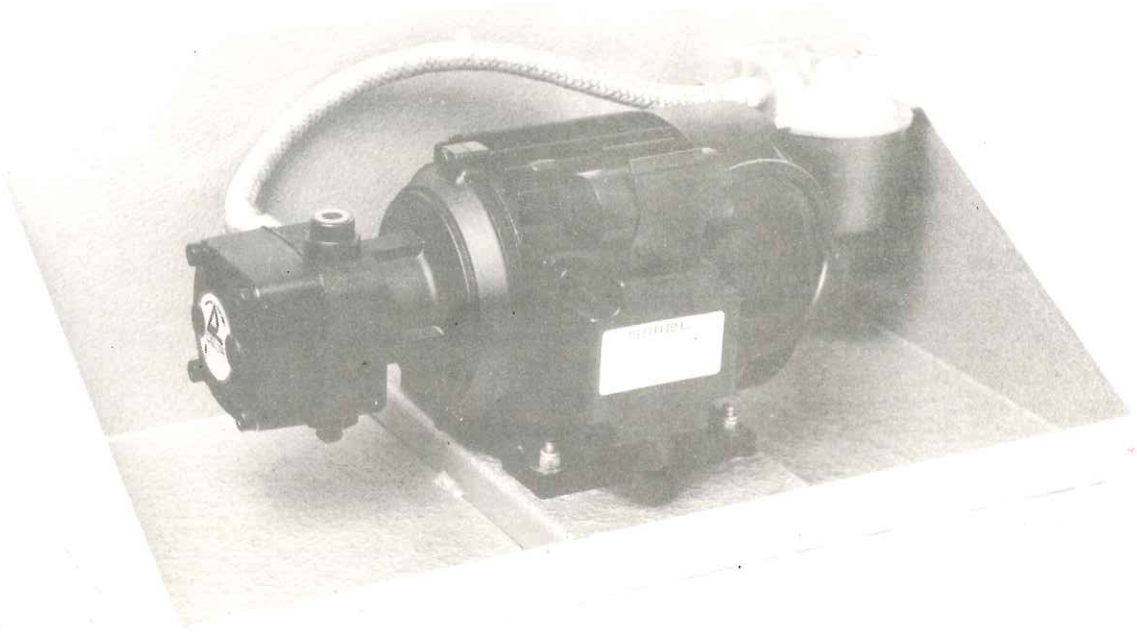
anglo nordic

OIL TRANSFER PUMPS



Anglo Nordic Compact Oil Transfer Pump Sets are offered for various applications including pressurising ring main, filling daily service tanks and maintaining oil supplies to high level burner installations.

Each unit is supplied mounted on a drip tray suitable for floor or wall mounting.

The unit as supplied is suitable for a low pressure single pipe installation however the pump sets can be adapted for use on two-pipe systems. High pressure units can be supplied to special order. An adjustable pressure regulator is incorporated in all pumps.

The pumps are supplied for use on light oil (35 second) and the ANTP 40, 60, 100, 150 and 250 series are suitable for oil up to 200 seconds. Pump sets for heavy oil are available to special order. All pump sets are supplied with a filter in the supply line, additional filters may be required on some applications.

The Anglo Nordic Compact Oil Transfer Pump Sets require additional protection if mounting in an open environment. Switch gear and starters are not supplied. Pressure reducing valves and back pressure relief valves are available if required. When designing a transfer pump installation, the pump set should be selected to deliver approximately 20% above the burner requirements. Whenever possible, the oil supply to the transfer pump should be by gravity feed.

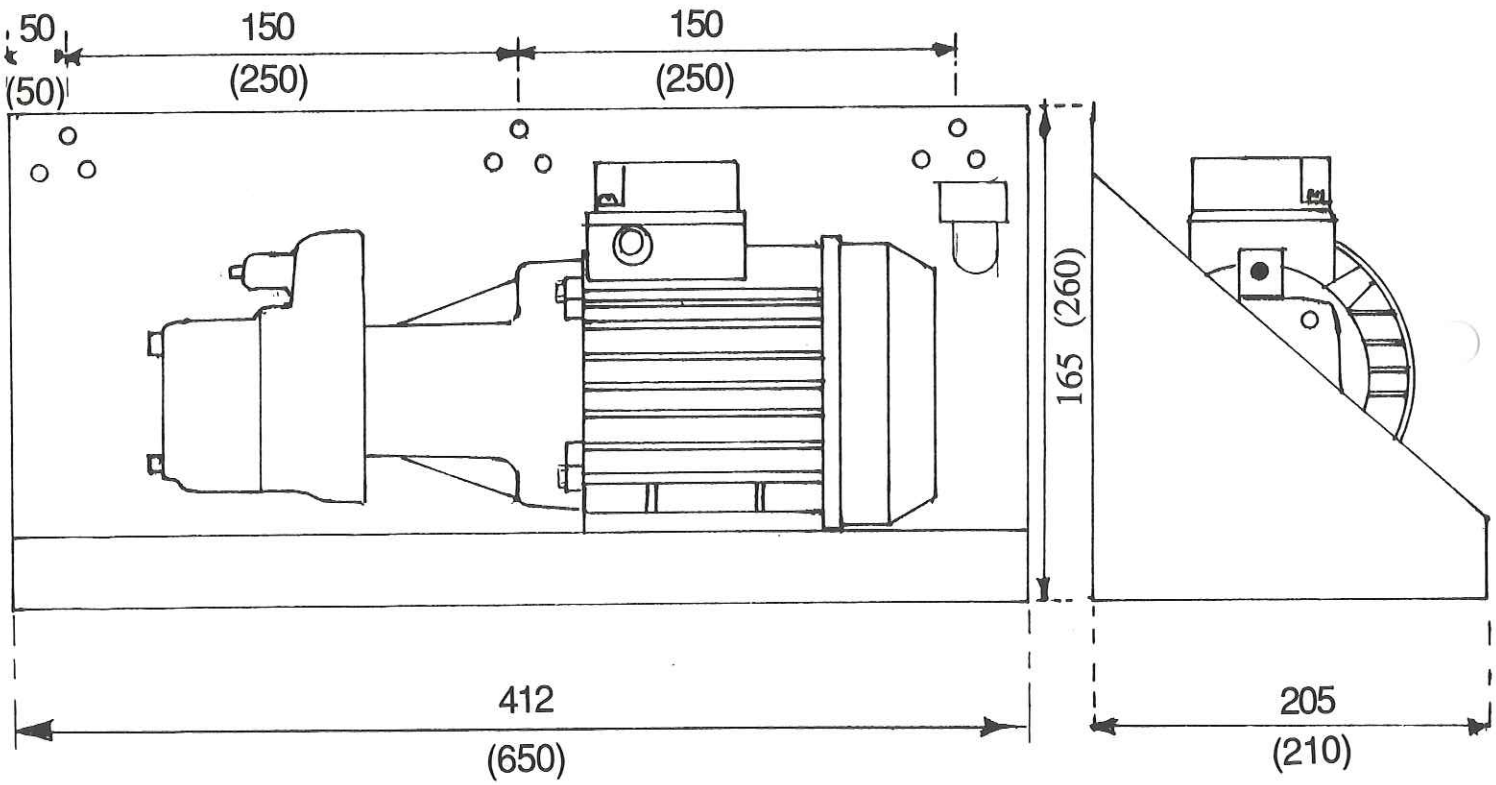
Please specify when ordering:- Application, oil type, output, quantity and electrical supply voltage.

