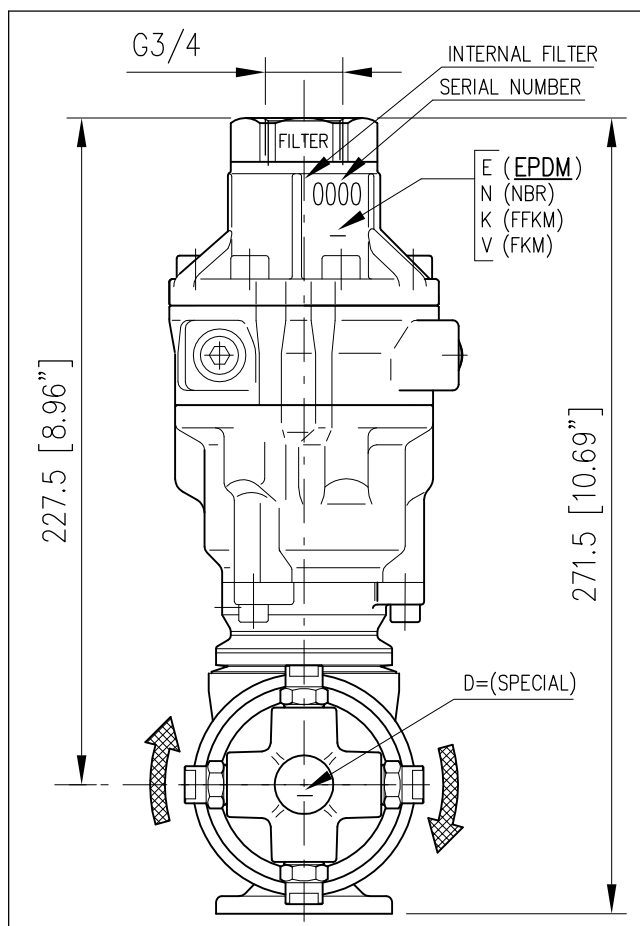
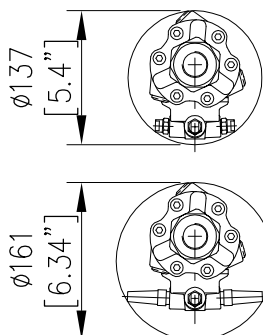


A80-R2

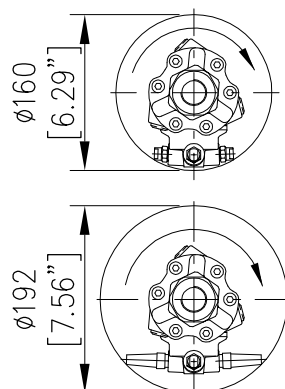
MANUALE D'ISTRUZIONE GENERAL INSTRUCTION BOOK



Foro entrata minimo
in manuale
Minimum inlet hole
for manual operation



Foro entrata minimo
in automatico
Minimum inlet hole
for automatic operation



TESTINA AUTOMOVENTE PER PULIZIA CISTERNE

- Testina volumetrica, la velocità di rotazione è proporzionale alla portata in ingresso.
- Lavaggio superfici interne di contenitori e serbatoi.
- Portata ridotta, alta pressione, elevata forza di impatto.
- Copertura orbitale completa degli interni.
- Velocità di rotazione indipendente dalla temperatura dell'acqua.
- Filtro in entrata.
- Costruzione in acciaio inox.
- Idonea per impiego settore alimentare.

ATTENZIONE !

- La Testina STANDARD è fornita di guarnizioni (DINAMICHE) in PTFE + O-Ring **EPDM**.
- Lubrificare esclusivamente con **GRASSO SILICONICO** codice: 14.6552.00
- Per l'utilizzo di liquidi detergenti, additivi chimici ecc. non compatibili con le guarnizioni standard è indispensabile contattare il nostro UFFICIO TECNICO.
- A richiesta le guarnizioni (DINAMICHE) O-RING sono disponibili anche in diverso materiale, NBR-FFKM(kalrez)-FKM(viton).
- Le guarnizioni (STATICHE) sono in FKM (viton).

