202	120 cm
15610011257	125 cm
15610011300	130 cm
15610011355	135 cm
15610011408	140 cm
15610011453	145 cm
15610011506	150 cm
15610011551	155 cm
15610011604	160 cm
15610011659	165 cm
15610011702	170 cm
15610011800	180 cm
15610011908	190 cm
15610012005	200 cm
15610012103	210 cm
15610012201	220 cm
15610012309	230 cm



FC90°+FC90°-2 SN SAE 100 R2AT - G 3/4
Working pressure: 215 bar

Code OMFB	Length
15610020701	70 cm
15610020756	75 cm
15610020809	80 cm
15610020854	85 cm
15610020907	90 cm
15610020952	95 cm
15610021004	100 cm
15610021059	105 cm
15610021102	110 cm
15610021157	115 cm
15610021200	120 cm
15610021255	125 cm
15610021308	130 cm
15610021353	135 cm
15610021406	140 cm
15610021451	145 cm
15610021504	150 cm
15610021559	155 cm
15610021602	160 cm
15610021657	165 cm
15610021700	170 cm
15610021808	180 cm
15610021906	190 cm
15610022003	200 cm
15610022101	210 cm
15610022209	220 cm
15610022307	230 cm



FD+FD-2 SN SAE 100 R2AT - G 3/4
Working pressure: 215 bar

Code OMFB	Length
15610091153	115 cm

FD+M-2 SN SAE 100 R2AT - G 3/4
Working pressure: 215 bar

Code OMFB	Length
15610030709	70 cm
15610030754	75 cm
15610030807	80 cm
15610030852	85 cm
15610030905	90 cm
15610030950	95 cm
15610031002	100 cm
15610031057	105 cm
15610031100	110 cm
15610031155	115 cm

FD+FD-2 SN SAE 100 R2AT - G 1**Working pressure: 165 bar**

Code OMFB	Length
15610031208	120 cm
15610031253	125 cm
15610031306	130 cm
15610031351	135 cm
15610031404	140 cm
15610031459	145 cm
15610031502	150 cm
15610031557	155 cm
15610031600	160 cm
15610031655	165 cm
15610031708	170 cm
15610031806	180 cm
15610031904	190 cm
15610032001	200 cm
15610032109	210 cm
15610032207	220 cm
15610032305	230 cm
15610032403	240 cm
15610032501	250 cm
15610032707	270 cm
15610032805	280 cm
15610032903	290 cm
15610033000	300 cm
15610033108	310 cm
15610033206	320 cm
15610033304	330 cm
15610033402	340 cm
15610033500	350 cm
15610033608	360 cm
15610033706	370 cm
15610033804	380 cm
15610033902	390 cm
15610040009	400 cm



Code OMFB	Length
15610100400	40 cm
15610100455	45 cm
15610100508	50 cm
15610100553	55 cm
15610100606	60 cm
15610100651	65 cm
15610100704	70 cm
15610100759	75 cm
15610100802	80 cm
15610100857	85 cm
15610100900	90 cm
15610100955	95 cm
15610101007	100 cm
15610101052	105 cm
15610101105	110 cm
15610101150	115 cm
15610101203	120 cm
15610101258	125 cm
15610101301	130 cm
15610101356	135 cm
15610101409	140 cm
15610101454	145 cm
15610101507	150 cm
15610101552	155 cm
15610101605	160 cm
15610101650	165 cm
15610101703	170 cm
15610101758	175 cm
15610101801	180 cm
15610101909	190 cm
15610102006	200 cm
15610102051	205 cm
15610102104	210 cm
15610102202	220 cm
15610102300	230 cm
15610102408	240 cm
15610102506	250 cm
15610102604	260 cm
15610102702	270 cm
15610102757	275 cm
15610102800	280 cm
15610102908	290 cm
15610103005	300 cm
15610103103	310 cm
15610103201	320 cm
15610103309	330 cm
15610103407	340 cm
15610103505	350 cm
15610103603	360 cm
15610103701	370 cm
15610103809	380 cm
15610103907	390 cm
15610104004	400 cm
15610104255	425 cm
15610104504	450 cm
15610104755	475 cm
15610105503	550 cm