anglo nordic

Anglo Nordic Burner Products Ltd.
Unit B,
Island Farm Avenue,
East Molesey
Surrey KT8 0UZ
Telephone: 01-979 0988 (4 lines)
Telex: 28565 ANTSCO G
Fax: 01-979 6961

anglo nordic

OIL TRANSFER PUMPS



MODEL	OUTPUT		MOTOR	PUMP CONNECTIONS - BSP			
				SUCTION	RETURN	DISCHARGE	DIMENSIONS
ANTP/12	12g	54 L	150w	1/4	1/4	1/8	Unbracketed
ANTP/22	22	99	150w	1/4	1/4	1/8	Ditto
ANTP/40	40	180	370w	1/4	1/4	1/8	Bracketed
ANTP/60	60	220	370w	1/4	1/4	1/4	Ditto
ANTP/100	100	450	550w	1/2	1/2	1/2	Ditto
ANTP/150	150	675	550w	1/2	1/2	1/2	Ditto
ANTP/250	250	1135	750w	1/2	1/2	1/2	Ditto

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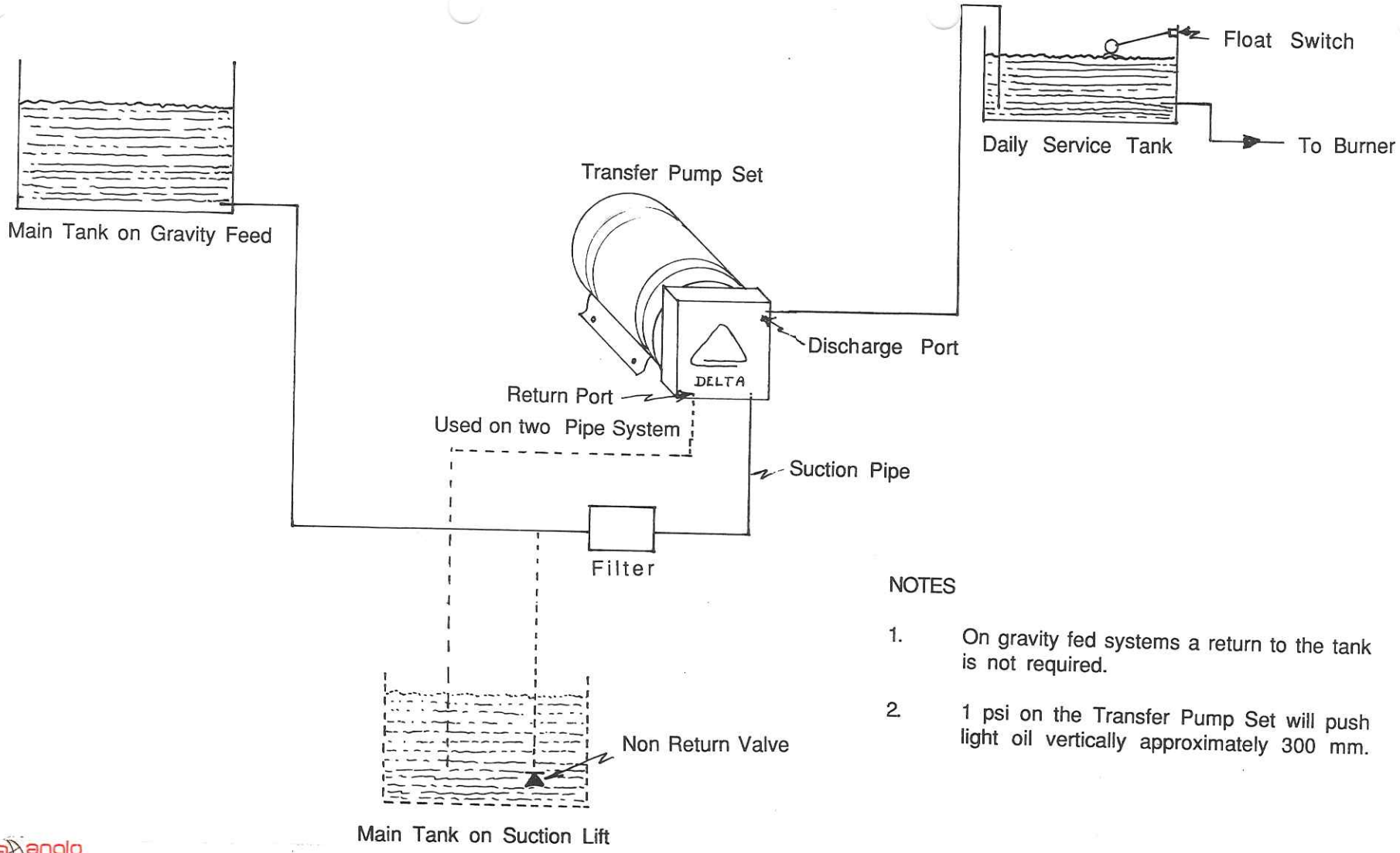

