



- *Manuel de l'utilisateur*
- *Manuel de pièces*

- *Operator's manual*
- *Parts manual*

Pulvérisateur agricole

Agricultural sprayer

Modèles ● Models

R190 - R380 - R765

MS Gregson Inc.

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**Félicitations pour
votre nouveau
pulvérisateur
MS Gregson**

Si vous suivez bien les instructions de ce manuel, cet équipement MS gregson vous donnera plusieurs années de bon service. Chaque unité est entièrement monté et testé à l'usine.

**Congratulations
for your new
MS Gregson
Sprayer equipment**

If you follow the directives of this manual, this MS Gregson equipment will give you many years of good service. Each unit is fully set up and wet tested at the factory.

POLITIQUE DE GARANTIE MS POUR PULVÉRISATEURS

GARANTIE LIMITÉE

Les pulvérisateurs fabriqués par **MS Gregson Inc.** sont garantis, à l'acheteur initial au détail, comme étant exempts de vices de matériaux ou de fabrication pour les délais spécifiés ci-dessous. Les conditions d'utilisation normale conformes aux instructions décrites dans le manuel de l'utilisateur s'appliquent. Cette garantie limitée est sujette aux exclusions ci-dessous énumérées. Elle est calculée à partir de la date de livraison à l'acheteur initial et s'applique aux composantes originales seulement. Les pièces remplacées sous cette garantie jouissent du délai restant de la garantie pour les composantes correspondantes.

GARANTIE DE 1 AN SUR LES PIÈCES, 1 AN SUR LA MAIN-D'OEUVRE

Les composantes, excluant les accessoires mentionnés ci-dessous et les items d'entretien courant mentionnés ci-dessous, sont couvertes par une garantie de 1 an sur les pièces et la main-d'oeuvre.

GARANTIE OFFERTE PAR D'AUTRES MANUFACTURIERS

Les moteurs électriques ou à essence, batteries, pneus, jantes, contrôleur de taux ou autres items dont le fabricant offre directement une garantie, sont réparés dans un centre de service autorisé du fabricant correspondant. **MS Gregson Inc.** ne peut offrir de garantie sur ces items.

EXCLUSIONS DE LA GARANTIE

- Ajustements de routine et articles d'entretien courant tels que lubrifiants, courroies, boyaux, joints toriques, tamis de filtre, fusibles, systèmes d'étanchéité de pistolets.
- Réparations requises suite à une collision, un accident, un choc, un abus, des modifications apportées à l'équipement sans autorisation, une installation inadéquate, un mauvais entretien, une utilisation contraire aux directives fournies dans ce manuel ou au bon sens commun.
- Réparations requises suite au gel ou à l'exposition à des produits corrosifs.
- Réparation requises suite à des fluctuations de tension électrique d'alimentation.
- Réparations requises suite à une alimentation insuffisante en eau ou à une eau de mauvaise qualité.
- Dommages aux cultures dû à un mauvais calibrage ou usage de l'équipement.
- Dommages aux cultures ou déversement dû à un bris de composante et/ou un accident.
- Frais résultant de l'arrêt de l'unité durant une réparation ou pour toute autre raison.
- Frais de transport et/ou de déplacement.

EXÉCUTION DE RÉPARATION PENDANT LA PÉRIODE DE GARANTIE

Pour obtenir le service de garantie sur des pièces garanties par **MS Gregson Inc.**, pendant la période de garantie, vous devez montrer à votre concessionnaire

MS WARRANTY POLICY FOR SPRAYERS

LIMITED WARRANTY

The sprayers manufactured by **MS Gregson Inc.** are warranted, to the original purchaser, to be free from defects in materials and workmanship for the periods specified below. Normal use conditions, according to the instructions in the operator's manual, apply. This limited warranty is subject to the exclusions listed below, is calculated from the date of delivery to the original purchaser, and applies to the original components only. Parts replaced under this warranty will assume the remainder of the corresponding part's warranty period.

1 YEAR PARTS, 1 YEAR LABOUR WARRANTY

The components, excluding accessories listed below and normal wear items listed below, are warranted for 1 year on parts and labour.

WARRANTY PROVIDED BY OTHER MANUFACTURERS

Motors, engines, batteries, wheels, rims, rate controller or other items which are warranted by their respective manufacturers, are serviced through these manufacturer's local authorized service centres. **MS Gregson Inc.** cannot provide warranty on these items.

EXCLUSIONS OF WARRANTY

- Routine adjustments and normal maintenance items such as lubricants, belts, hoses, O-rings, filter screens, fuses, gun seal kits.
- Repairs required as a result of collision, accident, bumping, misuse, modifications made to the equipment without authorization, incorrect installation, lack of required maintenance, use contrary to the instructions included in this manual or to the common sense.
- Repairs required as a result of freezing or exposure to corrosive products.
- Repairs required as a result of voltage fluctuations of the electric supply.
- Repairs required as a result of insufficient water supply or poor quality water.
- Damage to crop due to wrong calibration or incorrect use of the equipment.
- Damage to crop or spill due to components failure and/or accident.
- Additional charge resulting from paralyzation and repair of the equipment.
- Transportation and/or travelling.

EXECUTION OF REPAIRS WITHIN THE WARRANTY PERIOD

In order to obtain warranty service on items warranted by **MS Gregson Inc.** within the warranty period, you must show to your dealer a proof of purchase. If the equipment is permanently installed, repairs will be carried

une preuve d'achat de votre équipement. Si l'équipement est installé de façon permanente, les réparations seront effectuées sur place par le concessionnaire. Pour obtenir le service de garantie sur les composantes garanties par d'autres manufacturiers, votre concessionnaire peut vous aider à obtenir ces services dans un centre local de service autorisé.

Le concessionnaire a la responsabilité d'effectuer les réparations couvertes pendant la durée de la garantie.

Ces réparations se feront à l'atelier du concessionnaire pour les équipements mobiles ou chez le client au choix du concessionnaire ; le client au détail a la responsabilité d'apporter son équipement chez son concessionnaire.

Les pièces changées sous garantie deviennent la propriété de **MS Gregson Inc.**

LIMITE DE LA RESPONSABILITÉ

La responsabilité de Pulvérisateur **MS Gregson Inc.** pour les dommages particuliers, accidentels ou consécutifs est expressément déniée. En aucun temps, la responsabilité de Pulvérisateur **MS Gregson Inc.** ne peut excéder le prix d'achat du produit en question. LA PRÉSENTE GARANTIE TIENT LIEU DE TOUTE AUTRE GARANTIE, EXPLICITE OU IMPLICITE, Y COMPRIS TOUTE GARANTIE IMPLICITE D'ADAPTATION POUR UNE UTILISATION PARTICULIÈRE. Pulvérisateur **MS Gregson Inc.** n'autorise aucune autre partie, incluant les concessionnaires **MS** autorisés, à faire toute représentation ou promesse au nom de Pulvérisateur **MS Gregson Inc.** ou à modifier les termes, conditions ou limitations d'aucune façon. Il est de la responsabilité de l'acheteur de s'assurer que l'installation et l'utilisation des produits **MS Gregson** respectent les codes locaux. Bien que **MS Gregson Inc.** tente de s'assurer que ses produits rencontrent les codes nationaux, elle ne peut être responsable de la façon dont le client choisit d'installer ou d'utiliser le produit.

out on the spot by the dealer. For warranty service on components warranted by other manufacturers, your authorized **MS Gregson** dealer can help you obtain warranty service through these manufacturers' local authorized service centres.

The dealer has the responsibility to carry out repairs within the warranty period.

Repairs will be done at the dealer's repair-shop for mobile equipments (or at your site upon dealer choice); the purchaser has the responsibility to bring his equipment to his dealer's repair-shop.

The parts changed under warranty become the property of **MS Gregson Inc.**

LIMITATION OF LIABILITY

MS Gregson Inc. liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall **MS Gregson Inc.** liability exceed the purchase price of the product in question. THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. **MS Gregson Inc.** does not authorize any other party, including authorized **MS** dealers, to make any representation or promise on behalf of **MS Gregson Inc.** or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of **MS Gregson** products conforms to local codes. While **MS Gregson Inc.** attempts to assure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product.

HIVERNEMENT

1. Rincer tout le système à l'eau propre.
2. Déconnecter la succion sous le réservoir et à l'entrée de la pompe.
3. Déconnecter les sorties de la pompe allant à l'agitation et aux fusils ou enrouleurs.
4. Faire tourner la pompe, régulateur relâché, pendant une minute.
5. Verser de l'antigel à l'entrée de la pompe et arrêter le moteur lorsque l'antigel sort à la sortie de la pompe.
6. Dévisser le filtre de succion complètement.
7. Souffler de l'air sous pression dans le boyau de l'enrouleur, en maintenant le fusil ouvert, jusqu'à ce que toute l'eau en sorte.
8. Enlever le manomètre à pression et le remettre à dans un endroit hors du gel.

WINTERIZATION

1. Completely rinse the sprayer with clear water.
2. Disconnect the suction hoses under the tank and at the inlet of the pump (truck mount sprayer only).
3. Disconnect all the hoses at the outlet of the pump to agitator and to the hose reel.
4. With the unloader released, let the pump running for one minute.
5. Fill the inlet of the pump with anti-freeze, run the pump to have enough anti-freeze going out at the outlet of the pump.
6. Remove the filter bowl.
7. Blow air in the hose of the hose reel, open the gun, to drain all the water from the hose.
8. Remove the pressure gauge and store it away from frost.

CALIBRATION DE RAMPE VERTICALE NO. MP-5150

2 barres verticales de 5 buses chacune no. 1.5

CALIBRATION FOR VERTICAL BOOM NO. MP-5150

2 vertical booms, 5 nozzles each no. 1.5

CHARTE DE DÉBIT / FLOW CHART

Buse / Nozzle no. 1.5	GPM - l/min		
	40 psi	100 psi	200 psi
1.0 mm, 1 t *	.27 gpm - 1.02 l/min	.41 gpm - 1.56 l/min	.53 gpm - 2 l/min
1.0 mm, 1.5 t *	.3 gpm - 1.14 l/min	.49 gpm - 1.75 l/min	.59 gpm - 2.24 l/min
1.5 mm, 1 t *	.45 gpm - 1.7 l/min	.68 gpm - 2.56 l/min	.94 gpm - 3.54 l/min
1.5 mm, 1.5 t *	.5 gpm - 1.9 l/min	.76 gpm - 2.87 l/min	1.05 gpm - 3.92 l/min

t* = tour d'ouverture de la vis sur chaque buse

t* = opening turn of the screw behind each nozzle

Note : Le débit étant dépendant de l'ouverture de la vise derrière la buse, pour plus de précision, mesurer le débit de quelques buses dans un récipient calibré.

Note : The flow depends on the opening of the screw behind the nozzle, so for more precision, measure the flow of a couple of nozzles in a calibrated jar.

GPM = US gal./min.

A) COMMENT TROUVER LE DÉBIT REQUIS PAR BUSE?

Formules :

$$\text{GPMT} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5940}$$

$$\text{GPMT} = \text{US gal./min total}$$

$$\text{GPA} = \text{US gal./acre}$$

$$\text{MPH} = \text{milles à l'heure}$$

$$\text{W} = \text{Largeur entre les 2 rangs, en po}$$

$$\text{GPM} = \text{GPMT} \div \text{nb de buses}$$

$$\text{GPM} = \text{US gal/min/buse}$$

A) HOW TO FIND THE DESIRED NOZZLE FLOW RATE?

Formulas :

$$\text{GPMT} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5940}$$

$$\text{GPMT} = \text{total boom US gallons per minute}$$

$$\text{GPA} = \text{US gallon per acre}$$

$$\text{MPH} = \text{miles per hour}$$

$$\text{W} = \text{Distance in inches between rows}$$

$$\text{GPM} = \text{GPMT} \div \text{Qty of nozzles}$$

$$\text{GPM} = \text{US gallon per min. per nozzle}$$

B) COMMENT TROUVER LES GAL/ACRE

Formule :

$$\text{GPA} = \frac{5940 \times \text{GPMT}}{\text{MPH} \times \text{W}}$$

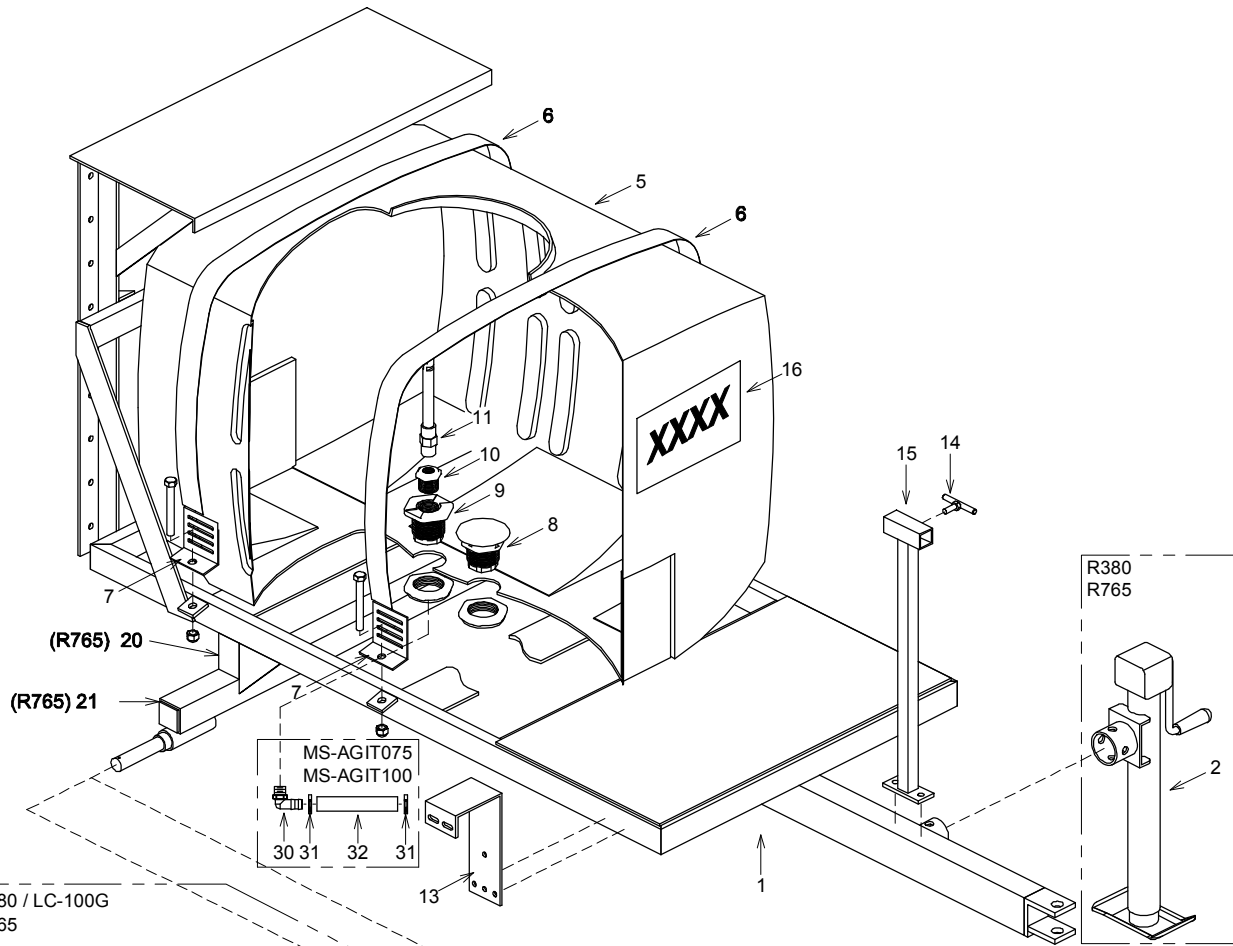
B) HOW TO FIND THE GPA

Formula :

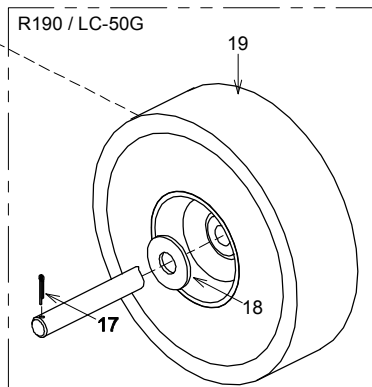
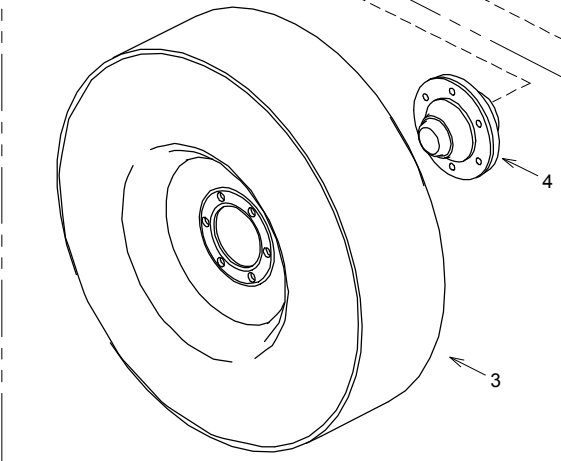
$$\text{GPA} = \frac{5940 \times \text{GPMT}}{\text{MPH} \times \text{W}}$$

Bâti et réservoir pour petit remorqué

Frame and tank for little trailer



R380 / LC-100G
R765



PULVAG\MULTIPLE\R765		
DATE: 2004-09-28	PAR/ BY: E.L.	
REV: 2010-03-31	PAR/ BY: D.T.	#REV: 0
# REC.: RE-R380 / MS-BR380ASS		
RE-R765 / MS-BR765ASS		
RE-R190	APP:	

Desc. Française **Bâti et réservoir pour petit remorqué, 190 litres**

English Desc. **Frame and tank for small trailer, 50 gallons**

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-BR190R2-G	Bâti remorque 190 litres (gris)	Trailer frame 190 liters (gray)
5	1.00	AC-PCO05019S	Rés. rect. 190 l, 50 gal., 19"x23"x38" poly.	Rect. tank 190 l, 50 gal., 19"x23"x38" poly.
6	6.00	SN-TS198	Courroie sécurité noire 1 15/16" larg.	Polyester strap 1 15/16" width
7	4.00	MS-AC01	Attache courroie universel	Universal strap attachment
8	1.00	MP-5041061	Anti-vortex assy 1 1/2"	Anti-vortex assy 1 1/2"
9	1.00	RA-5034P	Adapt. de rés. 1"fnpt x 1"fnpt ny	Tank adapt. 1"fnpt x 1"fnpt ny
10	1.00	JB-RB10034NY	Réduit 1"mnpt x 3/4"fnpt céd.80 ny	Reducer 1"mnpt x 3/4"fnpt ced.80 ny
11	1.00	JB-33710019	Jet agitateur	Jet agitator
13	1.00	MS-SF3244043A-N	Support filtre mp-324...3x9" (noir s.l.)	Filter support mp-324...3x9" (s.g. black)
14	1.00	MS-PS338	Poignée serrage 3" x 3/8" inox.	3" x 3/8" ss tightening handle
15	1.00	MS-TS17Y	Tube support 17y	17y support tube
16	1.00	AU-DECR190	Autocollant R190, lettres de 3"	R190 decal, 3" letters
17	2.00	MO-CP12	Cotter-pin 5/32 x 2	Cotter-pin 5/32 x 2
18	2.00	BT-FW1SAE	Rondelle plate 1"	Flat washer 1"
19	2.00	CA-18758	Roue 18"h x 5.38"la x 8" arbre 1"	Wheel 18" x 9.5" x 8", 1" shaft

Desc. Française **Bâti et rés. pulv. rem. r380 380 l, 100 gal.**
 English Desc. **Trailer sprayer tank and frame r380 380 l, 100 gal.**

Réf.	Quantité	Produit	Description française	English Description
5	1.00	NO-42835	Rés. rect. 380 l, 100gal., 30"x30"x38", poly	Rect. tank 380 l, 100gal., 30"x30"x38", poly
6	10.00	SN-TS198	Courroie sécurité noire 1 15/16" larg.	Polyester strap 1 15/16" width
7	4.00	MS-AC01	Attache courroie universel	Universal strap attachment
8	1.00	MP-5041061	Anti-vortex assy 1 1/2"	Anti-vortex assy 1 1/2"
9	1.00	RA-5034P	Adapt. de rés. 1"fnpt x 1"fnpt ny	Tank adapt. 1"fnpt x 1"fnpt ny
10	1.00	JB-RB10034NY	Réduit 1"mnpt x 3/4"fnpt céd.80 ny	Reducer 1"mnpt x 3/4"fnpt ced.80 ny
11	1.00	JB-33710019	Jet agitateur	Jet agitator
13	1.00	MS-SF3244043A-N	Support filtre mp-324...3x9" (noir s.l.)	Filter support mp-324...3x9" (s.g. black)
14	1.00	MS-PS338	Poignée serrage 3" x 3/8" inox.	3" x 3/8" ss tightening handle
15	1.00	MS-TS17Y	Tube support 17y	17y support tube
16	1.00	AU-DECR380	Autocollant R380, lettres de 3"	R380 decal, 3" letters

Desc. Française **Bâti pulv. r380/ pneus et cric**
English Desc. **R380 spr.frame/tires and jack**

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-BR380-G	Bâti remorque 380 litres carre (gris)	Trailer frame 380 liters (gray)
2	1.00	MO-LT2103	Jack 2000 lbs 10" maniv.cote	Jack 2000 lbs 10" side handle
3	2.00	AU-45047H-S	Pneu 23/10.5R12, 6 plis traction à pelouse	Tire 23/10.5R12 6ply turf
4	2.00	MS-H1200	Moyeu 01200 lbs, 5B/4.5/2.5	Hub 01200 lbs, 5B/4.5/2.5



MS Gregson Inc.

4300 rue Vachon, Drummondville QC J2B 6V4, Canada
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BOM

RE-R765

REVISION

1

Desc. Française Bâti et rés. pulv. rem.R765, 765 l 200 gal.

English Desc. Trailer sprayer tank and frame R765 765 l, 200 gal.

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-BR765ASS	Bâti-pneus-cri / pulv. ag. r765, pour rés. carré	Frame-tires-jack / ag. sprayer r765, for pco tank
5	1.00	NO-42837	Rés. rect. 765 l, 200gal., 37"x37"x48", poly, couvert 16"	Rect. tank 765 l, 200gal., 37"x37"x48", poly, 16" lid
6	12.00	SN-TS198	Courroie sécurité noire 1 15/16" larg.	Polyester strap 1 15/16" width
7	4.00	MS-AC01	Attache courroie universel	Universal strap attachment
8	1.00	MP-5041061	Anti-vortex assy 1 1/2"	Anti-vortex assy 1 1/2"
9	1.00	RA-5034P	Adapt. de rés. 1"fnpt x 1"fnpt ny	Tank adapt. 1"fnpt x 1"fnpt ny
10	1.00	JB-RB10034NY	Réduit 1"mnpt x 3/4"fnpt céd.80 ny	Reducer 1"mnpt x 3/4"fnpt ced.80 ny
11	1.00	JB-33710019	Jet agitateur	Jet agitator
13	1.00	MS-SF3244043A-N	Support filtre mp-324...3x9" (noir s.l.)	Filter support mp-324...3x9" (s.g. black)
14	1.00	MS-PS338	Poignee serrage 3" x 3/8" inox.	3" x 3/8" ss tightening handle
15	1.00	MS-TS17Y	Tube support 17y	17y support tube
16	1.00	AU-DECR765	Autocollant R765 lettres 3"	Decal R765 letters 3"



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BOM

MS-BR765ASS

REVISION

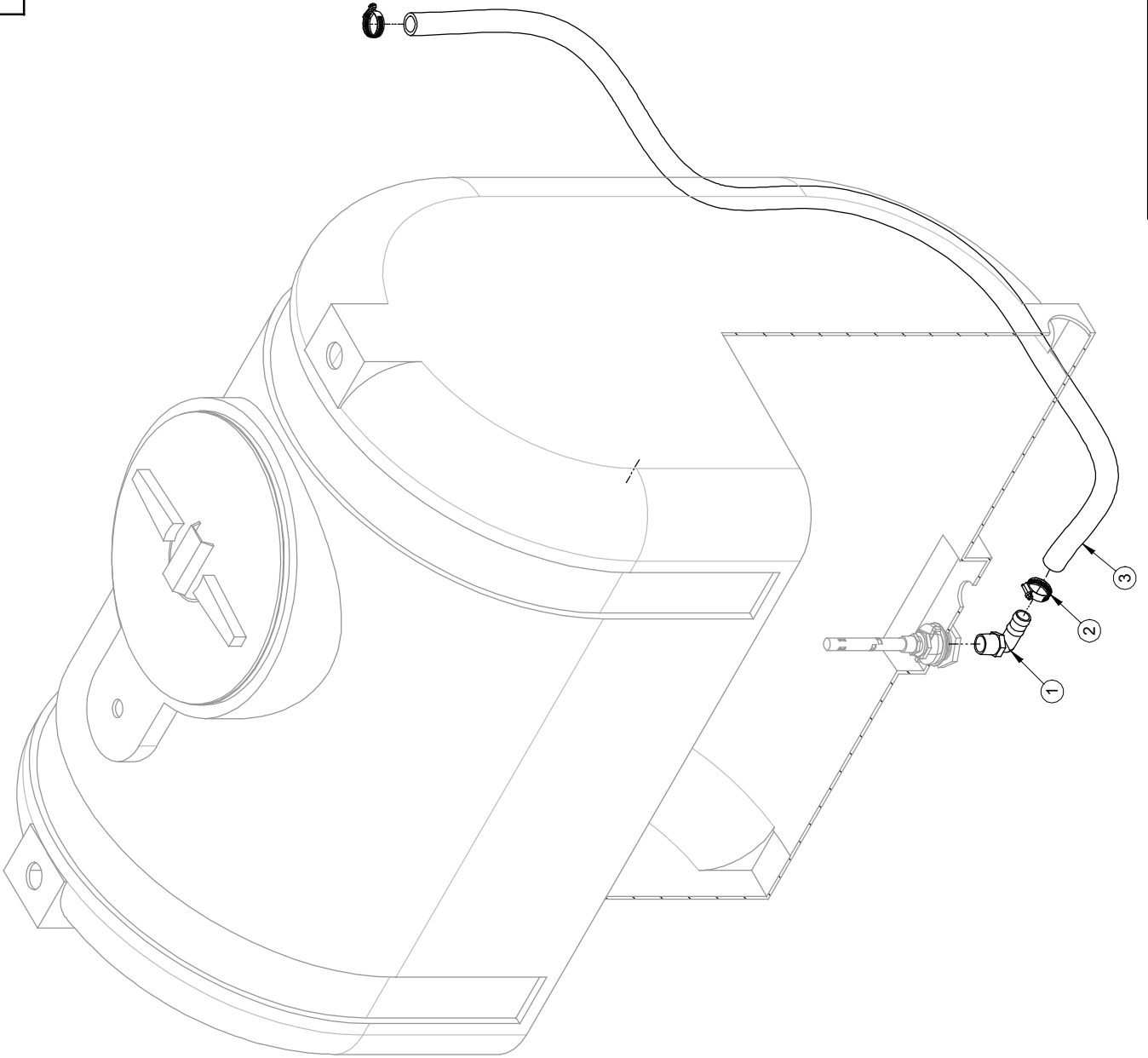
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Desc. Française Bâti-pneus-cri / pulv. ag. r765, pour rés. carré
English Desc. Frame-tires- jack / ag. sprayer r765, for pco tank

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-BR765R2	Bâti pulvérisateur agricole R765, pour rés. carré	R765 sprayer frame, for pco tank
2	1.00	MO-LT2103	Jack 2000 lbs 10" maniv.cote	Jack 2000 lbs 10" side handle
3	2.00	000-035	Pneu 11L-15 8 plis+blanc clair 8-15 6B/8/6, OSET 1"	Tire 11L-15 8 ply+clear white 8-15 6B/8/6 OSET 1"
20	12.00	BT-LN38	Écrou freiné nylon 3/8 unc	Locknut nylon 3/8 unc
20	6.00	AU-UB3834	Boulon en U, carré 3/8 x 3 x 4	Sq u-bolt 3/8 x 3 x 4
20	6.00	MS-CPBU3I	Contre plaque boul. u 3" int.	3" int u-bolt counter-plate
21	2.00	MS-ESSBR765ASS	Essieu + hub 6 tr.x 5000 lb	Axel+hub 6 holes x 5000 lbs

#	Ref.	Q.
1	JB-EL1010NY	1
2	DA-HS16	2

#	Ref.	Q.	"
3	LV-12N	1	(78")

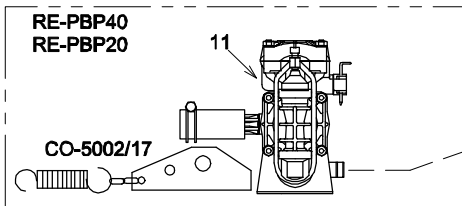
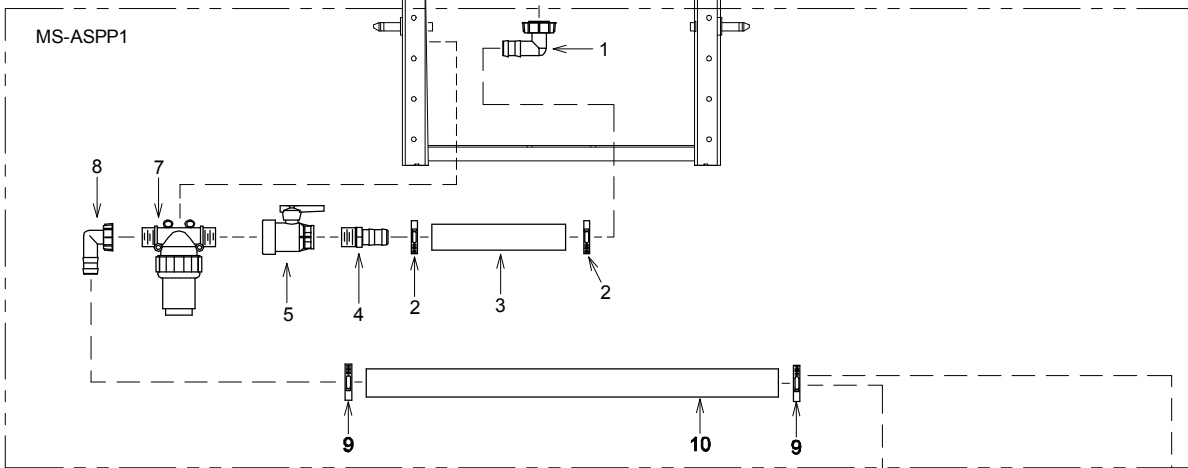
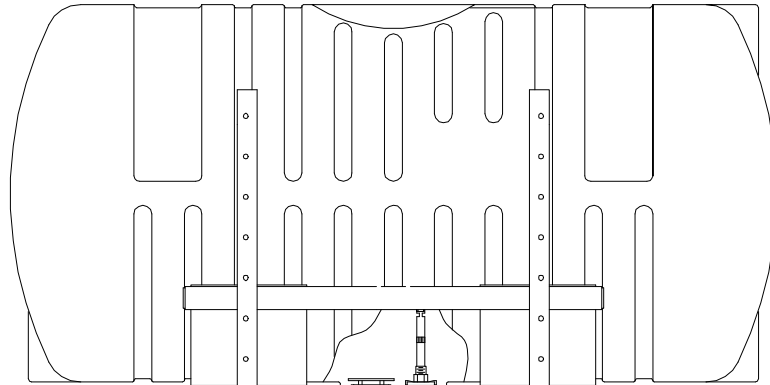


2007/11/01	MS-AGIT100.asm	Pg:1-1
MS-AGIT100.dft	Rev: 0	Explose 1

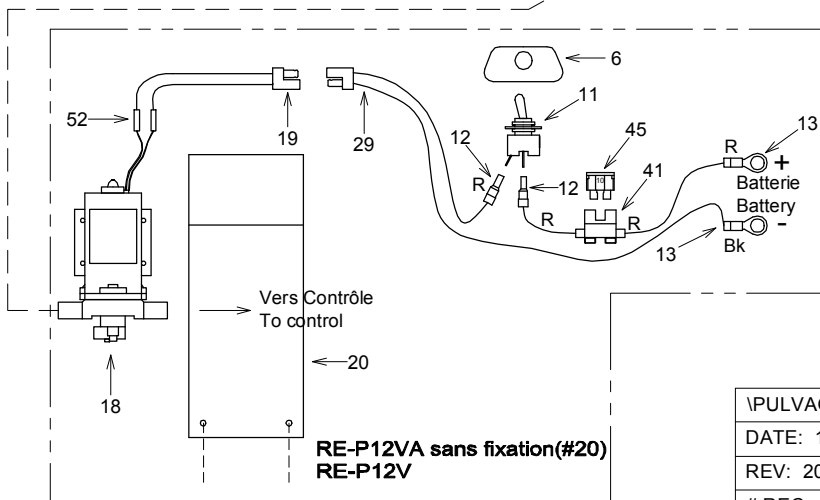
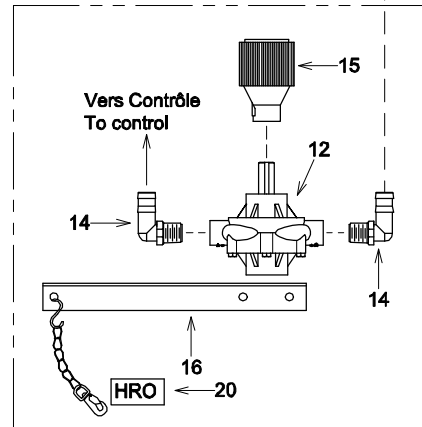
BOM**MS-AGIT050****REVISION****0**Desc. Française **Boyau d'entrée pour agitation 1/2"**English Desc. **1/2" hose for agit.**

Réf.	Quantité	Produit	Description française	English Description
30	1.00	JB-EL1012NY40	Adapt. coudé 1"mnpt x 1/2"hb céd.40 ny	Elbow adapt. 1"mnpt x 1/2"hb ced.40 ny
31	2.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
32	8.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi

POMPE A ROULEAUX AVEC FILTREUR ROLLER PUMP WITH FILTER



Vers Contrôle
To control



I\PULVAG\PORTE\POMPE\P6500		
DATE: 1999-04-12	PAR/ BY: G.L.	
REV: 2006-10-18	PAR/ BY: G.L.	#REV: 3
# REC.: RE-P6500C		
RE-P7700C RE-P12V RE-P12VA		
RE-PBP20 RE-PBP40	APP:	

Desc. Française **Pompe 7700C, pulvérisateur porté, aspiration 1"**
 English Desc. **7700C PUMP, 3 PTS HITCH, 1 " SUCTION**

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbo w adapt. 1"fnpt x 1"hb ced.40 ny
2	2.00	DA-SHAS16	Collier de serrage en acier ino x. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
3	3.00	LV-1PVC	Bo yau vert, 1", 85 lb/po2, PVC st yle"j"	Green hose st yle"j", 1", pvc
4	1.00	JB- IMB0808N Y40	Adapt. droit 1" mnpt x 1"hb céd.40 ny	Straight adapt. 1" mnpt x 1"hb ced.40 ny
5	1.00	MP-S301320PP	Valve à bille 2v 1"fnpt n y, joint EPDM	Ball valve 2v 1"fnpt n y, EPD M seal
7	1.00	AU-8110009	Filtreur 1" mbsp x 1" mbsp, 290 lbs/po2, 50 mailles	Strainer 1" mbsp x 1" mbsp, 290 psi, 50 mesh
8	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbo w adapt. 1"fnpt x 1"hb ced.40 ny
9	2.00	DA-SHAS16	Collier de serrage en acier ino x. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
10	3.00	LV-1PVC	Bo yau vert, 1", 85 lb/po2, PVC st yle"j"	Green hose st yle"j", 1", pvc
12	1.00	JB-7700C	Po mpe à rouleau 14 gp m à 540 rp m, 200 lb/po2 inter mitent	Roller pu mp 14 gp m at 540 rp m, 200 psi inter mitent
14	2.00	JB-EL3410NY	Adapt. coudé 3/4" mnpt x 1"hb céd.80 ny	Elbo w adapt. 3/4" mnpt x 1"hb ced.80 ny
15	1.00	JB-13210013	Adapt.pto multi speed 15/16"	Pto multi speed adaptor 15/16"
16	1.00	MS-S6500A	Support ass po mpe 6500-7700	Pu mp support ass. 6500-7700
20	1.00	AU-DECHRO	Autocollant huile po mpe à rouleaux	Decal,"oil/roller pu mp



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BOM

RE-PBP40

REVISION

2

Desc. Française Pompe BP40F, pulv. porté asp. 1" filtre 1"

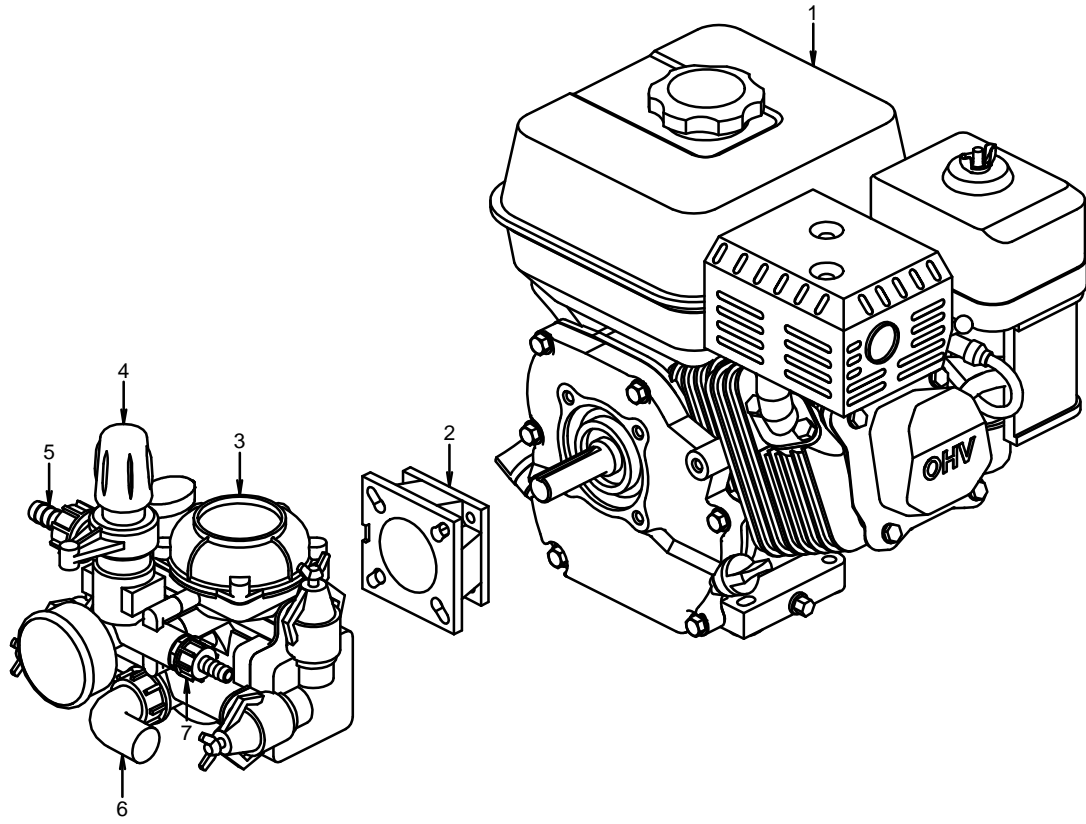
English Desc. BP40F PUMP, 3 PTS HITCH, 1 " SUC

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbow adapt. 1"fnpt x 1"hb ced.40 ny
2	2.00	DA-SHAS16	Collier de serrage en acier inox. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
3	3.00	LV-1PVC	Boyau vert, 1", 85 lb/po2, PVC style"j"	Green hose style "j", 1", pvc
4	1.00	JB-IMB0808NY40	Adapt. droit 1"mnpt x 1"hb céd.40 ny	Straight adapt. 1"mnpt x 1"hb ced.40 ny
5	1.00	MP-S301320PP	Valve à bille 2v 1"fnpt ny, joint EPDM	Ball valve 2v 1"fnpt ny, EPDM seal
7	1.00	AU-8110009	Filtreur 1" mbsp x 1" mbsp, 290 lbs/po2, 50 mailles	Strainer 1" mbsp x 1" mbsp, 290 psi, 50 mesh
8	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbow adapt. 1"fnpt x 1"hb ced.40 ny
9	2.00	DA-SHAS16	Collier de serrage en acier inox. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
10	3.00	LV-1PVC	Boyau vert, 1", 85 lb/po2, PVC style"j"	Green hose style "j", 1", pvc
11	1.00	CO-BP40/15F	Pompe à membrane 40 l/min 215 lbs/po2, 13/8f	Diaphragm pump 40 l/min 215 psi, 13/8f

Desc. Française **Pulv. porté asp. 1" filtre 1"**
English Desc. **3 PTS HITCH, 1 " SUC**

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbow adapt. 1"fnpt x 1"hb ced.40 ny
2	2.00	DA-SHAS16	Collier de serrage en acier inox. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
3	3.00	LV-1PVC	Boyau vert, 1", 85 lb/po2, PVC style"j"	Green hose style "j", 1", pvc
4	1.00	JB-IMB0808NY40	Adapt. droit 1"mnpt x 1"hb céd.40 ny	Straight adapt. 1"mnpt x 1"hb ced.40 ny
5	1.00	MP-S301320PP	Valve à bille 2v 1"fnpt ny, joint EPDM	Ball valve 2v 1"fnpt ny, EPDM seal
7	1.00	AU-8110009	Filtreur 1" mbsp x 1" mbsp, 290 lbs/po2, 50 mailles	Strainer 1" mbsp x 1" mbsp, 290 psi, 50 mesh
8	1.00	MP-1164251	Adapt. coudé 1"pfbsp x 1"hb céd.40 ny	Elbow adapt. 1"fnpt x 1"hb ced.40 ny
9	2.00	DA-SHAS16	Collier de serrage en acier inox. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
10	3.00	LV-1PVC	Boyau vert, 1", 85 lb/po2, PVC style"j"	Green hose style "j", 1", pvc

Unité de pompage Pumping unit



Note:
 -Pompe MC25, ajuster le moteur à 2800 tr/min
 -MC25 pump , adjust the engine at 2800 rpm
 -Pompe D30, ajuster le moteur a 3450 tr/min
 -D30 pump , adjust the engine at 3450 rpm

PulvCOM\PC\UMP_M01		
DATE: 2004-10-13	PAR/ BY: E.L.	
REV: 2010-03-29	PAR/ BY: D.T.	#REV: 0
# REC.: MS-MC25H4(GC,GX) / MS-BP105HGX		
MS-APS41(H4,H55,H5GC) / MS-D30(H4,H55) / MS-MC25H4TE		
MS-APS(519H,6111H,7111H)		APP:

BOM**MS-MC25H4GC****REVISION****0**Desc. Française **Unité pompage MC25, Honda GC160, 6 gpm, 350 lb/po²**English Desc. **MC25 pumping unit, Honda GC160, 6 gpm, 350 psi**