SELF ROTATING CLEANING HEAD

- This is a self-propelled tank cleaning head: when the flow rate increases, the head rotates faster.
- Cleaning of interior surfaces of tanks and drums.
- Reduced flow, high pressure, high cleaning impact.
- Complete orbital coverage of all interior surfaces.
- Rotating speed independent from water temperature.
- Inlet filter.
- Stainless steel construction.
- Suitable for utilization in food industry.

ATTENTION !

- The STANDARD Tank cleaning head is supplied with seals (DYNAMIC) in PTFE + O-Ring **EPDM**.
- Lubricate ONLY with **SILICONE GREASE** P/N: 14.6552.00
- For use with Detergent liquid, Chemical additives etc that are not compatible with the standard seals, it is essential to contact our TECHNICAL OFFICE for further information.
- On request, the O-RING seals (DYNAMIC) are available in different materials such as NBR-FFKM(kalrez)-FKM(viton).
- The STATIC seals are in FKM (viton).

**ATTENZIONE: NON UTILIZZARE
L'APPARECCHIO PRIMA DI AVER LETTO
QUESTO MANUALE DI ISTRUZIONE**

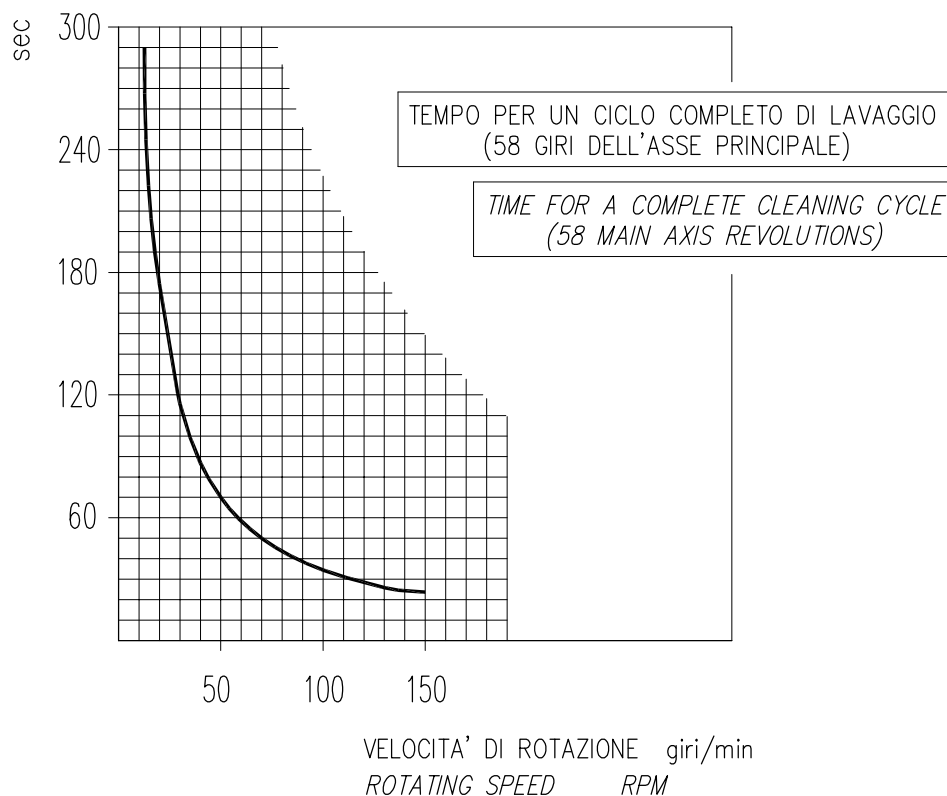
**CAUTION: DO NOT USE THE
CLEANING HEAD BEFORE HAVING READ
THE INSTRUCTION BOOK**

CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

A80-R2



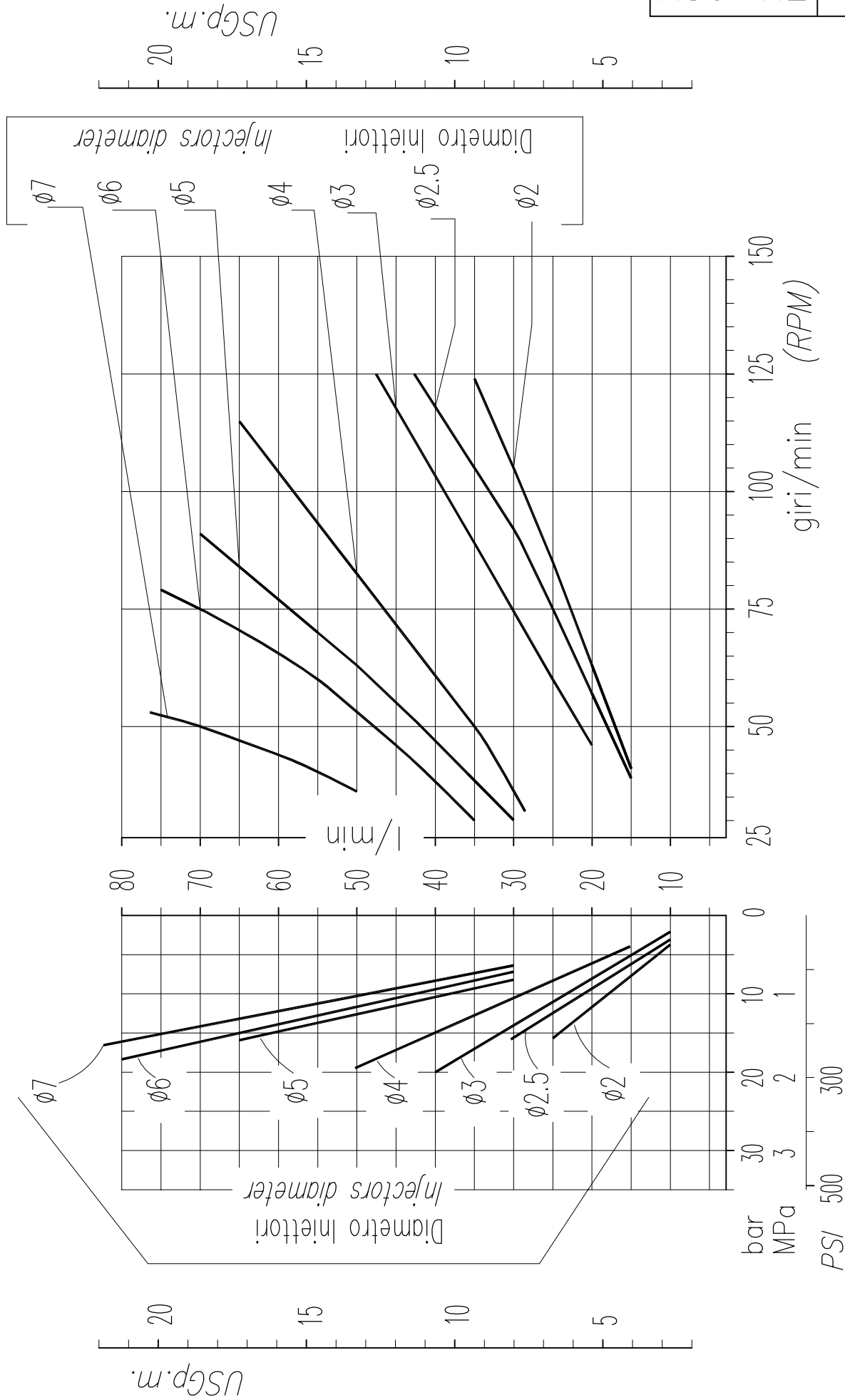
– PRESSIONE NOMINALE RATED PRESSURE	30÷140 bar – 3÷14 MPa (435–2000 psi)
– PRESSIONE CONSENTITA PERMISSIBLE PRESSURE	160 bar – 16 MPa (2300 psi)
– PORTATA MASSIMA MAX FLOW RATE	20 – 80 l/min (5.3–21,1 USGp.m.)
– TEMPERATURA MASSIMA ACQUA MAX WORKING TEMPERATURE	0–90°C (32–195°F)
– PESO WEIGHT	5.9 kg (208,1 oz)
– FREQUENZA ROTAZIONE ASSE PRINCIPALE MAIN AXIS ROTATING SPEED	60–120 giri/min (RPM)
– ATTACCO ALIMENTAZIONE ACQUA INLET CONNECTION SIZE	G 3/4"
– FILTRO IN INGRESSO INLET FILTER	550 µm
– ATTACCO UGELLI (2 o 4) NOZZLES CONNECTION (2 or 4)	1/4 NPT