NOTES

1. On gravity fed systems a return to the tank is not required.
2. 1 psi on the Transfer Pump Set will push light oil vertically approximately 300 mm.

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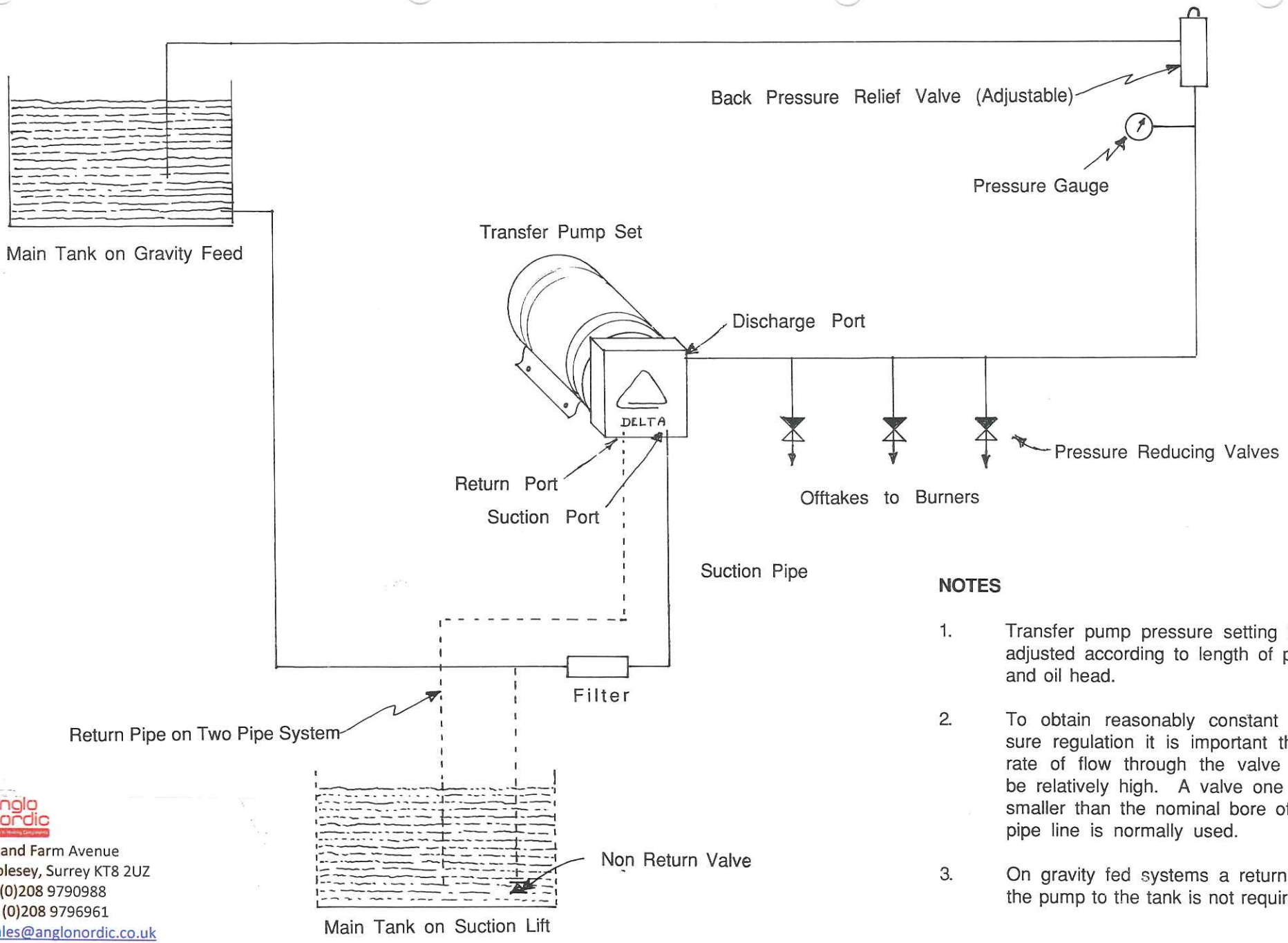
Web: www.anglonordic.co.uk

DAILY SERVICE TANK SYSTEM SCHEMATIC



NOTES

1. Transfer pump pressure setting is adjusted according to length of pipe run and oil head.
2. To obtain reasonably constant pressure regulation it is important that the rate of flow through the valve should be relatively high. A valve one size smaller than the nominal bore of the pipe line is normally used.
3. On gravity fed systems a return from the pump to the tank is not required.