Réf.	Quantité	Produit	Description française	English Description
1	1.00	HO-GC160QHC	Moteur 5hp, arbre horizontal	Honda engine 5hp, hor. shaft
2	1.00	CO-5011/201	Boîte d'engrenage pour pompe MC254T, 4.33 à 1	Gear box for MC254T pump, 4.33 to 1
3	1.00	CO-MC254T	Pompe membrane MC25, 6 gpm, 350 lbs/po ² , régl. pr	MC25 diaphragm pump, 6 gpm, 350 psi, regulator, for gear-box



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BOM	MS-APS41H5GC
REVISION	0

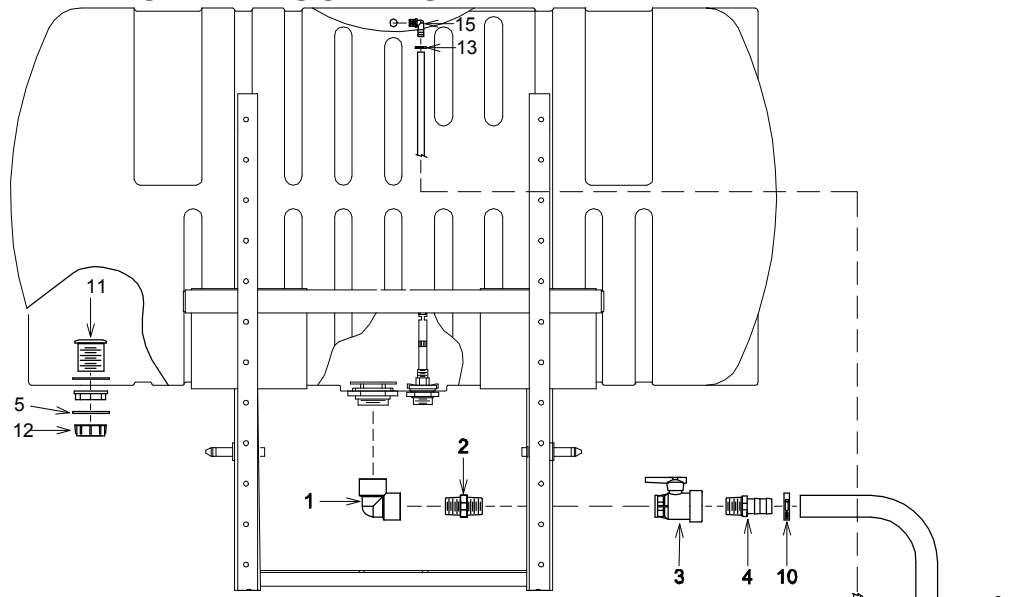
Desc. Française Unité APS41-5hp honda GC160, 11gpm, 400 lb/po2
 English Desc. APS41 pump, 5hp honda GC160, 11gpm 400 psi

Réf.	Quantité	Produit	Description française	English Description
1	1.00	HO-GC160QHC	Moteur 5hp, arbre horizontal	Honda engine 5hp, hor. shaft
2	1.00	CO-5005/216	Réducteur 6.44 à 1 / pompes APS41 (3/4")	Gear reducer 6.44 to 1 / APS41 pompes (3/4")
3	1.00	CO-APS41	Pompe à membrane 11 gpm, 580 lbs/po2, nue	Diaphragm pump 11 gpm, 580 psi, 6h,sh.
4	1.00	CO-1204/457	Régulateur pour APS31-41, 2 sorties 1/2"	Pressure relief valve / APS31-41, 2x1/2" outlets

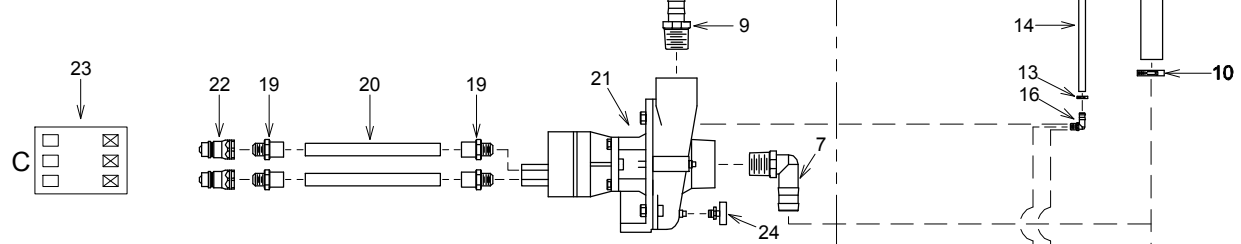
MS-D30H55
RÉVISION 2

<u>Réf.</u>	<u>Quantité</u>	<u>Produit</u>	<u>Description Française</u>	<u>English Description</u>
000	4	BT-516112	Boulon 5/16 x 1 1/2" nc plaqué	Bolt 5/16 x 1 1/2" nc plated
000	4	BT-FW516	Rondelle plate 5/16"	Flat washer 5/16
000	4	BT-LW516	Rondelle frein 5/16 plaquée	Lock washer 5/16 plated
000	4	BT-N516	Écrou 5/16" plaqué	Nut 5/16" plated
001	1	HO-GX160K1QX	Moteur 5.5 hp Honda, oil alert	5.5 hp Honda engine oil alert
003	1	JB-9910D30GRGI	Pompe à membrane D30	Diaphragm pump D30
000	1	JB-IMB0404BR	Adapt. droit 1/2"mnpt x 1/2"hb céd.40 br.	Straight adapt. 1/2"mnpt x 1/2"hb ced.40 br.
000	1	JB-KFM0404BR	Adapt. coudé 1/2"mnpt x 1/2"fnpt céd.40 br	Elbow adapt. 1/2"mnpt x 1/2"fnpt ced.40 br

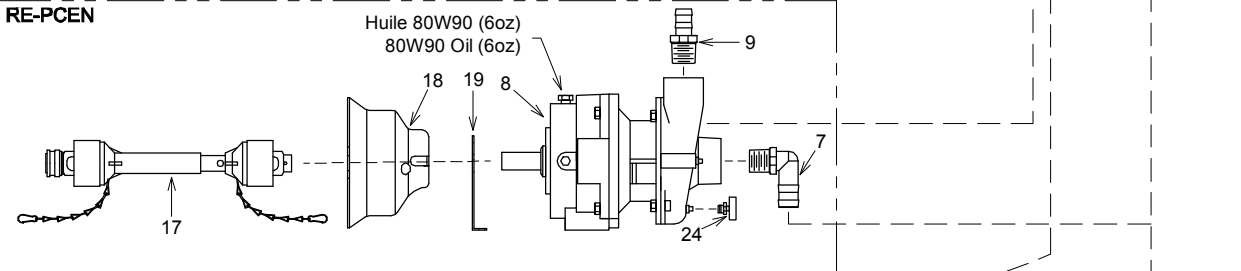
POMPE CENTRIFUGE AVEC FILTREUR CENTRIFUGAL PUMP WITH FILTER



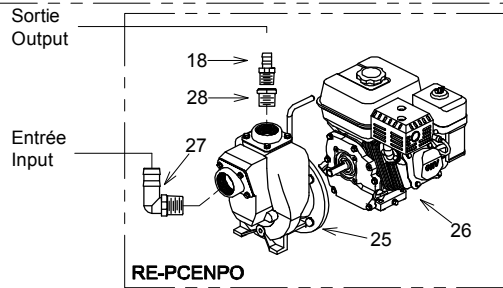
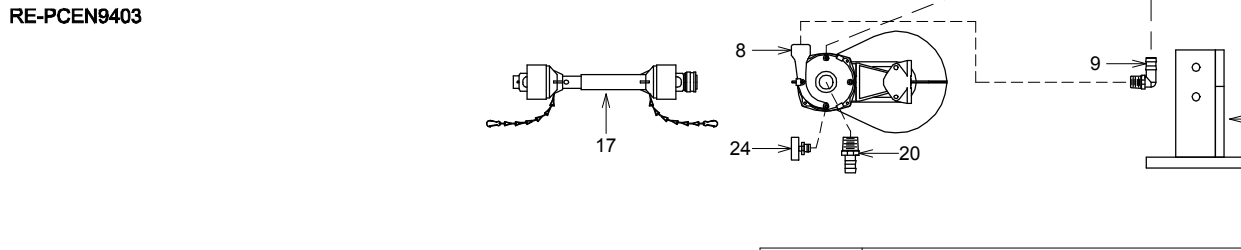
RE-PCENHY



RE-PCEN



RE-PCEN9403



MS PULVÉRISATEUR MS Inc.
MS SPRAYER Inc.

PLAN MONTAGE\PulvAG\Porte\Pompe\PCEN

DATE: 1999-12-04

PAR/ BY: G.L.

REV: 2006-03-21

PAR/ BY: D.T.

#REV: 1

REC.: RE-PCEN

RE-PCEN9403

RE-PCENHY / RE-PCENPO

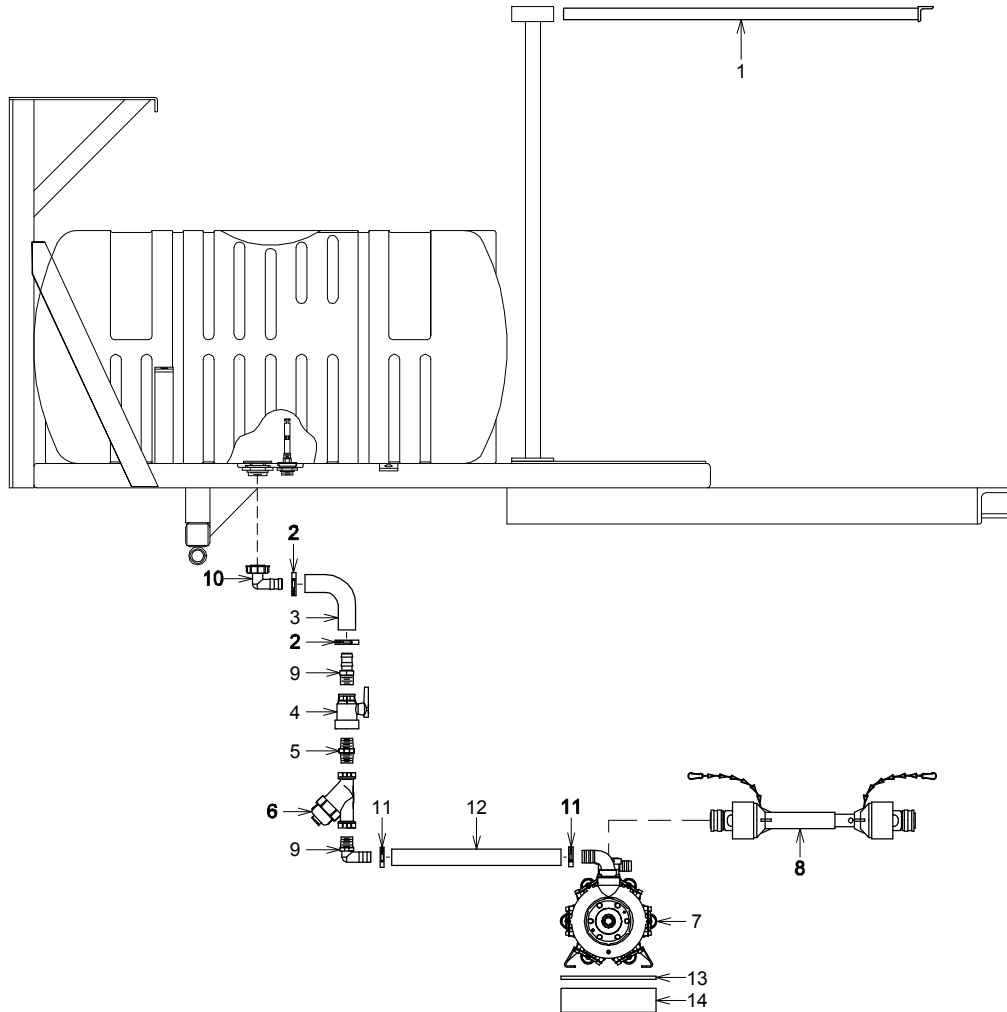
APP: *[Signature]*


APPROUVÉ LE: 2006-03-22 09:07:20 PAR: LANDIEG

Desc. Française Moteur à essence et pompe centrifuge
 English Desc. Gaz engine and centrifugal pump

Réf.	Quantité	Produit	Description française	English Description
1	1.00	JB-LL112NY	Adapt. coudé 1 1/2"fnpt x 1 1/2"fnpt céd.80 ny	Elbow adapt. 1 1/2"fnpt x 1 1/2"fnpt ced.80 ny
2	1.00	JB-M1120NY	Mamelon court 1 1/2"mnpt x 1 1/2"mnpt céd.80 ny	Close nipple 1 1/2"mnpt x 1 1/2"mnpt ced.80 ny
3	1.00	MP-S301500PP	Valve à bille 2v 1 1/2"fnpt ny, joint EPDM	Ball valve 2v 1 1/2"fnpt ny, EPDM seal
4	1.00	JB-IMB1212NY	Adapt. droit 1 1/2"mnpt x 1 1/2"hb céd.80 ny	Straight adapt. 1 1/2"mnpt x 1 1/2"hb ced.80 ny
5	1.00	MP-G40004	Gasket 1"	1" gasket
6	3.00	LV-112PVC	Boyau vert renf., 1 1/2", 70 lb/po2, succion	Suction hose 1 1/2", green
10	2.00	DA-HS24	Collet 1 1/16" x 2"	Collar 1 1/16" x 2"
11	1.00	MP-2200601	Adapt. droit 1 1/2"mnpt céd.40 ny	Straight adapt. 1 1/2"mnpt ced.40 ny
12	1.00	MP-210060	Capuchon 1 1/2"fnpt céd.40 ny	Plug 1 1/2"fnpt ced.40 ny
13	2.00	DA-MH4	Collier de serrage 7/32" x 5/8"	Collar 7/32" x 5/8"
14	8.00	LV-142N	Boyau noir, 1/4", 200 lb/po2, 2 plis	Black hose, 1/4", 200 psi, 2 ply
15	1.00	JB-EMB0102BR	Adapt. coudé 1/8"mnpt x 1/4"hb céd.40 br	Elbow adapt. 1/8"mnpt x 1/4"hb ced.40 br
16	1.00	JB-EMB0102BR	Adapt. coudé 1/8"mnpt x 1/4"hb céd.40 br	Elbow adapt. 1/8"mnpt x 1/4"hb ced.40 br
18	1.00	JB-IMB1208NY	Adapt. droit 1 1/2"mnpt x 1"hb céd.80 ny	Straight adapt. 1 1/2"mnpt x 1"hb ced.80 ny
25	1.00	BJ-205PO	Pompe centrifuge 2" poly. seule, 5 v, (pour mot.5.5hp)	2" poly cent. pump only, (for 5.5hp engine)
26	1.00	HO-GX160K1QX	Moteur 5.5 hp Honda, oil alert	5.5 hp Honda engine, oil alert
27	1.00	JB-EL200150NY	Adapt. coudé 2"mnpt x 1 1/2"hb céd.80 ny	Elbow adapt. 2"mnpt x 1 1/2"hb ced.80 ny
28	1.00	JB-RB200112NY	Réduit 2"mnpt x 1 1/2"fnpt céd.80 ny	Reducer 2"mnpt x 1 1/2"fnpt ced.80 ny

Pompe BP, pulv. rem, aspiration 1 1/2"
 BP pump, trailer sprayer, 1 1/2" suction



	PULVÉRISATEUR MS Inc.		
	MS SPRAYER Inc.		
\\PULVAG\REMORQUE\POMPE\R765BP75R1			
DATE: 2007-11-05	PAR/ BY: D.T.		
REV: 2010-01-28	PAR/ BY: D.T.	#REV: 0	
# REC.: RE-R765BP75R1			
			APP:



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BOM

RE-R765BP75R1

REVISION

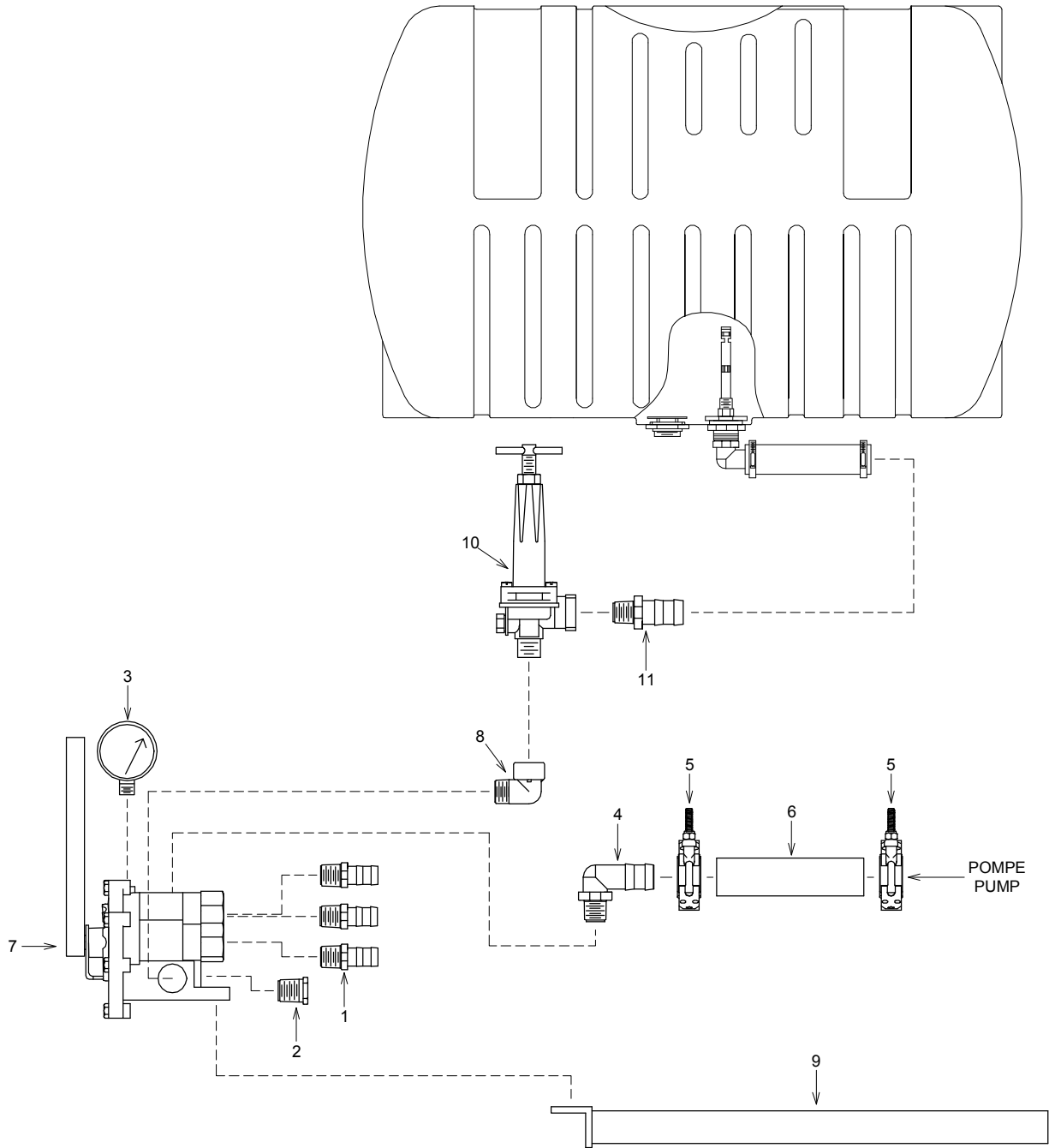
0

Desc. Française Pompe BP75, pulv. porté asp. 1 1/2" filtre 1 1/2"

English Desc. P765 PUMP, 1 1/2" SUC 1 1/2" FIL TER

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-SC17Y30	Support de controle 17y longueur de 30"	17 y control support lenght of 30"
2	2.00	DA-HS24	Collet 1 1/16" x 2"	Collar 1 1/16" x 2"
3	2.00	LV-112PVC	Boyau vert renf., 1 1/2", 70 lb/po2, suction	Suction hose 1 1/2", green
4	1.00	MP-S301500PP	Valve à bille 2v 1 1/2"fnpt ny, joint EPDM	Ball valve 2v 1 1/2"fnpt ny, EPDM seal
5	1.00	JB-M1120NY	Mamelon court 1 1/2"mnpt x 1 1/2"mnpt céd.80 ny	Close nipple 1 1/2"mnpt x 1 1/2"mnpt ced.80 ny
6	1.00	BJ-LS15050	Filtreur en Y, 1 1/2", 50 mailles	Y type filter, 1 1/2", 50 mesh
7	1.00	CO-BP75/20	Pompe à membrane 75 l/min, 18gpm,215 lbs/po2, 1 3/8	Diaphragm pump 75 l/min 18 gpm,215 psi, 1 3/8 "
8	1.00	CA-PTO0319	Arbre pdf 19", 1 3/8" x 1 3/8" 6 cannelures, série 20	Pto shaft 19", 1 3/8"6sp x 1 3/8"6sp, series 20
9	1.00	JB-EL112NY40	Adapt. coudé 1 1/2"mnpt x 1 1/2"hb céd.40 ny	Elbow adapt. 1 1/2"mnpt x 1 1/2"hb ced.40 ny
10	1.00	MP-1166401	Adapt. coudé 1 1/2"pfbps x 1 1/2"hb céd.40 ny	Elbow adapt. 1 1/2"hb x 1 1/2"fnpt ced.40 ny
11	2.00	DA-HS24	Collet 1 1/16" x 2"	Collar 1 1/16" x 2"
12	2.00	LV-112PVC	Boyau vert renf., 1 1/2", 70 lb/po2, suction	Suction hose 1 1/2", green
13	1.00	MS-SPR19A	Plaque support de pompe BP75	BP75 pump base plate
14	1.00	MS-SPR19B	Tube support de pompe BP75	BP75 pump base tube

Cont. man. 290 lb/po²
 17L man. cont. 290 lb/po²

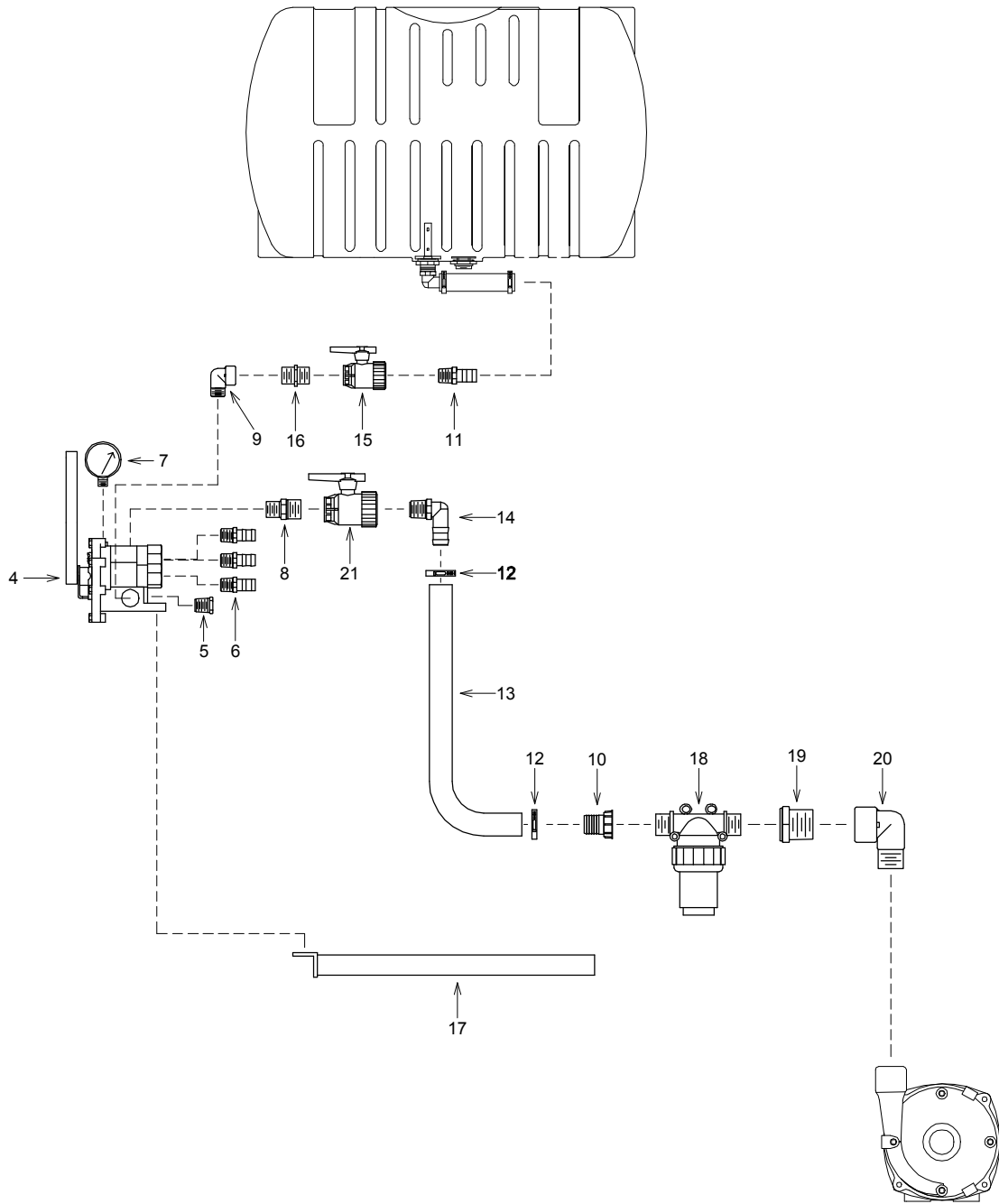


PULVAG PORTE CONTROLE PCM17		
DATE: 1999-04-12	PAR/ BY: G.L.	
REV: 2008-02-11	PAR/ BY: D.T.	#REV: 1
# REC.: RE-PCM17134		
RE-PCM17112		
		APP:

Desc. Française **Cont. man. 290 lb/po², sortie 1/2", retour 1'**
 English Desc. **171 man. cont. 290 lb/po², 1/2" outlet, 1" ret.**

Réf.	Quantité	Produit	Description française	English Description
1	3.00	JB-IMB0604BR	Adapt. droit 3/4"mnpt x 1/2"hb x céd.40 br.	Straight adapt. 3/4"mnpt x 1/2"hb x ced.40 br.
1	3.00	JB-IMB0606BR	Adapt. droit 3/4"mnpt x 3/4"hb céd.40 br.	Straight adapt. 3/4"mnpt x 3/4"hb ced.40 br.
2	1.00	JB-VMM0006NY40	Bouchon 3/4"mnpt céd.40 ny	Plug 3/4"mnpt ced.40 ny
3	1.00	JB-025FF00300	Cadran mont. vert. 1/4"mnpt 0 à 300 lb/po ² x21/2"l br	Top mount gage 1/4"mnpt 0 to 300 psi x 2 1/2"l br
4	1.00	JB-EL3410NY	Adapt. coudé 3/4"mnpt x 1"hb céd.80 ny	Elbow adapt. 3/4"mnpt x 1"hb ced.80 ny
5	2.00	AS-3740	Collier de serrage mikalor / boyau 1"	Mikalor collar / 1" hose
6	6.00	LV-12N300	Boyau noir, 1", 300 lb/po ² , 2 plis	Black hose 1", 2 ply, 300 psi
7	1.00	MS-17L	Cont. man. 3 sect. avec traitement anti-corrosion	3 sect.3/4"boom control
8	1.00	JB-SE34NY	Adapt. coudé 3/4"mnpt x 3/4"fnpt céd.80 ny	Elbow adapt. 3/4"mnpt x 3/4"fnpt ced.80 ny
9	1.00	MS-SC17Y	Support de controle 17y	17y control support
10	1.00	MS-846034300	Régulateur 3/4" x 300 lb/po ²	Regul.ator 3/4" x 300 psi
11	1.00	JB-IMB0608NY40	Adapt. droit 3/4"mnpt x 1"hb céd.40 ny.	Straight adapt. 3/4"mnpt x 1"hb ced.40 ny.

Cont. man. 17l, pulv. porté pompe cent.
 17l man. control, 3 pts hitch centrifugal pump



PULVÉRISATEUR MS Inc.
MS SPRAYER Inc.

I\PULVAG\PORTE\CONTROLE\PCM17C		
DATE: 2004-07-07	PAR/ BY: E.L.	
REV: 2004-10-18	PAR/ BY: E.L.	#REV: 1
# REC.:		
		APP:

APPROUVÉ LE: 2004-11-03 13:09:32 PAR: LANDIEG



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BOM

RE-PCM17C112

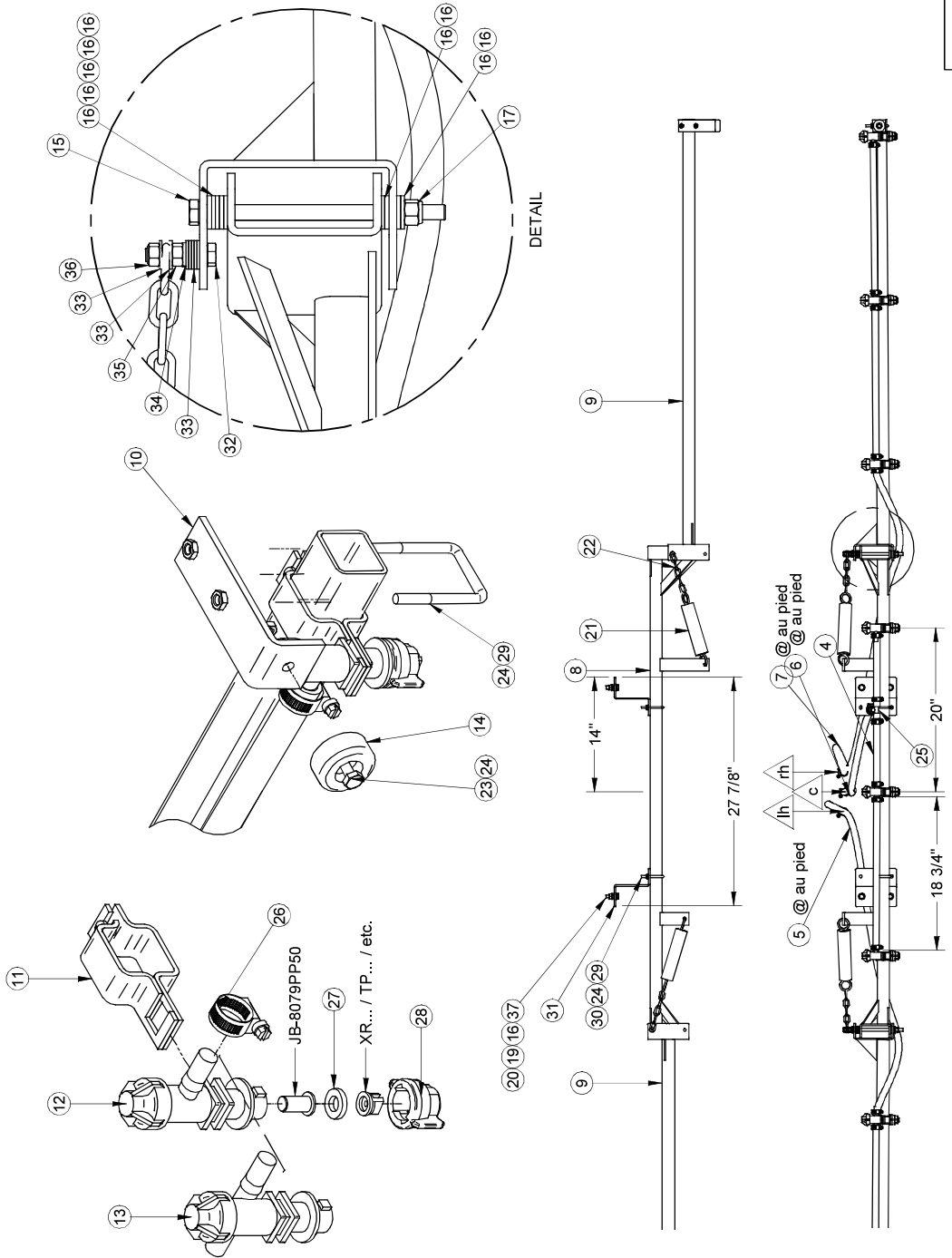
REVISION

2

Desc. Française Cont. man. 17l, pulv. porté pompe cent.
English Desc. 17l man. control, 3 pts hitch centrifugal pump

Réf.	Quantité	Produit	Description française	English Description
4	1.00	MS-17L	Cont. man. 3 sect. avec traitement anti-corrosion	3 sect.3/4"boom control
5	1.00	JB-VMM0006NY40	Bouchon 3/4"mnpt céd.40 ny	Plug 3/4"mnpt ced.40 ny
6	3.00	JB-IMB0606BR	Adapt. droit 3/4"mnpt x 3/4"hb céd.40 br.	Straight adapt. 3/4"mnpt x 3/4"hb ced.40 br.
6	3.00	JB-IMB0604BR	Adapt. droit 3/4"mnpt x 1/2"hb x céd.40 br.	Straight adapt. 3/4"mnpt x 1/2"hb x ced.40 br.
7	1.00	JB-CP26387100	Cadran mont. vert. 1/4"mnpt 0 à 100 lb/po2x21/2"s br	Bottom mount gage 1/4"mnpt 0 to 100 psix2 1/2"s br
8	1.00	BJ-RN100075	Mamelon réducteur 1"mnpt x 3/4"mnpt céd.80 ny	Nipple red. 1"mnpt x 3/4"mnpt ced.80 ny
9	1.00	JB-SE34NY	Adapt. coudé 3/4"mnpt x 3/4"fnpt céd.80 ny	Elbow adapt. 3/4"mnpt x 3/4"fnpt ced.80 ny
10	1.00	MP-1164251	Adapt. coudé 1"pfbps x 1"hb céd.40 ny	Elbow adapt. 1"fnpt x 1"hb ced.40 ny
11	1.00	JB-IMB0606NY40	Adapt. droit 3/4"mnpt x 3/4"hb céd.40 ny.	Straight adapt. 3/4"mnpt x 3/4"hb ced.40 ny.
12	2.00	DA-SHAS16	Collier de serrage en acier inox. 11/16" x 1 1/2"	Stainless collar 11/16" x 1 1/2"
13	3.00	LV-12N	Boyau noir, 1", 150 lb/po2, caoutchouc 2 plis uni	Black hose, 1", 150 psi, rubber smooth 2 pli
14	1.00	JB-EL1010NY	Adapt. coudé 1"mnpt x 1"hb céd.80 ny	Elbow adapt. 1"mnpt x 1"hb ced.80 ny
15	1.00	MP-S301250PP	Valve à bille 2v 3/4"fnpt ny, joint EPDM	Ball valve 2v 3/4"fnpt ny, EPDM seal
16	1.00	JB-M3400NY40	Mamelon court 3/4"mnpt x 3/4"mnpt céd.40 ny	Close nipple 3/4"mnpt x 3/4"mnpt ced.40 ny
17	1.00	MS-SC17Y	Support de controle 17y	17y control support
18	1.00	AU-8110009	Filtreur 1" mbsp x 1" mbsp, 290 lbs/po2, 50 mailles	Strainer 1" mbsp x 1" mbsp, 290 psi, 50 mesh
19	1.00	JB-RB1141NY	Réduit 1 1/4"mnpt x 1"fnpt céd.80 ny	Reducer 1 1/4"mnpt x 1"fnpt ced.80 ny
20	1.00	JB-SE114NY	Adapt. coudé 1 1/4"mnpt x 1 1/4"fnpt céd.80 ny	Elbow adapt. 1 1/4"mnpt x 1 1/4"fnpt ced.80 ny
21	1.00	MP-S301320PP	Valve à bille 2v 1"fnpt ny, joint EPDM	Ball valve 2v 1"fnpt ny, EPDM seal

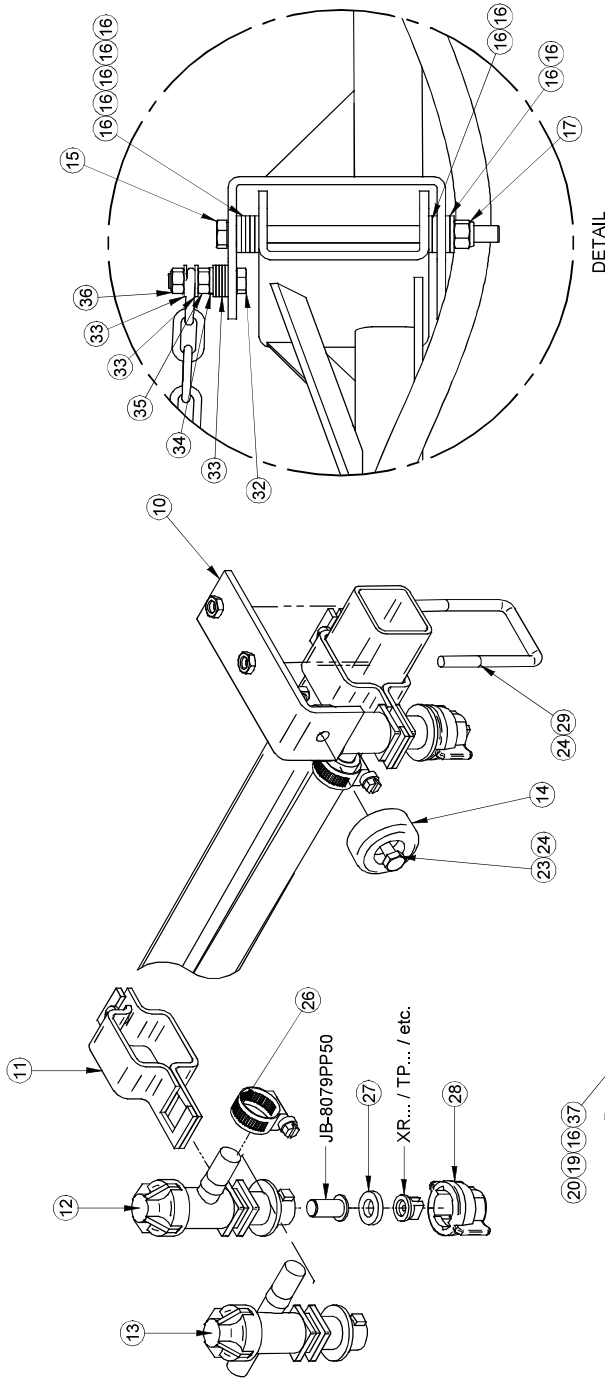
#	Ref.	Q.	L"
1	AS-121N	1	18 3/4"
2	AS-121N	2	18 3/4"
2	AS-121N	2	18 3/4"
3	AS-121N	2	18 3/4"
4	AS-121N	2	9"
5	AS-121N	1	(196")
6	AS-121N	1	(166")
7	AS-121N	1	(196")



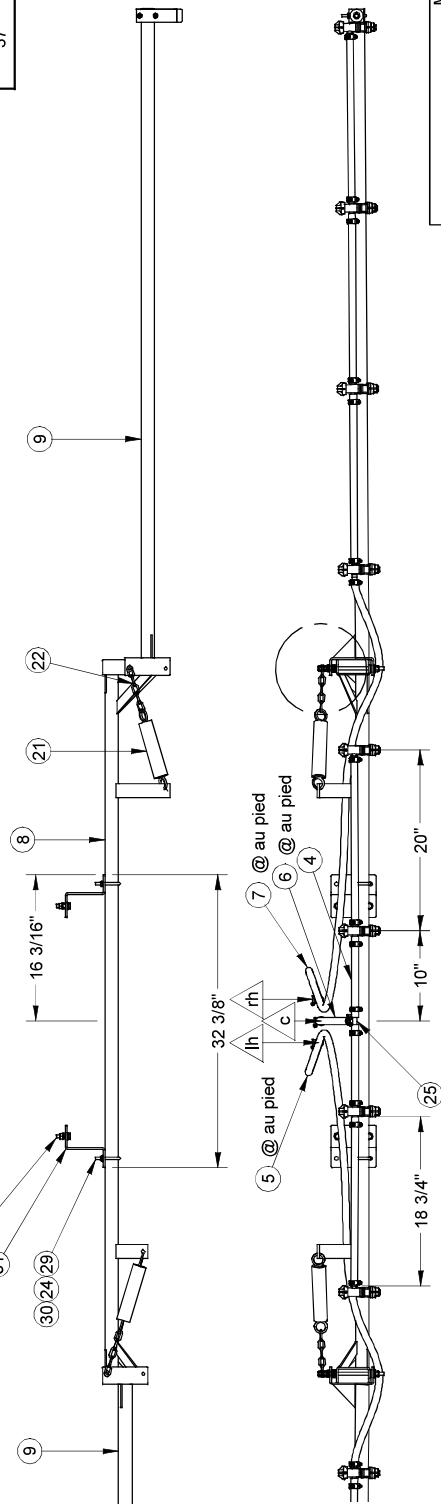
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9	MS-BR15B	2
10	MS-BR20C	2
11	JB-QJ11SQ112	9
12	JB-22251311500N	4
13	JB-22252312500N	5
14	SN-RB115	2
15	BT-386	2
16	BT-FW38	22
17	BT-LN38	2
19	BT-LW38	4
20	BT-N38	4
21	MS-E15001778000	2
22	MO-CH5MMP5M	2
23	BT-1434	2
24	BT-LN14	10
25	JB-T12NY40	1
26	DA-HS6	21
27	JB-CP19438EPR	9
28	JB-CP256114NY	9
29	AU-UB14112214	4
30	BT-FW14	4
31	MS-BR20DR2	2
32	BT-516112	2
33	BT-FW516	14
34	BT-LW516	2
35	BT-N516	2
36	BT-LN516	2
37	BT-38114	4

2007/02/16	MS-R15MHR2.asm	Rev. 0	Pg:1-1
MS-R15MHR2.dft			MS-R15MHR2

#	Ref.	Q.	L"
1	AS-121N	1	18 3/4"
2	AS-121N	2	18 3/4"
2	AS-121N	2	18 3/4"
3	AS-121N	3	18 3/4"
4	AS-121N	2	9"
5	AS-121N	1	(210")
6	AS-121N	1	(166")
7	AS-121N	1	(210")

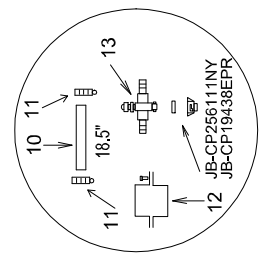
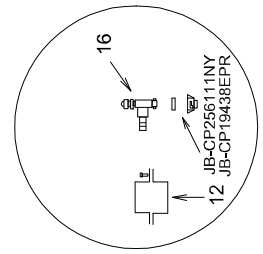
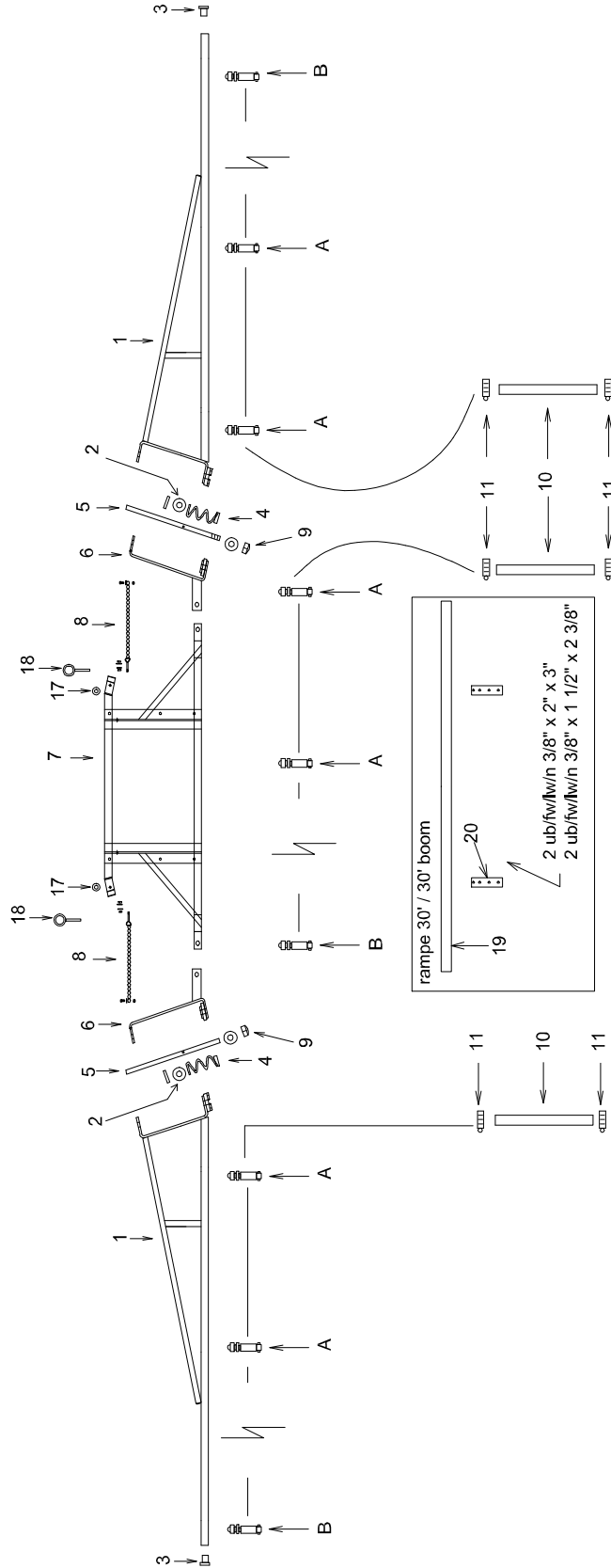


#	Ref.	Q.
8	MS-BR20A	1
9	MS-BR20B	2
10	MS-BR20C	2
11	JB-QJ11SQ112	12
12	JB-22251311500N	4
13	JB-22252312500N	8
14	SN-RB115	2
15	BT-386	2
16	BT-FW38	22
17	BT-LN38	2
19	BT-LW38	4
20	BT-N38	4
21	MS-E15001778000	2
22	MO-CH5MMP5M	2
23	BT-1434	2
24	BT-LN14	10
25	JB-T12NY40	1
26	DA-HS6	26
27	JB-CP19438EPR	12
28	JB-CP256114NY	12
29	AU-UB14112214	4
30	BT-FW14	4
31	MS-BR20DR2	2
32	BT-516112	2
33	BT-FW516	14
34	BT-LW516	2
35	BT-N516	2
36	BT-LN516	2
37	BT-38114	4



2010/04/06	MS-R20MH.dft	MS-R20MH.asim	Pg:1-1
		Rev. 0	
		MS-R20NH	

Rampe man. vert. 15' 3 sect. 9 jets au 20" boy. 1/2" MANUAL FOLDING BOOM, 15', VERTICAL FOLDING



MS		PULVÉRISATEUR MS Inc.	
		MS SPRAYER Inc.	
IPULVAGIRAMPEISTRUCUREIR15MVR1			
DATE: 1997-05-07	PAR _{By} : R.D.		
REV: 2004-04-12	PAR _{By} : G.L.	#REV: 2	
# REC.: RE-R15MVR1 / 2 (15') RE-R30MVR1 / 2 (30')			
RE-R18MVR1 / 2 (18')			
RE-R22MVR1 / 2 (22')			
APP: <i>AL</i>			



MS Gregson Inc.