FD+F90°-2 SN SAE 100 R2AT - G 1**Working pressure: 165 bar**

Code OMFB	Length
15610110408	40 cm
15610110453	45 cm
15610110506	50 cm
15610110551	55 cm
15610110604	60 cm
15610110659	65 cm
15610110702	70 cm
15610110757	75 cm
15610110800	80 cm
15610110855	85 cm
15610110908	90 cm
15610110953	95 cm
15610111005	100 cm
15610111050	105 cm
15610111103	110 cm
15610111158	115 cm
15610111201	120 cm
15610111256	125 cm
15610111309	130 cm
15610111354	135 cm
15610111407	140 cm
15610111452	145 cm
15610111505	150 cm
15610111550	155 cm
15610111603	160 cm
15610111658	165 cm
15610111701	170 cm
15610111809	180 cm
15610111907	190 cm
15610112004	200 cm
15610112102	210 cm
15610112200	220 cm
15610112308	230 cm

**FC90°+FC90°-2 SN SAE 100 R2AT - G 1****Working pressure: 165 bar**

Code OMFB	Length
15610120406	40 cm
15610120451	45 cm
15610120504	50 cm
15610120559	55 cm
15610120602	60 cm
15610120657	65 cm
15610120700	70 cm

15610120755	75 cm
15610120808	80 cm
15610120853	85 cm
15610120906	90 cm
15610120951	95 cm
15610121003	100 cm
15610121058	105 cm
15610121101	110 cm
15610121156	115 cm
15610121209	120 cm
15610121254	125 cm
15610121307	130 cm
15610121352	135 cm
15610121405	140 cm
15610121450	145 cm
15610121503	150 cm
15610121558	155 cm
15610121601	160 cm
15610121656	165 cm
15610121709	170 cm
15610121807	180 cm
15610121905	190 cm
15610122002	200 cm
15610122100	210 cm
15610122208	220 cm
15610122306	230 cm

**FD+M-2 SN SAE 100 R2AT - G 1****Working pressure: 165 bar**

Code OMFB	Length
15610130708	70 cm
15610130753	75 cm
15610130806	80 cm
15610130851	85 cm
15610130904	90 cm
15610130959	95 cm
15610131001	100 cm
15610131056	105 cm
15610131109	110 cm
15610131154	115 cm
15610131207	120 cm
15610131252	125 cm
15610131305	130 cm
15610131350	135 cm
15610131403	140 cm
15610131458	145 cm
15610131501	150 cm

15610131556	155 cm
15610131609	160 cm
15610131654	165 cm
15610131707	170 cm
15610131752	175 cm
15610131805	180 cm
15610131903	190 cm
15610132000	200 cm
15610132108	210 cm
15610132206	220 cm
15610132304	230 cm
15610132402	240 cm
15610132500	250 cm
15610132608	260 cm
15610132706	270 cm
15610132804	280 cm
15610132902	290 cm
15610133009	300 cm
15610133107	310 cm
15610133205	320 cm
15610133303	330 cm
15610133401	340 cm
15610133509	350 cm
15610133607	360 cm
15610133705	370 cm
15610133803	380 cm
15610133901	390 cm
15610134008	400 cm
15610134259	425 cm
15610134508	450 cm
15610134759	475 cm
15610135007	550 cm



FD+FD-2 SN SAE 100 R2AT - G 1" 1/4
Working pressure: 125 bar

Code OMFB	Length
15610200507	50 cm
15610200605	60 cm
15610200703	70 cm
15610200801	80 cm
15610200909	90 cm
15610201006	100 cm
15610201104	110 cm
15610201202	120 cm
15610201300	130 cm
15610201408	140 cm
15610201506	150 cm
15610201604	160 cm

15610201702	170 cm
15610201800	180 cm
15610201908	190 cm
15610202005	200 cm
15610202103	210 cm
15610202201	220 cm
15610202309	230 cm
15610202407	240 cm
15610202505	250 cm
15610202603	260 cm
15610202701	270 cm
15610202809	280 cm
15610202907	290 cm
15610203004	300 cm