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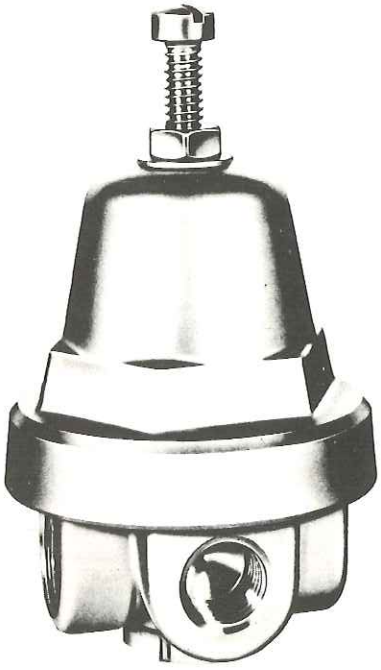
LOW PRESSURE MAIN SCHEMATIC

anglo nordic

PRESSURE REDUCING VALVE
TYPE A31S

The Cash-Acme Pressure Reducing Valve Type A31S has been designed to reduce a high pressure to a lower pressure and maintain that lower pressure within close limits. It is suitable for use with water, gas oil or air and has been designed for installations where space limitations are important. The valve consists of a high-quality forged brass body, designed to operate with inlet pressures up to 300 lb/in² having adjustable outlet pressure range from 2 to 25 lb/in²
Neoprene diaphragms are fitted as standard as are hycar seats. All valves are supplied preset at an outlet pressure of 4lb/in².
The valve is supplied with a fillister head adjusting screw and hexagon lock nut.

All the units have three ports, one inlet and two outlets. One of the outlets is a gauge connection which is on the right-hand side of the valve.



A31S
Pressure Reducing Valve

BACK PRESSURE RELIEF VALVE
TYPE MC

MC
Back Pressure Relief Valve

The back pressure relief valve type MC is intended to maintain a constant pressure on the inlet side.
It has been designed with a metal to metal seat and although not suitable for installations where a drip tight shut off is required, it is suitable for use with oil, water and some gases.
This unit can be used to maintain a constant pressure in an oil ring main or for by-pass protection on pumps as used in domestic water systems.
With a body constructed of bronze, it has a stainless steel ball seat and rust-proof monel spring, with adjusting screw and lock nut. It is suitable for inlet pressures of 15 to 125 lb/in² and the type MC has a leak-proof closing cap over the adjusting screw.

anglo nordic

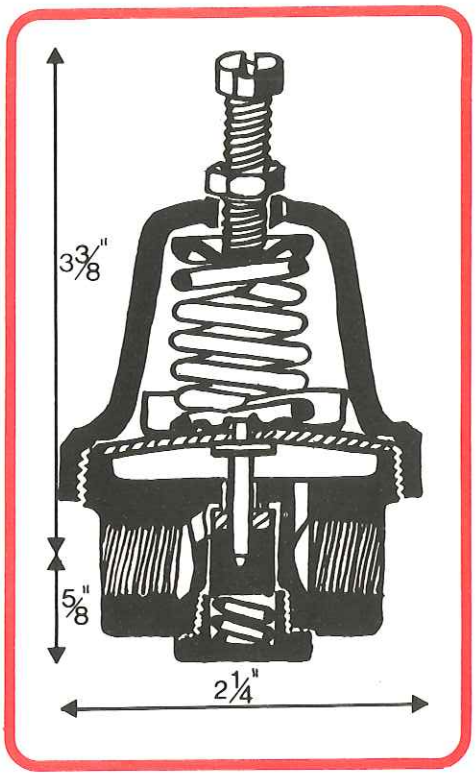
PRESSURE REDUCING VALVE
TYPE A31S
BACK PRESSURE RELIEF VALVE
TYPE MC

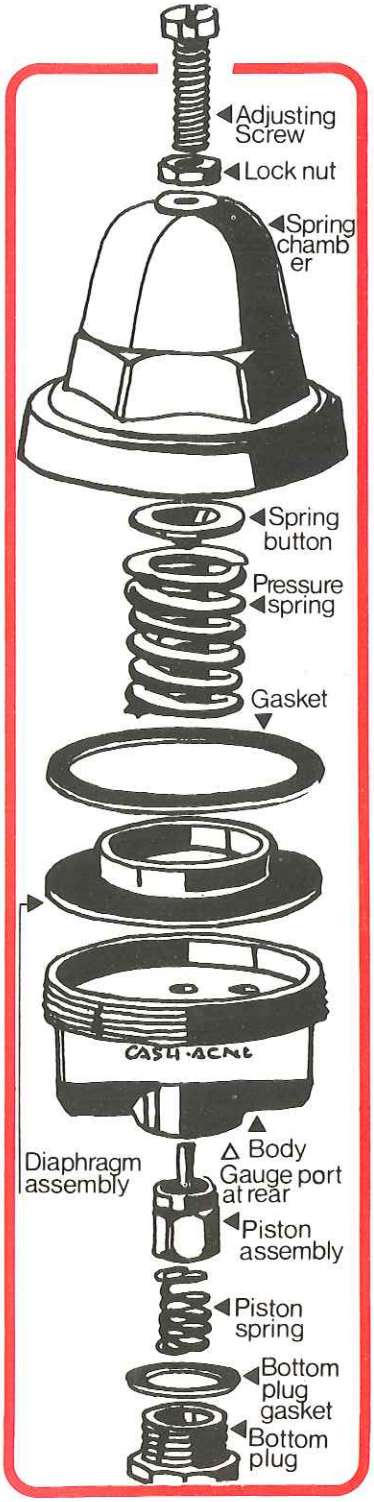
TECHNICAL INFORMATION

Pressure Reducing Valve Type A31S

The exploded view drawing on the right indicates the method of operation of the pressure reducing valve.