–D1–

CADUTA DI PRESSIONE IN FUNZIONE DELLA PORTATA
LOSS OF PRESSURE IN RELATION TO FLOW

VARIAZIONE DEI GIRI IN FUNZIONE DELLA PORTATA
RPM VARIATION IN RELATION TO FLOW



**P.A. – S.p.A. – EQUIPAGGIAMENTI TECNICI DEL LAVAGGIO**

VIA MILANO, 13 – CASELLA POSTALE 115 – 42048 RUBIERA (REGGIO EMILIA) – ITALY
 Tel. +39 0522 623611 – Fax. +39 0522 629600 – R.E.A. RE 156319 – R.I. RE11535 – Mecc. RE 013446
 C.F. e P. IVA 01035950359 – Cap. Soc. i.v. € 750.000,00 – Codice Identificativo C.E.E. IT 01035950359
 ART. 2497 – BIS C.C. DIREZIONE E COORDINAMENTO BENETTI srl R.I. TRIB. DI RE 01480690351
 Web: <http://www.pa-etl.it> – E-mail: info@pa-etl.it

**Dichiarazione di conformità – Declaration of conformity**

(Ai sensi dell'Allegato VII della Direttiva Europea 97/23/CE - PED)
 (In accordance to Annex VII of European Directive 97/23/EC – PED)

Attrezzatura – Equipment:		ACCESSORIO A PRESSIONE PRESSURE EQUIPMENT	
Modello – Type:		A80R - A80R2	
Fluido – Fluid:		ACQUA CALDA E DETERGENTI HOT WATER AND DETERGENTS	
Gruppo fluidi: Group of Fluid:	II	Temperatura min. e max. ammissibile Permissible Temperature (min/max)	0 ÷ 90°C

Procedura di valutazione della conformità

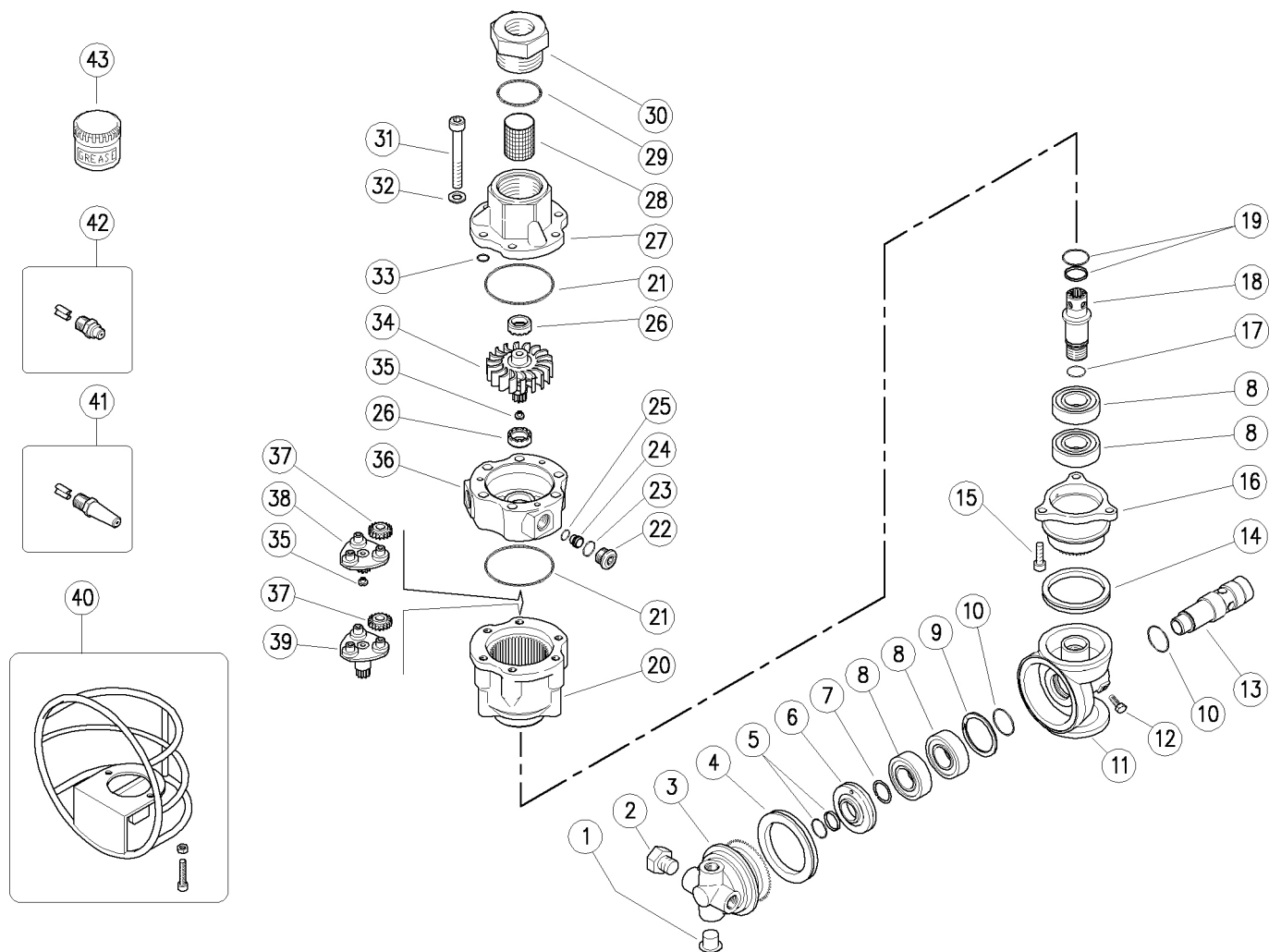
Conformità Assessment Procedure Followed