FD+M-2 SN SAE 100 R2AT - G 1" 1/4
Working pressure: 125 bar

Code OMFB	Length
15610230501	50 cm
15610230609	60 cm
15610230707	70 cm
15610230805	80 cm
15610230903	90 cm
15610231000	100 cm
15610231108	110 cm
15610231206	120 cm
15610231304	130 cm
15610231402	140 cm
15610231500	150 cm
15610231608	160 cm
15610231706	170 cm
15610231804	180 cm
15610231902	190 cm
15610232009	200 cm
15610232107	210 cm
15610232205	220 cm
15610232303	230 cm
15610232401	240 cm
15610232509	250 cm
15610232607	260 cm
15610232705	270 cm
15610232803	280 cm
15610232901	290 cm
15610233008	300 cm



FD+FD-4 SP SAE 100 R10 - G 1**Working pressure: 320 bar**

Code OMFB	Length
15611100604	60 cm
15611100702	70 cm
15611100757	75 cm
15611100800	80 cm
15611100855	85 cm
15611100908	90 cm
15611100953	95 cm
15611101005	100 cm
15611101050	105 cm
15611101103	110 cm
15611101158	115 cm
15611101201	120 cm
15611101256	125 cm
15611101309	130 cm
15611101354	135 cm
15611101407	140 cm
15611101452	145 cm
15611101505	150 cm
15611101550	155 cm
15611101603	160 cm
15611101658	165 cm
15611101701	170 cm
15611101809	180 cm
15611101907	190 cm
15611102004	200 cm
15611102102	210 cm
15611102200	220 cm
15611102308	230 cm
15611102406	240 cm
15611102504	250 cm
15611102602	260 cm
15611102700	270 cm
15611102808	280 cm
15611102906	290 cm
15611103003	300 cm
15611103101	310 cm
15611103209	320 cm
15611103307	330 cm
15611103405	340 cm
15611103503	350 cm
15611103601	360 cm
15611103709	370 cm
15611103807	380 cm
15611103905	390 cm
15611104002	400 cm
15611104502	450 cm

**FD+F90°-4 SP SAE 100 R10 - G 1****Working pressure: 320 bar**

Code OMFB	Length
15611110700	70 cm
15611110755	75 cm
15611110808	80 cm
15611110853	85 cm
15611110906	90 cm
15611110951	95 cm
15611111003	100 cm
15611111058	105 cm
15611111101	110 cm
15611111156	115 cm
15611111209	120 cm
15611111254	125 cm
15611111307	130 cm
15611111352	135 cm
15611111405	140 cm
15611111450	145 cm
15611111503	150 cm
15611111558	155 cm
15611111601	160 cm
15611111656	165 cm
15611111709	170 cm
15611111807	180 cm
15611111905	190 cm
15611112002	200 cm
15611112100	210 cm
15611112208	220 cm
15611112306	230 cm

**FC90°+FC90°-4 SP SAE 100 R10 - G 1****Working pressure: 320 bar**

Code OMFB	Length
15611120708	70 cm
15611120753	75 cm
15611120806	80 cm
15611120851	85 cm
15611120904	90 cm
15611120959	95 cm
15611121001	100 cm
15611121056	105 cm
15611121109	110 cm
15611121154	115 cm
15611121207	120 cm
15611121252	125 cm

15611121305	130 cm
15611121350	135 cm
15611121403	140 cm
15611121458	145 cm
15611121501	150 cm
15611121556	155 cm
15611121609	160 cm
15611121654	165 cm
15611121707	170 cm
15611121805	180 cm
15611121903	190 cm
15611122000	200 cm
15611122108	210 cm
15611122206	220 cm
15611122304	230 cm



FD+M-4 SP SAE 100 R10 - G 1
Working pressure: 320 bar

Code OMFB	Length
15611130706	70 cm
15611130751	75 cm
15611130804	80 cm
15611130859	85 cm
15611130902	90 cm
15611130957	95 cm
15611131009	100 cm
15611131054	105 cm
15611131107	110 cm
15611131152	115 cm
15611131205	120 cm
15611131250	125 cm
15611131303	130 cm
15611131358	135 cm
15611131401	140 cm
15611131456	145 cm
15611131509	150 cm
15611131554	155 cm
15611131607	160 cm
15611131652	165 cm
15611131705	170 cm
15611131803	180 cm
15611131901	190 cm
15611132008	200 cm
15611132106	210 cm
15611132204	220 cm