Specification	
Inlet & Outlet	$\frac{3}{8}$ in BSP.
Dimensions	As shown
Weight	$1\frac{1}{8}$ lb
Outlet Pressure Range	2 to 25 lb/in² (Adjustable)
Maximum Inlet Pressure	300 lb/in²
Maximum Temperature	160°F.
Gauge connection	$\frac{1}{4}$ in BSP



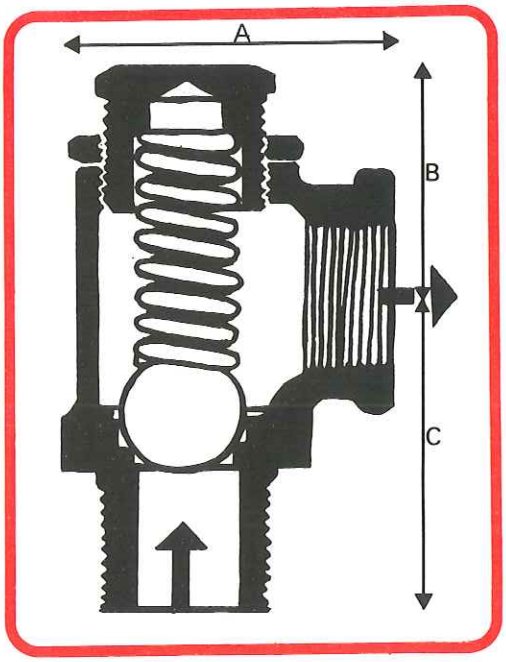


Back Pressure Relief Valve type MC

Specification

Dimensions A (in)	Dimensions A (mm)	Dimensions B (in)	Dimensions B (mm)	Dimensions C (in)	Dimensions C (mm)	Pipe Size (in)	Weight (lb)	Weight (kg)
$1\frac{5}{8}$	41	$1\frac{3}{4}$	44	$1\frac{1}{2}$	38	$\frac{1}{2}$	$\frac{3}{4}$	·34
2	51	2	51	2	51	$\frac{3}{4}$	1	·45
$2\frac{1}{4}$	57	$2\frac{3}{8}$	60	$2\frac{1}{4}$	57	1	$1\frac{1}{2}$	·68

Pressure range 15 to 125 lb/in²



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Cross Reference & Conversion Data

Simel Burner Motor Details - Flange

Type	P.C.D Bolt Holes	Shoulder Diameter
E 130	130mm	110mm
Nema 1 flange	172mm	140mm
Nema 2 flange	184mm	162mm
F6 flange	134mm	125mm

Simel Motor Wiring - For Rotation Looking On Shaft End

A) External Lead Version

Clockwise

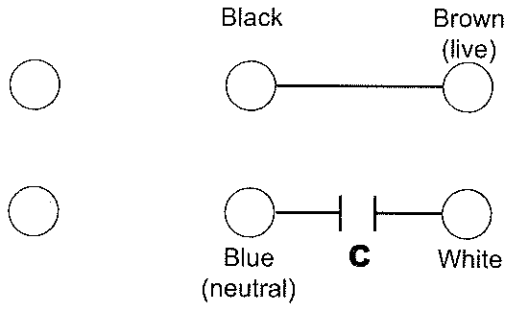
Brown & black to live
White & blue to neutral
Yellow & green to earth

Counter Clockwise

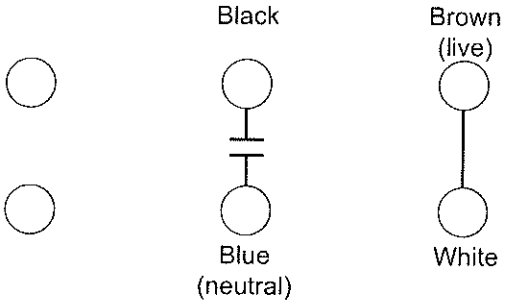
Brown & white to live
Black & blue to neutral
Yellow & green to earth

B) Foot Mounted Motors (single phase)

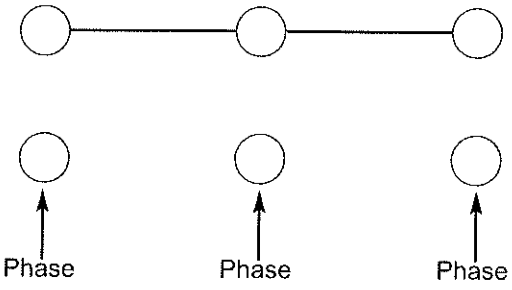
Counter Clockwise



Clockwise

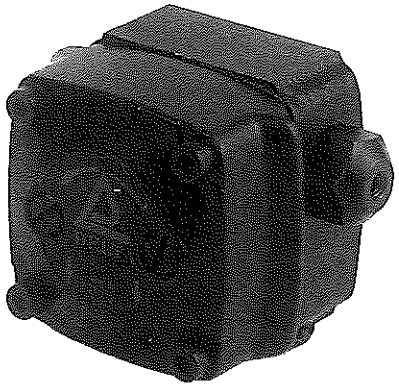


C) Foot & Flange mounted Motors (three phase)



To reverse the rotation swop 2 of the phases.

DELTA
P U M P S



POMPE VD
VD PUMPS
VD PUMPEN
POMPES VD

DELTA PUMPS

ESEMPIO DI ORDINAZIONE - HOW TO ORDER - BESTELLUNGSBEISPIEL - EXEMPLE DE COMMANDE

VD	1	R	L	2	4		

1 — Portata ugello - Vedi grafici
Nozzle capacity - See graphs
Duesenleistung - Siehe Kurven
Débit gicleur - Voir schémas

R — Rotazione (vista dall'albero)
R = oraria
L = antioraria
Rotation (seen from shaft end)
R = clockwise
L = counter clockwise
Drehrichtung (auf die Welle gesehen)
R = im Uhrzeigersinn
L = gegen Uhrzeigersinn
Rotation (vue de l'arbre)
R = dans le sens horaire
L = dans le sens antihoraire

L — Mandata ugello
(vista dal coperchio)
R = destra **L** = sinistra
Nozzle line
(seen from cover)
R = right **L** = left
Duesenanschluss
(auf den Deckel gesehen)
R = rechts **L** = links
Refoulement gicleur:
(vue du couvercle)
R = droite **L** = gauche