4300 rue Vachon, Drummondville QC J2B 6V4, Canada
Tél.: 819 474-1910 • Fax : 819 474-5317 • orders@msgregson.com

BOM

MS-R15MVR1

REVISION

0

Desc. Française Rampe manuel 15' verticale, bo yau 1/2" ass., 9 buses aux 20"

English Desc. 15' manual vertical fold boom, 1/2" hose, 9 nozzles at 20"

Réf.	Quantité	Produit	Description française	English Description
1	2.00	MS-BR7MC	Extension rampe r18mv-r22mv	Boom extention / r18mv-r22mv
2	2.00	BT-FW34SP	Rondelle plate 3/4" ID, 2" OD	Flat washer 3/4"
3	2.00	AU-SQ11212	Bouchon 1 1/2-12, carré en plastique	Square cap plug 1 1/2"-12
4	2.00	MS-F42790	Ressort 6" x 1 3/4" x 3/8"	6" x 1 3/4" x 3/8" spring
5	2.00	MS-FR0012	Gond 3/4" x 20", filet	Threaded 3/4" x 20" hinge
6	2.00	MS-BR7MB	Pivot rampe manuelle 7m	23' manual boom hinge
7	1.00	MS-BR7MA	Centre de rampe 15' a 22'	Boom center 15' to 22'
8	2.00	MS-BR7MD	Chaine et crochet / r15 a r22'	Chain and hook / 15'-22' boom
9	4.00	BT-LN34	Écrou freiné nylon 3/4 unc	Locknut nylon 3/4 unc
10	49.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi
11	18.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
12	9.00	JB-QJ111SQ112	Support 1 1/2" tube carré / trou carré	Square bracket 1 1/2"
13	6.00	JB-22252312500N	Support moule/ jet 2 entrées 1/2"	Moulded holder/ jet 2 inlet 1/2"
16	3.00	JB-22251311500N	Support moule/ jet 1 entrée 1/2"	Moulded holder/ jet 1 inlet 1/2"
17	2.00	SN-4055	Bumper rubber	Bumper rubber
18	2.00	AU-HP0612	Goupille 3/8" x 3" longueur utilisable	Pin 3/8" x 3"



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BOM

MS-R18MVR1

REVISION

0

Desc. Française Rampe manuel 18' verticale, bo yau 1/2" ass., 11 buses aux 2

English Desc. 18' manual vertical fold boom, 1/2" hose, 11 nozzles at 20"

Réf.	Quantité	Produit	Description française	English Description
1	2.00	MS-BR7MC	Extension rampe r18mv-r22mv	Boom extention / r18mv-r22mv
2	2.00	BT-FW34	Rondelle plate 3/4"	Flat washer 3/4"
3	2.00	AU-SQ11212	Bouchon 1 1/2-12, carré en plastique	Square cap plug 1 1/2"-12
4	2.00	MS-F42790	Ressort 6" x 1 3/4" x 3/8"	6" x 1 3/4" x 3/8" spring
5	2.00	MS-FR0012	Gond 3/4" x 20", filet	Threaded 3/4" x 20" hinge
6	2.00	MS-BR7MB	Pivot rampe manuelle 7m	23' manual boom hinge
7	1.00	MS-BR7MA	Centre de rampe 15' a 22'	Boom center 15' to 22'
8	2.00	MS-BR7MD	Chaine et crochet / r15 a r22'	Chain and hook / 15'-22' boom
9	4.00	BT-LN34	Écrou freiné nylon 3/4 unc	Locknut nylon 3/4 unc
10	52.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi
11	22.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
12	11.00	JB-QJ111SQ112	Support 1 1/2" tube carré / trou carré	Square bracket 1 1/2"
13	8.00	JB-22252312500N	Support moule/ jet 2 entrées 1/2"	Moulded holder/ jet 2 inlet 1/2"
16	3.00	JB-22251311500N	Support moule/ jet 1 entrée 1/2"	Moulded holder/ jet 1 inlet 1/2"
17	2.00	SN-4055	Bumper rubber	Bumper rubber
18	2.00	AU-HP0612	Goupille 3/8" x 3" longueur utilisable	Pin 3/8" x 3"



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BOM

MS-R22MVR1

REVISION

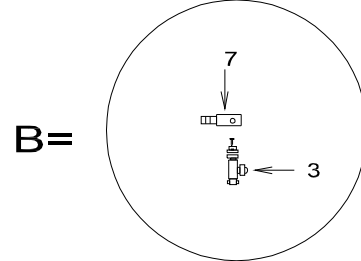
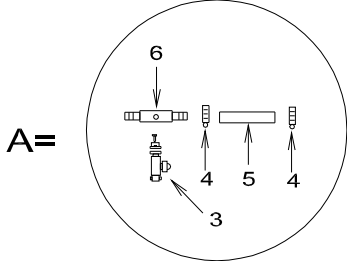
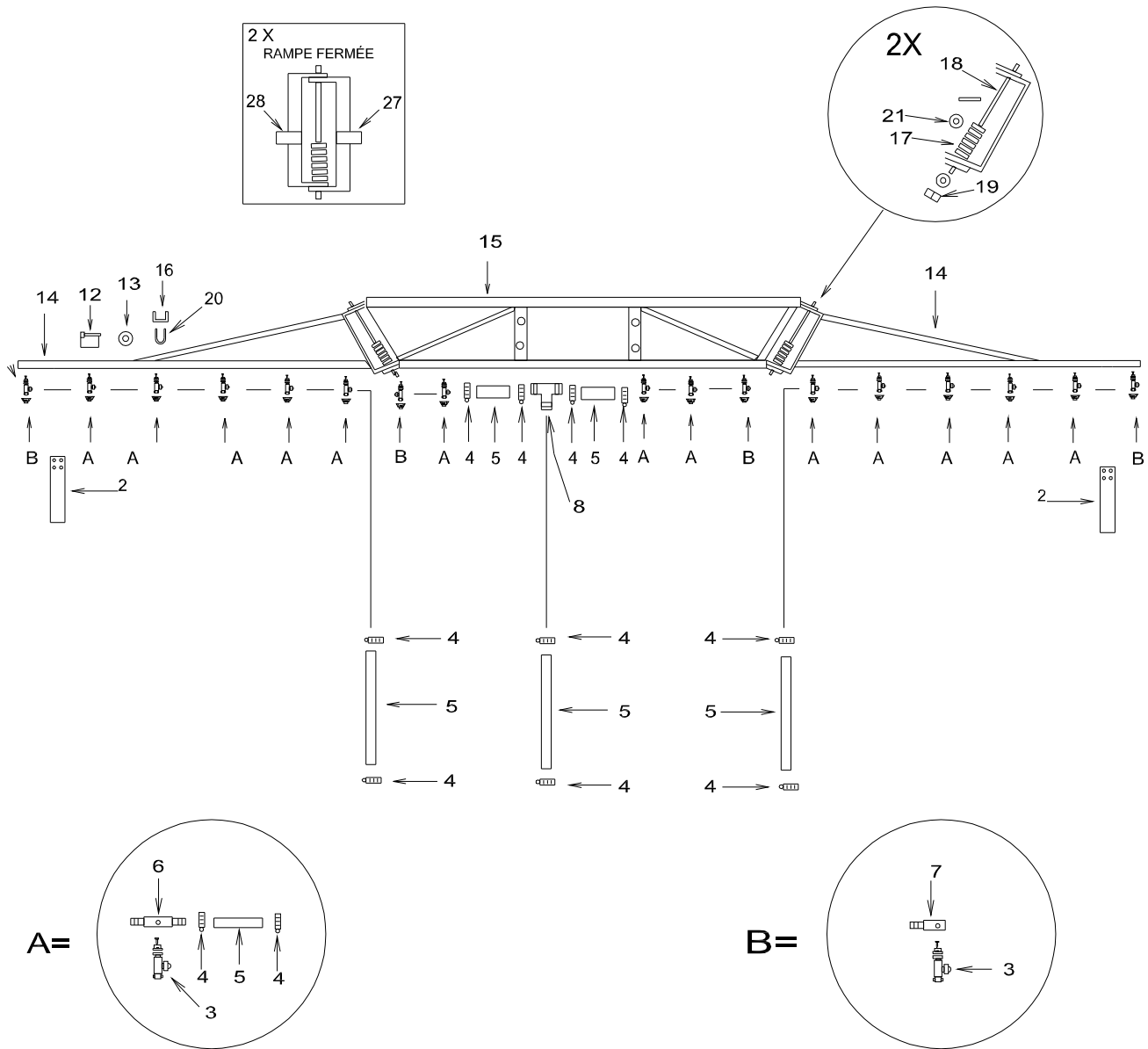
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Desc. Française Rampe manuel 22' vertical, bo yau 1/2" ass. 13 buses aux 20"

English Desc. 22' manual vertical fold boom, 1/2" hose, 13 nozzles at 20"

Réf.	Quantité	Produit	Description française	English Description
1	2.00	MS-BR7MC	Extension rampe r18mv-r22mv	Boom extention / r18mv-r22mv
2	2.00	BT-FW34	Rondelle plate 3/4"	Flat washer 3/4"
3	2.00	AU-SQ11212	Bouchon 1 1/2-12, carré en plastique	Square cap plug 1 1/2"-12
4	2.00	MS-F42790	Ressort 6" x 1 3/4" x 3/8"	6" x 1 3/4" x 3/8" spring
5	2.00	MS-FR0012	Gond 3/4" x 20", filet	Threaded 3/4" x 20" hinge
6	2.00	MS-BR7MB	Pivot rampe manuelle 7m	23' manual boom hinge
7	1.00	MS-BR7MA	Centre de rampe 15' a 22'	Boom center 15' to 22'
8	2.00	MS-BR7MD	Chaine et crochet / r15 a r22'	Chain and hook / 15'-22' boom
9	4.00	BT-LN34	Écrou freiné nylon 3/4 unc	Locknut nylon 3/4 unc
10	55.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi
11	26.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
12	13.00	JB-QJ111SQ112	Support 1 1/2" tube carré / trou carré	Square bracket 1 1/2"
13	10.00	JB-22252312500N	Support moule/ jet 2 entrées 1/2"	Moulded holder/ jet 2 inlet 1/2"
16	3.00	JB-22251311500N	Support moule/ jet 1 entrée 1/2"	Moulded holder/ jet 1 inlet 1/2"
17	2.00	SN-4055	Bumper rubber	Bumper rubber
18	2.00	AU-HP0612	Goupille 3/8" x 3" longueur utilisable	Pin 3/8" x 3"

Bâti de rampe manuel 28', R85F 17 jets au 20", 1/2"
 28' manual boom frame, R85F 17 nozzles at 20", 1/2"



		PULVÉRISATEUR MS Inc.	
		MS SPRAYER Inc.	
I/PULVAG/GRAMPE/STRUCTURE/R85FR5			
DATE: 1997-04-27	PAR/ BY: G.L.		
REV: 2002-11-04	PAR/ BY: P.B.	#REV: 3	
# REC.: RE-R85FR5			
			APP:

APPROUVÉ LE: 2003-03-20 09:04 PAR: HOUDEB

Desc. Française Rampe man. 28' 8.5m bo yau 1/2" 17 jets ass.

English Desc. 28 ft, 8.5m boom complete

Réf.	Quantité	Produit	Description française	English Description
2	2.00	MS-PAEXT01	Un patin d'ext./ r8.5f	One ext. skate /r8.5f
3	17.00	JB-QJ1756012	Support de buse simple 1/2"	Nylon jet support 1/2"
4	36.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
5	75.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi
6	13.00	MP-427313	Adapt.droit 1/2"2 entr.10mm pilot***	Support1/2" 2 inlets 10mm pilo***
7	4.00	MP-426313	Adapt.droit 1/2" 1 entree 10mm pil***	Support 1/2" 1 inlet 10mm pilo***
8	1.00	JB-T12NY40	Adapt. en t 1/2"hb x 1/2"hb x 1/2"hb céd.40 ny.	T adapt. 1/2"hb x 1/2"hb x 1/2"hb ced.40 ny.
12	1.00	AU-QP460SQ	Goupille anneau carré	Quick pin square ring
13	1.00	SN-4055	Bumper rubber	Bumper rubber
14	2.00	MS-BR85BR1	1 extension rampe 28' r85f	1 boom extension 28' r85f
15	1.00	MS-BR85AR1	Centre de rampe 8.5m 22 et 28'	Central frame 8.5m boom 22 &28
16	1.00	MS-BR85DR1	Barrure de fermeture r28'	Extension lock 28' boom
17	2.00	MS-F42790	Ressort 6" x 1 3/4" x 3/8"	6" x 1 3/4" x 3/8" spring
18	2.00	MS-FR0016	Gond 3/4" x 17", filet	Threaded 3/4" x 17" hinge
19	2.00	BT-LN34	Écrou freiné nylon 3/4 unc	Locknut nylon 3/4 unc
20	2.00	AU-UB141134	Boulon en U, carré 1/4 x 1 x 1 3/4	Sq u-bolt 1/4 x 1 x 1 3/4
21	2.00	BT-FW34	Rondelle plate 3/4"	Flat washer 3/4"
27	2.00	MS-AC2X3J	Autocollant bande réfléchissante jaune 1" x 3"	Yellow sticker 1"x 3"
28	2.00	MS-AC2X3R	Autocollant bande réfléchissante rouge 2" x 3"	Red sticker 2" x 3"



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BOM

RE-PE3R85FQ

REVISION

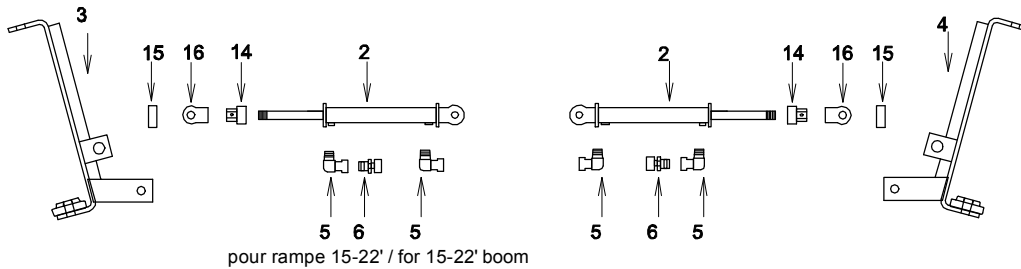
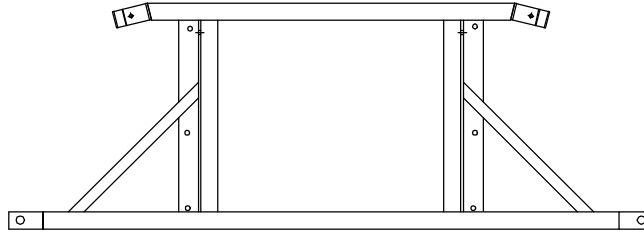
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Desc. Française Plomb. eau 3 sect., 28' MA 17 buses mult. 20"

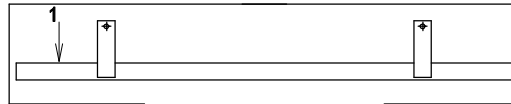
English Desc. 3 sect. water plumb., 28' MA 17 mult. nozzles at 20"

Réf.	Quantité	Produit	Description française	English Description
3	17.00	JB-QJ36334NYB	Support de buse triple pour tuyau 3/4"	Triple nozzle body for 3/4" pipe
6	13.00	JB-CP38937NYB	Adapt. droit double sortie 1/2"***	Double shank 1/2" hose***
7	4.00	JB-CP38936NYB	Adapt. droit 1/2"hb simple ny.***	Straight adapt. 1/2"hb single ny.***

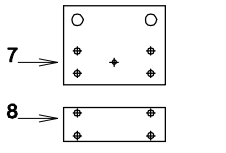
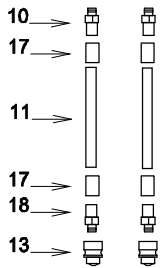
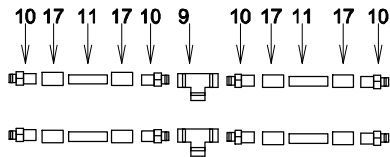
Ens. d'ouverture cylindres hyd.
folding kit, hydraulic cylinder



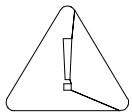
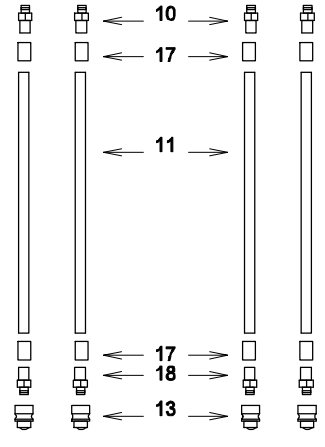
pour rampe 15-22' / for 15-22' boom



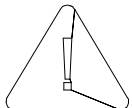
OUVERTURE SIMULTANÉE/
SIMULTANEOUS FOLDING



OUVERTURE INDEPENDANTE/
INDEPENDENT FOLDING



MISE EN GARDE
VOUS DEVEZ TOUJOURS ARRÊTER DE VOUS
DÉPLACER POUR DÉPLIER OU REPLIER UNE
OU PLUSIEURS SECTIONS DE LA RAMPE HYDRAULIQUE



WARNING
YOU MUST ALWAYS STOP MOVING WHEN FOLDING OR
UNFOLDING ONE OR MORE SECTIONS OF AN
HYDRAULIC BOOM



PULVÉRISATEUR MS Inc.
MS SPRAYER Inc.

\\PULVAG\RAMPE\PLOMB-HYDR\1522VHYD

DATE: 1999-04-14

PAR_{/BY}: G.L.

REV: 2006-05-19

PAR_{/BY}: D.T.

#REV: 1

REC.: RE-R1522VHYD

RE-R1522VHYDS

APP:

APPROUVÉ LE: 2006-05-19 16:01:33 PAR: LANDIEG



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BOM

RE-R1522VHYDS

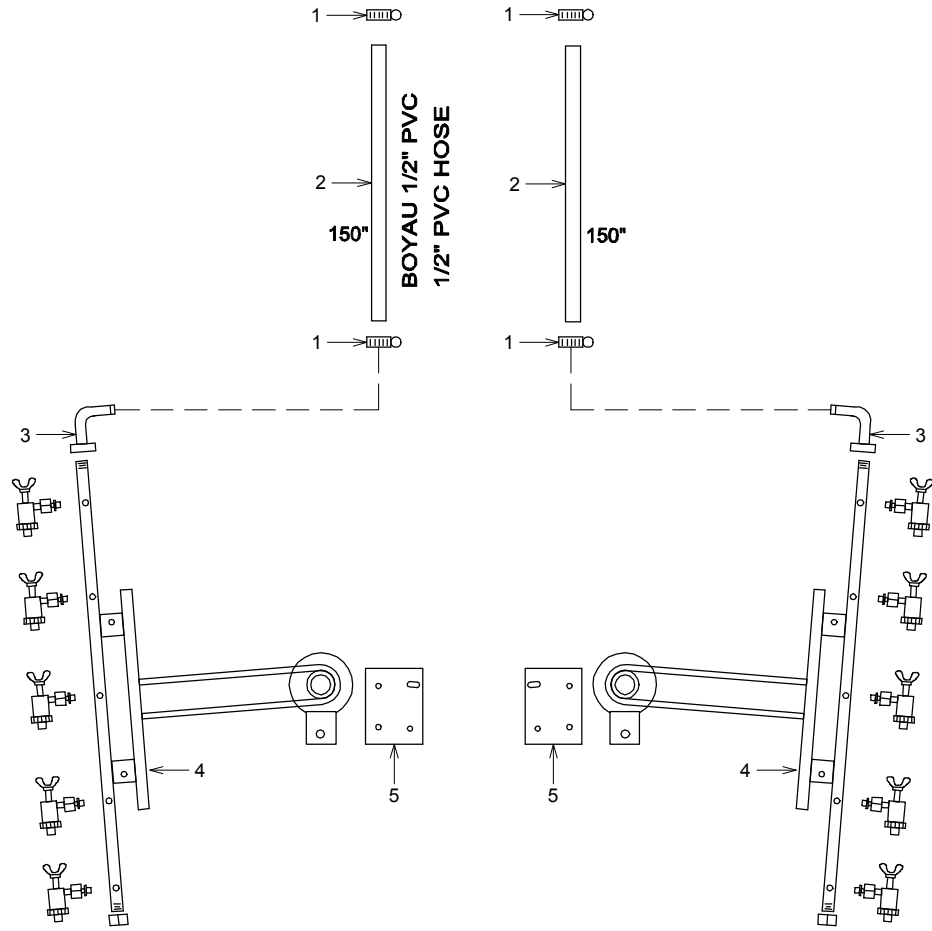
REVISION

0

Desc. Française Ens. d'ouverture simultanée, c ylindres h yd.
English Desc. Cylinder kit/hose/sim. opening/ 2 h yd. outlets

Réf.	Quantité	Produit	Description française	English Description
1	1.00	MS-BR7MHE	Sup. jets rampe hyd. 15' a 22'	Jet sup. 15' to 22' hyd. boom
2	2.00	MI-648400	VOIR MI-648400R1 Cyl. ASAE 2 1/2" x 8" x 1 1/8" nt	VOIR MI-648400R1 : Cylinder ASAE 2 1/2" x 8" x 1 1/8"
3	1.00	MS-BR7MHB	Bâti pivot hydraulic c.d. rampe 23'	Right hinge 15'to 22' hyd.boom
4	1.00	MS-BR7MHC	Bâti pivot hydraulic c.g. rampe 23'	Left hinge hyd. boom 15'to 22'
5	4.00	MO-951586	Adapt. coudé 3/4-16morb x 3/8"pfnpt céd.80 pl	Elbow adapt. 3/4-16morb x 3/8"pfnpt ced.80 pl
6	2.00	MO-HSR661	Orifice 3/8"mnpt x 3/8"pfnpt. percé à 0.0312"	Resrtrictor 3/8"mnpt x 3/8"pfnpt 1/32" pl
7	1.00	MS-BR7MHA	Att. cyl. rampe hyd. 15' a 22'	Cyl. att. 15' to 22' hyd.boom
8	1.00	MS-BR7MHD	Renfort d'attache de cylindre	Att. reinforcement / hyd.boom
9	2.00	AU-IS70T7266	Raccord en T 3/8"pfnpt céd.80 pl.	T adapt. 3/8"pfnpt ced.80 pl.
10	10.00	AU-ISN1064	Raccord droit 3/8"mnpt x 1/4"hb céd.80 pl	Straight fitt. 3/8"mnpt x 1/4"hb ced.80 pl
11	24.00	FH-H14	Boyau hydraulique 1/4", 1pli, 3000 lbs/po2	Hyd. hose 1/4", 1 ply, 3000 psi
13	2.00	MO-80104	Qc à bille fermé hyd. mâle 1/2" x 1/2"fnpt pl***	Close ball coupler male 1/2" x 1/2"fnpt pl***
14	2.00	MS-BRH18PR2	Limiteur de cylindre tige 1 1/8" (barrure par écrou)	Adjustable stroke contol 1 1/8 (lock by nut)
15	2.00	MO-419396	Tige de cylindre 1"di x 3 3/8"	Cylinder pin 1"di x 3 3/8"
16	2.00	MO-437393	Main de cylindre, filet 1 1/8" x tige 1"	Cylinder clamp thread 1 1/8"
17	12.00	AU-IS4SCF	Ferrule 1/4" céd.80 pl.	Ferrule 1/4" ced.80 pl.
18	2.00	AU-ISN1084	Raccord droit 1/2"mnpt x 1/4"hb céd.80 pl	Straight fitt. 1/2"mnpt x 1/4"hb ced.80 pl

RAMPE VERTICALE 5150 VERTICAL BOOM 5150



PULVÉRISATEUR MS Inc.	
MS SPRAYER Inc.	
\\PULVAG\RAMPE\STRUCTURE\RV5150R5	
DATE: 1997-09-10	PAR/ BY: G.L.
REV: 2005-12-22	PAR/ BY: D.T. #REV: 2
# REC.: RE-RV5150R5	
APP:	

APPROUVÉ LE: 2005-12-22 16:48:27 PAR: LANDIEG



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BOM

RE-RV5150R5

REVISION

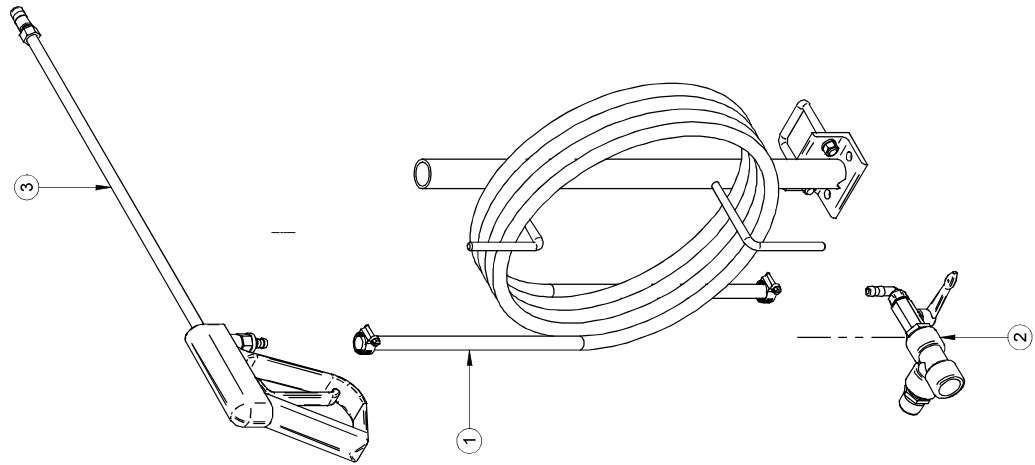
2

Desc. Française Rampe verticale 2 x 5 buses x 28 cm, boyau 1/2"

English Desc. Vertical boom, 2 x 5 nozzles x 28 cm, 1/2" hose

Réf.	Quantité	Produit	Description française	English Description
1	4.00	DA-HS6	Collet 3/8" x 7/8"	Collar 3/8" x 7/8"
2	25.00	AS-121N	Boyau gris, 1/2", 300 lbs/po2, PVC	Grey PVC hose 1/2", 300 psi
3	2.00	MP-1636046	Coude 1/2" en laiton / b-valve	Elbow 1/2" brass / b-valve
4	1.00	MP-5150	Rampe verticale 005150 120cm***	Vertical boom 005150 120cm***
5	2.00	MS-PIRV	Plaque d'interface rampe verticale	Interface plate for vertical boom

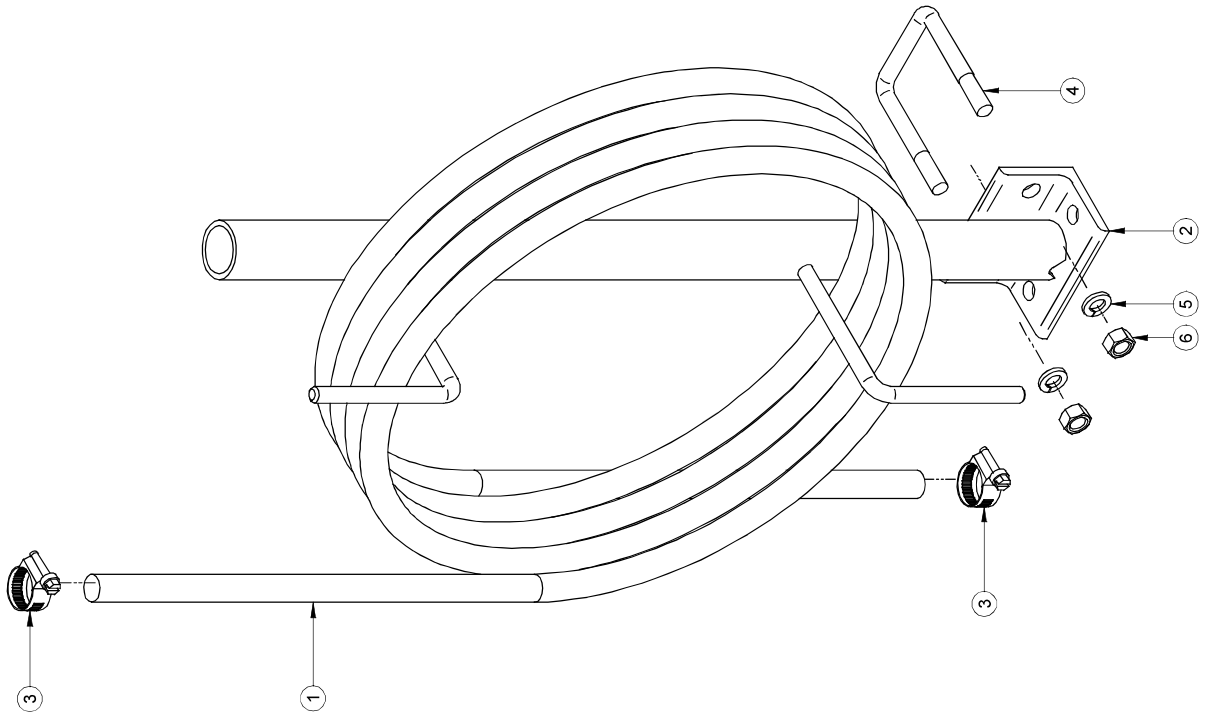
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1	RE-PPSB25037	1
2	RE-ACL037	1
3	RE-FU18A18037	1



2008/02/19	RE-FU25SSR6.asm	Rev. 0	Pg:1-1
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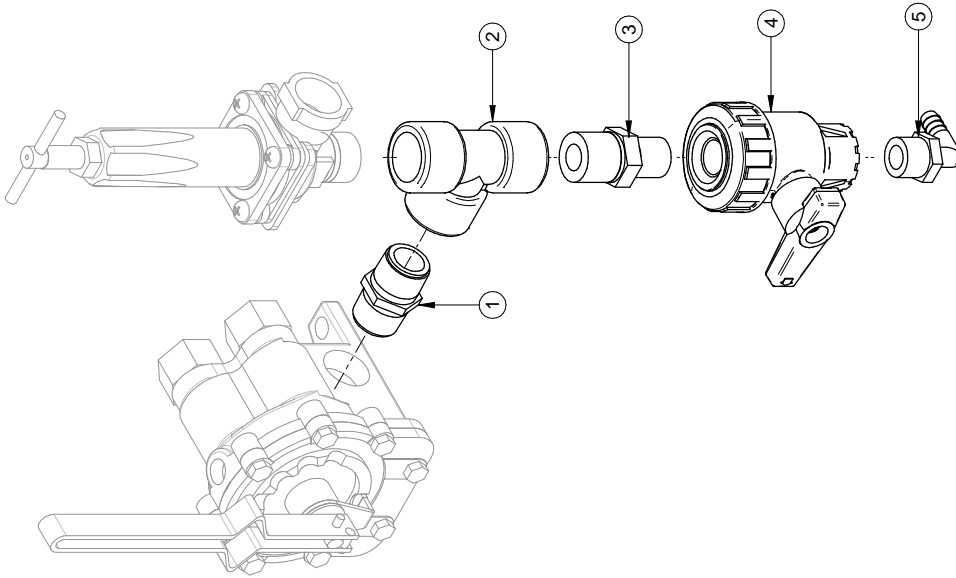
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1	AS-381N	1	300 "

#	Ref.	Q.
2	MS-SBF	1
3	DA-HS6	2
4	AU-UB3823	1
5	BT-LW38	2
6	BT-N38	2



2008/02/19	RE-PPSB25037.asm	Rev. 0	Pg:1-1
	RE-PPSB25037.dft		RE-PPSB25037

#	REF.	Q.
1	JB-M3400NY	1
2	JB-TT34NY	1
3	JB-RMM0406NY	1
4	MP-S301200PP	1
5	JB-EL1238NY	1



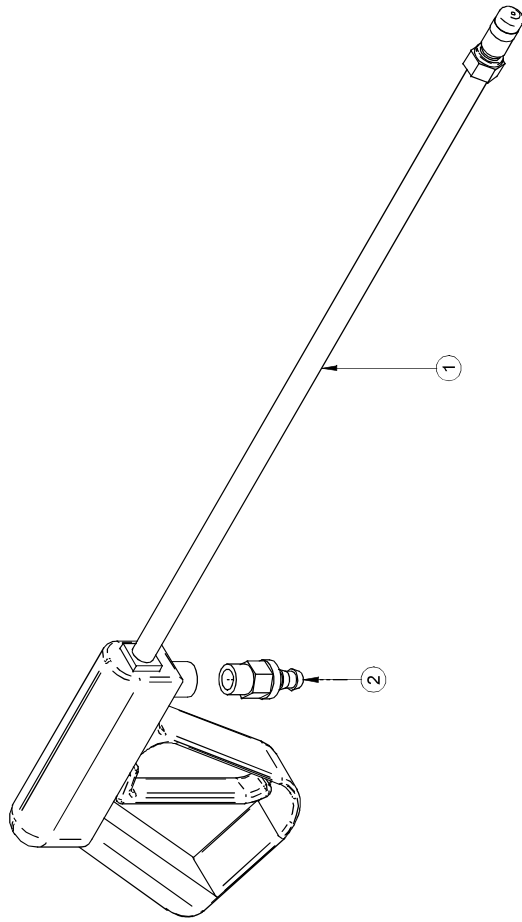
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POUCE SAUF SI SPECIFIÉ
VALUES ARE INCHES
UNLESS OTHERWISE SPECIFIED
2- TOLERANCES GENERALES
Frac.: ± 1/16"
X.X: ± 0.01"
X.XX: ± 0.005"
X.XXX: ± 0.0025"

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# FEUILLE / SHEET #	DATE CREATION	CRÉATEUR / CREATOR	REVISION DATE	PAGE
RE-ACL037	2023-03-15	fogaingf	2023-03-15	1 of 1
DESCRIPTION			REVISION PAR / BY	REVISION
Adaptateur de boyau 3/8" pour contrôle 17L			fogaingf	1
#DESSIN / DRAWING #			ECHELLE / SCALE	
RE-ACL037			1:4	

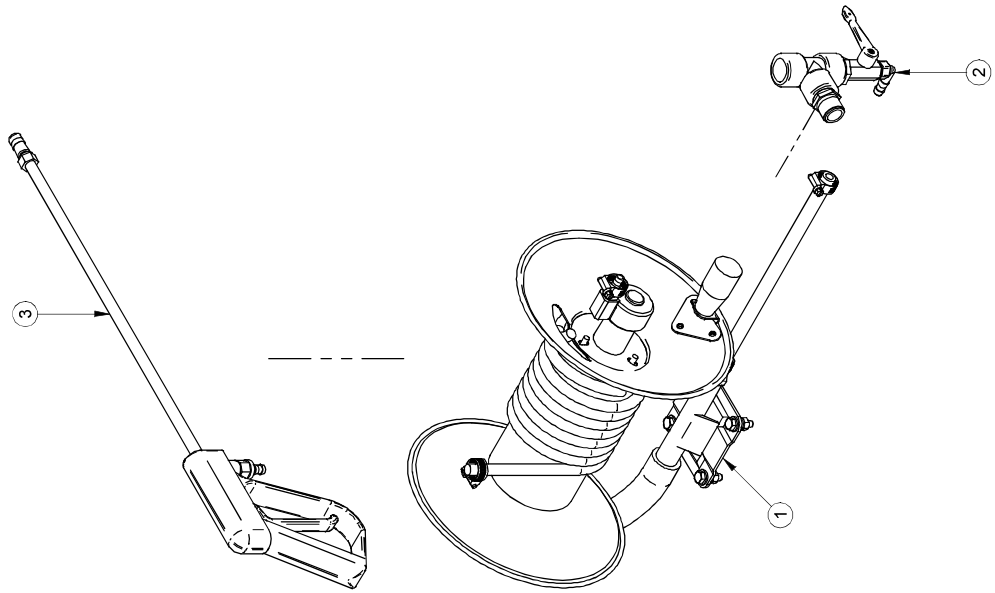
Rev	Description	Date	Approbation
Rev1	JB-RMM0406NY (Matr.) JB-RMM0308NY-40, MP-S301200PP (Matr.) JB-S301200PP, JB-EL1238NY (Matr.) JB-S301200PP	2023-03-15	Fogaingf

#	Ref.	Q.
1	MS-FU18A18	1
2	JB-IMB0303BRSW	1



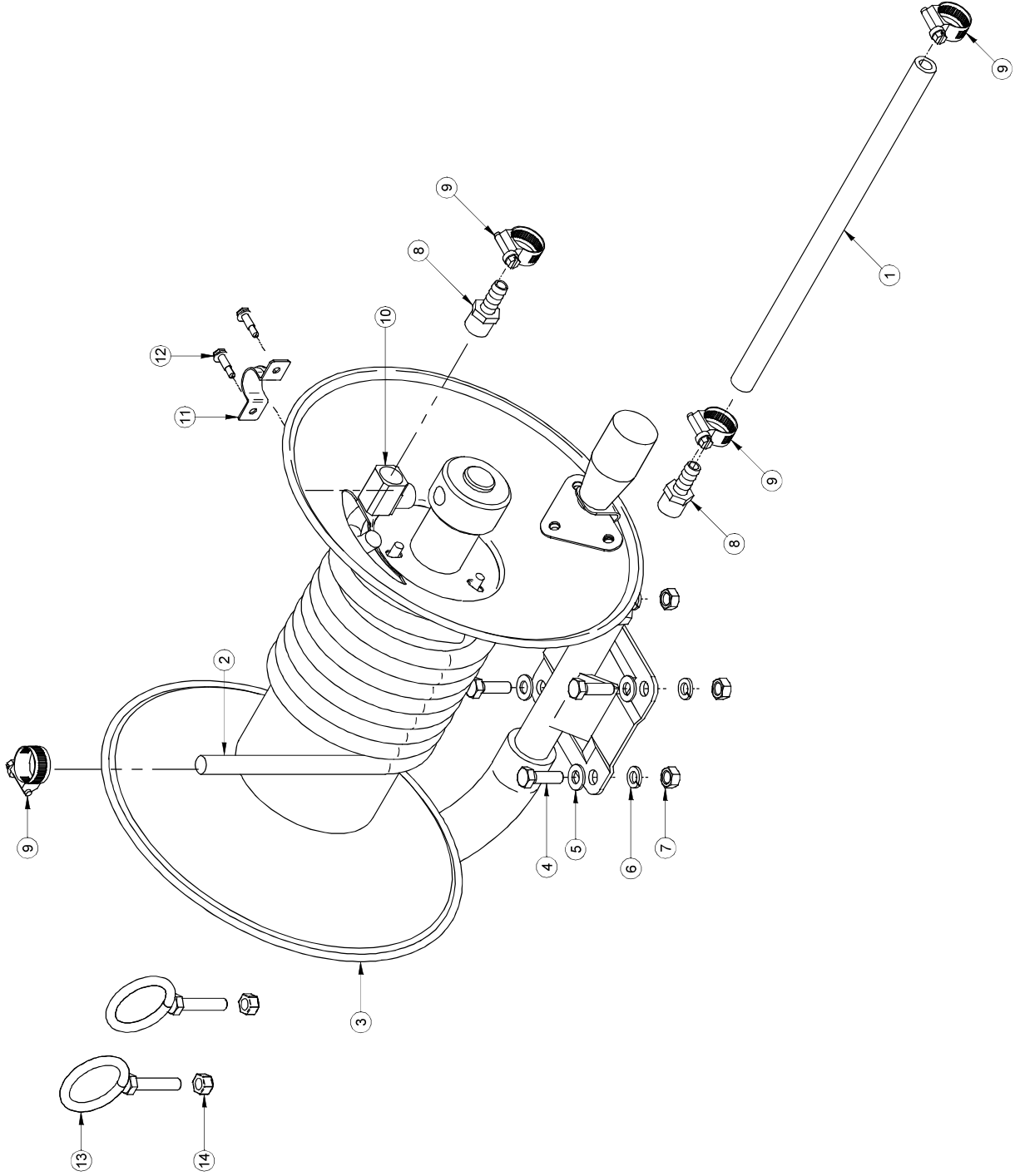
2008/02/19	RE-FU18A18037.asm	Rev. 0	Pg:1-1
	RE-FU18A18037.dft		RE-FU18A18037