Categoria: Category:		Modulo: Module:	Articolo 3.3
Organismo notificato - <i>Notified Body:</i>		-----	
Attestato CE del tipo - <i>EC Type - Examination Certificate:</i>		-----	
Marcatura CE del fabbricante - <i>Manufacturer's CE Marking:</i>		-----	
Organismo Notificato per il Sistema Qualità: <i>Notified Body for Assessment of Quality System:</i>		-----	
Organismo di certificazione per il Sistema di Qualità: <i>Notified Body for Certification of Quality System:</i>		DNV	
Norme europee applicate: <i>Harmonized Standards applied :</i>		CEI EN 60335-2-79, UNI EN 1829	
Altre Direttive applicate - <i>Other Directive applied</i> Direttiva Europea – European Directive 2002/95/EC			
Codici di calcolo: <i>Design Calculations Made:</i>		764-1, Raccolta ISPESL – Collection: VSR	

Libretto uso e manutenzione presente nel sito web Operation and Maintenance Manual to be found on Website	Il Fabbricante PA SpA The Manufacturer PA SpA	
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25.4850.25 A80-R2 Testina a 2 stadi, iniett.2,5mm
 25.4850.40 A80-R2 Testina a 2 stadi, iniett.4mm

25.4850.70 A80-R2 Test.semov., iniett.7mm
 25.4850.80 A80-R2 test.automov.a 2 stadi,in.7mm cor



Pos.	Codice	Descrizione	Q.tà	K1	K2	K3	K4	
1	15.3720.14	Tappo G1/4" plast.	2					4
2	15.3721.14	Tappo inox 1/4M Npt s/testa	2					10
3	80.0132.52	Pignone portaugelli z.58 4x1/4Npt F inox	1					1
4	10.2060.05	Anello V-ring 54x5 mm	1	*				5
5	10.2030.16	Guarn. stelo 16x21x2,2 mm +OR Epdm	1	*				5
5	10.2035.16	Guarn.16x21x2,1 mm +Or Vit. **	1					5
5	10.2033.16	Anello guarn.16mm+An.Or, kalrez **	1					1
6	80.0211.51	An. distanziale 16x41,8x8,8mm inox	1					2
7	10.1021.00	An. elastico d.20x2 mm inox	1	*				5
8	11.4420.42	Cuscinetto 20x42x12 mm - 2RS1 inox	4	*				2
9	10.1025.05	An. elast. I 42 inox	1	*				5
10	10.3200.10	An.OR 2,62x23,47 mm Vi 70	2	*				10
11	80.0135.52	Terminale albero dentato inox	1					1
12	16.1870.02	Vite DIN933 M5x12 mm inox	2					10
13	80.0242.51	Perno 24x85mm inox	1					1
14	10.2050.05	Anello V-ring 45x5 mm	1	*				2
15	16.1896.20	Vite DIN912 M6x20 mm inox	3					10
16	80.0131.52	Pignone z.39 inox	1					1
17	10.3066.10	An.OR 1,78x15,6 mm Vi 70	1					10
18	80.0243.51	Albero terminale inox	1					1
19	10.2030.18	Guarn. stelo 18x23x2 mm +OR Epdm	1	*				5
19	10.2035.18	Anello guarn.18mm -patt.+An.Or vit. **	1					1
19	10.2033.18	Anello gu.18mm -pat.+An.Or, kalrez **	1					1
20	80.0207.52	Corona z.50 inox	1					1
21	10.3080.58	An.OR 1,78x56,87 mm Vi 70	2	*				10
22	80.0219.51	Tappo EI M14x1 inox	3					3
23	10.3060.10	An.OR 1,78x12,42 mm Vi 70	3	*				10
24	80.0221.51	Iniettore 2mm inox **	3					3
24	80.0227.51	Iniettore 2,5mm inox **	3					3