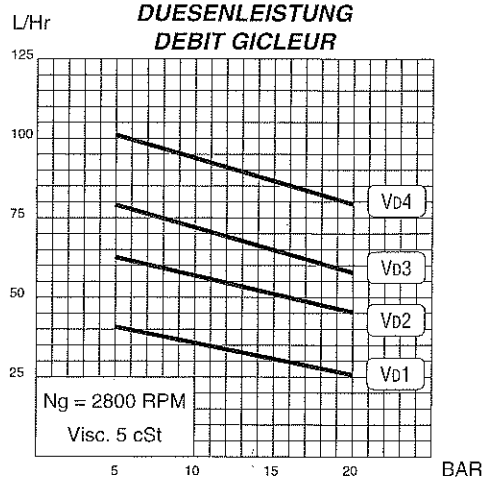
2 — Sistema tubazioni
1 = monotubo
2 = bitubo
Pipe system
1 = one pipe
2 = two pipes
Strang system
1 = einstrang
2 = zweistrang
Système de conduites
1 = monotube
2 = bitube

4 — Gamma pressioni
Pressure range
Druckbereich
Gamme pressions
3 = 2 ÷ 10 bar
4 = 4 ÷ 15 bar
5 = 8 ÷ 20 bar
6 = 10 ÷ 25 bar

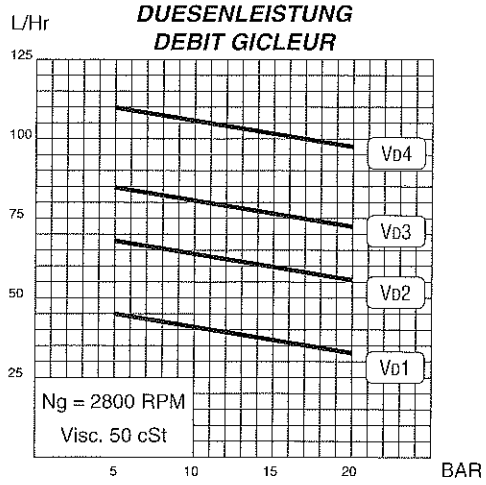
Esecuzioni particolari
2P: Presa pressione ausiliaria
U: Filtro 65 cm²
(solo VD1-VD2)
Special versions
2P: Auxiliary Pressure Port
U: 10.07 Sq. In. Filter
(VD1-VD2 only)
Spezielle Eigenschaften
2P: Zusaetzlicher Druck-Ausgang
U: 65 cm² Filter
nur fuer VD1-VD2
Exécutions particulières:
2P: Prise pression auxiliaire
U: Filtre 65 cm²
(seulement pour VD1 et VD2)

Connessioni idrauliche
1/4" G - 1/8" G
(1/8" G solo per VD1 - VD2)
Line connections
G 1/4" - G 1/8"
(1/8" G VD1 - VD2 only)
Leitungsanschluesse
G 1/4" - G 1/8"
(1/8" G nur VD1 - VD2)
Raccords hydrauliques
1/4" G - 1/8" G
(1/8" G soulement VD1 - VD2)