#	Ref.	Q.
1	RE-RMA10100037	1
2	RE-ACL037	1
3	RE-FU18A18037	1



2008/02/19	RE-HR100CR5.asm	Rev. 0	Pg:1-1
	RE-HR100CR5.dft		RE-HR100CR5

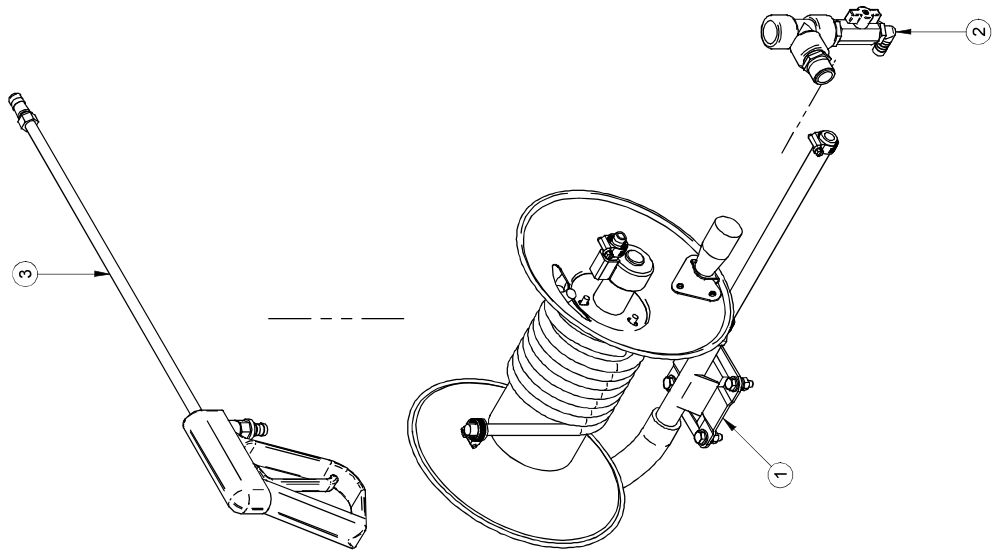
#	Ref.	Q.	L"
1	AS-381N	1	120"
2	AS-381N	1	1200"



#	Ref.	Q.
3	AU-HR38100	1
4	BT-5161	4
5	BT-FW516	4
6	BT-LW516	4
7	BT-N516	4
8	JB-IMB0303BR	2
9	DA-HS6	4
10	JB-KFM0303BR	1
11	AU-CL38G	1
12	BT-AP1234	2
13	MS-AN112	2
14	BT-LN516	2

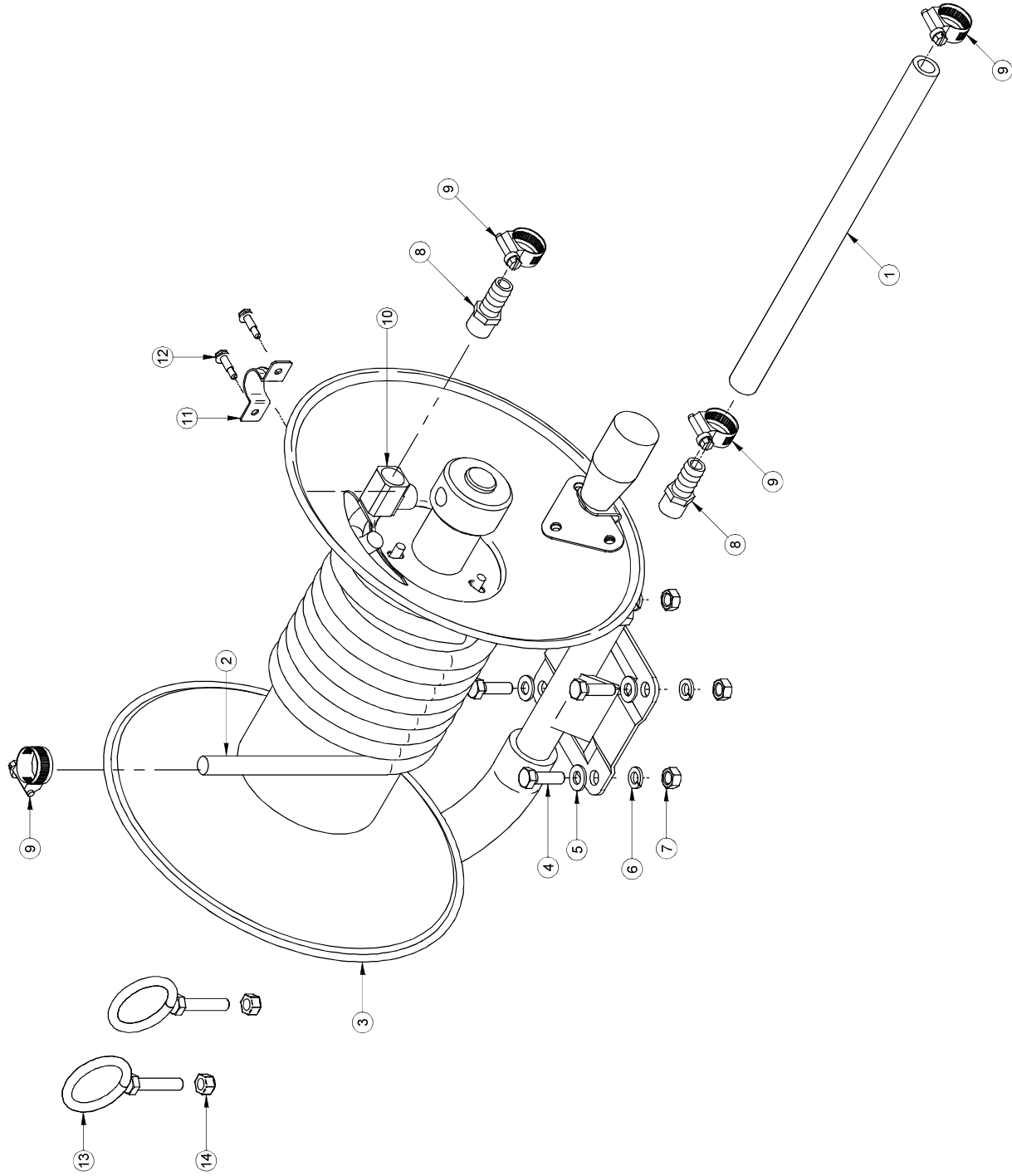
2008/02/19	RE-RMA10100037.asm	Rev. 0	Pg:1-1
	RE-RMA10100037.dft		RE-RMA10100037

#	Ref.	Q.
1	RE-RMA1075050	1
2	RE-ACL050	1
3	RE-FU18A18050	1



2008/02/19	RE-HR7512R5.asm	Rev. 0	Pg:1-1
	RE-HR7512R5.dft		RE-HR7512R5

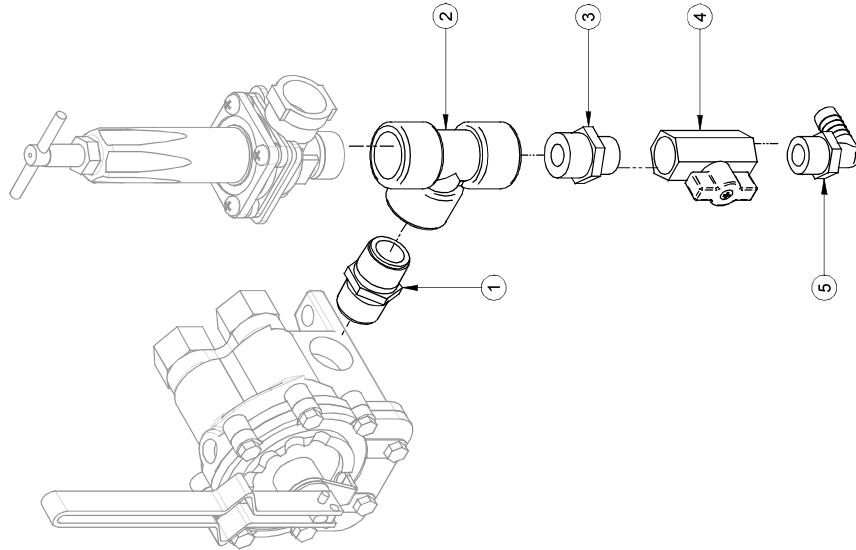
#	Ref.	Q.	L"
1	AS-121N	1	120 "
2	AS-121N	1	900 "



#	Ref.	Q.
3	AU-HR38100	1
4	BT-5161	4
5	BT-FW516	4
6	BT-LW516	4
7	BT-N516	4
8	JB-IMB0304BR	2
9	DA-HS6	4
10	JB-KFM0303BR	1
11	AU-CL38G	1
12	BT-AP1234	2
13	MS-AN112	2
14	BT-LN516	2

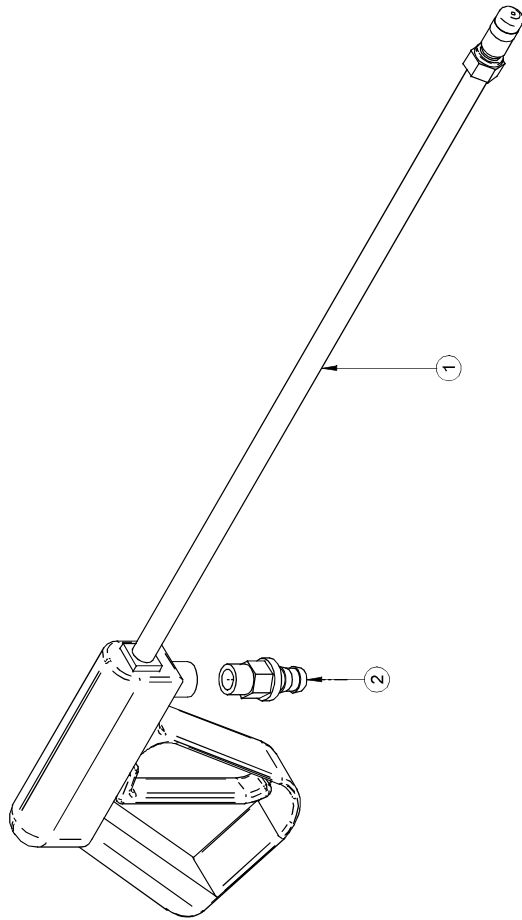
2008/02/19	RE-RMA1075050.asm	Rev. 0	Pg:1-1
	RE-RMA1075050.dft		RE-RMA1075050

#	Ref.	Q.
1	JB-M3400NY	1
2	JB-TT34NY	1
3	JB-RMIM0406NY40	1
4	JB-050FFBT	1
5	JB-EL1212NY40	1



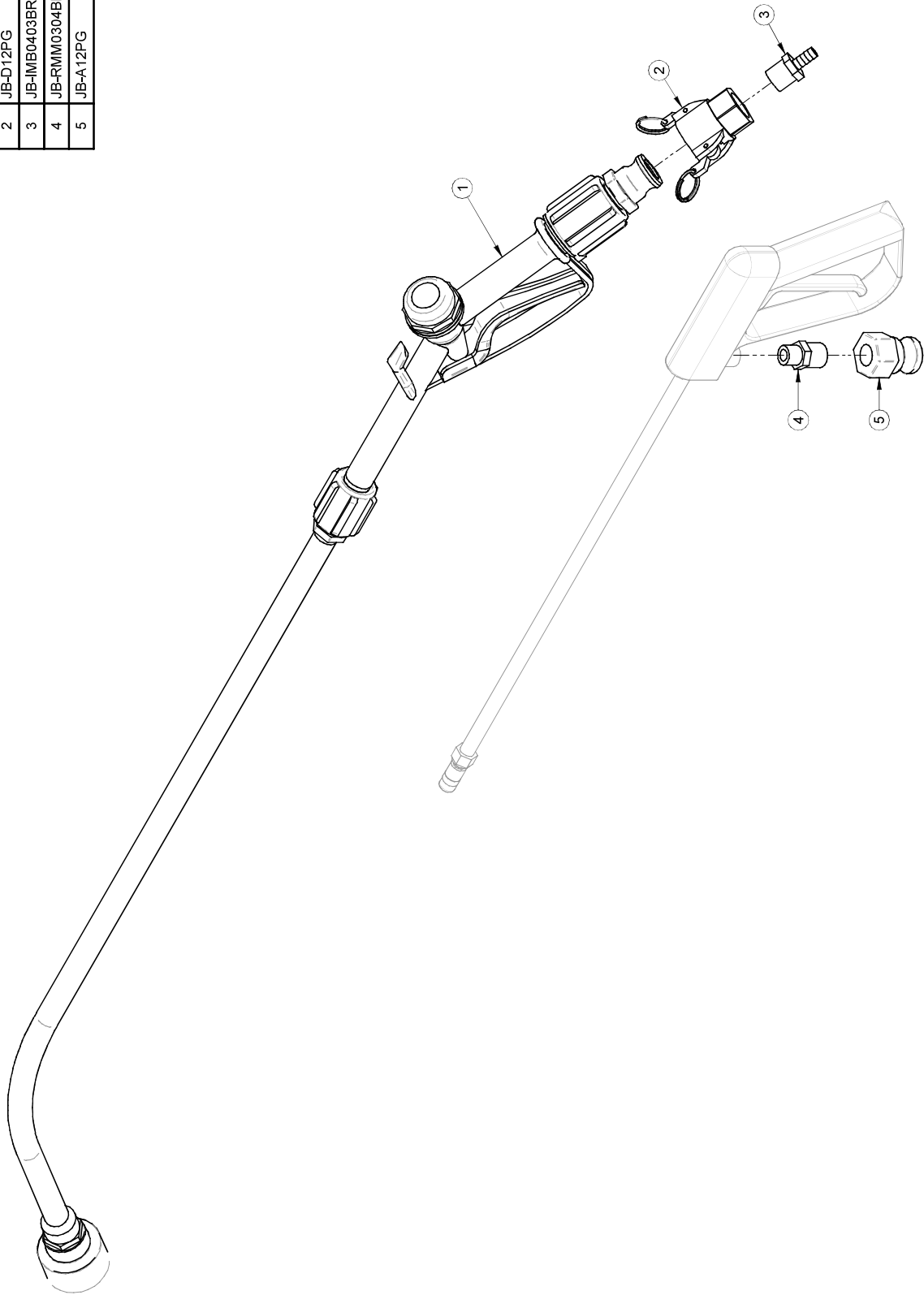
2008/02/19	RE-ACL050.asm	Rev. 0	Pg:1-1
	RE-ACL050.dft		RE-ACL050

#	Ref.	Q.
1	MS-FU18A18	1
2	JB-IMB0304ERSW	1

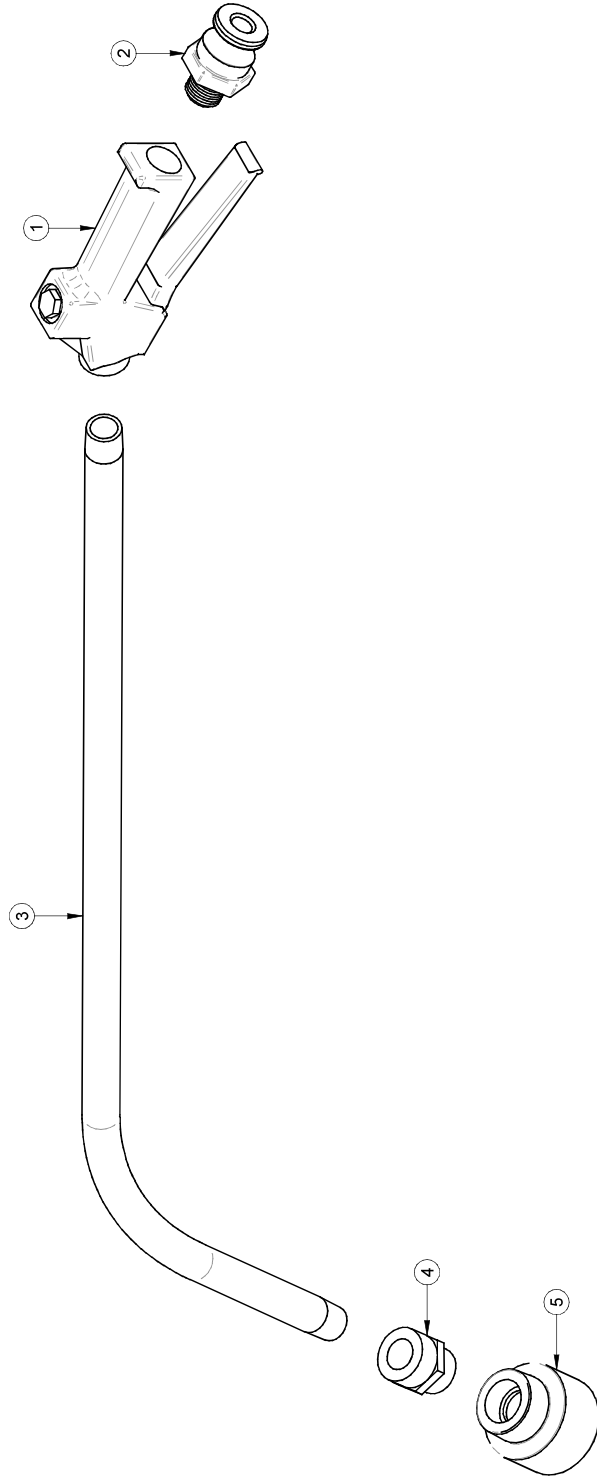


2008/02/19	RE-FU18A18050.asm	Rev. 0	Pg:1-1
	RE-FU18A18050.dft		RE-FU18A18050

#	REF.	Q.
1	MS-FUFLEUR3	1
2	JB-D12PG	1
3	JB-IMB0403BR	1
4	JB-RMM0304BR	1
5	JB-A12PG	1



#	REF.	Q.
1	MP-2919039	1
2	JB-F12PG	1
3	MS-TA36FF	1
4	JB-IHF0004NY40	1
5	AU-400A	1



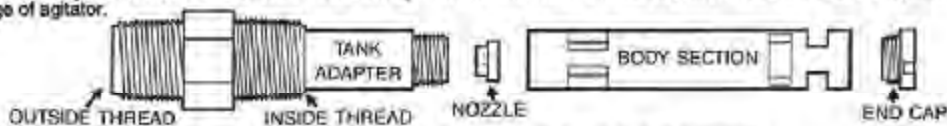
JET AGITATOR and VOLUME BOOSTER MODEL 3371-0019

The versatile Hydro, venturi type, 3371-0019 Jet Agitator adapts to your installation, fits directly into 3/4" NPT tank opening. Mounts vertically or horizontally. (For horizontal mounting, just remove end cap from agitator. The full flow is then directed across the tank.) The overlapping 4-port side outlet provides full 360° agitation for thorough mixing in the vertical position. Molded polypropylene construction provides rigidity and strength. Choice of four nozzles assures proper agitation for your spraying.



ASSEMBLY INSTRUCTIONS

1. Agitator is packaged for shipment disassembled in a see-through plastic envelope. Select your nozzle size and assemble as shown on the sectional drawing. Insert small diameter of nozzle into tank adapter. Thread parts together in order shown. Note that body section end with vertical slots screws into tank adapter (other end is for cap).
2. Wrap teflon tape on the inside 3/4" NPT thread on agitator before installing to tank. This assures a tight seal and will prevent agitator from loosening because of vibration.
3. Apply teflon tape on the outside 3/4" NPT thread for agitator line and install a metal coupling. This will assure a tight seal and prevent breakage of agitator.



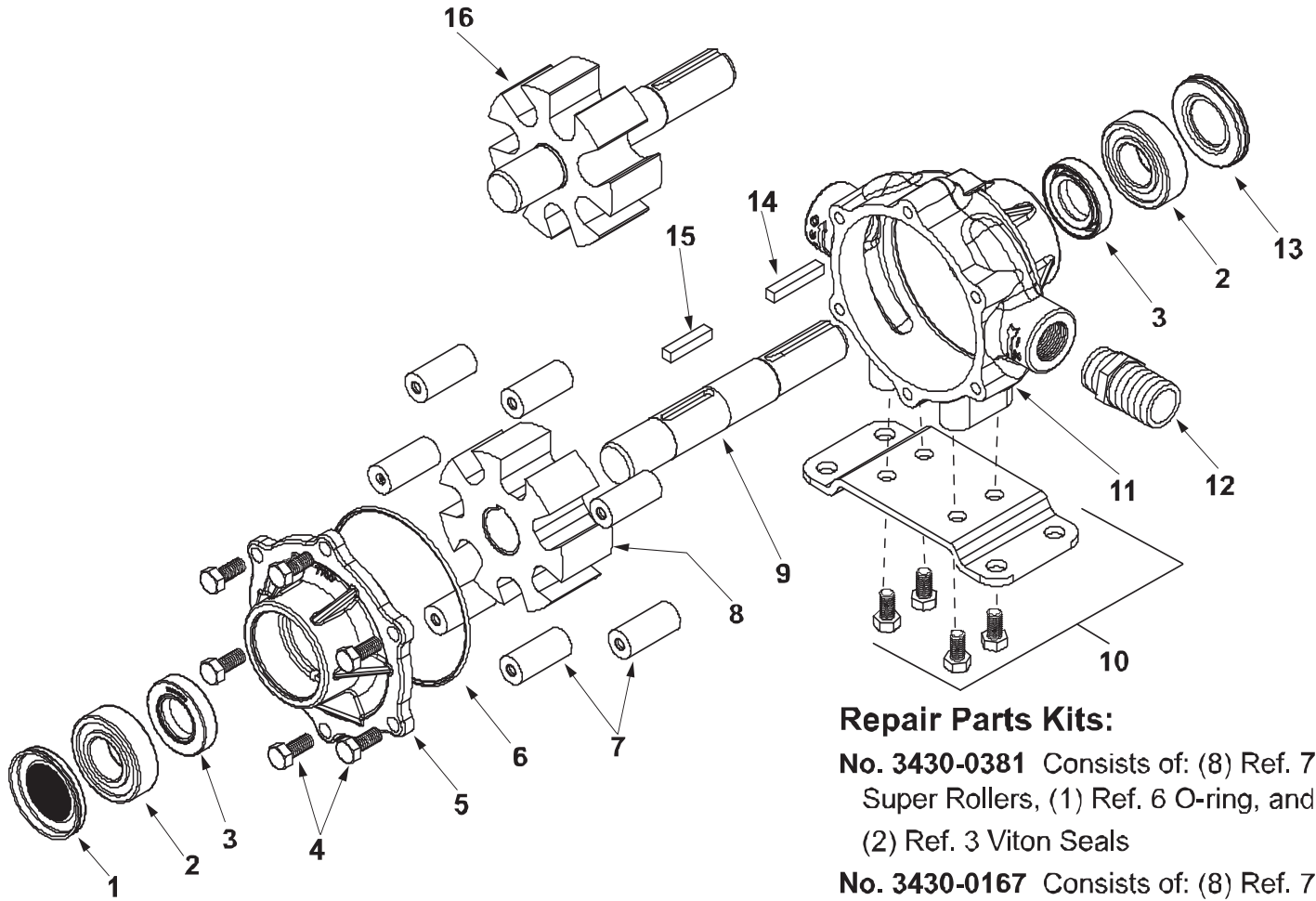
SELECTING THE PROPER NOZZLE FOR SPRAY TANK AGITATION

The right nozzle is the one which provides ample agitation to keep the wettable powders in suspension, but not too much as to cause foaming of spray material.

PERFORMANCE TABLE MODEL 3371-0019

Nozzle Diameter	Input to Agitator in GPM	Input to Agitator in L/min.	Agitator Pressure in PSI	Agitator Pressure in KPa	Agitator Output in GPM	Agitator Output in L/min.
1/8"	2.1	7.9	25	172.4	6	22.7
1/8"	2.9	11	50	344.7	8.8	33.3
1/8"	4.1	15.5	100	689.4	13.9	52.6
5/32"	3.1	11.7	25	172.4	7	26.5
5/32"	4.5	17	50	344.7	11.5	43.5
5/32"	5.8	22	100	689.4	16.2	61.3
3/16"	3.8	14.4	25	172.4	8.5	32.2
3/16"	5.9	22.3	50	344.7	12.8	48.4
3/16"	8.2	31	100	689.4	17.2	65.1
1/4"	5.9	22.3	25	172.4	11.9	45
1/4"	9.8	37.1	50	344.7	17.1	64.7
1/4"	13.5	51.1	100	689.4	20	75.7

Series 7700



Note: When ordering parts, give quantity, part number, description and complete model number. Reference numbers are used ONLY to identify parts in the drawing and NOT to be used as order numbers.

Repair Parts Kits:

No. 3430-0381 Consists of: (8) Ref. 7 Super Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton Seals

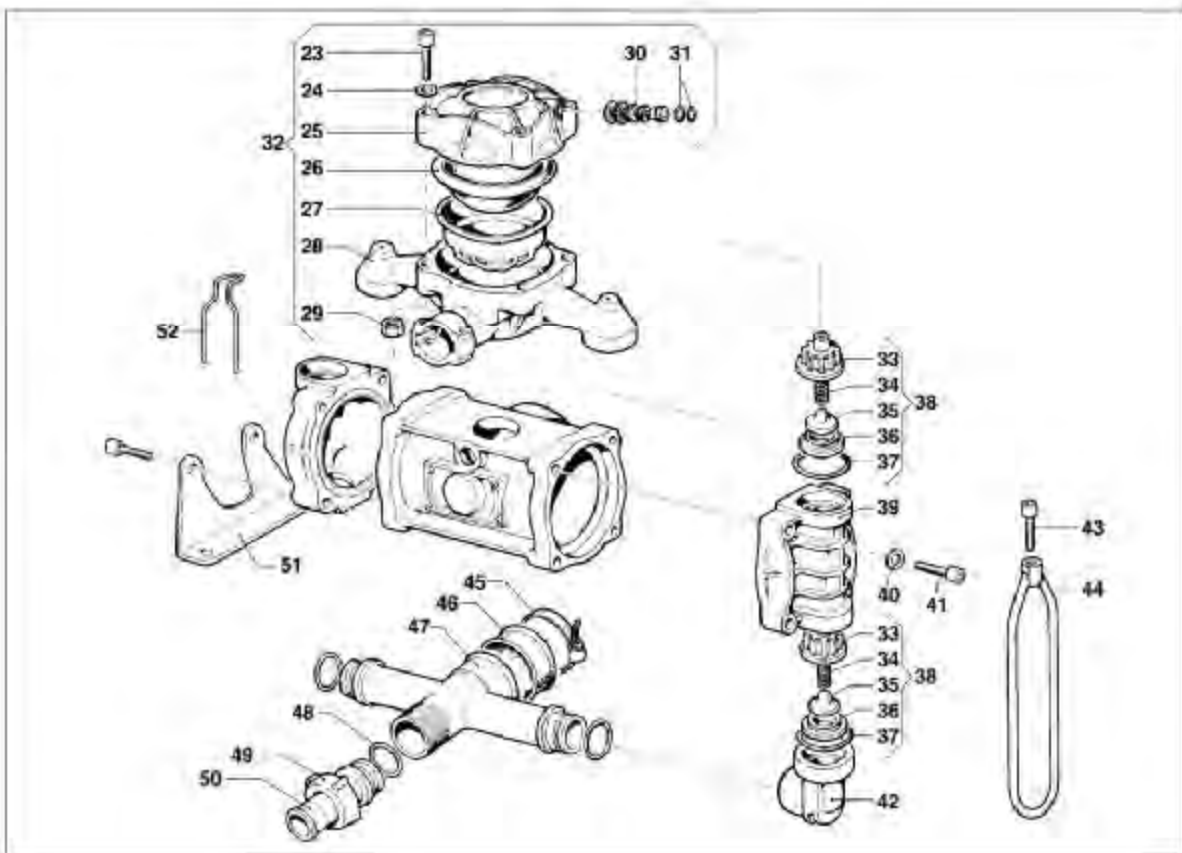
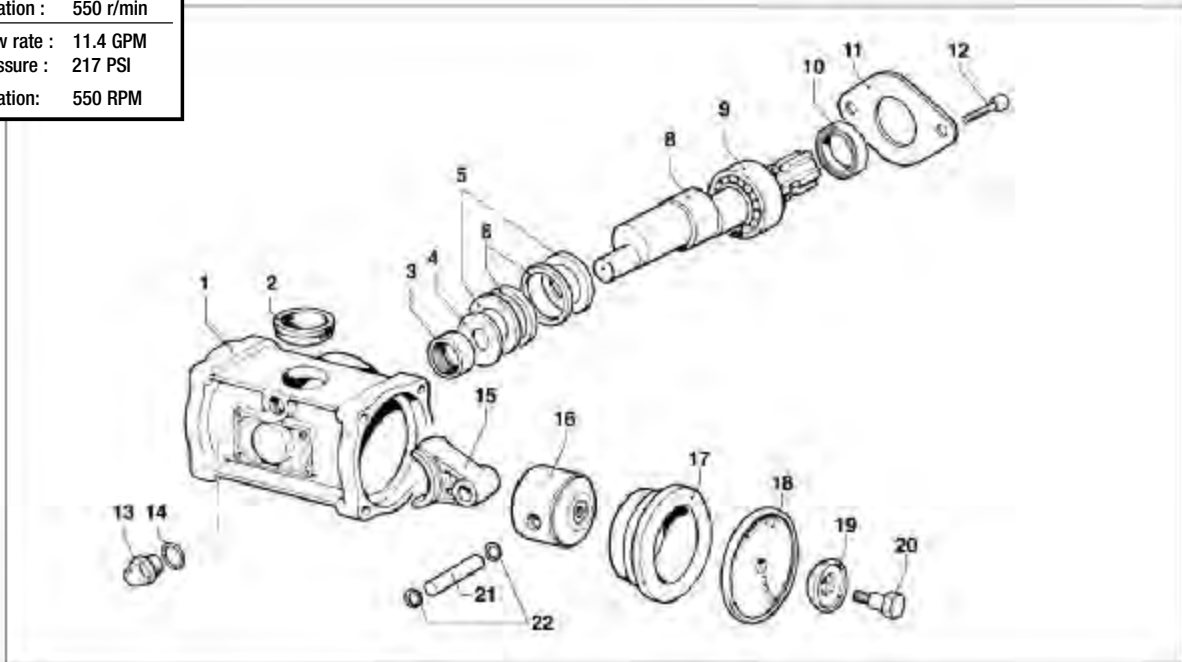
No. 3430-0167 Consists of: (8) Ref. 7 Polypropylene Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton Seals

No. 3430-0623 Consists of: (1) Ref. 8 Phenolic rotor, (1) Ref. 9 Shaft, and (1) Ref. 15 Key

Ref. No.	Qty. Req'd	Part No.	Description
1	1	2300-0020	Bearing Cover
2	2	2008-0001	Sealed Ball Bearing
3	2	2112-0003	Viton Seal (Standard)
3	2	2112-0001	Buna-N Seal (Optional)
4	6	2210-0004	Bolts
5	1	0200-7700C	Endplate (Cast Iron) with seal
5	1	0200-7700N	Endplate (Ni-Resist) with seal
5	1	0200-7700X	Endplate (SilverCast) with seal
6	1	1720-0014	O-ring Gasket for Endplate
7	7	1005-0004	Super Roller (Standard)
7	7	1002-0004	Polypropylene Roller (Optional)
7	7	1052-0004	Buna-N Roller (Optional)
7	7	1055-0004	Teflon Roller (Optional)
8	1	0401-7700P	Phenolic (Standard)
9	1	0510-7500	Shaft (416 Stainless)

Ref. No.	Qty. Req'd	Part No.	Description
10	1 kit	3420-0010	Base Kit - Includes: (1) Base, (4) Bolts
11	1	0100-7700C	Body (Cast Iron) with seal
11	1	0100-7700N	Body (Ni-Resist) with seal
11	1	0100-7700X	Body (SilverCast) with seal
12	1	2404-0052	1" Hose Barb
13	1	2300-0022	Shaft Bearing Cover
14	1	1610-0005	Key
15	1	1610-0059	Key (Stainless Steel)
16	1	0300-7700C	Rotor Assembly (Cast Iron)
16	1	0300-7700N	Rotor Assembly (Ni-Resist)
16	1	0300-7700X	Rotor Assembly (SilverCast)
16	1	0301-7700C	Rotor Assembly (Cast Iron) Rev Rot.
16	1	0301-7700C	Rotor Assembly (Ni-Resist) Rev Rot.
16	1	0301-7700C	Rotor Assembly (SilverCast) Rev Rot.

Débit : 11.4 gal/min
 Pression : 217 lb/po²
 Rotation : 550 r/min
 Flow rate : 11.4 GPM
 Pressure : 217 PSI
 Rotation: 550 RPM

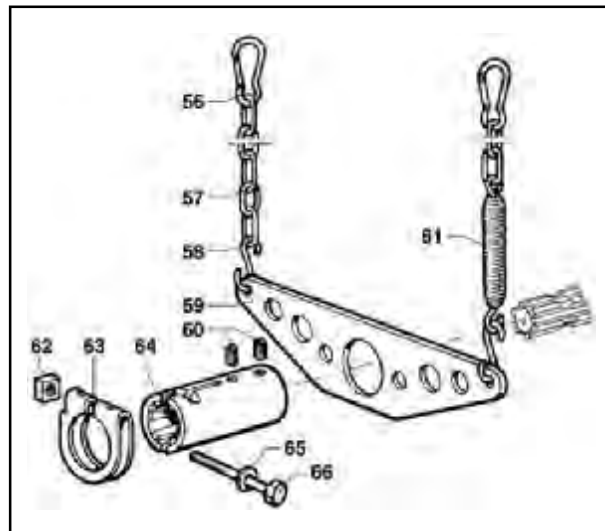


Ref	No MS	No Comet	Description	Note	Qty
1	CO-403/132	0403 0132	Pump Crankcase		1
2	CO-1800/30	1800 0030	Volum. Comp. Diaphragm		1
3	CO-437-30	0437 0030	Roller Bearing	Ø20x28x20	1
4	CO-2813/72	2813 0072	Connecting Rod Washer	Ø20x54x3	1
5	CO-601/240	0601 0240	Spacer		2
6	CO-10/13	0010 0013	Connecting Rod Ring	Ø60x50x6	2
8	CO-1/302	0001 0302	NON-Throughshaft	1"3/8 M	1
9	CO-438/15	0438 0015	Ball Bearing	Ø35x62x14	1
10	CO-19/10	0019 0010	Oil Seal	Ø35x62x10	1
11	CO-1004/13	1004 0013	Flange	1	1
12	CO-3609/171	3609 0171	Screw	M10x16	2
13	CO-3201/21	3201 0021	Oil Dipstick	3/8" GAS	1
14	CO-1210/25	1210 0025	O-Ring	Ø2,62x15,54	1
15	CO-205/25	0205 0025	Connecting Rod Assembly		1
16	CO-2409/17	2409 0017	Piston	Ø70	2
17	CO-400/68	0400 0068	Piston Sleeve	Ø70	2
18	CO-1800/2	1800 0002	Diaphragm Buna	Ø112	2
	CO-1800/176	1800/0176	Diaphragm Desmo		2
19	CO-602/10	0602 0010	Disc		2
20	CO-3605/5	3605 0005	Diaphragm Holder Screw	M12x1,5	2
21	CO-3011/1	3011 0001	Gudgeon Pin	Ø15x53	2
22	CO-3020/1	3020 0001	Inner Seeger	Ø15	4
23	CO-3609/182	3609 0182	Screw	M10x60	4
24	CO-2811/98	2811 0098	Washer	Ø10,5x18x2	3
25	CO-3/24	0003 0024	Pressure Accumulator		1
26	CO-1800/34	1800 0034	Diaphragm		1

Ref	No MS	No Comet	Description	Note	Qty
27	CO-460/5	0460 0005	Diaphragm Support Cap		1
28	CO-2/32	0002 0032	Pressure Accumulator		1
29	CO-604/105	0604 0105	Nut	M10	4
30	CO-3610/3	3610 0003	Air Valve		1
31	CO-1209/33	1209 0033	Gasket	Ø14x7,5x2	2
32	CO-102/10	0102 0010	Pressure Accumulator Kit		1
33	CO-1205/4	1205 0004	Suction/Delivery Valve Cage		4
34	CO-1802/15	1802 0015	Spring (Wire Ø0,8)	Øe11x17	4
35	CO-3604/9	3604 0009	Suction/Delivery Valve		4
36	CO-3009/15	3009 0015	Suction/Delivery Valve Seat		4
37	CO-1210/374	1210 0374	O-Ring	Ø6,5x34	4
38	CO-1220/6	1220 0006	Suct./Delivery Valve Ass.y kit		4
39	CO-3218/94	3218 0094	Pump Manifold		2
40	CO-2811/98	2811 0098	Washer	Ø10,5x18x2	4
41	CO-3609/161	3609 0161	Screw	M10x45	8
42	CO-2804/12	2804 0012	Elbow Suction Coupling		2
43	CO-3609/160	3609 0160	Screw	M10x30	2
44	CO-418/41	0418 0041	U-Bolt		2
45	CO-1003/36	1003 0036	Hose Clamp		1
46	CO-1800/17	1800 0017	Diaphragm		1
47	CO-3212/25	3212 0025	Suction Hose		1
48	CO-1210/96	1210 0096	O-Ring	Ø3,53x21,82	3
49	CO-1200/9	1200 0009	Wing Nut	M36x2	1
50	CO-2800/10	2800 0010	Suction Hose Tail	Ø19x26	1
51	CO-2400/52	2400 0052	Pump Mounting Bracket		2
52	CO-1202/17	1202 0017	Delivery Hook		1

- CO-6088/2

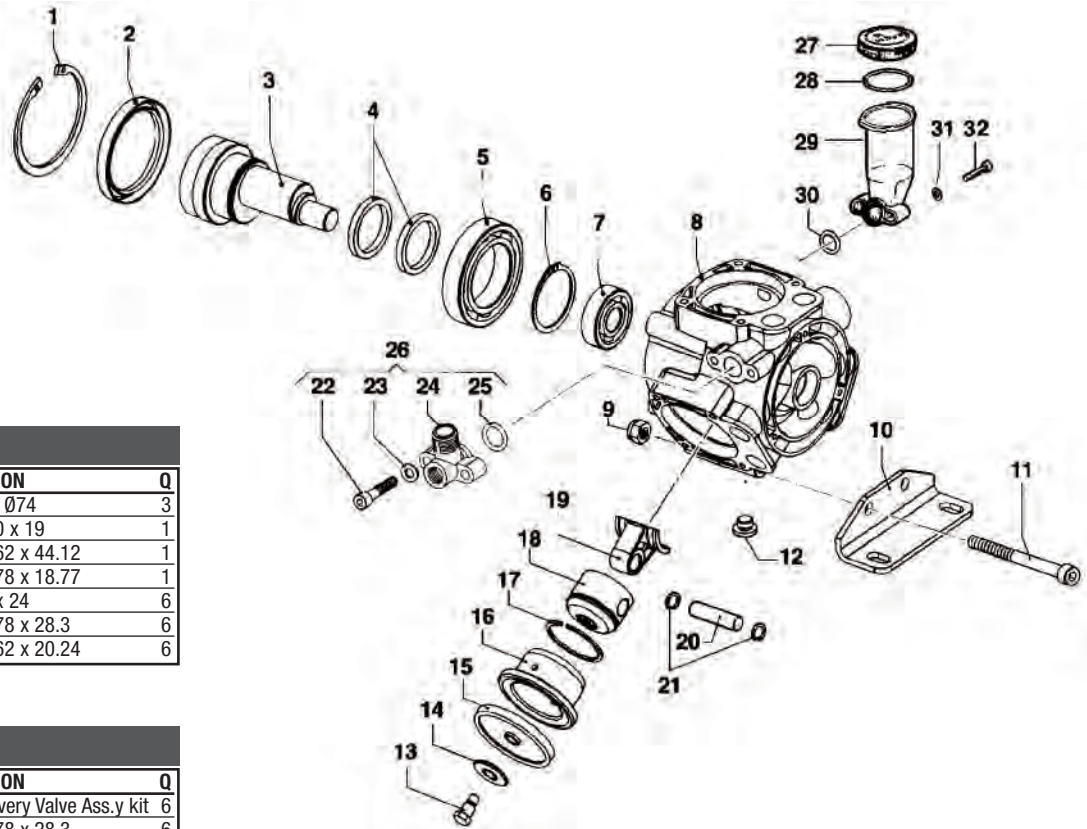
1"3/8 Quick Coupling Torque Arm and Chain



Ref	No MS	No Comet	Description	Note	Qty
56	CO-1202/9	1202 0009	Hook		2
57	CO-465/1	0465 0001	Chain	500 mm	2
58	CO-1202/6	1202 0006	Hook	Ø6	2
59	CO-3221/3	3221 0003	Torque Arm for Quick Coupling		1
60	CO-3622/11	3622 0011	Screw	M8x10	2
61	CO-1802/40	1802 0040	Spring (Wire Ø2,5) + Hook	Øe20x100	1
62	CO-600/37	0600 0037	Special Bolt	M12x6	1
63	CO-417/5	0417 0005	Collar		1
64	CO-1407/6	1407 0006	Quick Coupling	Ø1"3/8	1
65	CO-2811/25	2811 0025	Washer	Ø13x20x2,5	1
66	CO-3607/115	3607 0115	Hexagonal Screw	M12x75	1