** Su richiesta

*** Varie misure disponibili

Kit	Codice	Descrizione	
K1	25.4828.24	Kit ric.guarn. A80R 10x1pz.	1
K2	25.4852.24	Kit ric. A80R 7x1pz.	1

(1) 25.4850.40 (2) 25.4850.70 (3) 25.4850.80

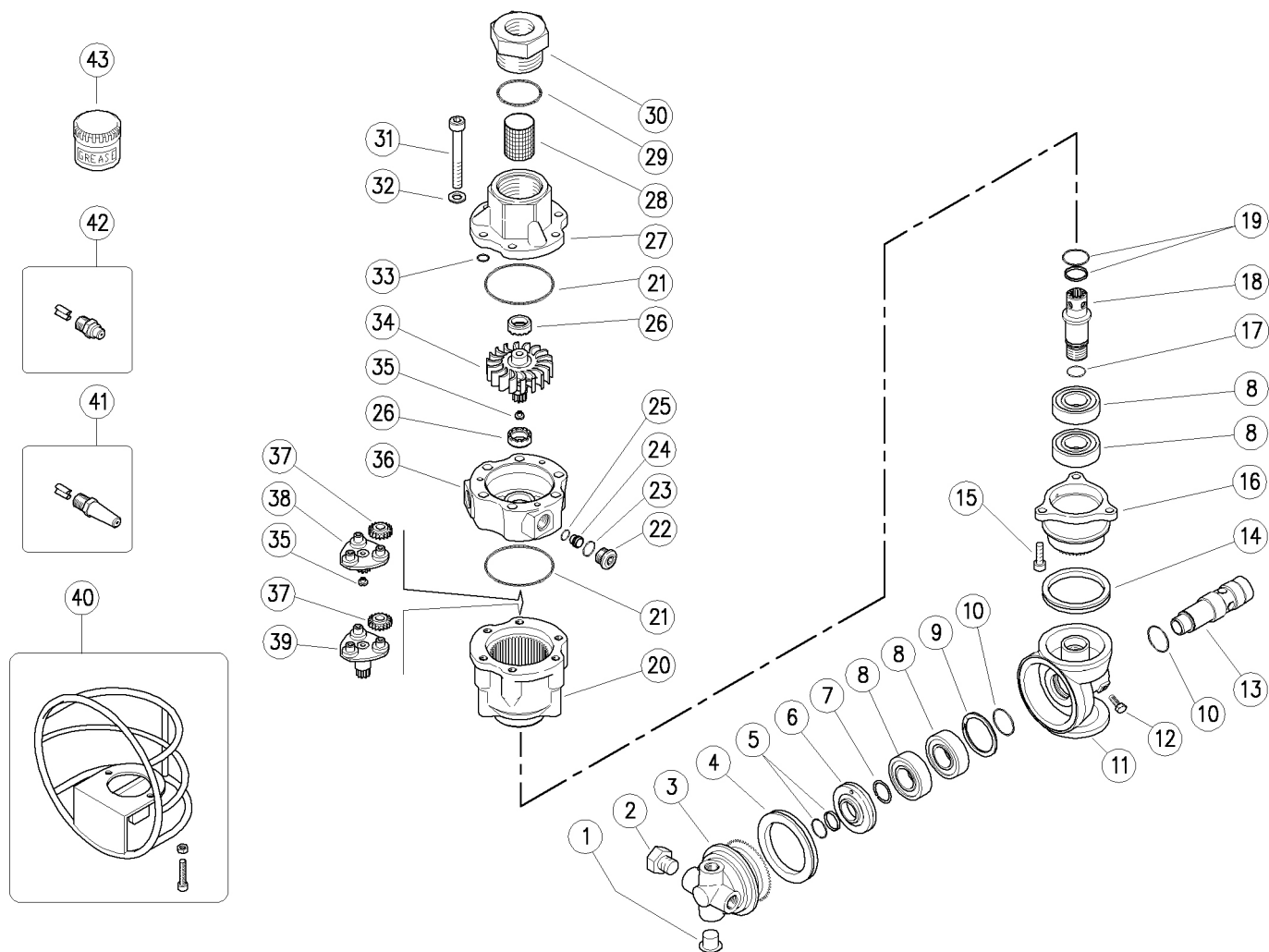
Pos.	Codice	Descrizione	Q.tà	K1	K2	K3	K4	
24	80.0222.51	Iniettore 3mm inox **	3					3
24	80.0223.51	Iniettore 4mm inox (1) **	3					3
24	80.0224.51	Iniettore 5mm inox	3					3
24	80.0225.51	Iniettore 6mm inox **	3					3
24	80.0226.51	Iniettore 7mm inox (2) **	3					3
24	80.0228.51	Iniettore corto 7mm inox (3) **	3					3
25	10.3003.00	An.OR 1x8 mm	3	*				10
26	80.0212.84	Boccola plastica	2	*				3
27	80.0201.52	Collettore inox	1					1
28	28.0014.53	Rete 38mesh-400µm inox	1					10
29	10.3208.36	An.OR 2,62x36,17 mm Vi 70	1	*				5
30	80.0217.51	Racc. M40x2 M -G3/4F inox	1					1
31	16.1955.60	Vite DIN912 M8x60 mm inox	6					10