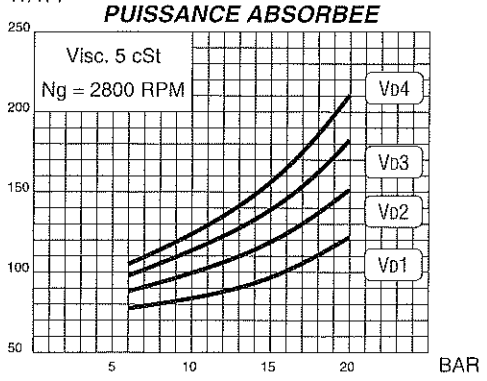
PORTATA UGELLO
NOZZLE CAPACITY
DUESENLEISTUNG
DEBIT GICLEUR



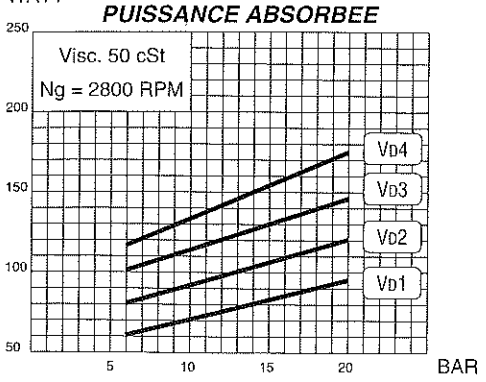
PORTATA UGELLO
NOZZLE CAPACITY
DUESENLEISTUNG
DEBIT GICLEUR



POTENZA ASSORBITA
POWER CONSUMPTION
KRAFTBEDARF
PUISSANCE ABSORBEE



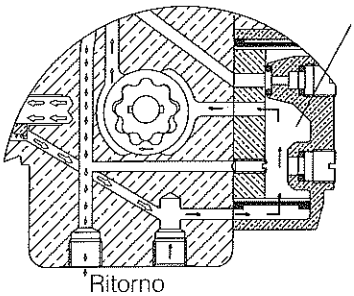
POTENZA ASSORBITA
POWER CONSUMPTION
KRAFTBEDARF
PUISSANCE ABSORBEE



DELTA PUMPS

DATI TECNICI	TECHNICAL DATA	TECHNISCHE DATEN	DONNEES TECHNIQUES
POMPE DELTA tipo «VD»	**DELTA PUMP model «VD»**	**DELTA PUMPEN Typ «VD»**	**POMPES DELTA type «VD»**
Viscosità olio 1,5 ÷ 50 cSt	**Oil Viscosity** 1,5 ÷ 50 cSt	**Oel Viskositaetbereich** 1,5 ÷ 50 cSt	**Viscosité de l'huile** 1,5 ÷ 50 cSt
Temperatura olio 50°C max	**Oil Temperature** 50°C (112°F) max	**Oeltemperatur** 50°C max	**Température de l'huile** 50°C max
Assorbimento potenza Vedere grafici	**Power Consumption** See graphics	**Kraftbedarf** Siehe Kurven	**Puissance absorbée** Voir schémas
Portata all'ugello Vedere grafici	**Nozzle Capacity** See graphics	**Duesenleistung** Siehe Kurven	**Débit du gicleur** Voir schémas
Gamma di pressione 2 ÷ 10 bar 4 ÷ 15 bar 8 ÷ 20 bar 10 ÷ 25 bar	**Adjustable Nozzle pressure ranges** 2 ÷ 10 bar (30 to 145 psi) 4 ÷ 15 bar (58 to 215 psi) 8 ÷ 20 bar (115 to 285 psi) 10 ÷ 25 bar (142 to 355 psi)	**Druckbereich** 2 ÷ 10 bar 4 ÷ 15 bar 8 ÷ 20 bar 10 ÷ 25 bar	**Gamme de pression** 2 ÷ 10 bars 4 ÷ 15 bars 8 ÷ 20 bars 10 ÷ 25 bars
Vuoto in aspirazione 0,5 bar max	**Suction Line Vacuum** 0,5 bar (14,8 in Hg) max	**Vakuum am Vorlauf** 0,5 bar max	**Vide en aspiration** 0,5 bar max
Pressione in aspirazione 0,7 bar max	**Suction Line Pressure** 0,7 bar (10 psi) max	**Druck am Vorlauf** 0,7 bar max	**Pression en aspiration** 0,7 bar max
Pressione in ritorno 1,5 bar max	**Return Line Pressure** 1,5 bar (21 psi) max	**Druck am Ruecklauf** 1,5 bar max	**Pression de retour** 1,5 bars max
Velocità di rotazione 3500 rpm max	**Rotation Speed** 3500 rpm max	**Drehzahl** 3500 U/min max	**Vitesse de rotation** 3500 t/min max
Filtro di serie Tela acc. inox 110µ 20 cm²	**Standard Strainer** Stainless steel wire cloth 110µ 20 cm² (3,1 Sq. In.)	**Standard Filter** Rostfrei Stahl Gewebe 110µ 20 cm²	**Filtres standard** Toile acier inox. 110µ 20 cm²
Montaggio Mozzo Ø 32, albero Ø 8 (DIN 24220) A richiesta: Flangia, Mozzo Ø 54, albero 7/16"	**Dimensions** Hub dia. 32, Shaft dia. 8 (DIN 24220) Optional: Flange, Hub dia. 54 , 7/16" Shaft	**Einbaumasse** Nabe Ø 32, Welle Ø 8 (DIN 24220) Auf Anfrage: Flansch, Nabe Ø 54, Welle 7/16"	**Montage** Moyeu Ø 32, arbre Ø 8 (DIN 24220) Sur demande: Bride, Moyeu Ø 54, arbre 7/16"
Connessioni idrauliche Aspirazione - Ritorno 1/4" G 1/8" G (1/8" G solo VD1, VD2) Mandata 1/8" G Manometro - Vacuometro 1/8" G	**Connections** Supply - Return Port: G 1/4" G 1/8" (G 1/8" only VD1, VD2) Nozzle G 1/8" Pressure - Vacuum Gauge G 1/8"	**Leitungsanschluesse** Vor und Ruecklauf G 1/4" G 1/8" (G 1/8" nur VD1, VD2) Duesenausgang G 1/8" Mano und Vakuummeter G 1/8"	**Raccords hydrauliques** Aspiration- Retour 1/4" G 1/8" G (1/8" G seulement VD1, VD2) Refoulement 1/8" G Manomètre - Vacuomètre 1/8" G
Momento di spunto VD1, VD2: 0,1 Nm max VD3, VD4: 0,18 Nm max	**Breakaway Torque** VD1, VD2: 0,1 Nm max VD3, VD4: 0,18 Nm max	**Anlaufmoment** VD1, VD2: 0,1 Nm max VD3, VD4: 0,18 Nm max	**Couple de démarrage** VD1, VD2: 0,1 Nm max VD3, VD4: 0,18 Nm max
Peso gr. 950	**Weight** gr. 950	**Gewicht** gr. 950	**Poids** gr. 950