Débit : 11 gal/min
 Pression : 580 lb/po²
 Révolution : 650 r/min

Flow rate : 11 GPM
 Pressure : 580 PSI
 Speed : 650 RPM

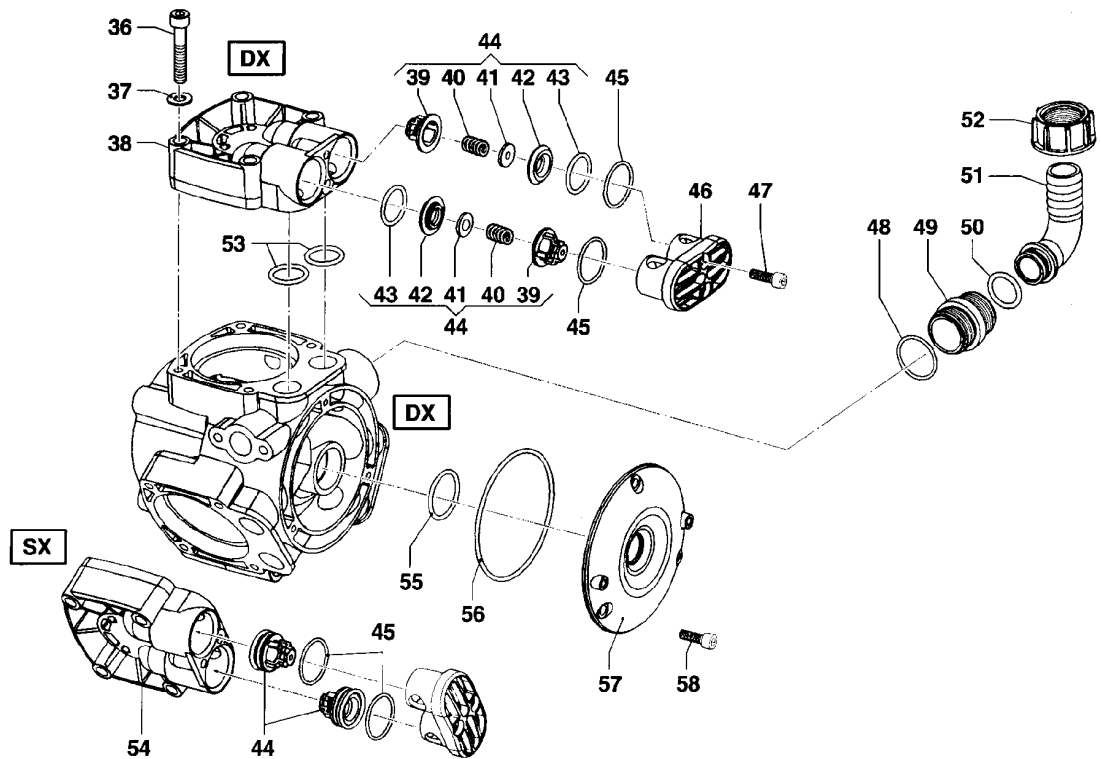


MS-KITAPS41

NO REF	DESCRIPTION	Q
15	CO-1800/102 Diaphragm Ø74	3
25	CO-1210/447 O-ring Ø3.0 x 19	1
28	CO-1210/122 O-ring Ø2.62 x 44.12	1
30	CO-1210/233 O-ring Ø1.78 x 18.77	1
43	CO-1210/451 O-ring Ø2 x 24	6
45	CO-1210/15 O-ring Ø1.78 x 28.3	6
53	CO-1210/48 O-ring Ø2.62 x 20.24	6

MS-KITVAPS41

NO REF	DESCRIPTION	Q
44	CO-1220/52 Suct./Delivery Valve Ass.y kit	6
45	CO-1210/15 O-ring Ø1.78 x 28.3	6



NO REF	DESCRIPTION	Q
1 CO-3020/2	Inner seeger Ø90	1
2 CO-19/85	Oil seal Ø70x90x10	1
3 CO-1/444	NON-Throughshaft 6 holes	1
4 CO-10/26	Connecting rod ring 52x42x6	2
5 CO-438/1	Ball bearing Ø55x90x18	1
6 CO-3019/1	Outer seeger Ø55	1
7 CO-438/66	Ball bearing Ø20x52x15	1
8 CO-403/147	Pump crankcase	1
9 CO-604/73	Nut M10x10	2
10 CO-2400/89	Pump mounting bracket	2
11 CO-3609/179	Screw M10x100	2
12 CO-3200/80	Oil plug GC 1/4	1
13 CO-3605/27	Diaphragm holder screw M8	3
14 CO-602/8	Disc	3
15 CO-1800/20	Diaphragm Buna opt	3
15 CO-1800/102	Diaphragm desmopan std	3
16 CO-400/80	Piston sleeve Ø48	3
17 CO-20/10	Compression ring 48x2x2	3
18 CO-2409/97	Piston Ø48	3

NO REF	DESCRIPTION	Q
19 CO-205/69	Connecting rod assembly	1
20 CO-3011/24	Gudgeon pin Ø14x4.5	3
21 CO-3020/29	Inner Seeger Ø14	6
22 CO-3609/165	Screw M8x35	2
23 CO-2811/4	Washer Ø8.4x14x1.6	2
24 CO-2803/467	Delievery hose tail G 1/2	1
25 CO-1210/447	O-ring Ø3.0x19	1
26 CO-5004/151	On pump hose tail kit G 1/2	1
27 CO-402/141	Volum. compensator cover	1
28 CO-1210/122	O-ring Ø2.62x44.12	1
29 CO-421/15	Volumetric compensator	1
30 CO-1210/233	O-ring Ø1.78x18.77	1
31 CO-2811/4	Washer Ø8.4x14x1.6	2
32 CO-3609/2	Screw M8x25	2
36 CO-3609/14	Screw M8x55	12
37 CO-2811/4	Washer Ø8.4x14x1.6	12
38 CO-3218/308	Right pump manifold	2
39 CO-1205/35	Suction/Delivery valve cage	6
40 CO-1802/177	Suct./Delivery valve spring	6

NO REF	DESCRIPTION	Q
41 CO-3604/7	Suction/Delivery valve	6
42 CO-3009/134	Suction/Delivery valve seat	6
43 CO-1210/451	O-ring Ø2x24	6
44 CO-1220/52	Suct./Delivery valve assy kit	6
45 CO-1210/15	O-ring Ø1.78x28.3	6
46 CO-3202/259	Suct./Delivery valve plug	3
47 CO-3609/32	Screw M6x20	12
48 CO-1210/145	O-ring Ø2.62x28.25	1
49 CO-2000/100	Nipple M-M G 1"	1
50 CO-1210/48	O-ring Ø2.62x20.24	1
51 CO-2801/75	Suction elbow tail Ø25	1
52 CO-1200/49	Wing nut G 1"	1
53 CO-1210/48	O-ring Ø2.62x20.24	6
54 CO-3218/309	Left pump manifold	1
55 CO-1210/101	O-ring Ø2.62x29.82	1
56 CO-1210/225	O-ring Ø2.62x88.57	1
57 CO-1009/181	Flange	1
58 CO-3609/32	Screw M6x20	3

CO-5003/7
1 3/8" CARDAN KIT, 6 HOLES

NO	REF	DESCRIPTION	Q
100	CO-27/16	Shaft	1
101	CO-3609/157	Screw	3
102	CO-3609/26	Screw	3

CYLINDRIC CARDAN KIT
CO-5003/14 Ø30
CO-5003/41 Ø1"

NO	REF	DESCRIPTION	Q
105	CO-1602/18	Key	1
106	CO-27/17	Shaft 30mm	1
	CO-27/23	Shaft 1"	1
107	CO-3609/157	Screw	3
108	CO-3609/26	Screw	3

KIT PULLEY, 2A GROOVES
CO-5001/50 Øp172
CO-5001/52 Øp247 *
CO-5001/54 Øp292 *

NO	REF	DESCRIPTION	Q
140	CO-2424/2	Pulley (Øp172mm)	1
	CO-2424/7	Pulley (Øp247mm)	1
	CO-2424/8	Pulley (Øp292mm)	1
141	CO-3607/70	Screw	3

ON PUMP HOSE TAIL
CO-5004/151 G 1/2
CO-2803/474 G 3/4

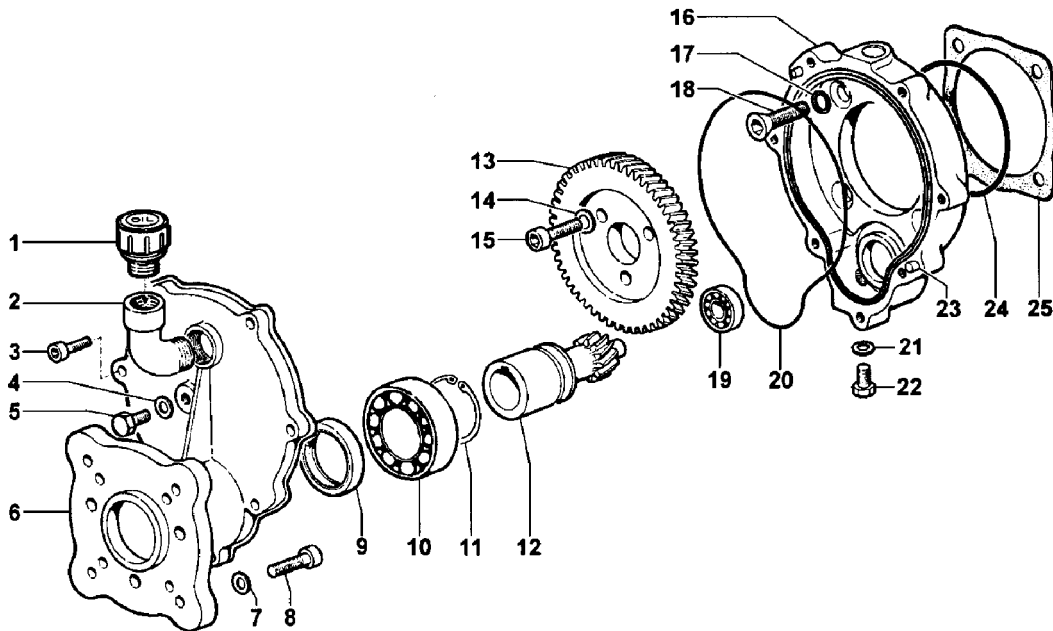
NO	REF	DESCRIPTION	Q
22	CO-3609/165	Screw	2
23	CO-2711/4	Washer	2
24	CO-2803/467	Delivery hose tail G 1/2	1
	CO-2803/468	Delivery hose tail G 3/4	1
25	CO-1210/447	O-ring	1
26	CO-5004/151	On pump hose tail kit G 1/2	1
	CO-2803/474	On pump hose tail kit G 3/4	1

CO-5002/3 1 3/8" TORQUE ARM & CHAIN QUICK COUPLING

NO	REF	DESCRIPTION	Q
125	CO-1802/40	Spring (wire ø2.5) + hook	1
126	CO-1202/9	Hook	2
127	CO-465/1	Chain	2
128	CO-1202/6	Hook	2
129	CO-3221/3	Torque arm for quick coupling	1
130	CO-3609/26	Exagonal screw	3
131	CO-417/5	Collar	1
132	CO-600/37	Special bolt	1
133	CO-3607/225	Hexagonal screw	4
134	CO-3607/115	Hexagonal screw	1
135	CO-2811/25	Washer	1
136	CO-1407/1	Quick coupling	1

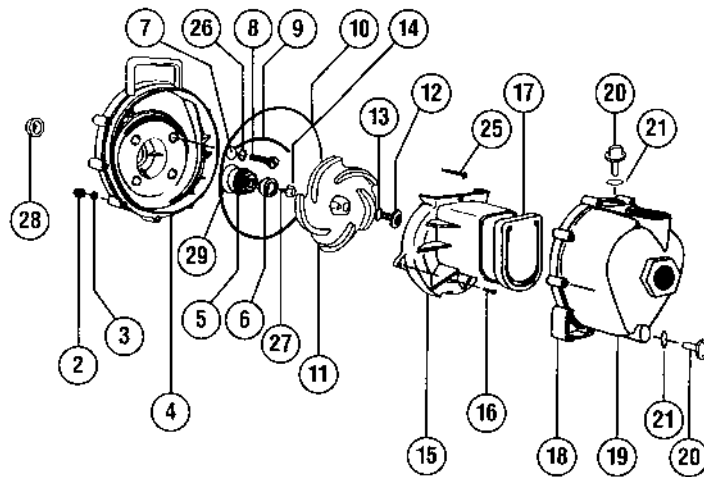
REF	DESCRIPTION	Q
CO-5011/205	Feet kit (pieds)	1

Réducteurs CO-5005/216 Gear box (MP20, MP30, MP40, APS31, APS41)



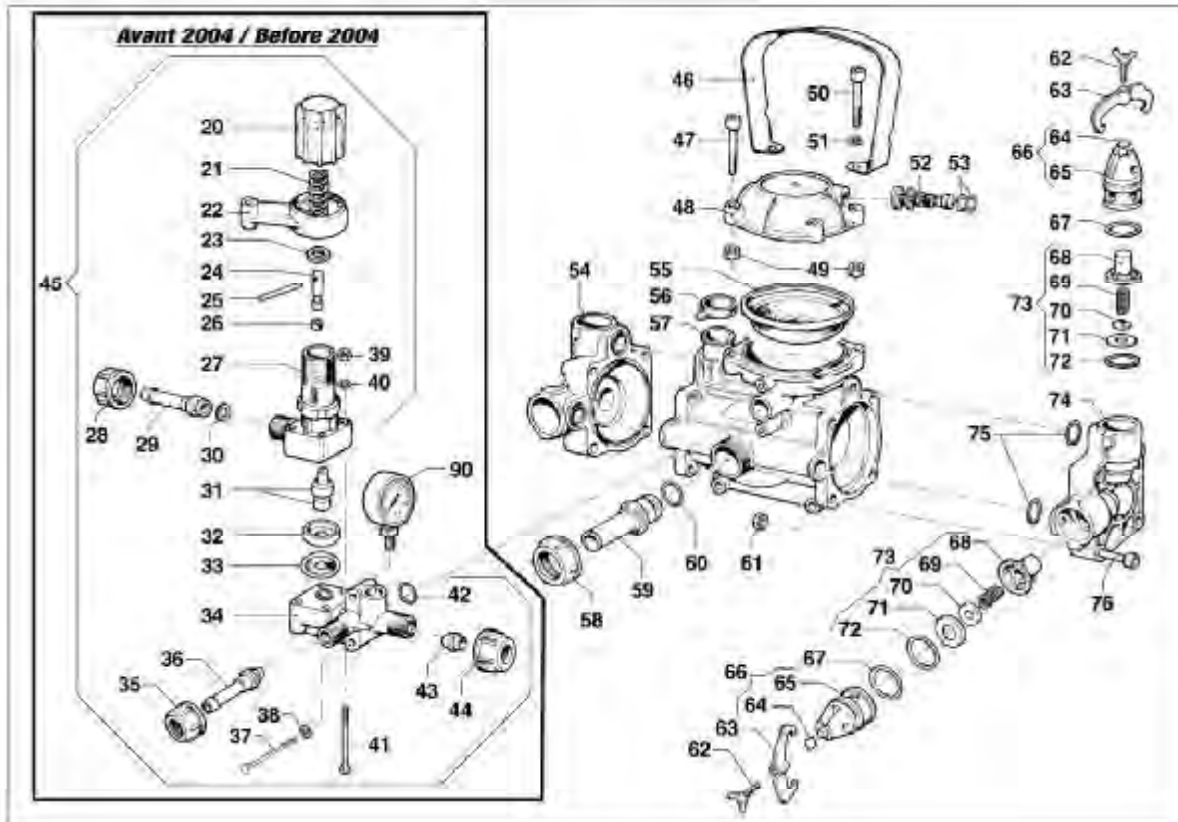
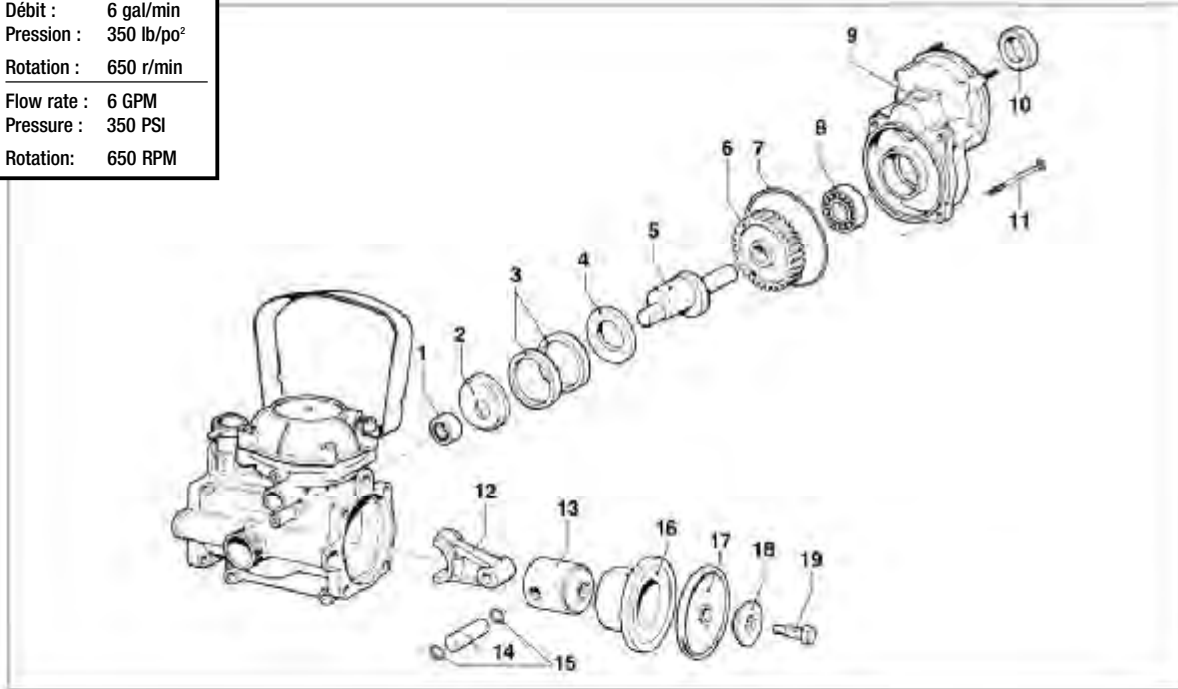
Ref	No MS	Description	Qty
1	CO-3200/82	Oil plug	1
2	CO-1211/23	Elbow, M/F G 1/2 - G 1/2	1
3	CO-3609/41	Screw, M6 x 25	7
4	CO-2811/51	Washer, ø 8,4 x 14	1
5	CO-3607/214	Hexagonal screw, M8 x 12	1
6	CO-3002/559	Support	1
7	CO-2811/4	Washer, ø 8,4 x 14 x 1,6	4
8	CO-3607/119	Hexagonal screw, 5/16" 24	4
9	CO-19/109	Oil seal, ø 35 x 52 x 7	1
10	CO-438/68	Ball bearing, ø 35 x 55 x 10	1
11	CO-3019/4	Outer seeger, ø 35	1
12	CO-2402/152	Pinion gear	1
13	CO-409/14	External gear	1
14	CO-2811/98	Washer, ø 10,5 x 18 x 2	3
15	CO-3609/22	Screw, M10 x 25	3
16	CO-3001/151	Support	1
17	CO-1210/93	O-ring, ø 1,78 x 14	4
18	CO-3621/6	Special screw, M10 x 35	4
19	CO-438/54	Ball bearing, ø 15 x 35 x 11	1
20	CO-1210/89	O-ring, ø 2,62 x 152,07	1
21	CO-2811/51	Washer, ø 8,4 x 15	1
22	CO-3607/214	Hexagonal screw, M8 x 13	1
23	CO-2818/5	Pin	2
24	CO-1210/50	O-ring, ø 1,7 x 86	1
25	CO-1201/21	Flat gasket	1

Note : 2" = BJ-200PO, BJ-205PO
3" = BJ-300PO



REF	2"	3"	Description	Q
2	BJ-V07019	BJ-V07019	Body nuts	10
3	BJ-V07018	BJ-V07018	Lock washer	10
4	BJ-12703A	BJ-12703A	Rear bracket	1
5-6*	BJ-12713	BJ-12713	Seal Assy	1
7*	BJ-12717	BJ-12717	Screw head o-ring	4
8	BJ-12715A	BJ-12715A	Bracket screw	4
9*	BJ-12754	BJ-12754	O-ring segment	1
10*	BJ-12719A	BJ-12719A	Body o-ring	1
11•	BJ-12771A		Impeller (3 vanes)	1
	BJ-12772		Impeller (5 vanes) (BJ-205PO)	1
		BJ-13771	Impeller (4 vanes)	1
12	BJ-12765A	BJ-13765	Impeller stud	1
13*	BJ-12774VA	BJ-12774VA	O-ring acorn nut	1
14	BJ-12775A	BJ-12775A	Acorn nut	1
15	BJ-12702A	BJ-13702	Volute	1
16	BJ-12725	BJ-12725	Volute screws	2
17•	BJ-12705	BJ-12705	Check valve	1
18	BJ-12712A	BJ-13712	Body	1
19	BJ-12720	BJ-12720	Body screws	10
20	BJ-12777	BJ-13777	Prime plug	2
21*	BJ-UV15163	BJ-13778	Prime plug O-ring	2
25	BJ-12900	BJ-12900	Upper volute screw	1
26	BJ-12901	BJ-12901	1/4" washer, s. steel	4
27	BJ-12902A	BJ-12902A	Impeller key	1
28*	BJ-12706	BJ-12706	Slinger o-ring	3
29*	BJ-12710	BJ-12710	Seal o-ring	1
	BJ-12882A	BJ-12882A	Complete bearing pedestal	1
	BJ-12000A		Pump repair kit - 5 vane impeller Consists of all items market with •	1
		BJ-13000	Pump repair kit - 4 vane impeller Consists of all items market with •	1
	BJ-12999A	BJ-13999	Pump seal / O-ring kit Consists of all items marked with *	1

Débit :	6 gal/min
Pression :	350 lb/po ²
Rotation :	650 r/min
Flow rate :	6 GPM
Pressure :	350 PSI
Rotation :	650 RPM

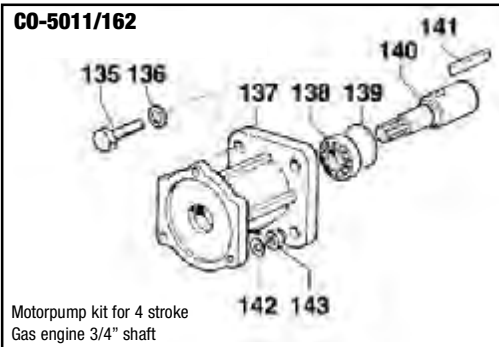


Après 2004 voir p.3 / After 2004 see p.3

Ref	No MS	No Comet	Description	Note	Qty
1	CO-437/17	0437 0017	Roller Bearing	Ø15x21x12	1
2	CO-601/235	0601 0235	Spacer		1
3	CO-10/12	0010 0012	Connecting Rod Ring	Ø47x39x5	2
4	CO-2813/73	2813 0073	Connecting Rod Washer	Ø46xØ32,5x3	1
5	CO-1/291	0001 0291	Eccentric Shaft		1
6	CO-409/17	0409 0017	External Gear	ZE 54	1
7	CO-1210/53	1210 0053	O-Ring	1,78x72,75	1
8	CO-438/65	0438 0065	Ball Bearing	Ø15x32x9	1
9	CO-3002/491	3002 0491	Support		1
10	CO-19/88	0019 0088	Oil Seal	Ø15x30x7	1
10	CO-19/86	0019 0086	Oil Seal	Ø20x30x7	1
11	CO-3609/173	3609 0173	Screw	M5x25	4
12	CO-205/59	0205 0059	Connecting Rod Assembly		1
13	CO-2409/23	2409 0023	Piston	Ø45	2
14	CO-3011/6	3011 0006	Gudgeon Pin	Ø12x36,5	2
15	CO-3020/20	3020 0020	Inner Seeger	Ø12	4
16	CO-400/69	0400 0069	Piston Sleeve	Ø45	2
17	CO-1800/20	1800 0020	Diaphragm Buna	Ø74	2
	CO-1800/102	1800 0102	Diaphragm Desmo		2
18	CO-602/33	0602 0033	Disc		2
19	CO-3605/27	3605 0027	Diaphragm Holder Screw	M8	2
20	CO-1223/90	1223 0090	Wing Nut		1
21	CO-1802/48	1802 0048	Spring (Wire Ø3,2)	Øe22x59	1
22	CO-1600/68	1600 0068	Lever		1
23	CO-2811/2	2811 0002	Washer	Ø10,5x20x2	1
24	CO-15/13	0015 0013	Regulation Valve Rod		1
25	CO-3005/27	3005 0027	Pin	4x40	1
26	CO-1216/6	1216 0006	Viton® Gasket	Ø6,2x10,1x3,2	1
27	CO-424/46	0424 0046	Regulation Valve Body		1
28	CO-1200/27	1200 0027	Wing Nut	1/2" GAS	1
29	CO-2800/20	2800 0020	Straight Hose By-pass Tail	Ø10x13	1
30	CO-1210/57	1210 0057	O-Ring	Ø2,62x10,78	1
31	CO-3600/88	3600 0088	Regulation Valve		1
32	CO-3009/29	3009 0029	Valve Seat		1
33	CO-1209/30	1209 0030	Gasket	Ø11x29,7x2,5	1
34	CO-424/198	0424 0198	Body		1
35	CO-1200/20	1200 0020	Wing Nut	18MB	1
36	CO-2802/15	2802 0015	Delivery Hose Tail	Ø6x9,5	1
37	CO-3609/17	3609 0017	Screw	M6x40	2
38	CO-2811/30	2811 0030	Washer	Ø6,4x12,5x1,6	2

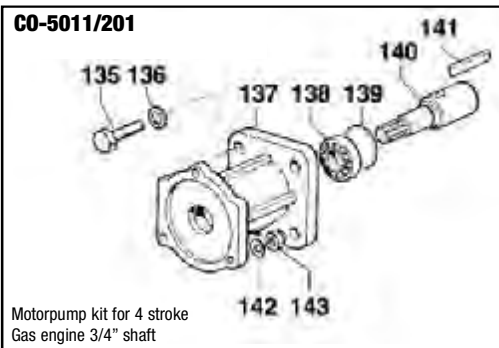
Ref	No MS	No Comet	Description	Note	Qty
39	CO-604/46	0604 0046	Nut	M5x6,8	4
40	CO-2811/37	2811 0037	Washer	Ø5,3x10x1	4
41	CO-3607/109	3607 0109	Hexagonal Screw	M5x45	4
42	CO-1210/25	1210 0025	O-Ring	Ø2,9x13,8	1
43	CO-3202/14	3202 0014	Plug		1
44	CO-1200/20	1200 0020	Wing Nut	18MB	1
45	CO-1215/14	1215 0014	Regulation Valve Assembly		1
46	CO-1818/24	1818 0024	Knob		1
47	CO-3609/165	3609 0165	Screw	M8x35	2
48	CO-3/11	0003 0011	Pressure Accumulator		1
49	CO-604/63	0604 0063	Nut	M8x6,5	4
50	CO-3609/162	3609 0162	Screw	M8x40	2
51	CO-2811/16	2811 0016	Washer	Ø8,4x17x1,6	2
52	CO-3610/3	3610 0003	Air Valve		1
53	CO-1209/33	1209 0033	Gasket	Ø14x7,5x2	2
54	CO-3218/15	3218 0015	Pump Manifold		1
55	CO-1800/33	1800 0033	Diaphragm		1
56	CO-1800/79	1800 0079	Diaphragm		1
57	CO-403/134	0403 0134	Pump Crankcase		1
58	CO-1200/8	1200 0008	Wing Nut	30MB	1
59	CO-2800/16	2800 0016	Suction Hose Tail	Ø13,5x18	1
60	CO-1210/46	1210 0046	O-Ring	2,62x17,13	1
61	CO-604/63	0604 0063	Nut	M8x6,5	8
62	CO-3605/32	3605 0032	Wing Nut Screw		4
63	CO-418/18	0418 0018	U-Bolt		4
64	CO-2403/75	2403 0075	Plate		4
65	CO-3202/27	3202 0027	Plug		4
66	CO-3202/214	3202 0214			1
67	CO-1210/52	1210 0052	O-Ring (Silicon)	3,53x21,82	4
68	CO-1205/7	1205 0007	Suction/Delivery Valve Cage		4
69	CO-1802/15	1802 0015	Spring (Wire Ø0,8)	Øe11x17	4
70	CO-3604/7	3604 0007	Suction/Delivery Valve		4
71	CO-3009/23	3009 0023	Suction/Delivery Valve Seat		4
72	CO-1210/29	1210 0029	O-Ring	2,62x25,07	4
73	CO-1212/4	1212 0004	Suction Valve Assembly kit		2
74	CO-3218/16	3218 0016	Pump Manifold		1
75	CO-1210/46	1210 0046	O-Ring	2,62x17,13	4
76	CO-3609/162	3609 0162	Screw	M8x40	8
90	CO-1816/78	1816 0078	Pressure Gauge		1

AVANT 2005 / BEFORE 2005



Ref	No MS	No Comet	Description	Note	Qty
135	CO-3607/119	3607 0119	Hexagonal Screw	3/4" Motor	4
	CO-3607/26	3607 0026	Hexagonal Screw	5/8" Honda	4
136	CO-2819/4	2819 0004	Spring Washer	Ø8,4x14,4x2	4
137	CO-3016/35	3016 0035	Flange		1
138	CO-438/62	0438 0062	Ball Bearing	Ø20x37x9	1
139	CO-3020/19	3020 0019	Inner Seeger		1
140	CO-31/6	0031 0006	Throughshaft	3/4" Motor	1
	CO-31/7	0031 0007	Throughshaft	5/8" Honda	1
141	CO-1602/16	1602 0016	Key	5x4,7x40	1
142	CO-2811/37	2811 0037	Washer	5,3x10x1	3
143	CO-604/46	0604 0046	Nut	M5x6,8	3

APRÈS 2005 / AFTER 2005



Ref	No MS	No Comet	Description	Note	Qty
135	CO-3607/119	3607 0119	Hexagonal Screw	3/4" Motor	4
136	CO-2819/4	2819 0004	Spring Washer	Ø8,4x14,4x2	4
137	CO-3016/35	3016 0035	Flange		1
138	CO-438/62	0438 0062	Ball Bearing	Ø20x37x9	1
139	CO-3020/19	3020 0019	Inner Seeger		1
140	CO-31/6	0031 0006	Throughshaft	3/4" Motor	1
141	CO-1602/16	1602 0016	Key	5x4,7x40	1
142	CO-2811/37	2811 0037	Washer	5,3x10x1	3
143	CO-604/46	0604 0046	Nut	M5x6,8	3

Après 2004 / After 2004

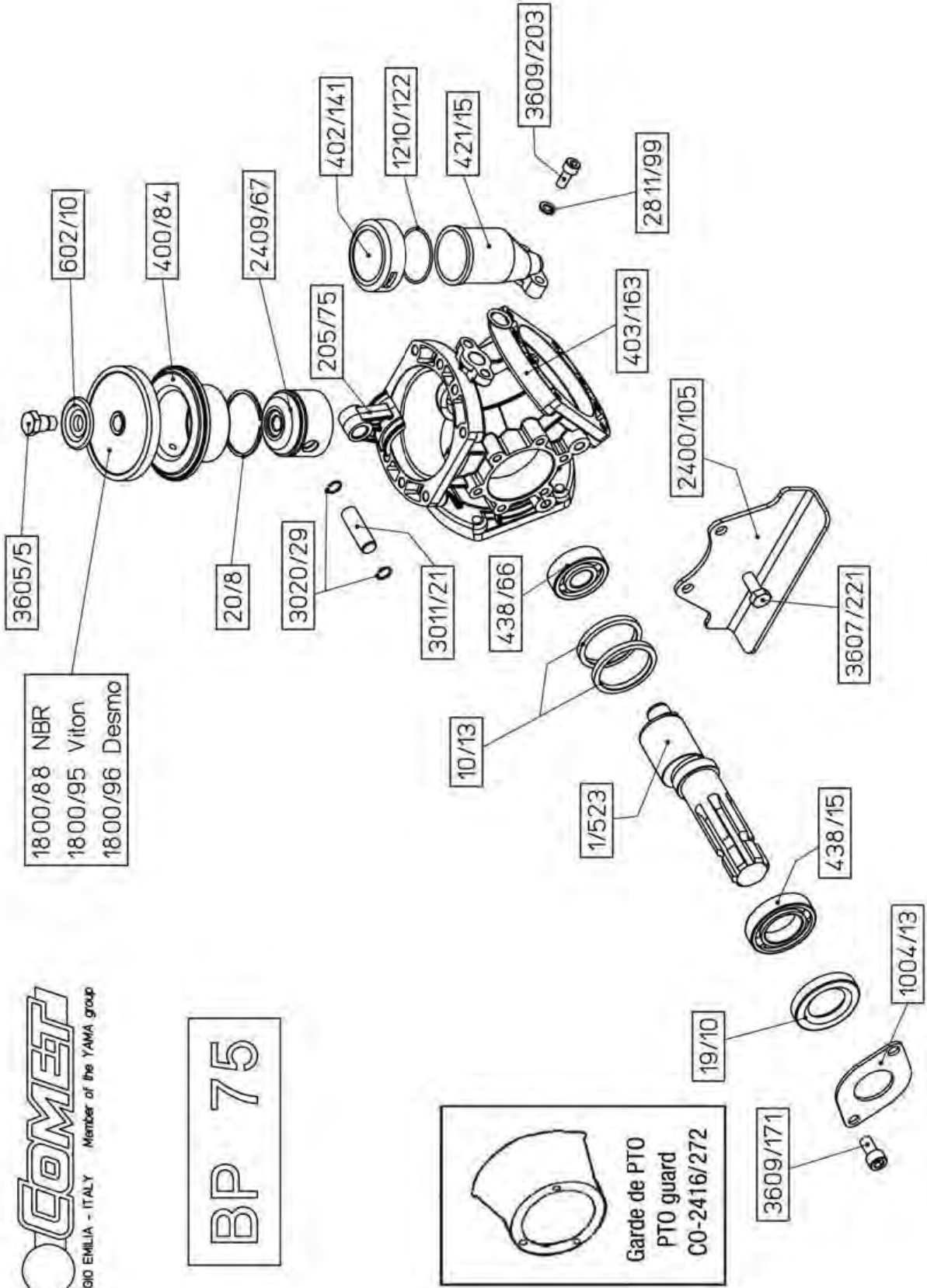
CO-1204/468
Régulateur assemblé / Regulation valve assembly



Ref	No MS	No Comet	Description	Note	Qty
1	CO-3202/254	3202 0254	Plug		1
2	CO-1223/97	1223 0097	Adjustable Nut		1
3	CO-1209/44	1209 0044	Gasket	Ø14x22x2	1
4	CO-1600/76	1600 0076	Lever		1
5	CO-1802/43	1802 0043	Spring (Wire Ø2,8)	Øe20x58	1
7	CO-2426/24	2426 0024	Guide		1
8	CO-1210/72	1210 0072	Viton® O-Ring	Ø2x6	1
9	CO-1210/461	1210 0461	O-Ring	Ø2x32	1
10	CO-424/367	0424 0367	Regulation Valve Body		1
11	CO-1210/79	1210 0079	O-Ring	Ø2,62x26,65	1
12	CO-3600/9	3600 0009	Pressure Valve		1
13	CO-3009/133	3009 0133	Valve Seat		1
14	CO-1210/21	1210 0021	O-Ring	Ø2,62x15,54	1
29	CO-1200/59	1200 0059	Wing Nut	G3/4	1
30	CO-2800/102	2800 0102	Straight Hose By-pass Tail	Ø13 X GAL G3/4	1
31	CO-1210/36	1210 0036	O-Ring	Ø2,62x13,1	1
32	CO-3005/27	3005 0027	Pin	4x40	1
33	CO-1202/51	1202 0051	Hook		1
15	CO-424/371	0424 0371	Control Assembly Body		1
23	CO-2803/372	2803 0372	Hose Tail		1
24	CO-2811/30	2811 0030	Washer	Ø6,4x12,5x1,6	2
25	CO-604/11	0604 0011	Nut	M6xSP8	2
26	CO-1200/27	1200 0027	Wing Nut	1/2" GAS	1
27	CO-1209/13	1209 0013	Gasket	Ø12x18x2	1
28	CO-2802/20	2802 0020	Delivery Hose Tail	Ø10x13	1
34	CO-1816/33	1816 0033	Pressure Gauge	20 bar	1
35	CO-3607/152	3607 0152	Hexagonal Screw	M6x60	2
22	CO-1210/25	1210 0025	O-Ring	Ø2,9x13,8	1

Avant 2004 voir p.1 / Before 2004 see p.1

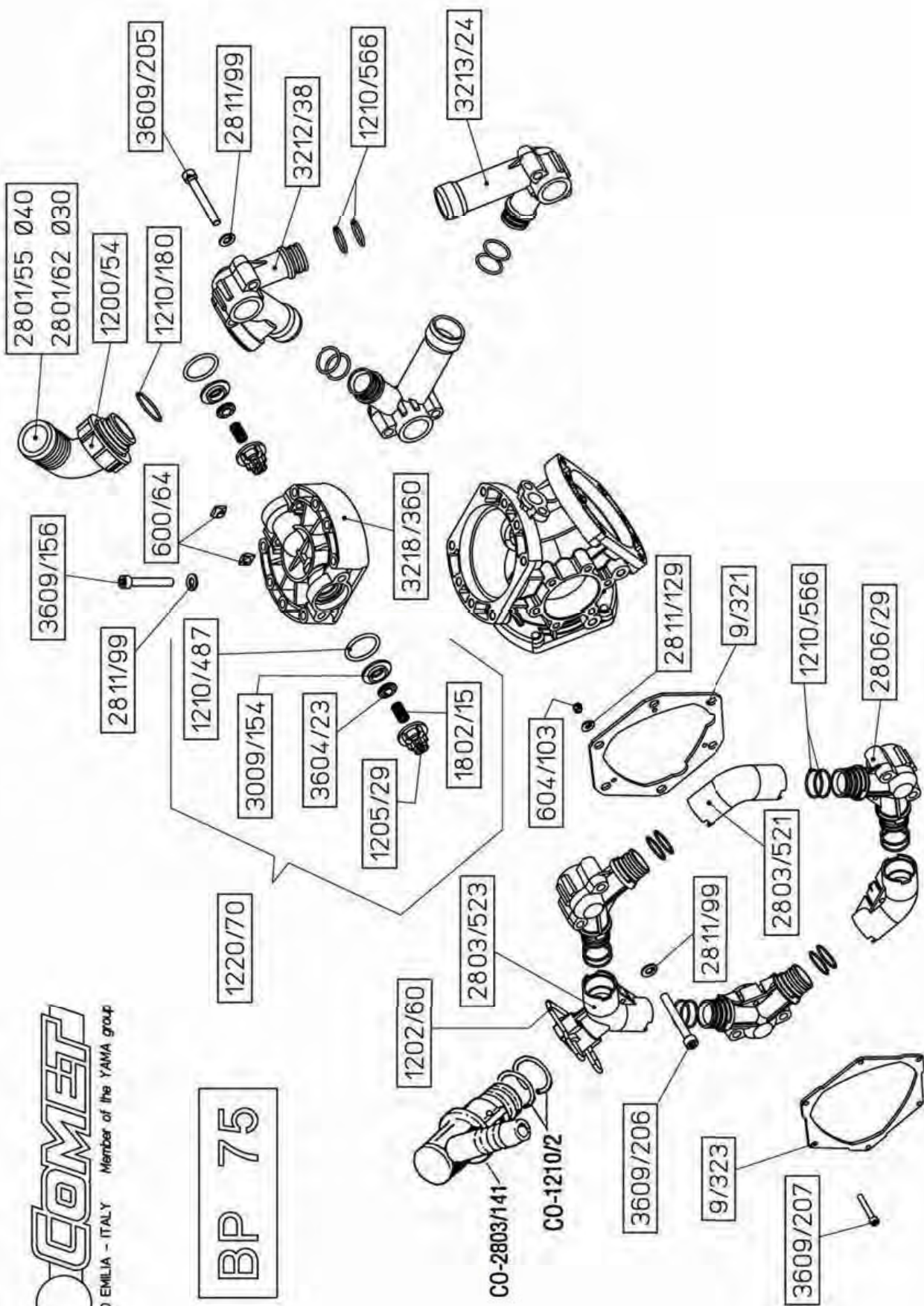
BP 75

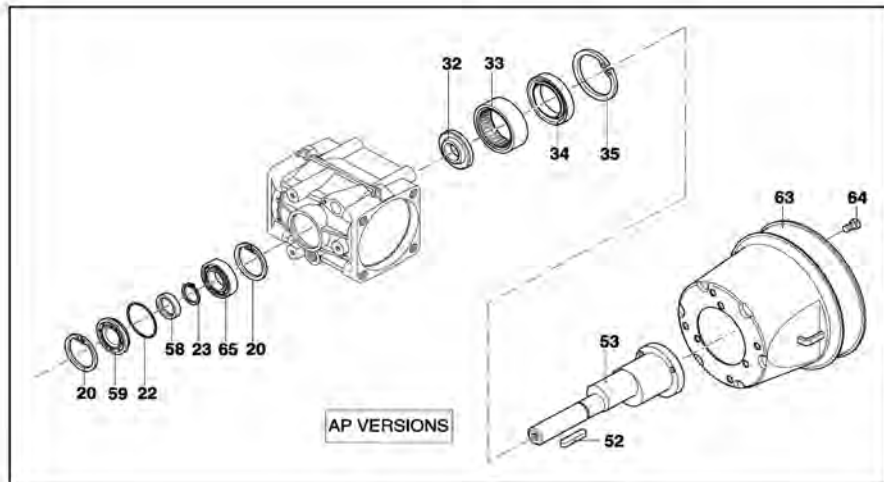
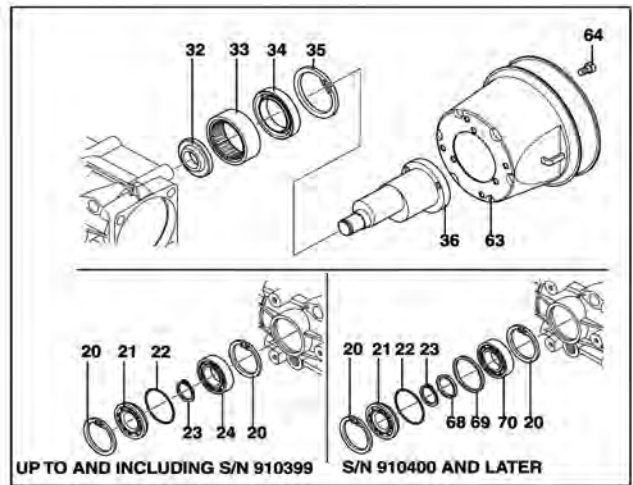
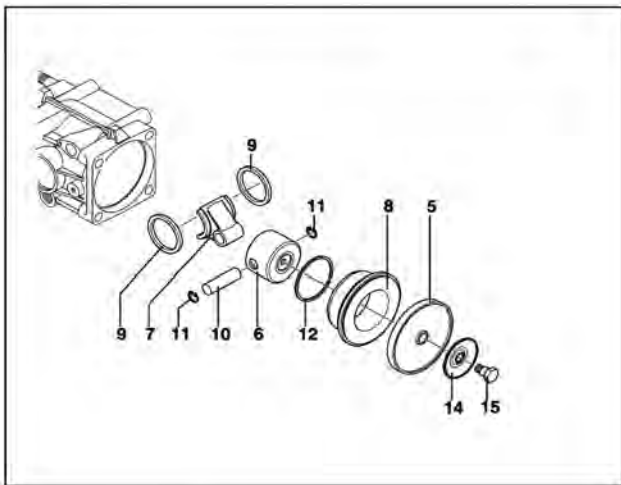
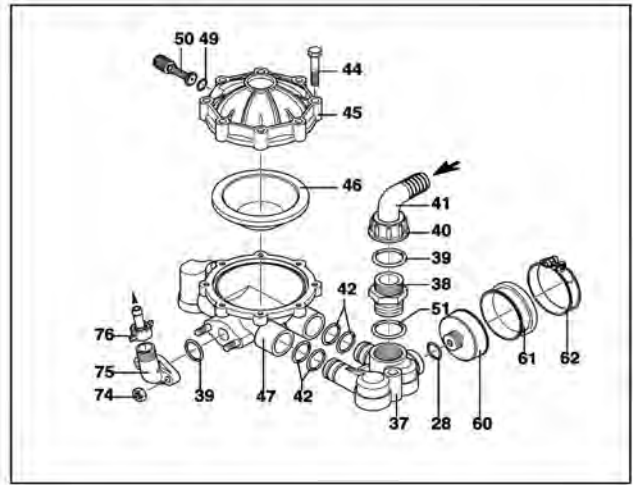
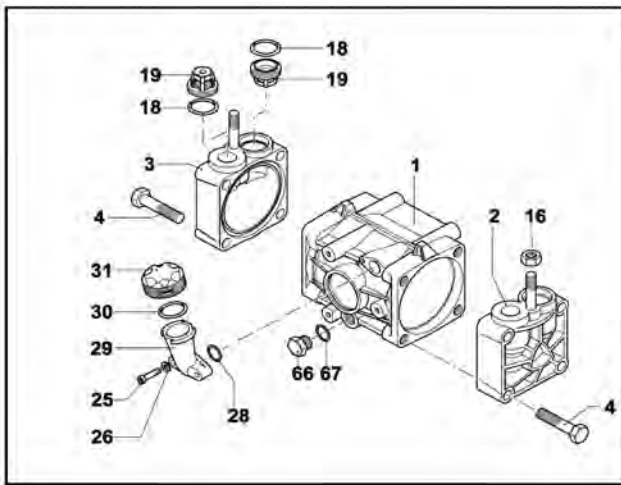