32	14.3573.00	Rosetta sicur. 8,4x2 mm inox	6					10
33	10.3109.93	An.OR 2,4x8,3 mm Vi 70	3	*				10
34	80.0203.52	Turbina inox	1					1
35	80.0213.84	Perno rasamento plast.	3	*				3
36	80.0202.52	Statore inox	1					1
37	80.0204.38	Satellite z.19 bronzo	6	*				3
38	80.0205.00	Portasatelliti+3 perni inox	1					1
39	80.0245.21	Compl. Portasatelliti terminale	1					1
40	25.4822.00	Protez. -A80 R -ug.prolun. **	1					1
41	80.0418.23	Ug. prol. inox 07 1/4M Npt+ventol. **	2-4					2
41	80.0420.23	Ug. prol. inox 09 1/4M Npt+ventol. **	2-4					2
41	80.0430.23	Ug. prol. inox 20 1/4M Npt +ventol. **	2-4					2
41	80.0440.23	Ug. prol. inox 30 1/4M Npt +ventol.	2-4					2
42	16.1380.45	Ug. inox 1/4M Npt+ventol. 00.045 ***	2-4					10
43	14.6552.00	Grass.silicone-teflon-30g.>tutti imp. **	1					2
43	14.6550.00	Grasso al teflon x30 g.>no Epdm **	1					2