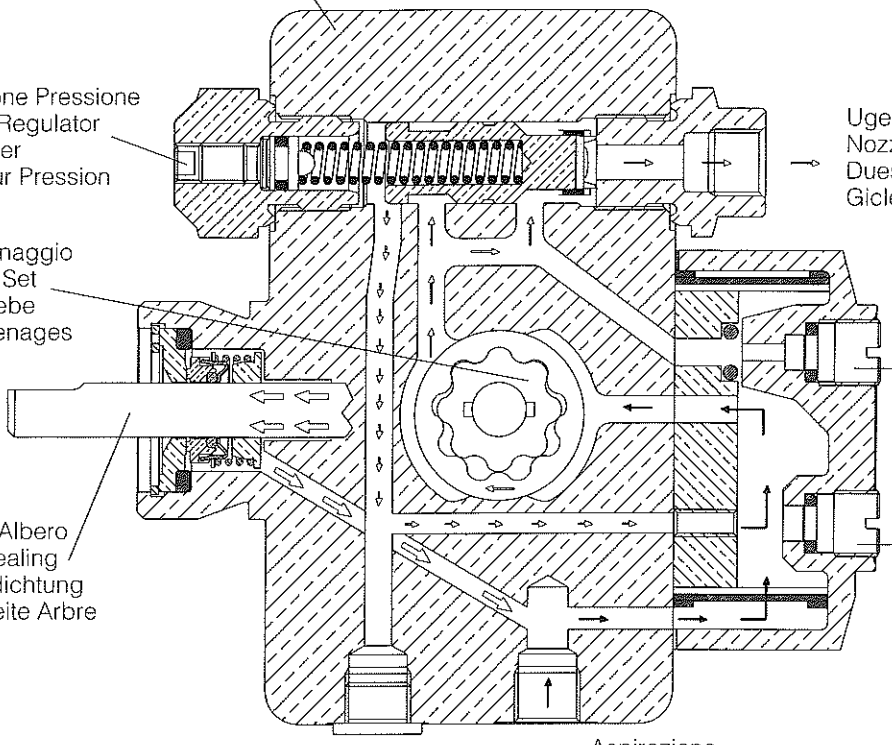
DELTA
PUMPS



Bitubo con Elettrovalvola
Two pipes with Solenoid Valve
Zweistrang mit Magnetventil
Bitube avec Electrovanne

Ritorno
Return
Ruecklauf
Retour
1/4"-1/8"G

Monotubo
One pipe
Einstrang
Monotube



Regolazione Pressione
Pressure Regulator
Druckregler
Regulateur Pression

Ugello
Nozzle
Duese
Gicleur

Ingranaggio
Gear Set
Getriebe
Engrenages

Manometro
Pressure Gauge
Manometer
Prise Mano
1/8"G

Tenuta Albero
Shaft Sealing
Wellendichtung
Etancheite Arbre

Vacuometro
Vacuum Gauge
Vakuummeter
Prise Vacuo
1/8"G

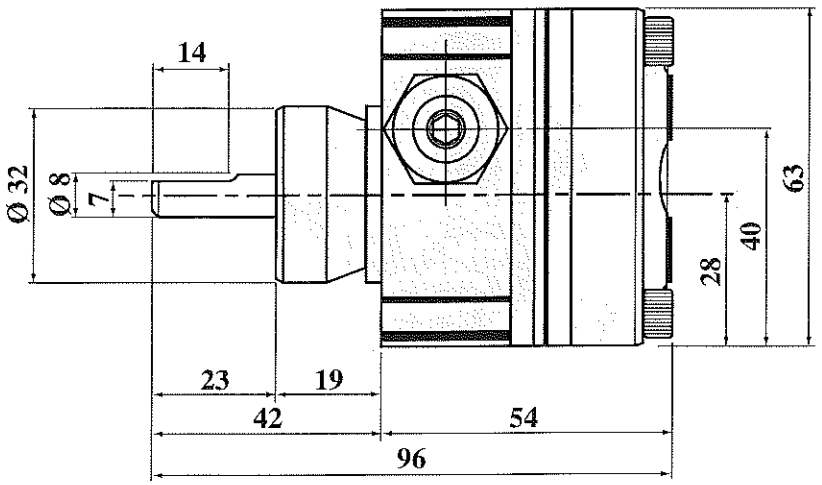
Aspirazione
Inlet
Ansaug
Aspiration
1/4"-1/8"G

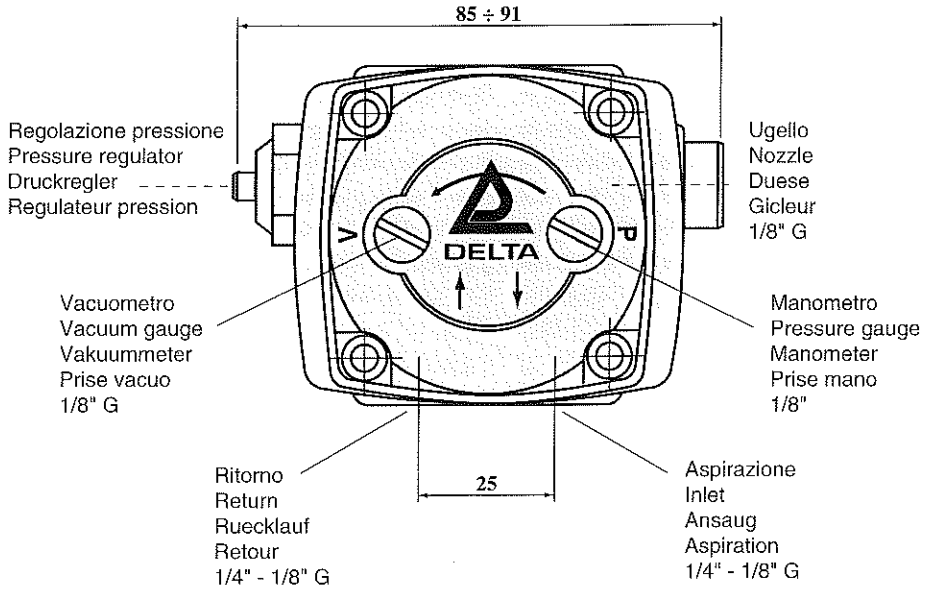
Lubrificazione
Lubrication
Schmierung
Lubrification

Ritorno
Return
Ruecklauf
Retour

Olio in aspirazione
Oil under suction
Oel unter vakuum
Huile en aspiration

Olio in pressione
Oil under pressure
Oel unter Druck
Huile sous pression


14
Ø 32
Ø 8
7
63
40
28
23
19
42
54
96


85 ÷ 91
Regolazione pressione
Pressure regulator
Druckregler
Regulateur pression
Ugello
Nozzle
Duese
Gicleur
1/8" G
DELTA
Vacuometro
Vacuum gauge
Vakuummeter
Prise vacuo
1/8" G
Manometro
Pressure gauge
Manometer
Prise mano
1/8"
Ritorno
Return
Ruecklauf
Retour
1/4" - 1/8" G
25
Aspirazione
Inlet
Ansaug
Aspiration
1/4" - 1/8" G

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