REGGIO EMILIA - ITALY Member of the YAMAHA group

BP 75





REF	Nº	DESCRIPTION	Q	REF	Nº	DESCRIPTION	Q
1	JB-9910629011	Pump Body w/bolts	1	36	JB-9910620170	Crankshaft	1
2	JB-9910620101	Right Head Assembly (DX)	1	37	JB-9910620150	Suction Manifold	1
3	JB-9910620102	Left Head Assembly (SX)	1	38	JB-9910550340	Threaded Adapter	1
4	JB-9910621430	Bolt 12 x 55	8	39 ³	JB-9910550350	O-Ring	2
5 ¹	JB-9910620085	Diaphragm, Desmopan (Std.)	2	40	JB-9910550242	Ring Nut	1
5	JB-9910620080	Diaphragm, Buna-N (Opt.)	2	41	JB-9910550370	Hose Barb 1"	1
6	JB-9910620120	Piston	2	42 ³	JB-9910390060	O-Ring	4
7	JB-9910620140	Connecting Rod	2	44	JB-9910621780	M8 X 40 Bolt	8
8	JB-9910620110	Sleeve	2	45	JB-9910629211	Upper Air Chamber	1
9	JB-9910580470	Retainer Ring	2	46 ¹	JB-9910550190	Accumulator Diaphragm, Buna-N	1
10	JB-9910380300	Connecting Rod Pin	2	47	JB-9910622070	Lower Air Chamber Body	1
11	JB-9910380080	Ring Pin	4	49 ³	JB-9910650542	O-Ring	1
12	JB-9910160230	Piston Ring	2	50	JB-9910180020	Air Valve	1
14	JB-99101040180	Retaining Washer	2	51 ³	JB-9910390290	O-Ring	1
15	JB-9910580360	Diaphragm Bolt	2	52	JB-9910620680	Key (AP-A Model)	1
16	JB-9910180150	Nut	2	53	JB-9910620172	Thru-Shaft 20 mm Dia. "AP Version"	1
18 ^{1,2,3}	JB-9910620030	O-Ring	4	53	JB-9910620174	Thru-Shaft 3/4" Dia. "AP Version"	1
19 ²	JB-99101409050	Complete Valve Assembly	4	58	JB-9910620630	Seal	1
20	JB-9910111120	Retaining Ring	2	59	JB-9910620021	Cover	1
21	JB-9910620020	Cover	1	60	JB-9910650660	Diaphragm Holder	1
22 ³	JB-9910620210	O-Ring	1	61	JB-9910650670	Suction Diaphragm	1
23	JB-9910620291	Retaining Ring	1	62	JB-9910650690	Clamp	1
24	JB-9910620191	Bearing	1	63	JB-99101500350	PTO Shield	1
25	JB-9910850850	M6 X 30 Bolt	2	64	JB-9910820670	M10 X 16 Bolt	4
26	JB-9910550331	Washer	2	65	JB-9919620190	Bearing	1
28 ³	JB-9910180101	O-Ring	2	66	JB-24060023	Drain Plug, oil	1
29	JB-9910550030	Oil Sight Glass	1	67 ³	JB-9910740290	O-Ring	1
30 ³	JB-9910550040	O-Ring	1	68	JB-9910620930	Spacer	1
31	JB-9910550056	Oil Sight Glass Cap	1	69	JB-9910620940	Spacer	1
32	JB-9910620160	Spacer	1	70	JB-9910380230	Bearing	1
33	JB-9910550060	Roller Bearing	1	74	JB-9910390270	Nut	2
34	JB-9910620130	Seal	1	75	JB-9910450145	Flange	1
35	JB-9910620330	Retaining Ring	1	76	JB-9910110130	1/2" Fitting plus Hose Barb	1

1 Denotes Diaphragm Kit 9910-KIT1724
 2 Denotes Valve Kit 9910-KIT1917
 3 Denotes O-Ring Kit 9910-KIT1916

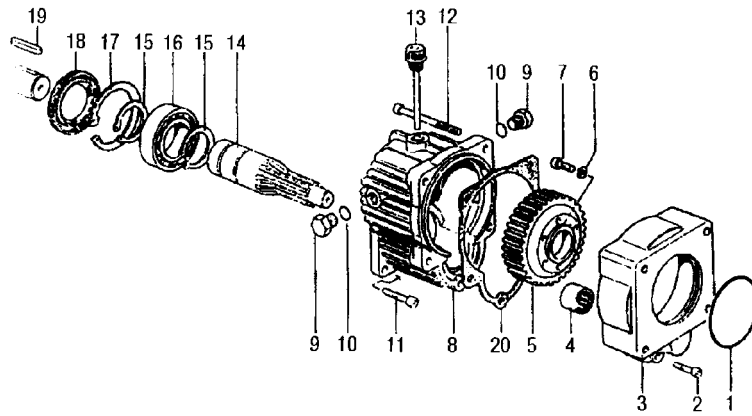
REF	DESCRIPTION	Tightening Torque	
		In. Lbs.	Nm
4	Bolt	393.7	44.1
15	Bolt	262.5	29.4
16	Nut	350.0	39.2
25	M6 x 30 Bolt	87.5	9.8
44	M8 x 40 Bolt	175.0	19.6
64	M10 x 16 Bolt	87.5	9.8
74	Nut	175.0	19.6

JB-9910-KIT1724 Diaphragm Kit Desmopan	
Ref. No.	Qty.
5	2
18	4
46	1

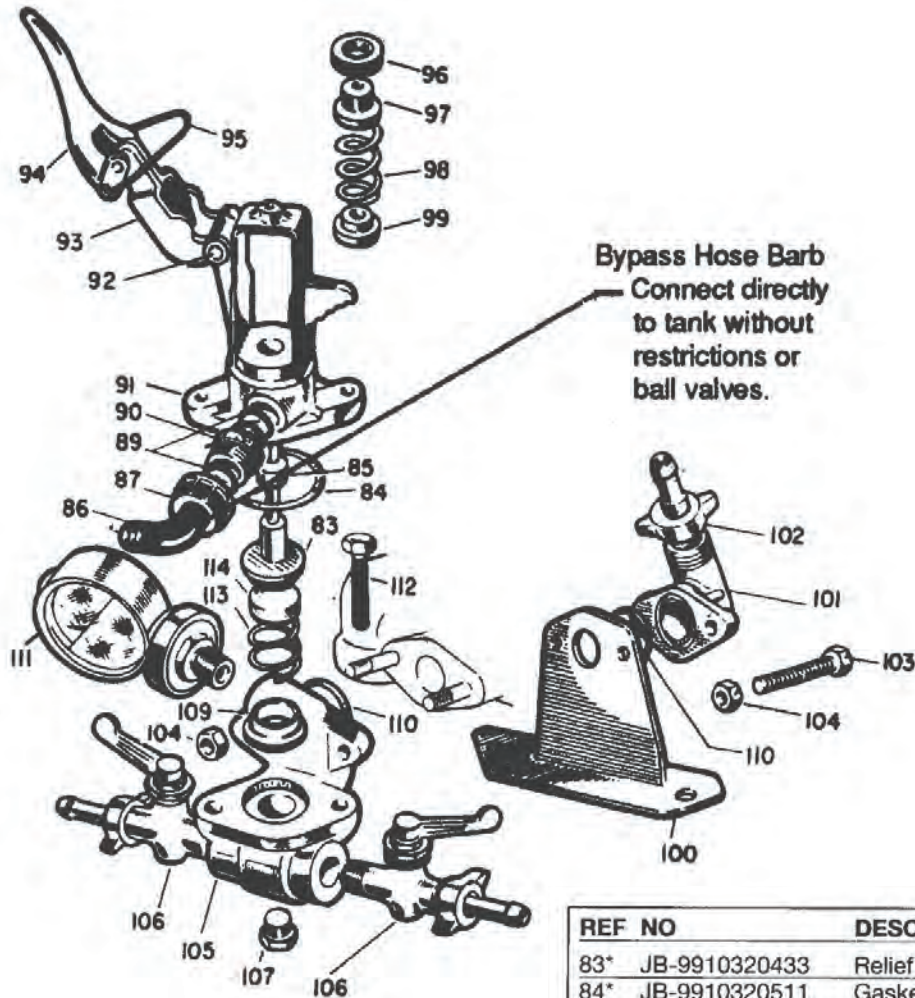
JB-9910-KIT1917 Valve Kit	
Ref. No.	Qty.
18	4
18	4

JB-9910-KIT1916 O-Ring Kit	
Ref. No.	Qty.
18	4
22	1
28	2
30	1
39	2
42	4
49	1
51	1
67	1

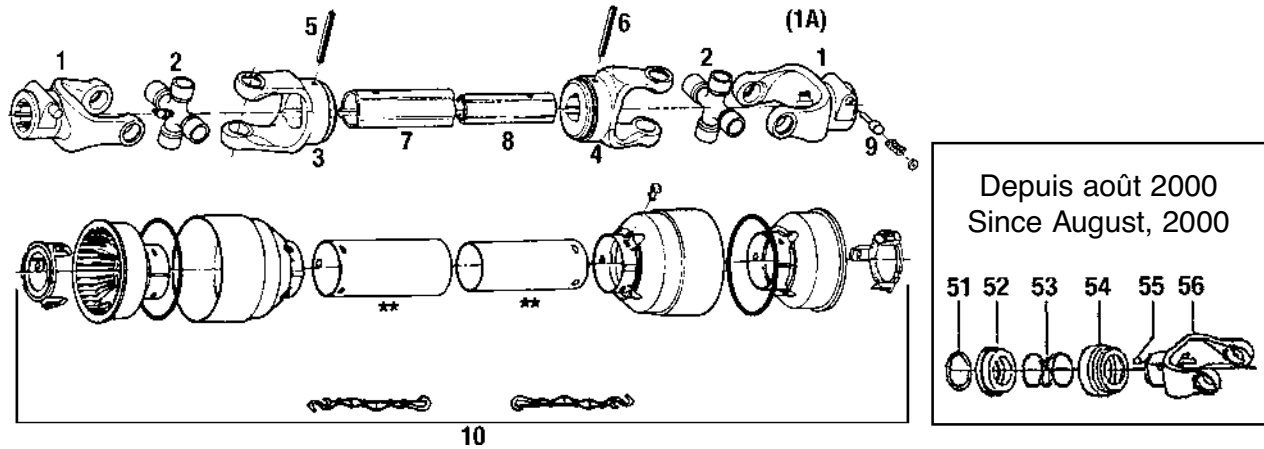
NOUVEAU MODÈLE pour pompes D30
 / **NEW MODEL** for D30 pumps



REF NO	DESCRIPTION	Q
1	JB-9910620561 O-ring	1
2	JB-9910180030 Bolt	1
3	JB-9910621000 Pump adapter flange	1
4	JB-9910620990 Bearing	1
5	JB-9910620980 Gear	1
6	JB-9910200231 Lock washer	6
7	JB-9910160671 Bolt	3
	JB-9910620470 Bolt	3
8	JB-9910620960 Gear box body	1
9	JB-9910880530 Plug	2
10	JB-9910740290 O-ring	2
11	JB-9910651000 Bolt	4
12	JB-9910621010 Bolt	4
13	JB-99101260480 Vent plug	1
14	JB-9910620970 Pinion gear	1
15	JB-9910320240 Snap ring	2
16	JB-9910961780 Bearing	1
17	JB-9910961790 Snap ring	1
18	JB-9910961800 Seal	1
19	JB-9910881090 Key	1
20	JB-9910620950 Gasket	1



REF NO	DESCRIPTION	Q
83*	JB-9910320433 Relief valve poppet retainer	1
84*	JB-9910320511 Gasket seal O-ring	1
85*	JB-9910390140 Tension spring guide / seal	1
86	JB-9910550460 Hose barb 3/4"	1
87	JB-9910550450 Barb nut	1
89	JB-9910180101 O-ring	2
90	JB-9910550440 Threaded adapter	1
91	JB-9910320410 Tension spring housing	1
92	JB-9910320480 Pin	2
93	JB-9910320460 Lever guide	1
94	JB-9910320470 Pressure release lever	1
95	JB-9910320490 Locking clip	1
96	JB-9910320450 Pressure adjustment nut	1
97	JB-9910320440 Threaded guide	1
98	JB-991010190 Tension spring	1
99	JB-9910620810 Tension spring (opt.) (for under 100 psi)	1
99	JB-9910230120 Tension spring retainer	1
100	JB-9910320406 Remote discharge mounting bracket	1
101	JB-9910450145 Discharge flange housing	1
102	JB-991010130 1/2" hose barb & nut 3/8" (JB-991010131)	1
103	JB-9910160660 Bolt (8MA x 35)	2
104	JB-9910390270 Nut	2
105	JB-9910620220 Relief valve body	1
106	JB-991030490 Ball valve	2
107	JB-991030171 Plug	1
109*	JB-9910450110 Seat	1
110	JB-9910550350 O-ring	1
111	JB-26400001 Pressure gauge (oil filled)	1
112	JB-9910180370 Bolt (8MA x 25)	1
113*	JB-9910320420 Tension spring	2
114*	JB-991010121 Relief valve seat	1
REPAIR & MAINTENANCE KIT AVAILABLE		
*	JB-9910KIT1757 Control unit parts kit	



Series	T20	T20	T20	T50	T60		
**	26-1/2"	47-1/2"	26-1/2"	26-1/2"	26-1/2"		
REF	CA-PT001	CA-PT002	CA-PT003	CA-PT005	CA-PT006	DESCRIPTION	Q
1	CA-022001	CA-022001				Yoke, 1-3/8" x 6 splines	1
			CA-022001	CA-141025001	CA-141026544	Yoke, 1-3/8 x 6 splines	2
1A	CA-012304					Yoke, 1"	1
		CA-022108				Yoke, 1-1/4"	1
2	CA-41202	CA-41202	CA-41202	CA-180015130	CA-180016130	Cross	2
3	CA-012003	CA-012003	CA-012003	CA-151015011	CA-151016028	Outer yoke	1
4	CA-012002	CA-012002	CA-012002	CA-151015012	CA-151016029	Inner yoke	1
5	CA-190000014	CA-190000014	CA-190000014	CA-190000016	CA-190000018	Pin	1
6	CA-190000012	CA-190000012	CA-190000012	CA-190000394	CA-190000016	Pin	1
7	CA-191120200300	CA-191120200300	CA-191120200300	CA-191150200	CA-191160200	Outer tube	1
8	CA-191120100300	CA-191120100300	CA-191120100300	CA-191150100	CA-191150100	Inner tube	1
9	CA-166026004	CA-166026004	CA-166026004	CA-166026004	CA-166026004	Spring and pin	1
10	CA-220209	CA-220214	CA-220209	CA-142250209	CA-142260030	Guard assy	1
51	CA-190000451	CA-190000451	CA-190000451		CA-190000451	Outer clip	1
52	CA-151016486	CA-151016486	CA-151016486		CA-151016486	Sliding sleeve collar	1
53	CA-180016487	CA-180016487	CA-180016487		CA-180016487	Spring	1
54	CA-180016483	CA-180016483	CA-180016483		CA-180016483	Fixed sleeve	1
55	CA-190000078	CA-190000078	CA-190000078		CA-190000078	Ball ø 1/2"	1
56	CA-151012324	CA-151012324	CA-151012324			Yoke C12	1

** Cross CC length

Series	T20	T40	T40	T40	T20		
**	36"	19"	48"	SIMPLE	SIMPLE		
REF	CA-PT007	CA-PT008	CA-PT00448	CA-PT009	CA-PT010	DESCRIPTION	Q
1	CA-022001	CA-141024430		CA-141024430	CA-022001	Yoke, 1-3/8" x 6 splines	1
			CA-141024430			Yoke, 1-3/8 x 6 splines	2
1A					CA-151014303	Yoke, 1"	1
	CA-022108	CA-151014302		CA-151014302		Yoke, 1-1/4"	1
2	CA-41202	CA-180014130	CA-180014130	—	CA-41202	Cross	2
3	CA-012003	CA-151014006	CA-151014006	—	—	Outer yoke	1
4	CA-012002	CA-151014007	CA-151014007	—	—	Inner yoke	1
5	CA-190000014	CA-190000014	CA-190000014	—	—	Pin	1
6	CA-190000012	CA-190000012	CA-190000012	—	—	Pin	1
7	CA-191120200300	CA-191130200	CA-191130200	—	—	Outer tube	1
8	CA-191120100300	CA-191140100	CA-191140100	—	—	Inner tube	1
9	CA-166026004	CA-166026004	CA-166026004	—	—	Spring and pin	1
10	CA-220214	CA-142240209	CA-142240209	—	—	Guard assy	1
51	CA-190000451	CA-190000451	CA-190000451	—	—	Outer clip	1
52	CA-151016486	CA-151016486	CA-151016486	—	—	Sliding sleeve collar	1
53	CA-180016487	CA-180016487	CA-180016487	—	—	Spring	1
54	CA-180016483	CA-180016483	CA-180016483	—	—	Fixed sleeve	1
55	CA-190000078	CA-190000078	CA-190000078	—	—	Ball ø 1/2"	1
56	CA-151012324			—	—	Yoke C12	1

** Cross CC length

Series	T20	T20	T40	T40	T20		
**	19"	19"	19"	26-1/2"	36"		
REF	CA-PT00119	CA-PT00319	CA-PT00419	CA-PT00426	CA-PT00758	DESCRIPTION	Q
1	CA-022001					Yoke, 1-3/8" x 6 splines	1
		CA-022001	CA-141024430	CA-141024430	CA-022001	Yoke, 1-3/8 x 6 splines	2
1A	CA-012304					Yoke, 1"	1
					CA-01230458	Yoke, 5/8"	1
2	CA-41202	CA-41202	CA-180014130	CA-180014130	CA-41202	Cross	2
3	CA-012003	CA-012003	CA-151014006	CA-151014006	CA-151015011	Outer yoke	1
4	CA-012002	CA-012002	CA-151014007	CA-151014007	CA-151015012	Inner yoke	1
5	CA-190000014	CA-190000014	CA-190000014	CA-190000014	CA-190000016	Pin	1
6	CA-190000012	CA-190000012	CA-190000012	CA-190000012	CA-190000394	Pin	1
7	CA-191120200300	CA-191120200300	CA-191130200	CA-191130200	CA-191150200	Outer tube	1
8	CA-191120100300	CA-191120100300	CA-191140100	CA-191140100	CA-191150100	Inner tube	1
9	CA-166026004	CA-166026004	CA-166026004	CA-166026004	CA-166026004	Spring and pin	1
10	CA-220209	CA-220209	CA-142240209	CA-142240209	CA-142220211	Guard assy	1
51	CA-190000451	CA-190000451	CA-190000451	CA-190000451	CA-190000451	Outer clip	1
52	CA-151016486	CA-151016486	CA-151016486	CA-151016486	CA-151016486	Sliding sleeve collar	1
53	CA-180016487	CA-180016487	CA-180016487	CA-180016487	CA-180016487	Spring	1
54	CA-180016483	CA-180016483	CA-180016483	CA-180016483	CA-180016483	Fixed sleeve	1
55	CA-190000078	CA-190000078	CA-190000078	CA-190000078	CA-190000078	Ball ø 1/2"	1
56	CA-151012324	CA-151012324			CA-151012324	Yoke C12	1

** Cross CC lenght



comer industries
driveshafts



comer industries
mechatronic solutions



AVANT-PROPOS

COMER INDUSTRIES S.p.A place depuis toujours la sécurité en tête des facteurs à prendre en compte lors du développement et de la fabrication de ses produits qui sont conformes aux normes ISO et aux directives de l'U.E. en matière de sécurité.

Les informations sur la sécurité et l'utilisation sont fournies par les autocollants appliqués et par la notice qui accompagne chaque transmission fournie.

Le client est prié d'informer Comer Industries S.p.A. sur le pays de destination des transmissions afin de pouvoir les doter des étiquettes et des notices appropriées

ARBRES A CARDAN

Transmissions primaires CE

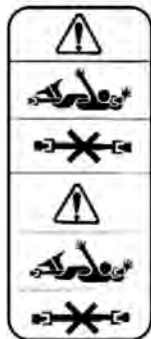
Elles relient le tracteur à la machine opératrice et sont équipées de :

- Marquage CE
- Autocollants d'instructions de sécurité
- Notice CE
- Chaînes anti-rotation



cod. 190.000.359

Autocollant d'instructions de sécurité sur le tube de protection extérieur



cod. 190.000.358

Autocollant d'instructions de sécurité sur le tube en acier extérieur



Notice CE

Transmissions primaires USA

Elles relient le tracteur à la machine opératrice et sont équipées de :

- Autocollants d'instructions de sécurité
- Notice
- Chaînes anti-rotation



cod. 190.000.099

Autocollant d'instructions de sécurité sur le tube de protection extérieur



cod. 190.000.098

Autocollant d'instructions de sécurité sur le tube en acier extérieur



cod. 190.000.371

Notice

Transmissions primaires CANADA

Elles relient le tracteur à la machine opératrice et sont équipées de :

- Autocollants d'instructions de sécurité
- Notice
- Chaînes anti-rotation



cod. 190.000.359



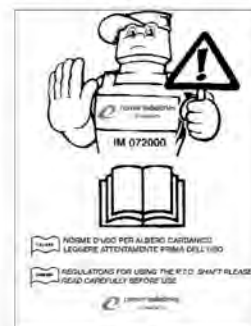
cod. 190.000.215

Autocollant d'instructions de sécurité sur le tube de protection extérieur



cod. 190.000.216

Autocollant d'instructions de sécurité sur le tube en acier extérieur



cod. 190.000.371

Notice



L'arbre à cardan est disponible en option sans les protections. Dans ce cas, c'est à l'acheteur qu'incombe la responsabilité de faire homologuer la machine complète (arbre à cardan compris) conformément à la Directive Machines et de protéger la transmission à cardan avec des protections idoine

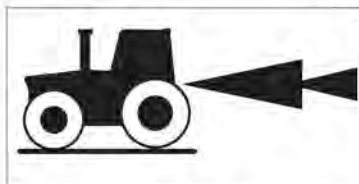
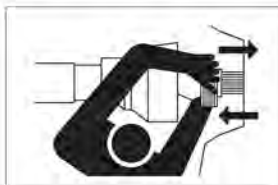
Conseils d'utilisation



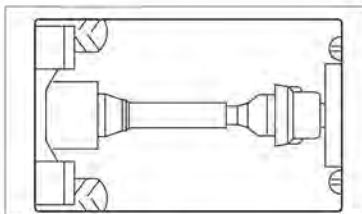
Les indications ci-dessous concernent votre sécurité



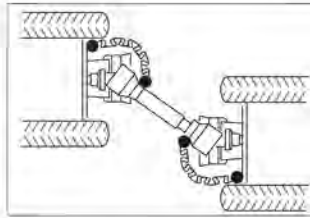
Avant de commencer à travailler, vérifiez :



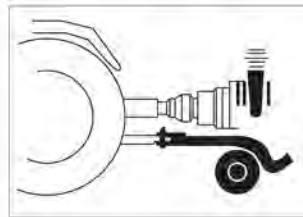
la bonne fixation de la transmission à cardan au tracteur et à la machine opératrice. (Le tracteur estampillé sur la protection indique le côté tracteur).



la présence et le fonctionnement de toutes les protections de la transmission. En cas de besoin, remplacez les éléments endommagés ou manquants par des pièces d'origine en veillant à les monter correctement



si les chaînes sont fixées de façon à permettre l'articulation de la transmission dans chaque condition d'exercice et de transport



si les machines stationnaires (pompes, générateurs, etc.) sont bien fixées au tracteur et respectent la superposition des éléments télescopiques.



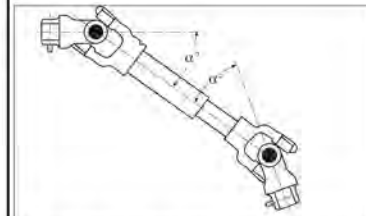
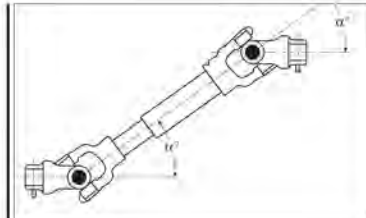
si la longueur, la dimension de la transmission à cardan ainsi que son dispositif éventuel sont adaptés à l'usage que l'on souhaite en faire (vérifiez dans la notice si la transmission doit être équipée d'un limiteur de couple ou d'une roue libre).



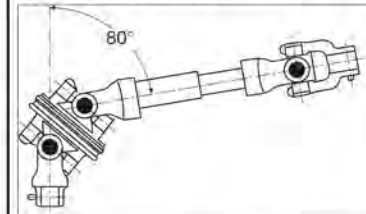
Pendant l'utilisation veillez à ce que :



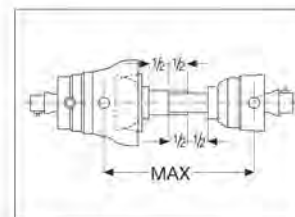
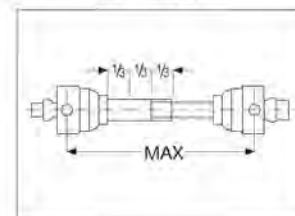
la transmission à cardan ne dépasse pas la vitesse et la puissance prévues dans le manuel de la machine.
Le dispositif de sécurité doit toujours être utilisé du côté de la machine. Toutes les pièces en mouvement sont protégées



les angles d'articulation doivent être contenus et égaux. En cas de manoeuvre de plus de 35°, débrayez la prise de force



le joint homocinétique n'opère pas en continu à un angle proche de 80°, mais seulement pour de courtes durées (braquage)



les éléments télescopiques de la transmission se superposent toujours sur 1/3 dans les transmissions STD et de 1/2 dans les transmissions à joint homocinétique

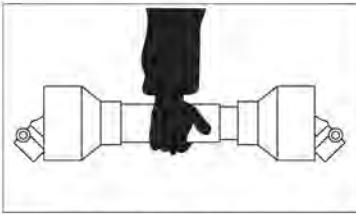


les vêtements de travail portés ne doivent pas être amples ou débouffonnés de façon à ce qu'ils ne soient pas happés par la machine et être la cause de graves accidents

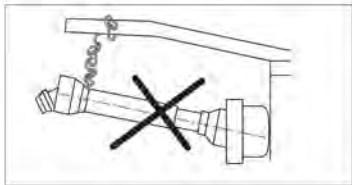




Conseils d'utilisation



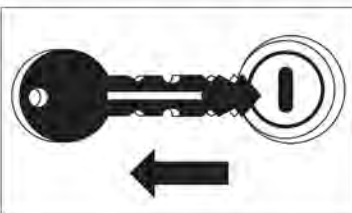
La transmission doit être maintenue horizontalement pour ne pas la faire glisser en provoquant des accidents ou un endommagement des protections. Utilisez des engins de manutention appropriés en fonction de son poids



N'utilisez pas de chaînes pour manutentionner la transmission à cardan à la fin de son utilisation. Utilisez un support adéquat



N'utilisez pas la transmission comme support ou marchepied



Coupez le moteur, retirez la clé de contact et vérifiez si toutes les pièces en mouvement se sont arrêtées avant de vous approcher de la machine opératrice ou d'accomplir des opérations d'entretien



En cas de mauvaise visibilité ou de travail nocturne, la zone de travail de la transmission doit être suffisamment éclairée aussi bien pendant la phase de montage que durant l'utilisation



Le dispositif de limitation peut atteindre des températures élevées,

NE PAS TOUCHER !

La zone adjacente doit toujours être propre afin de prévenir tout risque d'incendie

BOLS DE PROTECTION

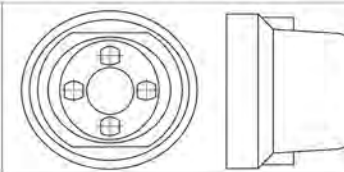
La Directive Machines (CEE 89/392, 91/368, 93/44, 93/68) prescrit que la prise de force sur la machine opératrice doit être dotée d'une protection permettant le montage et l'articulation de la transmission à cardan tout en garantissant (selon la norme prEN 1553) une superposition minimum de 50mm avec la protection de la transmission à cardan alignée.

Les bols de protection Comer Industries S.p.A. ont été conçus conformément aux normes internationales et sont accompagnés d'une notice CE contenant la déclaration de conformité.

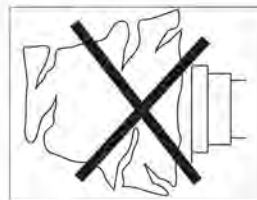
Etant donné la grande variété des machines opératrices et de leurs applications, c'est au fabricant de la machine de choisir le bol plus approprié en fonction des conditions d'exercice, des dimensions et de l'articulation de la transmission à cardan.

Comer Industries S.p.A. conseille de vérifier sur le terrain les conditions réelles d'exercice et la validité du bol

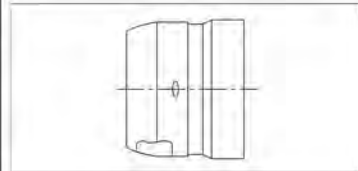
Conseils d'utilisation



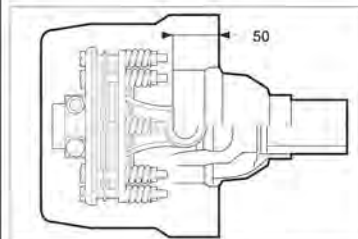
Le vis et les rondelles de fixation du bol doivent être contenues dans la surface plane et ne doivent pas être desserrées



Les bols doivent toujours être en parfait état, remplacez-les en cas de besoin mais toujours par des pièces d'origine

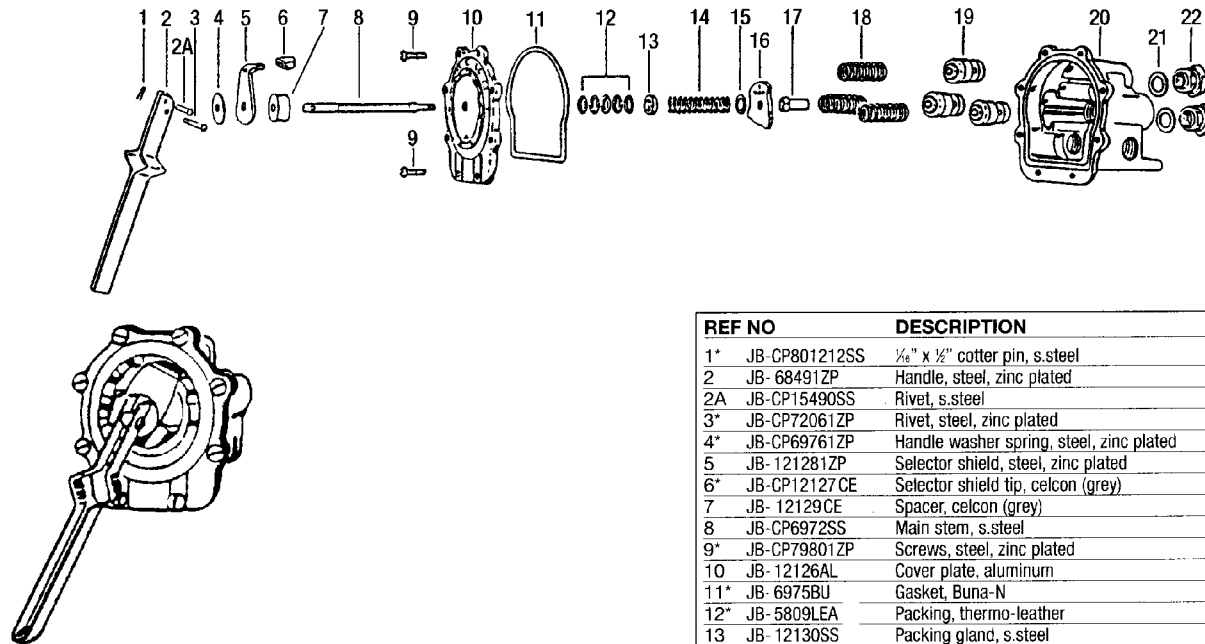


N'utilisez jamais le bol comme support ou marchepied. Si un couvercle est prévu, vérifiez s'il est bien fermé



Le bol doit surmonter la protection de l'arbre à cardan de 50 mm au moins





Ce sélecteur de type rotatif est simple à utiliser. Tourner la manette à la position désirée. Tirer la manette en position horizontale pour permettre l'écoulement aux sections de la rampe.

- L = section de gauche
- C = section centrale
- R = section de droite
- LC = sections gauche & centrale
- LR = sections gauche & droite
- CR = sections centrale & droite
- LCR = toutes les sections

This type of selector is very easy to use. Turn the handle at the desired position. Pull the handle in horizontal position to let the flow go to the boom sections.

- L = left boom
- C = center boom
- R = right boom
- LC = left and center booms
- LR = left and right booms
- CR = center and right booms
- LCR = all together

REF NO	DESCRIPTION	Q
1*	JB-CP801212SS 1/8" x 1/2" cotter pin, s.steel	1
2	JB-68491ZP Handle, steel, zinc plated	1
2A	JB-CP15490SS Rivet, s.steel	1
3*	JB-CP72061ZP Rivet, steel, zinc plated	1
4*	JB-CP69761ZP Handle washer spring, steel, zinc plated	1
5	JB-121281ZP Selector shield, steel, zinc plated	1
6*	JB-CP12127CE Selector shield tip, celcon (grey)	1
7	JB-12129CE Spacer, celcon (grey)	1
8	JB-CP6972SS Main stem, s.steel	1
9*	JB-CP79801ZP Screws, steel, zinc plated	8
10	JB-12126AL Cover plate, aluminum	1
11*	JB-6975BU Gasket, Buna-N	1
12*	JB-5809LEA Packing, thermo-leather	5
13	JB-12130SS Packing gland, s.steel	1
14	JB-CP7254SS Main spring, s.steel	1
15	JB-CP7987SS Washer, s.steel	1
16	JB-6971AL Selector cam, aluminum	1
17	JB-CP6973SS Guide nut, s.steel	1
18	JB-CP6959SS Valve spring, s.steel	3
19	JB-6956CE Valve stem, celcon	3
20	JB-CP693412AL Body, aluminum (JB-17A thru JB-17F)	1
	JB-CP693434AL Body, aluminum (JB-17G thru JB-17L)	1
	JB-CP6934112AL Body, aluminum (JB-17M thru JB-17S)	1
	JB-CP6934134AL Body, aluminum (JB-17T thru JB-17Y)	1
21*	JB-6958POL Seat plate, polyethylene	3
22	JB-CP7261AL Outlet adapters, aluminum (JB-17A, G, M, T)	3
	JB-CP6957AL Outlet adapters, aluminum ((JB-17B, H, N, U)	3
	JB-CP7262AL Outlet adapters, aluminum (JB-17C, I, P, V)	3
	JB-CP7350AL Outlet adapters, aluminum (JB-17D, J, Q, W)	3
	JB-CP7735AL Outlet adapters, aluminum (JB-17E, K, R, X)	3
	JB-7902AL Outlet adapters, aluminum (JB-17F, L, S, Y)	3
*	JB-AB17 Repair kit, incl. all items marked with *	



comer industries
driveshafts





INTRODUCTION

COMER INDUSTRIES S.p.A has always considered safety to be one of the most important design and construction parameters for its products which are all built in full compliance with the international ISO standard and EU safety regulations. Information on safety and on correct final user's application of the PTO drive shaft are supplied in safety labels and in the "Use and Maintenance" Manual provided with all PTO drive shafts. It is the customer responsibility to inform Comer Industries S.p.A. about the Country to which the PTO drive shafts will be delivered, in order to provide them with the suitable Manuals and Labels

PTO DRIVE SHAFTS

Primary transmissions - CE

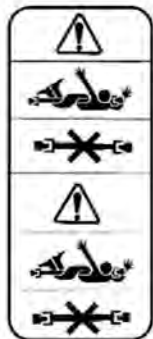
They connect the tractor to the operating machinery and are equipped with:

- CE Mark
- Safety labels
- CE instruction handbook
- anti-rotation chains



cod. 190.000.359

Label on outer protective tube



cod. 190.000.358

Label on outer steel tube



GB

CE "Use and Maintenance" handbook

Primary transmissions-USA

They connect the tractor to the operating machinery and are equipped with:

- Safety labels
- Instruction handbook
- Anti-rotation chains



cod. 190.000.099

Label on outer protective tube



cod. 190.000.098

Label on outer steel tube



REGOLAMENTO PER ALBERO CARDANICO: LEGGERE ATTENTAMENTE PRIMA DELL'USO.
REGULATIONS FOR USING THE P.T.O. SHAFT PLEASE READ CAREFULLY BEFORE USE.

cod. 190.000.371

"Use and Maintenance" handbook

Primary transmissions - CANADA

They connect the tractor to the operating machinery and are equipped with:

- Safety labels
- Instruction handbook
- Anti-rotation chains



cod. 190.000.359



cod. 190.000.215

Label on outer protective tube



cod. 190.000.216

Label on outer steel tube



REGOLAMENTO PER ALBERO CARDANICO: LEGGERE ATTENTAMENTE PRIMA DELL'USO.
REGULATIONS FOR USING THE P.T.O. SHAFT PLEASE READ CAREFULLY BEFORE USE.

cod. 190.000.371

"Use and Maintenance" handbook



On request, the drive shaft can be supplied without safety guards. In this case, the buyer is responsible for certifying the machine (including the shaft) according to the Machine Directive and for mounting suitable safety guards for the drive shaft

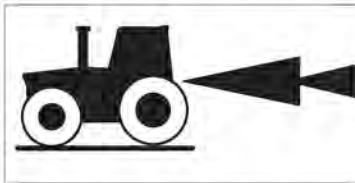
Operating instructions



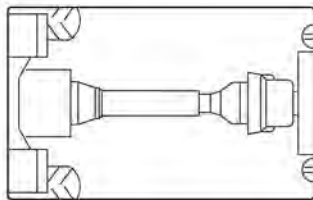
These rules concern your safety



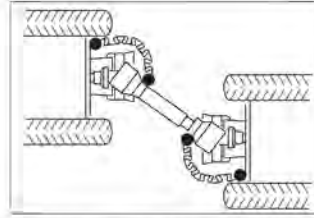
Before starting to work, make sure that:



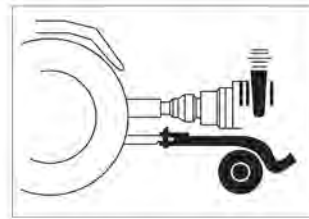
the transmission is correctly connected to the tractor and to the operating machinery (the picture of the small tractor stamped on the safety guard indicates the tractor side)



all the transmission safety guards are in position and operating efficiently. Any damaged or missing components must be replaced with original spare parts and installed correctly



the chains must be connected so that the transmission can move under all operating and transport conditions



the stationary machines (pumps, generators, etc.) are always coupled to the tractor and respect the position of the overlapping telescopic elements



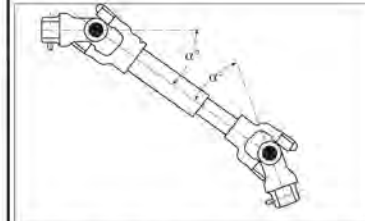
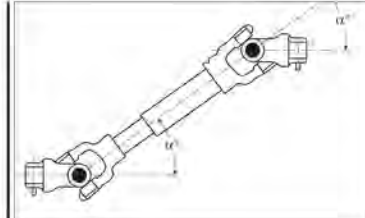
the drive shaft transmission in terms of length, size and any device (check the machine's instruction handbook if the transmission must be equipped with a torque limiter or overrunning clutch)



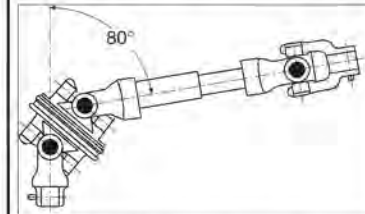
When using the transmission, make sure that:



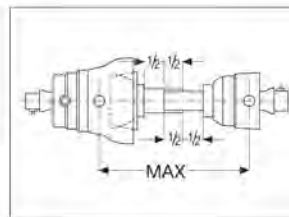
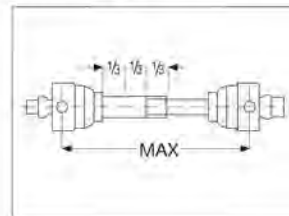
the drive shaft does not exceed the speed and power conditions defined in the machine's operating handbook. Any safety device must be engaged on the machine side. All rotating parts must be protected.



the joint angles are limited and equal; for operations that exceed 35°, disengage the power take-off



the PTO drive shaft joint does not operate continuously with an angle close to 80°, but only for brief periods (steering)



1/3 of the transmission's telescopic elements are always overlapping in the STD transmission and 1/2 in the PTO drive shaft transmissions

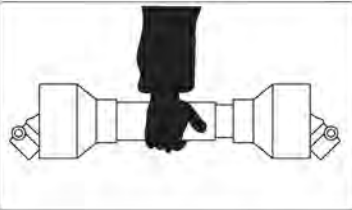


work clothes do not have belts, edges or parts that may get tangled. Any contact with rotating parts may cause serious accidents

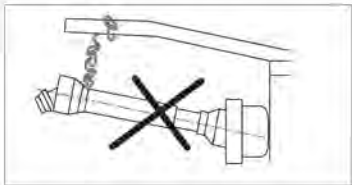




General rules



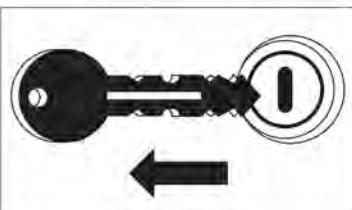
The transmission must be transported horizontally to prevent accidents (since it may slip out) or to avoid damage to safety guards. Depending on the weight, use a suitable means of transport



Do not use chains to transport or support the drive shaft after use. Use a special support



Do not use the transmission as a support or as a footboard



Turn off the engine, remove the key from the tractor and ensure that all rotating parts have stopped before getting close to the machinery or carrying out maintenance



The transmission work area must be illuminated during installation and use in case of poor visibility or night-time operation



Clutches may become very hot. **DO NOT TOUCH!** Keep the adjacent area clean to reduce the risk of fire

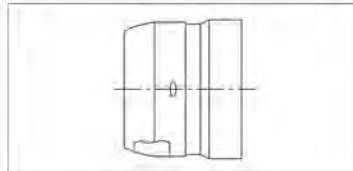
SAFETY SHROUDS

The Machine Directive (EEC 89/392, 91/368, 93/44, 93/68) states that the power take-off on operating machinery must be equipped with a safety shroud attached to it that allows the drive shaft to be assembled and to articulate and that guarantees (according to prEN 1553) overlapping of at least 50 mm with the aligned drive shaft safety guard.