25.4850.25 A80-R2 Tank clean.,2-stage,2,5mm inject.

25.4850.40 A80-R2 Tank clean.,2-stage, 4mm inject.

25.4850.70 A80-R2 Tank clean.,s/prop.,7mm inject.

25.4850.80 A80-R2 tank cleaner, 7mm, short inj.



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	15.3720.14	Plug, 1/4" Bsp plast.	2					4
2	15.3721.14	Grub screw, Sst. 1/4M Npt	2					10
3	80.0132.52	Nzl hold. pinion, z.58 4x1/4Npt F Sst.	1					1
4	10.2060.05	V-ring seal, 54x5 mm	1	*				5
5	10.2030.16	Stem seal, 16x21x2,2 mm +O-ring Epdm	1	*				5
5	10.2035.16	Seal, 16x21x2,1 mm+Or.iVit. **	1					5
5	10.2033.16	Seal,16mm+O-ring, kalrez **	1					1
6	80.0211.51	Spacer ring, 16x41,8x8,8mm Sst.	1					2
7	10.1021.00	Snap ring, d.20 mm Sst.	1	*				5
8	11.4420.42	Ball-bearing, 20x42x12 mm - 2RS1 Sst.	4	*				2
9	10.1025.05	Snap ring, I 42 Sst.	1	*				5
10	10.3200.10	O-ring, 2,62x23,47 mm Vi 70	2	*				10
11	80.0135.52	Geared shaft end, Sst.	1					1
12	16.1870.02	Screw, DIN933 M5x12 mm Sst.	2					10
13	80.0242.51	Pin, 24x85mm Sst.	1					1
14	10.2050.05	V-ring seal, 45x5 mm	1	*				2
15	16.1896.20	Screw, DIN912 M6x20 mm Sst.	3					10
16	80.0131.52	Pinion, z.39 Sst.	1					1
17	10.3066.10	O-ring, 1,78x15,6 mm Vi 70	1					10
18	80.0243.51	Geared shaft, Sst.	1					1
19	10.2030.18	Stem seal, 18x23x2 mm +O-ring Epdm	1	*				5
19	10.2035.18	Seal, 18mm -slid.block +O-ring, vit. **	1					1
19	10.2033.18	Seal, 18mm -slid.block +O-ring, kalrez **	1					1
20	80.0207.52	Ring gear, z.50 Sst.	1					1
21	10.3080.58	O-ring, 1,78x56,87 mm Vi 70	2	*				10
22	80.0219.51	Plug, int.hex., M14x1 Sst.	3					3
23	10.3060.10	O-ring, 1,78x12,42 mm Vi 70	3	*				10
24	80.0221.51	Injector, 2mm Sst. **	3					3
24	80.0227.51	Injector, 2,5mm Sst. **	3					3

** On request

*** Different measures available

Kit	P/N	Description	
K1	25.4828.24	Seals Spares Kit - A80R 10x1pcs.	1
K2	25.4852.24	Spares Kit - A80R 7x1pcs.	1

(1) 25.4850.40 (2) 25.4850.70 (3) 25.4850.80

Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
24	80.0222.51	Injector, 3mm Sst. **	3					3
24	80.0223.51	Injector, 4mm Sst. (1) **	3					3
24	80.0224.51	Injector, 5mm Sst.	3					3
24	80.0225.51	Injector, 6mm Sst. **	3					3
24	80.0226.51	Injector, 7mm Sst. (2) **	3					3
24	80.0228.51	Short injector, 7mm Sst. (3) **	3					3
25	10.3003.00	O-ring, 1x8 mm	3	*				10
26	80.0212.84	Bushing, plast.	2	*				3
27	80.0201.52	Manifold, Sst.	1					1
28	28.0014.53	Net, 38mesh-400µm Sst.	1					10
29	10.3208.36	O-ring, 2,62x36,17 mm Vi 70	1	*				5
30	80.0217.51	Coupl., M40x2 M -3/4F Bsp Sst.	1					1
31	16.1955.60	Screw, DIN912 M8x60 mm Sst.	6					10
32	14.3573.00	Safet. washer, 8,4x2 mm Sst.	6					10
33	10.3109.93	O-ring, 2,4x8,3 mm Vi 70	3	*				10
34	80.0203.52	Turbine, Sst.	1					1
35	80.0213.84	Shim pin, plast.	3	*				3
36	80.0202.52	Stator, Sst.	1					1
37	80.0204.38	Planetary gear, z.19 brz	6	*				3
38	80.0205.00	Planetary gear holder+3 pins, Sst.	1					1
39	80.0245.21	Planetary gear holder+3 pins, Sst.	1					1
40	25.4822.00	Protect. -A80 R -extnd nzl. **	1					1
41	80.0418.23	Xnd. nzl., sst. 07 1/4M Npt+guid.vane **	2-4					2
41	80.0420.23	Xnd. nzl., sst. 09 1/4M Npt+guid.vane **	2-4					2
41	80.0430.23	Xnd. nzl., sst. 20 1/4M Npt +guid.vane **	2-4					2
41	80.0440.23	Xnd. nzl., sst. 30 1/4M Npt +guid.vane	2-4					2
42	16.1380.45	Nzl, sst,1/4M Npt+guid.vane 00.045 ***	2-4					10
43	14.6552.00	Teflon silicon grease x30g.>All **	1					2
43	14.6550.00	Teflon grease x30g.>no Epdm **	1					2