15611132302	230 cm
15611132400	240 cm
15611132508	250 cm
15611132704	270 cm
15611133007	300 cm
15611133507	350 cm
15611134006	400 cm



FD+M-4 SP SAE 100 R10 - G 1" 1/4
Working pressure: 210 bar

Code OMFB	Length
15611230509	50 cm
15611230607	60 cm
15611230705	70 cm
15611230803	80 cm
15611230901	90 cm
15611231008	100 cm
15611231106	110 cm
15611231204	120 cm
15611231302	130 cm
15611231400	140 cm
15611231508	150 cm
15611231606	160 cm
15611231704	170 cm
15611231802	180 cm
15611231900	190 cm
15611232007	200 cm
15611232105	210 cm
15611232203	220 cm
15611232301	230 cm
15611232409	240 cm
15611232507	250 cm



High pressure hoses and accessories

PVC protection spiral hose

Code OMFB	Description	Length
15602000015	Spiral for PVC hose G1	5 mt
15602000079	Spiral for PVC hose G1	2,5 mt
15602000104	Spiral for PVC hose G3/4	1 mt



Hose bracket

Code OMFB	Description
13590100308	Hose bracket Ø32
13590100317	Hose bracket Ø40



TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE REASON	SOLUTION
No oil flow from pump	No oil in reservoir.	Fill reservoir with appropriate fluid. See pump manufacturer's specifications
	Ball valve of oil tank closed	Open valve.
	Suction hose closed	Verify suction hose
	Pump is wrong rotation for application.	Replace or alter direction of rotation of pump to correct rotation.
	Hoses are reversed.	Change inlet and pressure hose locations.
	PTO not engaged.	Engage the PTO
	Pump worn or damaged.	Repair or replace pump
Pump will not build/hold pressure	Pump worn or damaged.	Repair or replace pump.
No oil flow from valve to service port	Relief valve of distributor valve set not correctly.	Adjust relief valve
	Relief valve stuck open.	Remove, clean, and re-set the relief valve
	Spool is not moving	Check air connection is provided; Make sure fixing bolts of the valve body are not too tight. Tighten bolts as per torque specifications. See valve manufacturer's specifications
		Check air pipes to detect any possible leakage. Replace air pipes.
		Spool stuck because of dirt or piece of welding. Clean the spool or replace the valve.
	Air control not activated	Check the status of air control
		Check right connections of the air pipes at the valve
Pump is noisy	Air in system	See "Oil foaming."
	Cavitation (Cavitation is caused by excessive vacuum at the pump inlet)	Increase size of suction hose; re-mount suction hose; Check for kinks or leakages in the suction hose; Check for clogged reservoir or breather or strainer; Inlet hose should be SAE type 100R4 hose only.
Pump leaks at shaft oil-seal	Dirt under seal.	Replace seal. Examine pump shaft if damaged.
	Damaged seal or pump body.	Replace seal or body section.
	Improperly fitted seal.	Replace seal.
	Damaged o-ring or body.	Replace o-ring or body section.
	Loose bolts.	Tighten bolts as per torque to specification.
Pump leaks at body section	Loose fitting.	Tighten fitting.
	Damaged fitting.	Replace fitting.
At pump port	Damaged pump body.	Replace body section.
Pump is hot (Oil temperature should not exceed 60°/70° C)	Low oil level.	Fill oil tank.
	Oil tank too small.	Increase oil tank size.
	Dirty oil.	Replace oil and filter.
	Relief valve stuck open.	Remove, clean, and re-set. Adjust relief valve to specifications
	Relief valve improperly set.	Review application.
	Pump too large for application.	Replace with correct size of pump
	Undersized system component.	Review application.
	Improper type of oil.	Replace with correct oil.
Oil foaming	Low oil level.	Fill tank.
	Loose inlet fitting.	Tighten fitting.
	Damaged pump shaft oil-seal.	Replace seal.
	Leak in suction hose.	Replace hose.