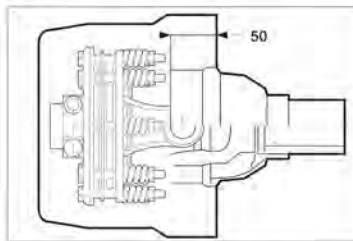
The Comer Industries S.p.A. shrouds are built in compliance with international requirements and standards and are supplied with a CE instruction sheet containing the declaration of conformity.

Considering the wide variety of operating machinery and applications, the machine manufacturer is responsible for selecting the shroud based on the use conditions, dimensions and articulation of the drive shaft.

Comer Industries S.p.A. recommends checking the real use conditions in the field as well as the suitability of the shroud

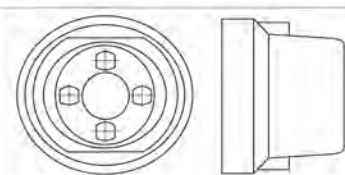


Do not use the shroud as a support or footboard. Any opening must be closed

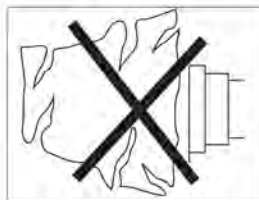


The shroud must overlap the drive shaft safety guard by at least 50 mm

General rules

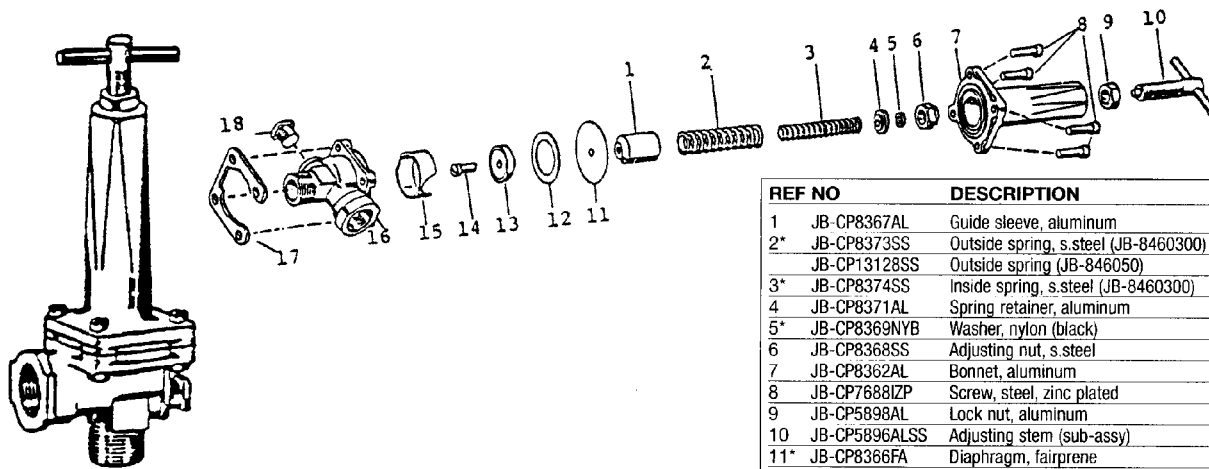


Shroud connecting screws and washers must remain within the flat surface and should not be loose.



Shrouds must not be damaged. If so, they must be replaced with original spare parts



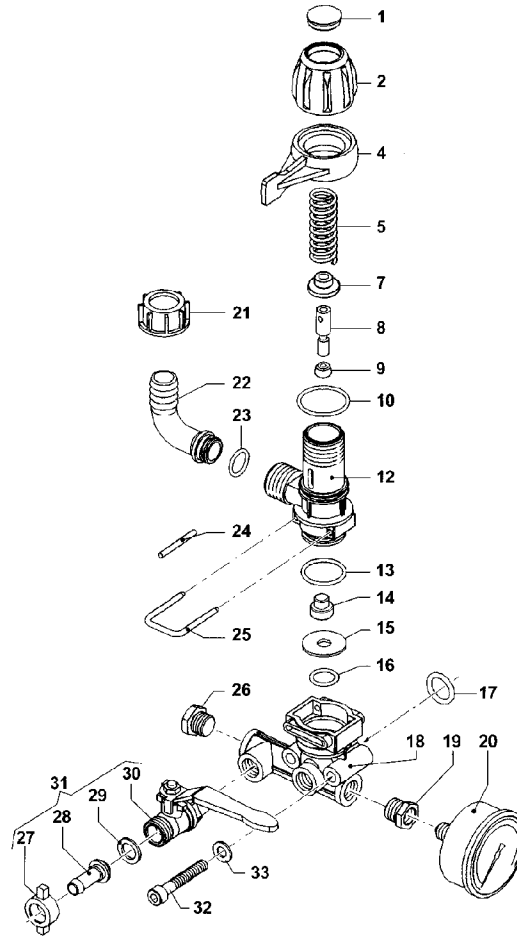


Ce régulateur raccordé au sélecteur 17Y permet d'augmenter ou de réduire la pression du système en tournant la poignée sur le dessus du régulateur. Avec une pompe centrifuge, ce régulateur est remplacé par une valve à billes.

This regulator hooked-up with the 17Y selector allows the operator to increase or decrease the pressure by turning the handle on this regulator. This is replaced by a ball-valve on centrifugal pump.

REF NO	DESCRIPTION	Q
1	JB-CP8367AL Guide sleeve, aluminum	1
2*	JB-CP8373SS Outside spring, s. steel (JB-8460300)	1
	JB-CP13128SS Outside spring (JB-846050)	1
3*	JB-CP8374SS Inside spring, s. steel (JB-8460300)	1
4	JB-CP8371AL Spring retainer, aluminum	1
5*	JB-CP8369NYB Washer, nylon (black)	1
6	JB-CP8368SS Adjusting nut, s. steel	1
7	JB-CP8362AL Bonnet, aluminum	1
8	JB-CP7688IZP Screw, steel, zinc plated	4
9	JB-CP5898AL Lock nut, aluminum	1
10	JB-CP5896ALSS Adjusting stem (sub-assy)	1
11*	JB-CP8366FA Diaphragm, fairprene	1
12	JB-CP8365304SS Stop ring, type 304, s. steel	1
13*	JB-CP8364NYB Back-up seat, nylon (black)	1
14	JB-CP8477SS Screw, s. steel	1
15	JB-CP8389304SS Chamber insert, type 304, s. steel	1
16	JB-CP836112NYB Body, nylon (black) (JB-846012)	1
	JB-CP836134NYB Body, nylon (black) (JB-846034)	1
17	JB-CP9017IZP Clamp plate, steel, zinc plated	1
18	JB-840014PPB Pipe plug, polypropylene (black)	1
	JB-AB8460 Repair kit, incl. all items marked with *	

Ref	No MS	Description	Qty
1	CO-3202/256	Plug, orange	1
2	CO-1223/97	Adjustable nut	1
4	CO-1600/76	Lever	1
5	CO-1802/212	Spring (wire ø3,7) øø21, 4x58	1
7	CO-9/266	Ring	1
8	CO-2426/25	Guide	1
9	CO-1216/6	Viton® gasket, ø6,2x10,1x3,2	1
10	CO-1210/461	O-ring, ø2x32	1
12	CO-424/367	Body	1
13	CO-1210/79	O-ring, ø2,62x26,65	1
14	CO-3600/100	Regulation valve	1
15	CO-3009/133	Regulation valve seat	1
16	CO-1210/21	O-ring, ø2,62x15,54	1
17	CO-1210/447	O-ring, ø3x19	1
18	CO-424/369	Body	1
19	CO-2825/6	M/F reduction, G 3/8 - G 1/4	1
20	CO-1816/113	Pressure gauge, 40 bar	1
21	CO-1200/59	Wing nut, G 3/4	1
22	CO-2801/80	Suction elbow tail, ø13 x gal G 3/4	1
23	CO-1210/36	O-ring, ø2,62x13,10	1
24	CO-3005/27	Pin, 4x40	1
25	CO-1202/51	Hook	1
26	CO-3200/7	Plug, 3/8 GAS	1
27	CO-1200/38	Wing nut, 1/2" GAS	2
28	CO-2802/18	Delivery hose tail, ø8x10	2
29	CO-1209/13	Gasket, ø12x18x2	2
30	CO-2826/30	Tap, 3/8 - 1/2 GAS	2
31	CO-1214/15	Complete tap	2
32	CO-3609/159	Screw, M8x50	2
33	CO-2811/4	Washer, ø8,4x14x1,6	2

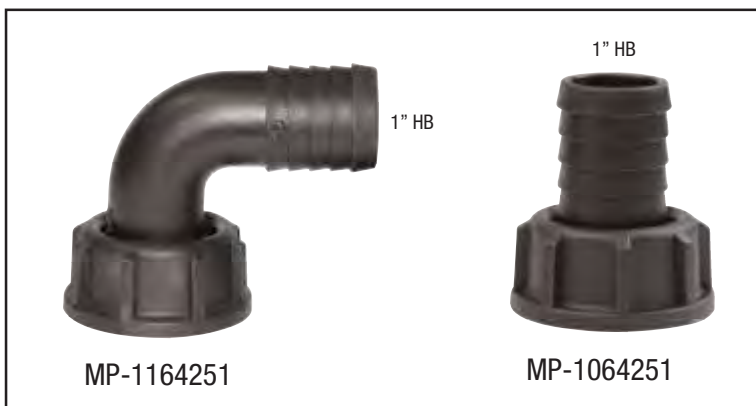


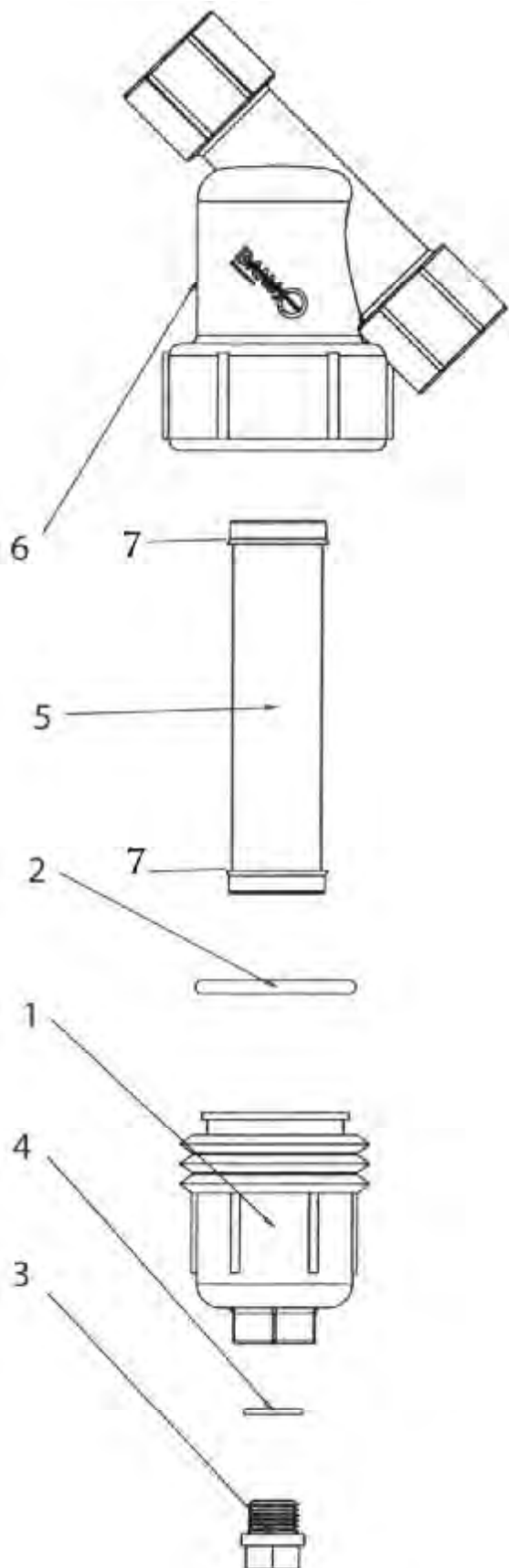


AU-8110009 (1" x 50M), AU-8110011 (1"x100M)

REF N°	DESCRIPTION	Q	
1	MP-323002030	White cartridge, inox 32 mesh	1
	MP-323003030	Blue cartridge, inox 50 mesh	1
	MP-323004030	Red cartridge, inox 100 mesh	1
	MP-323006030	Orange cartridge, inox 150 mesh	1
2	MP-G10051	O'ring	2
3	AU-227	O-ring, buna (standard)	1
	AU-227V	O-ring, viton (optional)	1

Options





BJ-LS125...

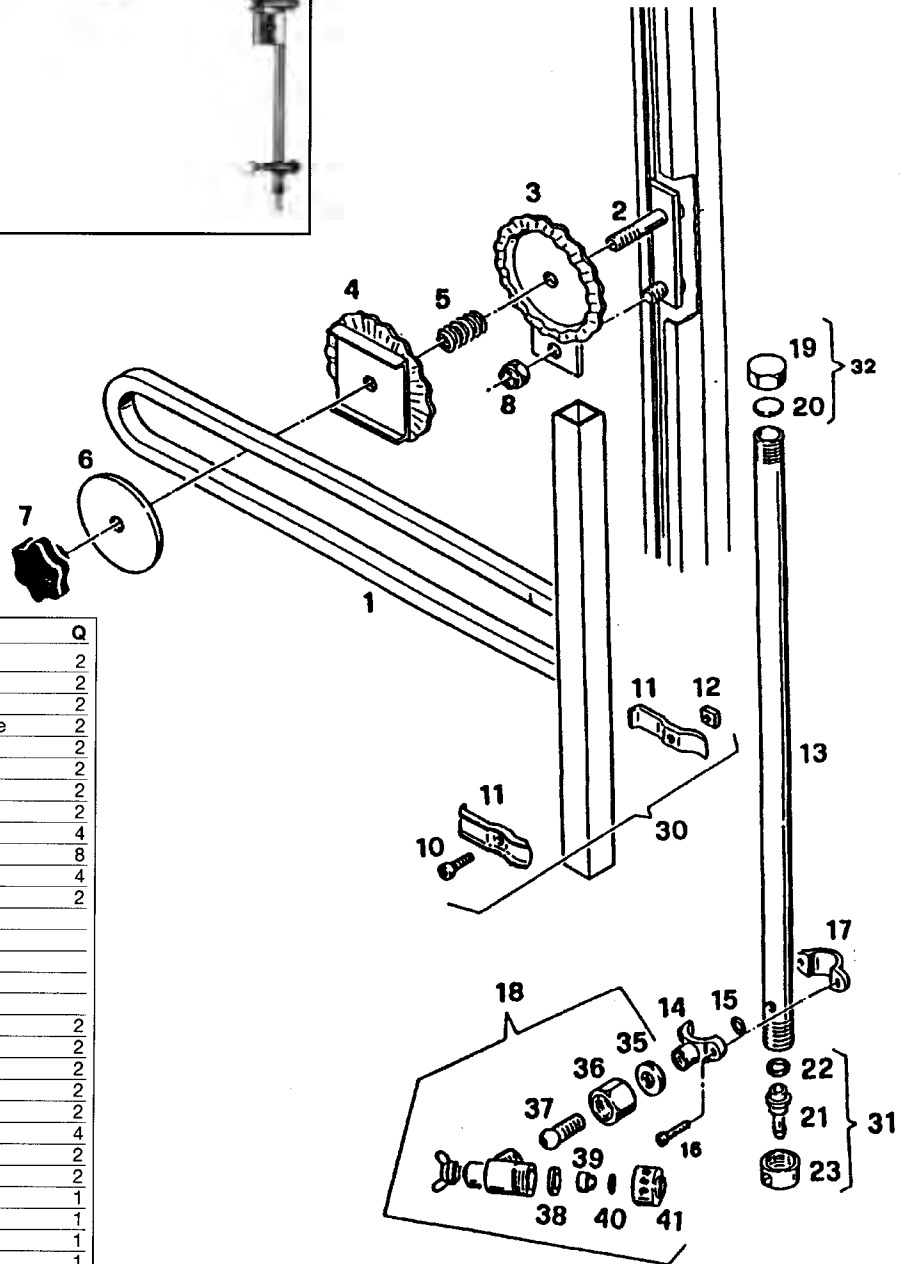
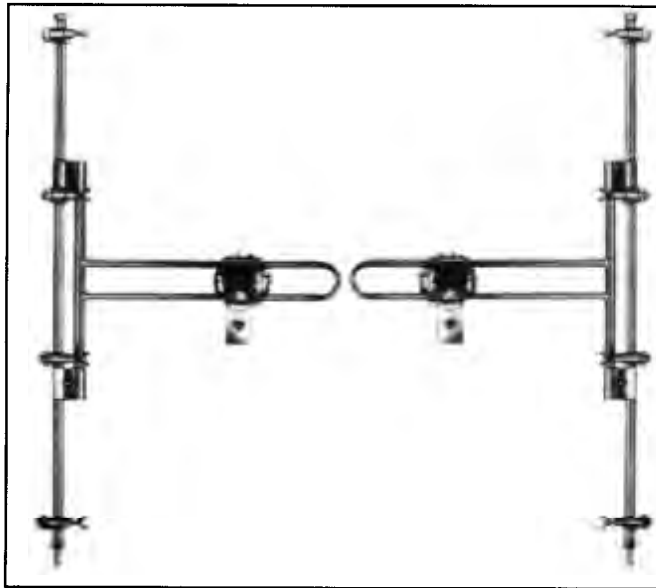
REF	N°	DESCRIPTION	Q
1	BJ-LS100C1	End cap	1
2	BJ-LS100G	Gasket, std	1
	BJ-LS100GV	Gasket-FKM (viton type), opt	1
3	BJ-12777	1/2" drain plug	1
4	BJ-UV15163	EPDM O-ring for drain plug std	1
	BJ-UV15163V	FKM (viton type) O-ring for drain plug, opt	1
5	BJ-LS120	20 mesh screen	1
	BJ-LS140	40 mesh screen	1
	BJ-LS180	80 mesh screen	1
6	N/A	"Y" body 1 1/4"	N/A
7	BJ-LS125G	O-ring	2
KIT	BJ-LS125BC1	"Y" body, cap & gasket, 1 1/4" (includes #1,2,3,4 & 6)	1

BJ-LS150...

REF	N°	DESCRIPTION	Q
1	BJ-LS150C	End cap	1
2	BJ-LS150G	Gasket, std	1
	BJ-LS150GV	Gasket-FKM (viton type), opt	1
3	BJ-LSQ200PL	1" drain plug	1
4	BJ-LSQ200R	EPDM O-ring for drain plug std	1
	BJ-LSQ200RV	FKM (viton type) O-ring for drain plug, opt	1
5	BJ-LS206	6 mesh screen	1
	BJ-LS212	12 mesh screen	1
	BJ-LS220	20 mesh screen	1
	BJ-LS230	30 mesh screen	1
	BJ-LS250	50 mesh screen	1
	BJ-LS280	80 mesh screen	1
	BJ-LS2120	120 mesh screen	1
6	BJ-LS150B	"Y" body 1 1/2"	1
7	BJ-LS141G	O-ring	2
KIT	BJ-LS150BC	"Y" body, cap & gasket, 1 1/2" (includes #1,2,3,4 & 6)	1

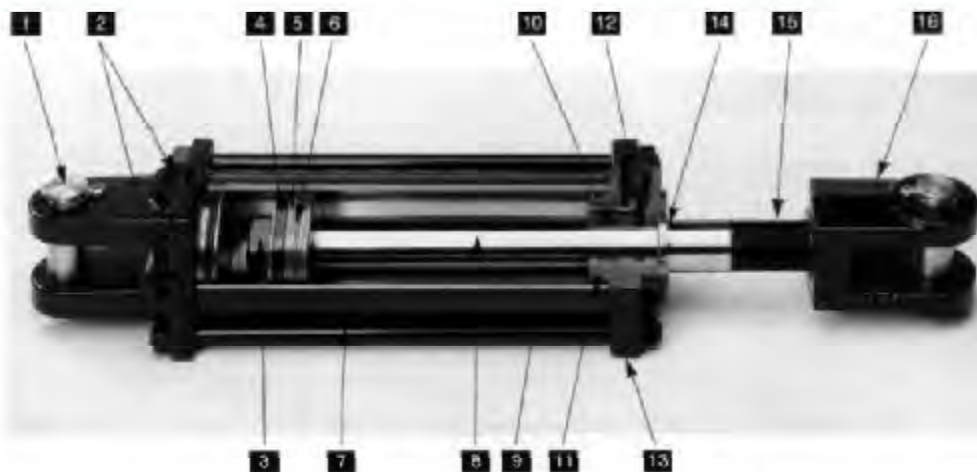
BJ-LS200...

REF	N°	DESCRIPTION	Q
1	BJ-LS150C	End cap	1
2	BJ-LS150G	Gasket, std	1
	BJ-LS150GV	Gasket-FKM (viton type), opt	1
3	BJ-LSQ200PL	1" drain plug	1
4	BJ-LSQ200R	EPDM O-ring for drain plug std	1
	BJ-LSQ200RV	FKM (viton type) O-ring for drain plug, opt	1
5	BJ-LS206	6 mesh screen	1
	BJ-LS212	12 mesh screen	1
	BJ-LS220	20 mesh screen	1
	BJ-LS230	30 mesh screen	1
	BJ-LS250	50 mesh screen	1
	BJ-LS280	80 mesh screen	1
	BJ-LS2120	120 mesh screen	1
6	BJ-LS200B	"Y" body 2"	1
7	BJ-LS141G	O-ring	2
KIT	BJ-LS200BC	"Y" body, cap & gasket, 2" (includes #1,2,3,4 & 6)	1



REF NO	DESCRIPTION	Q
1	MP-410200005Z Yoke	2
2 *	MP-410200018Z Bolt plate	2
3 *	MP-410200013Z Flange	2
4 *	MP-410200022Z Orientable flange	2
5 *	MP-919900010Z Spring yoke	2
6 *	MP-410200010Z Washer	2
7 *	MP-950400010 Nut	2
8 *	MP-905300010 Nut	2
10	MP-900508020Z Screw	4
11	MP-500600001Z Clamp	8
12	MP-906000008Z Nut	4
13	Tube	2
14	MP-591000015Z Body	
15	MP-600200010 O-ring	
16	MP-904906016Z Screw	
17	MP-591000006Z Clamp	
18	MP-002700 Nozzle assy	
19	MP-570100012 Cap	2
20	MP-600100007 Gasket	2
21	MP-570100001Z Hose fitting	2
22	MP-600100002 Gasket	2
23	MP-570100010Z Nut	2
30	MP-999900002Z 2/8" Clamp kit	4
31	MP-999900006Z Hose fitting kit	2
32	MP-999900045 Cap kit	2
35	MP-A00002640 Washer	1
36	MP-A00002630 G 1/4 Nut	1
37	MP-A00002620 Screw	1
38	MP-A00001033 Gasket	1
39	MP-A00002715 D= 1.5 Ceramic nozzle	1
40	MP-A00002730 O-ring	1
41	MP-A00002731 Cap	1
*	MP-004800 Includes #2 to 8	

or MP-002710 D:1.0 optional



REF	DESCRIPTION
1	Pins and retainers
2	Ports
3	Piston nut
4	Piston wear ring
5	Piston
6	Piston seal
7	Tie-rods
8	Cylinder shaft
9	Tube
10	Rod wear ring
11	Tube seal
12	Rod seal
13	Rod cap & clevis cap
14	Rod wiper
15	Threaded shaft (on ASAE cylinders)
16	Rod clevis

No	DESCRIPTION	SÉRIE	PRESSION MAX. (LB/PO ²)	BORE (PO)	LONGUEUR (PO) RÉTRACTÉ x ÉTENDU	PORT	REPAIR KIT
MI-639704	Cylindre 2 3/4" x 8" double action	TP	3000	2.75	20.25 x 28.25	3/4-16 FORB	MI-639557
MI-639703	Cylindre 2 1/2" x 8" double action	TP	3000	2.5	20.25 x 28.25	3/4-16 FORB	MI-639555
MI-639280	Voir MI-643449	TD	3000	2	20.25 x 28.25	3/4-16 FORB	MI-639542
MI-643276	Cylindre 2" dia. x 3" (gauche)	TH	3000	2.0 x 3.0	11.75 x 14.75	3/4-16 FORB	MI-639542
MI-643433	Cylindre TL 2" x 20" x 1 1/8" tige tige NT, 3/8" FNPT	TL	2500	2.0 x 20	30.25 x 50.25	3/8" FNPT	MI-637529
MI-643434	Cylindre TH 2 1/2" x 8" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 8	20.25 x 28.25	3/4-16 FORB	MI-639555
MI-643444	Cylindre TL 2 1/2" x 16" x 1 1/8" tige tige NT, 3/8" FNPT	TL	2500	2.5 x 16	26.50 x 42.50	3/8" FNPT	MI-643658
MI-643445	Cylindre TH 2 1/2" x 20" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 20	30.50 x 50.50	3/4-16 FORB	MI-643658
MI-643449	Cylindre TH 2" x 8" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.0 x 8	20.25 x 28.25	3/4-16 FORB	MI-639555
MI-643645	Cylindre TH 2 1/2" x 10" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 10	20.50 x 30.50	3/4-16 FORB	MI-639555
MI-643658	Voir 639573						
MI-643661	Cylindre 2 1/2" x 12", 3/4 - 16 forb PULL	TD	3000	2.5 x 12	22.25 x 34.25	3/4-16 FORB	MI-637696
MI-643662	Cylindre 2 1/2" x 20" PULL	TD	3000	2.5 x 20	30.25 x 50.25	3/4-16 FORB	MI-637697
MI-643666	Cylindre 2 1/2" x 18" PULL	TD	3000	2.5 x 18	28.25 x 46.25	3/4-16 FORB	MI-637697
MI-643668	Cylindre 2" x 10" double action			2.0 x 10			MI-639572
MI-643741	Cylindre TH 3 1/2" x 8" x 1 1/4" tige tige NT, 3/4-16 FORB	TH	3000	3.5 x 8	20.25 x 28.25	3/4-16 FORB	MI-639561
MI-643831	Cylindre 2 1/2" x 14" Push nitrosteel	TD	3000	2.5 x 14	24.25 x 38.25	3/4-16 FORB	MI-637696
MI-643910	Cylindre 2 1/2" x 8" double action			2.5 x 8			MI-639555
MI-643911	Cylindre 2 3/4" x 8" double action			2.75 x 8			MI-639557
MI-644358	Cylindre 2" x 8" x 1 1/8" tige tige NT, soudé 7/8-14 FORB	TH	3000	2.0 x 8	22.25 x 30.25	7/8-14 FORB	MI-644373
MI-644359	Cylindre 2 1/2" x 8" x 1 1/8" tige tige NT, soudé 7/8-14 FORB Voir MI-644500	TH	3000	2.5 x 8	22.25 x 30.25	7/8-14 FORB	MI-644373
MI-644499	Cylindre 2" x 8" x 1 1/8" tige tige NT, soudé 1 1/16 FORB	TH	3000	2.0 x 8	22.25 x 30.25	1 1/16-12 FORB	MI-644373
MI-644500	Cylindre 2 1/2" x 8" x 1 1/8" tige tige NT, soudé 1 1/16 FORB Voir MI-644500R1	TH	3000	2.5 x 8	22.25 x 30.25	1 1/16-12 FORB	MI-644373
MI-644500R1	Cylindre 2 1/2" x 8" x 1 1/8" nt, soudé 1 1/16 forb.			2.5 x 8		1 1/16 FORB	
MI-645162	Cylindre TH 2 1/2" x 16" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 16	27.15 x 43.15	3/4-16 FORB	MI-649573
MI-645296	Cylindre TH 2" x 20" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.0 x 20	30.25 x 50.25	3/4-16 FORB	MI-639542
MI-645297	Cylindre TH 2 1/2" x 16" x 1 1/8" tige tige NT, 3/4-16 FORB Voir MI-645760	TH	3000	2.5 x 16	26.50 x 42.50	3/4-16 FORB	MI-639555
MI-645298	Cylindre TH 2 1/2" x 20" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 20	30.50 x 50.50	3/4-16 FORB	MI-639555
MI-645298R1	Cylindre TH 2 1/2" x 20" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 20	30.50 x 50.50	3/4-16 FORB	MI-SKTR325001125
MI-645346	Cylindre TH 2 1/2" x 10" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 10	18.15 x 28.15	3/4-16 FORB	MI-645004
MI-645347	Cylindre TH 3" x 20" x 1 1/2" tige tige NT, 3/4-16 FORB	TH	3000	3.0 x 20	30.25 x 50.25	3/4-16 FORB	MI-645599
MI-645374	Cylindre 2" dia. x 24" double action	TD	3000	2.0 x 24	34.25 x 58.25	3/4-16 FORB	MI-639542
MI-645375	Cylindre 2 1/2" x 8" tige nitro-steel, seal PTFE	TD	3000	2.5 x 8	18.25 x 26.25	3/4-16 FORB	MI-639555
MI-645376	Cylindre 2 1/2" dia. x 10" double action	TD	3000	2.5 x 10	20.25 x 30.25	3/4-16 FORB	MI-639555
MI-645377	Cylindre 2 1/2" dia. x 30" double action	TD	3000	2.5 x 30	40.25 x 70.25	3/4-16 FORB	MI-639556
MI-645488	Cylindre 2" dia. x 12" double action	TD	3000	2.0 x 12	22.25 x 34.25	3/4-16 FORB	MI-639542
MI-645489	Cylindre 2 1/2" dia. x 12" double action	TD	3000	2.5 x 12	22.25 x 34.25	3/4-16 FORB	MI-639555

No	DESCRIPTION	SÉRIE	PRESSION MAX. (LB/PO ²)	BORE (PO)	LONGUEUR (PO) RÉTRACTÉ x ÉTENDU	PORT	REPAIR KIT
MI-645505	Cylindre TH 2 1/2" x 14" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 14	24.25 x 38.25	3/4-16 FORB	MI-645004
MI-645625	Cylindre 2" x 20" Push	TD	3000	2.0 x 20	20.25 x 50.75	3/4-16 FORB	MI-645734
MI-645626	Cylindre 2 1/2" x 12" double action	TD	3000	2.5 x 12	22.25 x 34.25	3/4-16 FORB	MI-638535
MI-645627	Cylindre 3" x 12" double action	TD	3000	3.0 x 12	22.25 x 34.25	3/4-16 FORB	MI-638538
MI-645628	Cylindre 3" x 14" simple double action pull	TD	3000	3.0 x 14	24.25 x 38.25	3/4-16 FORB	MI-645735
MI-645768	Cylindre TH 2 1/2" x 16" x 1 1/8" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 16	26.50 x 42.50	3/4-16 FORB	MI-645004
MI-645761	Cylindre TH 3" x 14" x 1 1/4" tige tige NT, 3/4-16 FORB	TH	3000	3.0 x 14	24.25 x 38.25	3/4-16 FORB	MI-645539
MI-645762	Cylindre TH 2 1/2" x 30" x 1 1/4" tige tige NT, 3/4-16 FORB	TH	3000	2.5 x 30	26.50 x 56.50	3/4-16 FORB	MI-638536
MI-645782	Cylindre 3" x 14" simple action push	TD	3000	3 x 14	24.25 x 38.25	3/4-16 FORB	MI-645735
MI-645861	Cylindre TH 3" x 16" x 1 1/2" tige tige NT, 3/4-16 FORB	TH	3000	3.0 x 16	26.50 x 44.50	3/4-16 FORB	MI-645539
MI-646400	Cylindre ASAE 2 1/2" x 8" x 1 1/8" nt, 3/4 - 16 forb, PSP seal	TD	3000	2.5 x 8	20.25 x 28.25	3/4-16 FORB	MI-638535
MI-646476	Cylindre 2" x 20" x 1 1/8" nt, seal PSP	TD	3000	2.0 x 20	20.25 x 50.25	3/4-16 FORB	MI-638542
MI-646475R1	Cylindre 2" x 20" x 1 1/8" nt, seal PSP	TD	3000	2.0 x 20	20.25 x 50.25	3/4-16 FORB	MI-SKITCL2020N0176
MI-646476	Cylindre ASAE 2 1/2" x 10" x 1 1/8" nt, 3/4 - 16 forb, PSP seal	TD	3000	2.5 x 10	22.25 x 32.25	3/4-16 FORB	MI-638535
MI-646476R1	Cylindre ASAE 2 1/2" x 10" x 1 1/8" nt, 3/4 - 16 forb, PSP seal	TD	3000	2.5 x 10	22.25 x 32.25	3/4-16 FORB	MI-SKITCL2510N0177
MI-646477	Cylindre ASAE 2 1/2" x 12" x 1 1/8" nt, 3/4 - 16 forb, PSP seal	TD	3000	2.5 x 12	24.25 x 36.25	3/4-16 FORB	MI-638536
MI-646477R1	Cylindre ASAE 2 1/2" x 12" x 1 1/8" nt, 3/4 - 16 forb, PSP seal	TD	3000	2.5 x 12	24.25 x 36.25	3/4-16 FORB	MI-SKITR325001125

No	DESCRIPTION	SÉRIE	PRESSION MAX. (LB/PO ²)	BORE (PO)	LONGUEUR (PO) RÉTRACTÉ x ÉTENDU	PORT
AU-CYL2530	Cylindre 2 1/2" x 30" x 1 1/4" tige titane, 3/8" FNPT	-	3000	2.5 x 30	-	3/8" FNPT
AU-CYL2048	Cylindre 2" x 40" x 1 1/2" tige chromé, 3/8" FNPT	-	3000	2.0 x 40	-	3/8" FNPT
AU-CYL2030	Cylindre 2" x 60" x 1 1/4" tige chromé, 3/8" FNPT	-	3000	2.0 x 60	-	3/8" FNPT
AU-CYL2505	Cylindre 2 1/2" x 4" x 1 1/2" tige chromé, 3/8 FNPT	-	3000	2.5 x 4	-	3/8" FNPT

ENSEMBLE DE RÉPARATION

AU-CYL2048K	Ensemble réparation pour AU-CYL2048 2000 et plus
AU-CYL2048K	Ensemble réparation pour AU-CYL2048 2000 et moins
AU-CYL2505K	Ensemble réparation pour cylindre AU-CYL2505

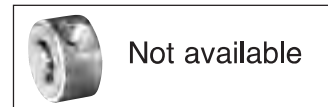
ACCESSOIRES

NO	DESCRIPTION
MS-BRH18P	Limiteur de course vissé, 1-1/8"
MS-BRH18P2	Limiteur de course vissé, 1-1/4"
MS-BRH110	Man avec attache pour écrou
MO-437393	Man de cylindre, tige 1-1/8"
MO-419396	Pin 1"
AU-91105	Stoppeur de course 2-1/2" avec clip plaqué

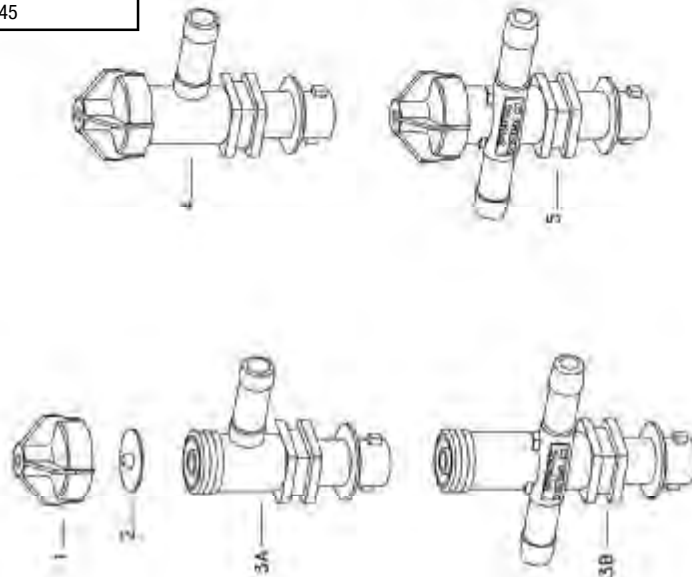


Pression max. :	3000 lb/po ²
Température max. :	100°F
Max. :	100' boyau 3/8"
Max. pressure :	3000 PSI
Max. temperature :	100°F
Max :	100' of 3/8" hose

REF N°	DESCRIPTION	Q
1	AU-HR38100 Hose reel with swivel	1
2	BE-85402004 Swivel 3/8" M x FNPT brass	1
	BE-85402009 Repair kit (for swivel)	1
3	BE-85402007 Handle	1



Ajouter le préfixe "JB" avant le # de pièce,
ex : JB-18645
Add the "JB" prefix before the part #,
ex : JB-18645



ITEM	PART NO. (POLYPROPYLENE)	DESCRIPTION
1	21990-10-PP	ChemSaver End Cap Assembly
	CF21953-EPH	DIAPHRAGM, EPDM RUBBER (STANDARD)
2	CF21953-VI	DIAPHRAGM, VITON (OPTIONAL)
3A	CF22236-PP	SINGLE HOSE SHANK BODY, 3/8"
	CF22237-PP	" " " " " 1/2"
	CF22238-PP	" " " " " 3/4"
3B	CF22239-PP	DOUBLE HOSE SHANK BODY, 3/8"
	CF22240-PP	" " " " " 1/2"
	CF22241-PP	" " " " " 3/4"
4	22251-311-375-PP	SINGLE HOSE SHANK BODY & CHECK VALVE ASSEMBLY
	22251-311-500-PP	" " " " " "
	22251-311-750-PP	" " " " " "
5	22252-312-375-PP	DOUBLE HOSE SHANK BODY & CHECK VALVE ASSEMBLY
	22252-312-500-PP	" " " " " "
	22252-312-750-PP	" " " " " "

DESCRIPTION:
NO. QJ300 SERIES
POLYPROPYLENE HOSE SHANK
DIAPHRAGM CHECK VALVE

Spraying Systems Co.
Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, IL 60186-7900

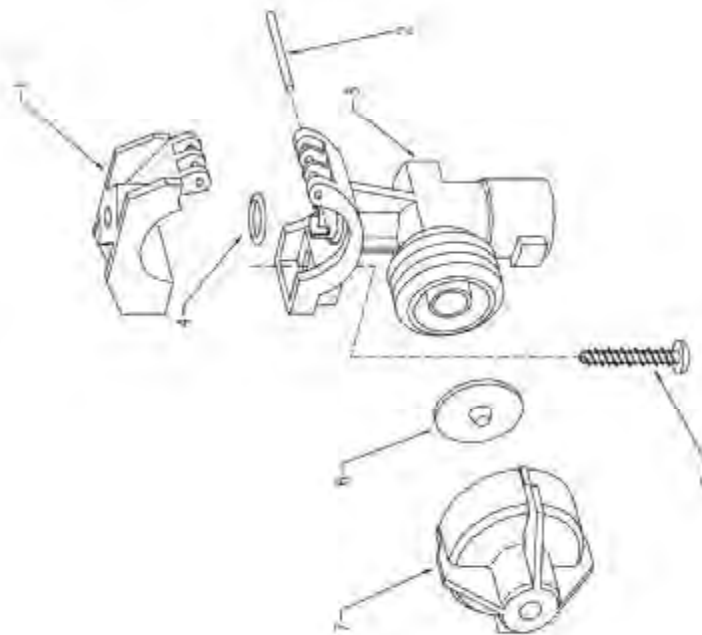
Part Lot No.
PL QJ300-pp

Rev. No.
Rev.

SHEET OF

Ajouter le préfixe "JB" avant le # de pièce,
ex : JB-18645
Add the "JB" prefix before the part #,
ex : JB-18645

ITEM	PART NO.	DESCRIPTION
1	CF48223-NYB	Upper Clamp, 1/2", Nylon (Black)
	CF48221-NYB	Upper Clamp, 3/4", Nylon (Black)
	CF48222-NYB	Upper Clamp, 1", Nylon (Black)
	CF48220-NYB	Upper Clamp, 20mm, Nylon (Black)
	CF48224-NYB	Upper Clamp, 25mm, Nylon (Black)
	CF48256-SS	Pivot Pin, Stainless Steel
3	CF48496-NYB	Body, 1/2", Nylon (Black)
	CF48498-NYB	Body, 3/4", Nylon (Black) (for 3/4" and 25mm versions)
	CF48499-NYB	Body, 1", Nylon (Black)
4	CF48497-NYB	Body, 20mm, Nylon (Black)
	CF7717-2/110-BU	O-Ring, Buna-N
5	CF7717-2/110-VI	O-Ring, Viton (Optional)
	CF48255-1 1/4-302SS	Screw, Stainless Steel
6	CF21953-EPR	Diaphragm, EPDM
	CF21955-VI	Diaphragm, Viton (Optional)
7	21950-10-NYB	End Cap Sub-As'y, Nylon (Black)
	No. QJ17560A-1/2-NYB(-V)	Hinged Nozzle Body Assembly
	No. QJ17560A-3/4-NYB(-V)	Hinged Nozzle Body Assembly
	No. QJ17560A-1-NYB(-V)	Hinged Nozzle Body Assembly
	No. QJ17560A-20mm-NYB(-V)	Hinged Nozzle Body Assembly
	No. QJ17560A-25mm-NYB(-V)	Hinged Nozzle Body Assembly
	Notes: -VI in part number specifies Viton material for parts #4 and 6	



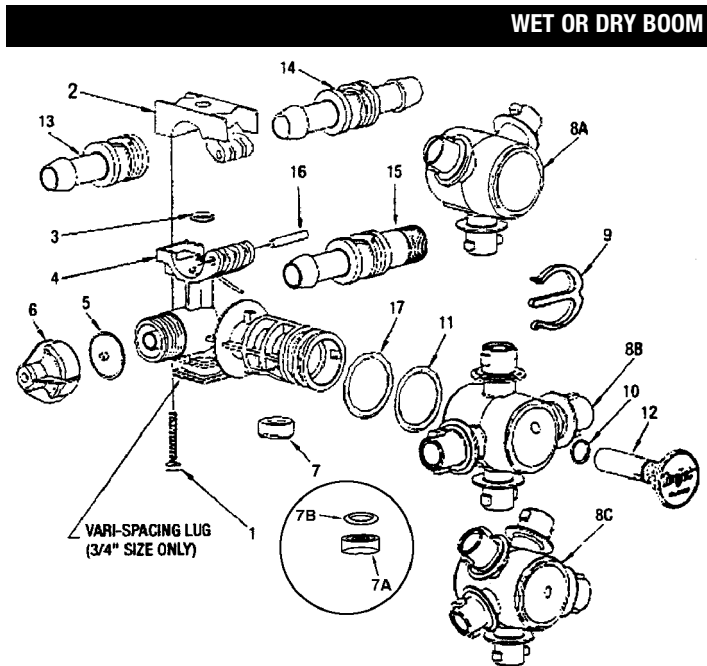
DESCRIPTION:
QJ17560A HINGED CLAMP
WET BOOM DIAPHRAGM
CHECK VALVE DUCK TEE-RTF
NOZZLE BODY ASSEMBLY
1 1/2", 3/4", 1", 20mm, & 25mm



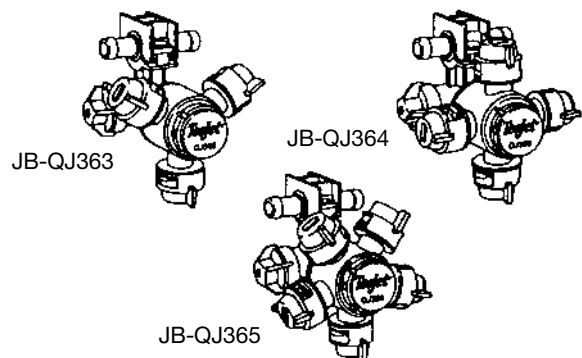
Spraying Systems Co.
Spray Nozzles and Accessories
P.O. Box 7900 • Waterloo, E. 60399-7900

Part List No.
PL QJ17560A
Rev. No. _____
SHEET _____ OF _____

REF N°	DESCRIPTION	Q
1	JB-CP48255114430SS Screw, 430 s. steel	1
2	JB-CP48221NYB 3/4" upper clamp, nylon, black	1
3	JB-CP77172110BU* O-ring, buna-n	1
	JB-CP77172110VI** O-ring, viton (opt.)	1
4	JB-CP38925NYB 20mm split eyelet body, nylon, black	1
5	JB-CP21953EPR* Diaphragm, EPDM rubber	1
	JB-CP21953VI** Diaphragm, viton (opt.)	1
6	JB-2195010NYB ChamSaver end cap assy, nylon, black	1
7	JB-CP389431VI** Seal, viton (B series)	1
7A	JB-CP56726VITFE Seal, viton-Teflon filled (C series)	1
7B	JB-CP77172111V O-ring, viton (C series)	1
8A	JB-CP38921NYB #363 Turret, nylon, black	1
8B	JB-CP38922NYB #364 Turret, nylon, black	1
8C	JB-CP38923NYB #365 Turret, nylon, black	1
9	JB-CP38931NYB E-clip, nylon, black	1
10	JB-CP77172113EPR* O-ring, EPDM rubber (std)	1
	JB-CP77172113VI** O-ring, viton (opt.)	1
11	JB-CP77172216EPR* O-ring, EPDM rubber (std)	1
	JB-CP77172216VI** O-ring, viton (opt.)	1
12	JB-CP38930NYB Plug, nylon, black	1
13	JB-CP38936NYB 1/2" single hose shank, nylon, black	1
	JB-CP38938NYB 3/4" single hose shank, nylon, black	1
	JB-CP38940NYB 1" single hose shank, nylon, black	1
14	JB-CP38937NYB 1/2" double hose shank, nylon, black	1
	JB-CP38939NYB 3/4" double hose shank, nylon, black	1
	JB-CP38941NYB 1" double hose shank, nylon, black	1
15	JB-CP38948NYB 1/2" NPTx3/4" hose shank, nylon, black	1
16	JB-CP48256SS Pivot pin, 303 s. steel	1
17	JB-CP77172129EPR* O-ring dust seal, EPR rubber (std)	1
	JB-CP77172129VI** O-ring dust seal, viton rubber (opt.)	1



Ensemble de supports de buses multiples / Multiple nozzle bodies & assemblies



360 Nozzle Body Series for Wet or Dry Booms

- Disponible avec 3, 4 ou 5 positions de pulvérisation pour changement rapide de buse ou vidange de la rampe.
- Fermeture complète entre chaque position de pulvérisation.
- Pression maximale d'opération de 300 lb/po².
- Disponible avec des corps de buse (boyau) de 20mm, 1/2, 3/4 ou 1 po.
- Valve anti-retour ChemSaver® incluse pour fermeture sans gouttage.
- Membrane EPDM standard et membrane en viton disponible en option.
- Available with either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing.
- Positive shut-off between each spray position.
- Maximum operating pressure of 300 psi.
- Available in 1/2", 3/4" or 1" single or double hose shanks.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff.
- Standard EPDM diaphragm with Viton available as an option.

WET BOOM

PART N°	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
JB-QJ36312NYB	3	1/2" Pipe
JB-QJ36334NYB	3	3/4" Pipe
JB-QJ3631NYB	3	1" Pipe
JB-QJ36412NYB	4	1/2" Pipe
JB-QJ36434NYB	4	3/4" Pipe
JB-QJ3631NYB	4	1" Pipe
JB-QJ3652012NYB	5	1/2" Pipe
JB-QJ36534NYB	5	3/4" Pipe
JB-QJ3651NYB	5	1" Pipe

DRY BOOM

Single	PART N°	Double	To Fit	
			Spray Outlets	Hose I.D.
JB-QJ3635001NYB		JB-QJ3635002NYB	3	1/2"
JB-QJ3637501NYB		JB-QJ3637502NYB	3	3/4"
JB-QJ36310001NYB		JB-QJ36310002NYB	3	1"
JB-QJ3645001NYB		JB-QJ3645002NYB	4	1/2"
JB-QJ3647501NYB		JB-QJ3647502NYB	4	3/4"
JB-QJ36410001NYB		JB-QJ36410002NYB	4	1"
JB-QJ3655001NYB		JB-QJ3655002NYB	5	1/2"
JB-QJ3657501NYB		JB-QJ3657502NYB	5	3/4"
JB-QJ36510001NYB		JB-QJ36510002NYB	5	1/2"

JB-5500

Le corps de la buse cannelé tourne d'un demi-tour pour permettre le passage de l'atomisation avec jet conique grand angle à un jet rectiligne. Les positions "A" et "B" de la buse sont les deux points extrêmes de rotation pour le réglage de la buse. D'autres tailles sont également disponibles.

Knurled body of tip rotates through a half turn to provide spray selection from wide angle, finely atomized cone spray to a straight stream spray. Tip settings "A" and "B" represent two extreme points of rotation in tip adjustment. Other sizes available.

For Capacities from 0.017 to 1.9 GPM

JB-5500-PP

La buse orientable ConeJet JB-5500 est disponible également en polypropylène. La buse en polypropylène a les mêmes caractéristiques que la buse en laiton et est très résistante aux produits chimiques. Son faible poids convient pour l'emploi sur des pulvérisateurs manuels à dos.

The JB-5500 Adjustable ConeJet tip is also available in a polypropylene version. The polypropylene tip has the same performance characteristics as the brass tip and provides excellent chemical resistance. This tip's light weight makes it well-suited for use on hand held and backpack type sprayers.

ADJUSTABLE CONEJET TIP No.	PERFORMANCE	LIQUID PRESSURE IN PSI											
		20 psi Setting		30 psi Setting		40 psi Setting		60 psi Setting		100 psi Setting		150 psi Setting	
		A	B	A	B	A	B	A	B	A	B	A	B
JB-5500X1	Capacity-GPM Spray angle Max. Throw-Ft.	— — —	.049 — 19	.015 38° 1	.061 — 22	.017 54° 1.5	.07 — 24	.02 71° 1.5	.086 — 26	.025 80° 1.5	.11 — 26	.028 83° 1.5	.14 — 26
JB-5500X2	Capacity-GPM Spray angle Max. Throw-Ft.	.025 40° 1.5	.091 — 23	.03 60° 1.5	.11 — 26	.033 68° 2	.13 — 27	.04 75° 2	.16 — 28	.05 80° 2	.20 — 28	.058 83° 2	.25 — 28
JB-5500X3 JB-5500PPBX3	Capacity-GPM Spray angle Max. Throw-Ft.	.037 57° 2	.13 — 27	.045 68° 2	.17 — 30	.05 72° 2	.19 — 31	.058 76° 3	.23 — 31	.073 80° 3	.30 — 31	.088 82° 3	.37 — 31
JB-5500X4	Capacity-GPM Spray angle Max. Throw-Ft.	.05 61° 2.5	.18 — 30	.058 70° 2.5	.22 — 33	.067 73° 3	.25 — 34	.08 77° 3	.31 — 34	.10 80° 3	.40 — 34	.12 81° 3	.49 — 34
JB-5500X5 JB-5500PPBX5	Capacity-GPM Spray angle Max. Throw-Ft.	.061 61° 2.5	.21 — 31	.076 70° 2.5	.26 — 34	.082 74° 3	.30 — 35	.10 77° 3	.37 — 35	.13 80° 3	.48 — 35	.15 81° 3	.58 — 35
JB-5500X6 JB-5500PPBX6	Capacity-GPM Spray angle Max. Throw-Ft.	.073 65° 2.5	.26 — 32	.087 71° 3	.32 — 35	.10 74° 3	.37 — 36	.12 77° 3.5	.45 — 36	.15 80° 3.5	.58 — 36	.19 80° 3.4	.71 — 36
JB-5500X8 JB-5500PPBX8	Capacity-GPM Spray angle Max. Throw-Ft.	.097 66° 3	.33 — 34	.12 71° 3	.40 — 37	.13 74° 3	.47 — 38	.16 77° 3	.57 — 38	.21 80° 4	.74 — 38	.25 80° 4	.90 — 38
JB-5500X10	Capacity-GPM Spray angle Max. Throw-Ft.	.12 68° 3	.42 — 35	.15 72° 3.5	.52 — 38	.17 75° 3.5	.60 — 39	.21 78° 4	.73 — 40	.26 80° 4	.94 — 40	.31 80° 4	1.2 — 40
JB-5500X12 JB-5500PPBX12	Capacity-GPM Spray angle Max. Throw-Ft.	.15 69° 3.5	.49 — 36	.18 73° 4	.60 — 39	.20 76° 4	.69 — 40	.24 78° 4	.84 — 41	.31 80° 4	1.1 — 41	.38 80° 4	1.3 — 41
JB-5500X14	Capacity-GPM Spray angle Max. Throw-Ft.	.17 70° 3.5	.55 — 37	.20 74° 4	.67 — 40	.23 76° 4	.78 — 41	.29 78° 4	.95 — 41	.37 80° 4.5	1.2 — 41	.45 80° 4.5	1.5 — 41
JB-5500X18 JB-5500PPBX18	Capacity-GPM Spray angle Max. Throw-Ft.	.21 71° 4	.69 — 38	.26 75° 4	.84 — 41	.30 77° 4	.97 — 42	.37 78° 4	1.2 — 42	.47 80° 5	1.5 — 42	.58 79° 5	1.9 — 42
JB-5500X22	Capacity-GPM Spray angle Max. Throw-Ft.	.26 71° 4	.83 — 39	.32 75° 4.5	1.0 — 41	.37 78° 5	1.2 — 42	.45 79° 5	1.4 — 42	.58 80° 5	1.9 — 42	.70 78° 5	2.3 — 42
JB-5500X26	Capacity-GPM Spray angle Max. Throw-Ft.	.31 72° 4.5	.98 — 40	.37 76° 5	1.2 — 42	.43 78° 5	1.4 — 43	.53 79° 5.5	1.7 — 43	.68 80° 5.5	2.2 — 43	.83 78° 5.5	2.7 — 43

Above data is based on spraying water from a height of about 2-1/2 feet with tip tilted about as shown at left for each setting

TIP SETTING "A"
CONE SPRAY PATTERN



Maximum
Throw - Feet



TIP SETTING "B"
STRAIGHT STREAM SPRAY PATTERN

Maximum Throw - Feet



XR TeeJet® Extended Range Flat Spray Tips

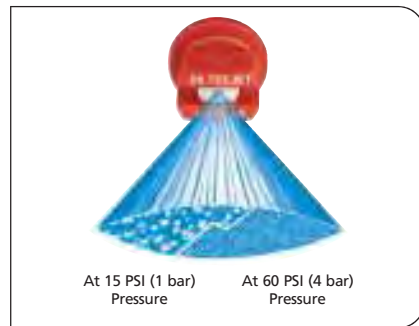
Typical Applications:

See selection guide on pages 2 and 6 for recommended typical application for XR TeeJet.

Features:

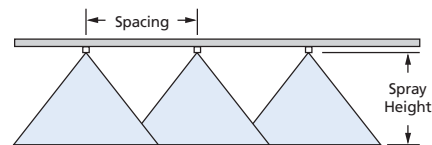
- Excellent spray distribution over a wide range of pressures—15–60 PSI (1–4 bar).
- Ideal for rigs equipped with sprayer controllers.
- Reduces drift at lower pressures, better coverage at higher pressures.
- Available in stainless steel, ceramic and polymer in 80° and 110° spray angles with VisiFlo® color-coding.

- Ceramic is available with corrosive resistant polypropylene VisiFlo color-coded tip holder in 80° capacities 03–08 and 110° capacities 02–08.
- Brass available in 110° only.
- Automatic spray alignment with 25612-**NYR* Quick TeeJet® cap and gasket. Reference page 55 for more information.
- Automatic spray alignment for sizes 10 and 15 with 25610-**NYR* Quick TeeJet cap and gasket. Reference page 55 for more information.



Tip	Pressure bar	CAPACITY ONE NOZZLE IN l/min	I/ha 50cm												
			4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
XR8001 XR11001 (100)	1.0	0.23	690	55.2	46.0	39.4	34.5	27.6	23.0	17.3	15.3	13.8	11.0	9.2	7.9
	1.5	0.28	840	67.2	56.0	48.0	42.0	33.6	28.0	21.0	18.7	16.8	13.4	11.2	9.6
	2.0	0.32	960	76.8	64.0	54.9	48.0	38.4	32.0	24.0	21.3	19.2	15.4	12.8	11.0
	2.5	0.36	108	86.4	72.0	61.7	54.0	43.2	36.0	27.0	24.0	21.6	17.3	14.4	12.3
	3.0	0.39	117	93.6	78.0	66.9	58.5	46.8	39.0	29.3	26.0	23.4	18.7	15.6	13.4
4.0	0.45	135	108	90.0	77.1	67.5	54.0	45.0	33.8	30.0	27.0	21.6	18.0	15.4	
XR80015 XR110015 (100)	1.0	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7
	1.5	0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8	14.4
	2.0	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
	2.5	0.54	162	130	108	92.6	81.0	64.8	54.0	40.5	36.0	32.4	25.9	21.6	18.5
	3.0	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2
4.0	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
XR8002 XR11002 (50)	1.0	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8
	1.5	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2
	2.0	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
	2.5	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7
	3.0	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1
4.0	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
XR110025 (50)	1.0	0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5
	1.5	0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0	24.0
	2.0	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8
	2.5	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9
	3.0	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9
4.0	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
XR8003 XR11003 (50)	1.0	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3
	1.5	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5
	2.0	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
	2.5	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0
	3.0	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
4.0	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
XR8004 XR11004 (50)	1.0	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2
	1.5	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4
	2.0	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
	2.5	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4
	3.0	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
4.0	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
XR8005 XR11005 (50)	1.0	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
	1.5	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6	47.7
	2.0	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
	2.5	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7
	3.0	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5
4.0	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
XR8006 XR11006 (50)	1.0	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0
	1.5	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6
	2.0	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
	2.5	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1
	3.0	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3
4.0	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
XR8008 XR11008 (50)	1.0	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
	1.5	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5
	2.0	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
	2.5	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7
	3.0	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108
4.0	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125	
XR8010† XR11010†	1.0	2.28	684	547	456	391	342	274	228	171	152	137	109	91.2	78.2
	1.5	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7
	2.0	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111
	2.5	3.61	1083	866	722	619	542	433	361	271	241	217	173	144	124
	3.0	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135
4.0	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156	
XR8015† XR11015†	1.0	3.42	1026	821	684	586	513	410	342	257	228	205	164	137	117
	1.5	4.19	1257	1006	838	718	629	503	419	314	279	251	201	168	144
	2.0	4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166
	2.5	5.40	1620	1296	1080	926	810	648	540	405	360	324	259	216	185
	3.0	5.92	1776	1421	1184	1015	888	710	592	444	395	355	284	237	203
4.0	6.84	2052	1642	1368	1173	1026	821	684	513	456	410	328	274	235	

Note: Always double check your application rates. See pages 149-163 for useful formulas and information.
† Available in all stainless steel only.



Optimum Spray Height

Tip	50 cm
80°	75 cm
110°	50 cm

See page 149 for a complete table of spray heights and coverages.

How to order:

Specify tip number.

Examples:

- XR8004-VS – Stainless Steel with VisiFlo color-coding
- XR11004-VP – Polymer with VisiFlo color-coding
- XR11004-VK – Ceramic with polypropylene VisiFlo color-coded tip holder
- XR8010-SS – Stainless Steel
- XR11004-VB – Brass with VisiFlo color-coding



XR TeeJet® Extended Range Flat Spray Tips

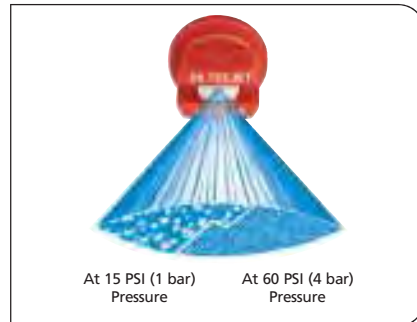
Typical Applications:

See selection guide on pages 2 and 6 for recommended typical application for XR TeeJet.

Features:

- Excellent spray distribution over a wide range of pressures—15–60 PSI (1–4 bar).
- Ideal for rigs equipped with sprayer controllers.
- Reduces drift at lower pressures, better coverage at higher pressures.
- Available in stainless steel, ceramic and polymer in 80° and 110° spray angles with VisiFlo® color-coding.

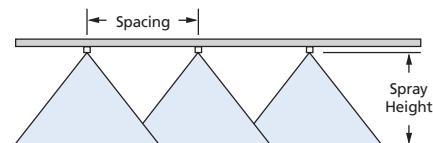
- Ceramic is available with corrosive resistant polypropylene VisiFlo color-coded tip holder in 80° capacities 03–08 and 110° capacities 02–08.
- Brass available in 110° only.
- Automatic spray alignment with 25612-*/-NYR Quick TeeJet® cap and gasket. Reference page 55 for more information.
- Automatic spray alignment for sizes 10 and 15 with 25610-*/-NYR Quick TeeJet cap and gasket. Reference page 55 for more information.



Tip No.	PSI	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
				GPA														
				4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
XR8001 XR11001 (100)	15	0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08			
	20	0.071	9.1	5.3	4.2	3.5	2.6	2.1	1.8	1.4	1.1	0.24	0.16	0.12	0.10			
	30	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12			
	40	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14			
XR80015 XR110015 (100)	15	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13			
	20	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
	30	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
	40	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
XR8002 XR11002 (50)	15	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16			
	20	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19			
	30	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	40	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
XR110025 (50)	15	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	20	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	30	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
	40	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
XR8003 XR11003 (50)	15	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	20	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29			
	30	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
	40	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
XR8004 XR11004 (50)	15	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
	20	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	1.0	0.63	0.48	0.38			
	30	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	40	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
XR8005 XR11005 (50)	15	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
	20	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	30	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
	40	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
XR8006 XR11006 (50)	15	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
	20	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	1.0	0.71	0.57			
	30	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71			
	40	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
XR8008 XR11008 (50)	15	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
	20	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78			
	30	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
	40	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
XR8010† XR11010†	15	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
	20	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97			
	30	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2			
	40	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4			
XR8015† XR11015†	15	0.92	118	68	55	46	34	27	23	18.2	13.7	3.1	2.1	1.6	1.3			
	20	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4			
	30	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8			
	40	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
XR11015†	50	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3			
	60	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5			

Note: Always double check your application rates. See pages 149-163 for useful formulas and information.

† Available in all stainless steel only.



Optimum Spray Height

Tip Angle	Optimum Spray Height
80°	30"
110°	20"

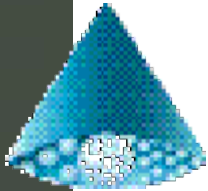
See page 149 for a complete table of spray heights and coverages.

How to order:

Specify tip number.

Examples:

- XR8004-VS – Stainless Steel with VisiFlo color-coding
- XR11004-VP – Polymer with VisiFlo color-coding
- XR11004-VK – Ceramic with polypropylene VisiFlo color-coded tip holder
- XR8010-SS – Stainless Steel
- XR11004-VB – Brass with VisiFlo color-coding



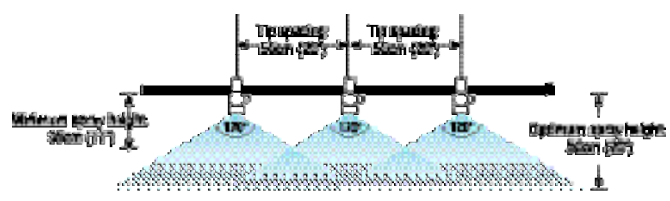
Flat Fan Spray Tips — Guardian™ 120° **New!**

GRD – With Tapered Flat Fan Spray Pattern



The Hypro Guardian is a versatile tip that incorporates the technologies of drift control and uniform coverage. It is ideal for applications involving disease, insect and weed control.

- Carefully engineered to produce medium droplets over a wide range of pressures
- Designed for on-target coverage
- Stable and consistent 120° spray pattern brings the boom closer to the target with precision
- Uniform spray at all pressures (15 - 115 PSI)
- FastCap Complete™ one-piece design includes tip, cap, gasket and removable strainer for fast change out and safer handling



120° Spray Tip Performance Characteristics

GRD120-01

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.06	4.5	3.6	3.0	2.5	2.2	1.8	1.5	1.3	1.1	1.0	0.9
20	0.07	5.2	4.2	3.5	3.0	2.6	2.1	1.7	1.5	1.3	1.2	1.0
30	0.09	6.7	5.3	4.5	3.8	3.3	2.7	2.2	1.9	1.7	1.5	1.3
40	0.10	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	1.9	1.7	1.5
50	0.11	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2.0	1.8	1.6
60	0.12	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.2	2.0	1.8
70	0.13	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4	2.1	1.9
80	0.14	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
90	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
100	0.16	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.0	2.6	2.4
115	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5

GRD120-04

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6
20	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
30	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2
40	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9
50	0.45	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4	7.4	6.7
60	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3
70	0.53	39	32	26	23	19.7	15.7	13.1	11.2	9.8	8.7	7.9
80	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5
90	0.60	45	36	30	26	22	17.8	14.9	12.7	11.1	9.9	8.9
100	0.63	47	37	31	27	23	18.7	15.6	13.4	11.7	10.4	9.4
115	0.68	51	40	34	29	25	20	16.8	14.4	12.6	11.2	10.1

GRD120-015

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.09	6.7	5.3	4.5	3.8	3.3	2.7	2.2	1.9	1.7	1.5	1.3
20	0.11	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2.0	1.8	1.6
30	0.13	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4	2.1	1.9
40	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
50	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5
60	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7
70	0.20	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0
80	0.21	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9	3.5	3.1
90	0.23	17.1	13.7	11.4	9.8	8.5	6.8	5.7	4.9	4.3	3.8	3.4
100	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6
115	0.25	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	3.7

GRD120-05

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.31	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6
20	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2
30	0.43	32	26	21	18.2	16.0	12.8	10.6	9.1	8.0	7.1	6.4
40	0.50	37	30	25	21	18.6	14.9	12.4	10.6	9.3	8.3	7.4
50	0.56	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.3
60	0.61	45	36	30	26	23	18.1	15.1	12.9	11.3	10.1	9.1
70	0.66	49	39	33	28	25	19.6	16.3	14.0	12.3	10.9	9.8
80	0.71	53	42	35	30	26	21	17.6	15.1	13.2	11.7	10.5
90	0.75	56	45	37	32	28	22	18.6	15.9	13.9	12.4	11.1
100	0.79	59	47	39	34	29	24	19.6	16.8	14.7	13.0	11.7
115	0.85	63	51	42	36	32	25	21	18.0	15.8	14.0	12.6

GRD120-02

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.12	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.2	2.0	1.8
20	0.14	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
30	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5
40	0.20	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0
50	0.22	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3
60	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6
70	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9
80	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
90	0.30	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5
100	0.32	24	19.0	15.8	13.6	11.9	9.5	7.9	6.8	5.9	5.3	4.8
115	0.34	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0

GRD120-06

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.37	28	22	18.3	15.7	13.7	11.0	9.2	7.8	6.9	6.1	5.5
20	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2
30	0.52	39	31	26	22	19.3	15.4	12.9	11.0	9.7	8.6	7.7
40	0.60	45	36	30	26	22	17.8	14.9	12.7	11.1	9.9	8.9
50	0.67	50	40	33	28	25	19.9	16.6	14.2	12.4	11.1	9.9
60	0.73	54	43	36	31	27	22	18.1	15.5	13.6	12.0	10.8
70	0.79	59	47	39	34	29	24	19.6	16.8	14.7	13.0	11.7
80	0.85	63	51	42	36	32	25	21	18.0	15.8	14.0	12.6
90	0.90	67	54	45	38	33	27	22	19.1	16.7	14.9	13.4
100	0.95	71	56	47	40	35	28	24	20	17.6	15.7	14.1
115	1.02	76	61	51	43	38	30	25	22	18.9	16.8	15.1

GRD120-025

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
20	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7
30	0.22	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3
40	0.25	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	3.7
50	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
60	0.31	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6
70	0.33	25	19.6	16.3	14.0	12.3	9.8	8.2	7.0	6.1	5.4	4.9
80	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2
90	0.38	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.1	6.3	5.6
100	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9
115	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2

GRD120-08

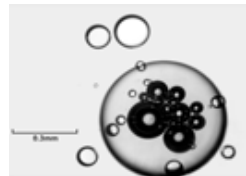
PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3
20	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5
30	0.69	51	41	34	29	26	21	17.1	14.6	12.8	11.4	10.2
40	0.80	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9
50	0.89	66	53	44	38	33	26	22	18.9	16.5	14.7	13.2
60	0.98	73	58	49	42	36	29	24	21	18.2	16.2	14.6
70	1.06	79	63	53	45	39	32	26	23	19.7	17.5	15.7
80	1.13	84	67	56	48	42	34	28	24	21	18.6	16.8
90	1.20	89	71	59	51	45	36	30	26	22	19.8	17.8
100	1.26	94	75	62	54	47	37	31	27	23	21	18.7
115	1.36	101	81	67	58	51	40	34	29	25	22	20

GRD120-03

PSI	Flow GPM	APPLICATION RATES (Gallons per acre) at 20 inch Tip Spacing										
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
15	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7
20	0.21	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9	3.5	3.1
30	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4</				

DriftBETA 120°

Buses anti dérive à aspiration d'Air

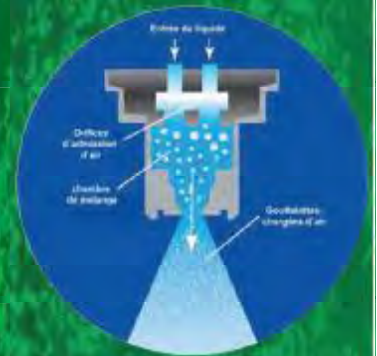


Grosses Gouttes chargées de bulles d'air.

Les Buses DriftBeta 120 degrés d'Hypro peuvent être utilisées quand la réduction de la dérive est primordiale. Elles sont employées pour la pulvérisation des produits à action racinaire, et également pour les herbicides de translocation comme le glyphosate, et les fongicides systémiques, sur les plantes à feuilles larges. Elle ne sont pas conseillées pour l'application des herbicides contre les adventices ou les fongicides contre le mildiou de la pomme de terre.

CARACTERISTIQUES ET AVANTAGES

- Grosses gouttelettes chargées de microparticules d'air ayant ainsi moins de gouttelettes fines pour réduire la dérive
- Les "Anti Dérive" DriftBeta sont homologuées en France pour les Z.N.T.
- L'angle de pulvérisation du jet et la répartition sont maintenus même à une pression faible de 2 Bar
- Large angle de pulvérisation de 120° permettant à la rampe d'être baissée pour réduire la prise au vent et donc la dérive
- Dimensions compactes réduisant le risque de dégâts aux buses
- Utilisation à des pressions normales
- Conçues en deux parties permettant leur séparation pour faciliter le nettoyage
- Moulage de haute précision en polyacétal résistant



*Technologie brevetée
avec 2 orifices d'aspiration
d'air, - fournit des
gouttelettes chargées d'air
pour une bonne rétention
des gouttelettes sur les
surfaces des feuilles.*



DriftBETA 120°

SPECIFICATIONS

DB015F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Vert	2	0.490	73	59	49	42	37	33	Oui
	3	0.600	90	72	60	51	45	40	
	4	0.693	104	83	69	59	52	46	
	5	0.775	116	93	77	66	58	52	
	6	0.849	127	102	85	73	64	57	

Les "Anti Dérive" DriftBeta sont homologuées en France pour les Z. N. T. pour les débits et pressions indiquées.

DB02F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Jaune	2	0.653	98	78	65	56	49	44	Oui
	3	0.800	120	96	80	69	60	53	
	4	0.924	139	111	92	79	69	62	
	5	1.033	155	124	103	89	77	69	
	6	1.131	170	136	113	97	85	75	

Distance entre 2 buses: 50 cm

Filtres: Conseil pour la filtration avant la buse. Utiliser du 100 Mesh pour 015 à 03 et du 50 Mesh pour 04 à 06

DB025F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Lilas	2	0.816	122	98	82	70	61	54	Oui
	3	1.000	150	120	100	86	75	67	
	4	1.155	173	139	115	99	87	77	
	5	1.291	194	155	129	111	97	86	
	6	1.414	212	170	141	121	106	94	

DB03F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Bleu	2	0.980	147	118	98	84	73	65	Oui
	3	1.200	180	144	120	103	90	80	Oui
	4	1.386	208	166	139	119	104	92	
	5	1.549	232	186	155	133	116	103	
	6	1.697	255	204	170	145	127	113	

DB04F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Rouge	2	1.306	196	157	131	112	98	87	Oui
	3	1.600	240	192	160	137	120	107	Oui
	4	1.848	277	222	185	158	139	123	
	5	2.066	310	248	207	177	155	138	
	6	2.263	339	272	226	194	170	151	

DB05F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Marron	2	1.633	245	196	163	140	122	109	Oui
	3	2.000	300	240	200	171	150	133	Oui
	4	2.309	346	277	231	198	173	154	Oui
	5	2.582	387	310	258	221	194	172	Oui
	6	2.828	424	339	283	242	212	189	Oui

DB06F120

Buse	Pression	Débit	Litres par hectare @ Km/h						Anti Dérive Z.N.T
	Bar	L/min	8	10	12	14	16	18	
Gris	2	1.960	294	235	196	168	147	131	Oui
	3	2.400	360	288	240	206	180	160	Oui
	4	2.771	416	333	277	238	208	185	Oui
	5	3.098	465	372	310	266	232	207	Oui
	6	3.394	509	407	339	291	255	226	Oui

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 Tel: +44 (0)1954 260097 Fax: +44 (0)1954 260245 E-mail: info@hypro-eu.com
 www.hypro-eu.com

Hypro LLC, 375 Fifth Avenue NW, New Brighton, MN 55112, USA
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 www.hypropumps.com



Garantie du distributeur

HONDA CANADA INC., située au 715 Milner Avenue, Scarborough, Ontario, pour et au nom de Honda Motor Co. Ltd., Tokyo, Japon, offre la garantie suivante sur chaque moteur à toutes fins neuf fabriqué par Honda Motor Co. Ltd., Japon, distribué au Canada par Honda Canada Inc., et vendu en tant que pièce d'origine d'un équipement lorsqu'un tel équipement est fabriqué au Canada. Aux fins des présentes, «Honda» signifie Honda Canada Inc. etc/ou Honda Motor Co. Ltd., selon le contexte.

HONDA GARANTIT QUE chaque moteur à toutes fins neuf Honda est exempt de défaut de fabrication et de vice de main-d'oeuvre dans des conditions normales d'utilisation et d'entretien, pendant la période garantie pertinente énoncée ci-dessous. Si un moteur à toutes fins Honda s'avère défectueux avant l'échéance de la période de garantie, Honda réparera ou remplacera les pièces nécessaires par des pièces Honda neuves ou leur équivalent, sans frais de la part du consommateur, pièces et main-d'oeuvre comprises (à l'exception des frais de main-d'oeuvre relatives à un accessoire), sous réserve que de telles déficiences soient attribuées par Honda à des défauts de fabrication ou à des vices de main-d'oeuvre.

PÉRIODE DE GARANTIE

La couverture de la garantie entre en vigueur à la date de vente originale ou lorsque l'unité est mise en service en tant que modèle de démonstration.

MODÈLE	UTILISATION NON COMMERCIALE	UTILISATION COMMERCIALE	LOCATION/	CONCESSION
SÉRIE G / GV (G100)	12 MOIS	12 MOIS	12 MOIS	3 MOIS
GX / GXV (TOUS) (EXCEPTÉ CEUX DE L'ARTICLE 1)	24 MOIS	24 MOIS	24 MOIS	3 MOIS
(1) GX22, GX31, GXH50 GXV50	24 MOIS	12 MOIS	3 MOIS	3 MOIS
GC AND GCV	24 MOIS	3 MOIS	3 MOIS	AUCUNE

NOTA : UTILISATION PAR UNE CONCESSION SE RAPPORTE À GO KART, ETC.

CETTE GARANTIE S'APPLIQUE :

- à tout moteur à toutes fins Honda acheté au Canada d'un concessionnaire ou d'un distributeur autorisé de moteurs à toutes fins Honda ;
- à toute pièce installée à l'usine (à l'exception des pièces sujettes à un entretien régulier dont il est mentionné dans la section intitulée «CETTE GARANTIE NE S'APPLIQUE PAS», et ;
- à tout moteur à toutes fins sur lequel les services d'entretien périodiques ont été effectués, tel que prescrit dans le Manuel du propriétaire.

CETTE GARANTIE NE S'APPLIQUE PAS :

- aux réparations requises suite aux collisions, accidents, chocs de tout objet, course, usage abusif ou manque d'entretien ;
- aux réparations rendues nécessaires parce que l'installation ou la réparation des dispositifs, pièces ou accessoires ont été effectuées par une personne autre que le fabricant de l'équipement d'origine ou qu'un concessionnaire autorisé de produits mécaniques Honda ;
- à un moteur à toutes fins qui a été modifié, altéré, démonté ou transformé ;
- aux services d'entretien réguliers, y compris le serrage des boulons, écrous et raccords, la mise au point du moteur et le remplacement de pièces requises dans le cadre de l'entretien normal telles que filtres, bougies et fils, fusibles, courroies, lubrifiant et toutes les pièces sujettes à l'usure normale.

OBLIGATION DU PROPRIÉTAIRE

Afin de maintenir la validité de cette GARANTIE DU DISTRIBUTEUR, les services d'entretien requis tels qu'énoncés dans le Manuel du propriétaire doivent être effectués aux intervalles appropriés et les reçus détaillés et registres doivent être gardés en dossiers.

COMMENT BÉNÉFICIER DE CETTE GARANTIE

Vous devez apporter votre moteur à toutes fins Honda, à vos frais, pendant les heures normales de travail, chez le concessionnaire autorisé de produits mécaniques Honda où vous avez acheté ce produit ou chez le concessionnaire précisé par le fabricant de l'équipement propulsé par le moteur Honda. Si vous ne pouvez pas obtenir le service prescrit par la garantie ou en êtes insatisfait, prenez les mesures suivantes : communiquez d'abord avec le propriétaire de la concession concernée ; cela devrait suffire pour résoudre le problème. Si, toutefois, vous désirez de l'aide additionnelle, veuillez écrire au bureau Honda Canada Inc. de votre région à l'attention du Service des relations avec la clientèle aux adresses suivantes :

HONDA CANADA INC.
715 MILNER AVENUE, TORONTO, ON M1B 2K8

TELEPHONE
SANS FRAIS: 1-888-946-6329

FAX
SANS FRAIS: 1-877-939-0909
SECTEUR DE TORONTO: (416) 287-4776

GARANTIE DES PIÈCES DE RECHANGE

Les pièces de rechange neuves d'origine Honda, vendues à un consommateur et installées par un concessionnaire autorisé de produits mécaniques Honda, non couvertes aux termes de la GARANTIE DU DISTRIBUTEUR sont garanties pour une période d'un (1) an à compter de la date d'achat dans le cas de l'utilisation normale ou de trois (3) mois dans le cas de l'utilisation commerciale/la location ou dans une concession, sous réserve que cette garantie de pièces de rechange ne s'applique pas aux pièces de rechange modifiées, utilisées ou installées sur un produit mécanique pour lequel lesdites pièces de rechange n'étaient pas conçues. Les composantes électriques qui ne sont pas installées par le concessionnaire (vendues au comptoir) ne sont pas couvertes par une garantie.

EXCLUSION DE TOUTE AUTRE GARANTIE

La GARANTIE DU DISTRIBUTEUR est la seule et unique garantie écrite offerte par Honda sur les moteurs à toutes fins Honda. Aucun concessionnaire, agent ou employé n'est autorisé à prolonger ou augmenter cette garantie au nom de Honda par toute déclaration écrite ou verbale ou toute publicité.

DÉNÉGATION DE RESPONSABILITÉ

Dans la mesure autorisée par la loi, Honda se dégage de toute responsabilité découlant des pertes de temps ou d'utilisation du moteur à toutes fins, des coûts de transport ou de remorquage ou de tout autre dommage imprévu, direct ou consécutif, d'inconvénient ou de perte de revenus.

AVIS AU CONSOMMATEUR

Les stipulations contenues dans ces garanties écrites n'ont pas pour objet de limiter, modifier, annuler, nier ou exclure toute garantie énoncée dans «The Consumer Products Warranties Act, 1977» (Saskatchewan), «The Consumer Product Warranty and Liability Act» (Nouveau-Brunswick) et la «Loi sur la protection du consommateur» (Québec) ou toute autre loi provinciale ou fédérale similaire.



Distributor's Warranty

HONDA CANADA INC., 715 Milner Avenue, Toronto, Ontario for and on behalf of Honda Motor Co. Ltd., Tokyo, Japan, gives the following written warranty on each new General Purpose Engine manufactured by Honda Motor Co. Ltd., Japan, distributed in Canada by Honda Canada Inc. and sold as part of the original equipment of machinery or equipment when such machinery or equipment is manufactured in Canada. Whenever used herein, the word "Honda" refers to Honda Canada Inc. and/or Honda Motor Co. Ltd. as appropriate from the context.

HONDA WARRANTS THAT each new Honda General Purpose Engine will be free, under normal use and maintenance, from any defects in material or workmanship for the relevant warranty period set forth below. If any defects should be found in a Honda General Purpose Engine within the relevant warranty period, necessary repairs and replacements with a new part or the Honda equivalent shall be made at no cost to the consumer for parts and labour (except for labour charges due to the presence of an attachment), when Honda acknowledges that such defects are attributable to faulty material or workmanship at the time of manufacture.

WARRANTY PERIOD

Warranty coverage commences from the original date of sale or when the unit is first put into use as a demonstrator.

MODEL	NON-COMMERCIAL	COMMERCIAL	RENTAL	CONCESSION
G / GV SERIES (G100)	12 MONTHS	12 MONTHS	12 MONTHS	3 MONTHS
GX / GXV (ALL) (EXCEPT AS NOTED UNDER 1)	24 MONTHS	24 MONTHS	24 MONTHS	3 MONTHS
(1) GX22, GX31, GXH50, GXV50	24 MONTHS	12 MONTHS	3 MONTHS	3 MONTHS
GC AND GCV	24 MONTHS	3 MONTHS	3 MONTHS	NONE

NOTE: CONCESSION USE REFERS TO GO KARTS ETC.

THIS WARRANTY COVERS

- Any Honda General Purpose Engine purchased from a Honda general purpose engine dealer or distributor authorized to sell that product in Canada.
- Any factory installed part (except normal maintenance parts referred to in "THIS WARRANTY DOES NOT COVER"); and
- Any General Purpose Engine on which required maintenance services have been performed as prescribed in the Owner's Manual.

THIS WARRANTY DOES NOT COVER

- Any repairs required as a result of collision, accident, striking any object, racing, misuse or lack of required maintenance.
- Any repairs required as a result of any attachments, parts or devices installed by or repairs done by a party other than the Original Equipment Manufacturer or an authorized Honda Power Products dealer.
- Any Honda General Purpose Engine modified, altered, disassembled or remodelled.
- Normal maintenance services, including tightening of nuts, bolts and fittings and engine tune-up and the replacement of parts made in connection with normal maintenance services including filters, spark plugs and wires, fuses, belts, lubricants and other expendables susceptible to natural wear.

THE OWNER'S OBLIGATION

In order to maintain the validity of this DISTRIBUTOR'S WARRANTY, the required maintenance services as set forth in the Owner's Manual must be performed at the proper intervals and detailed receipts and records retained as proof.

TO OBTAIN WARRANTY SERVICE

You must take your Honda General Purpose Engine, at your expense, during normal service hours, to the authorized Honda Power Products dealer or the dealer designated by the manufacturer of the machinery or equipment powered by the Honda engine. If you are unable to obtain or are dissatisfied with the warranty service you receive, first contact the owner of the dealership involved; this should resolve the problem. If you require further assistance, contact Honda Canada Inc., attention Customer Relations Department.

HONDA CANADA INC.

715 MILNER AVENUE, TORONTO, ON M1B 2K8

TELEPHONE

FAX

TOLL FREE: 1-888-946-6329

TOLL FREE:

1-877-939-0909

TORONTO AREA:

(416) 287-4776

REPLACEMENT PARTS WARRANTY

New genuine Honda replacement parts sold to a consumer or installed by an authorized Honda power equipment dealer which are not covered by the DISTRIBUTOR'S WARRANTY are warranted for a period of one year from date of purchase for normal use, or 3 months for rental or concession use provided, however, that this Replacement Parts Warranty does not apply to any replacement parts modified, used with, or installed on a power product for which the replacement parts were not intended. Electrical components that are not installed by the dealer (sold over the counter) are not covered by warranty.

ENTIRE WRITTEN WARRANTY

This DISTRIBUTOR'S WARRANTY is the only and the entire written warranty given by Honda for Honda General Purpose Engines. No dealer or his agent or employee is authorized to extend or enlarge on these warranties on behalf of Honda by any written or verbal statement or advertisement.

DISCLAIMER

To the extent the law permits, Honda disclaims any responsibility for loss of time or use of the General Purpose Engine, transportation or towing costs or any other indirect, incidental or consequential damage, inconvenience or commercial loss.

NOTICE TO CONSUMER

The provisions contained in these written warranties are not intended to limit, modify, take away from, disclaim or exclude any warranties set forth in or the operation of The Consumer Products Warranties Act, 1977 (Saskatchewan), The Consumer Product Warranty and Liability Act (New Brunswick), The Consumer Protection Act (Quebec), or any other similar provincial or federal legislation.

