

# DENISON HYDRAULICS TB

vane-type single pump / Flügelzellen-Einzelpumpe  
pompe simple à palettes / pompa semplice a palette  
tipo bomba de paletas simple  
**service information**



Publ. S1 - ML0520 - B

02 / 2001 / FB

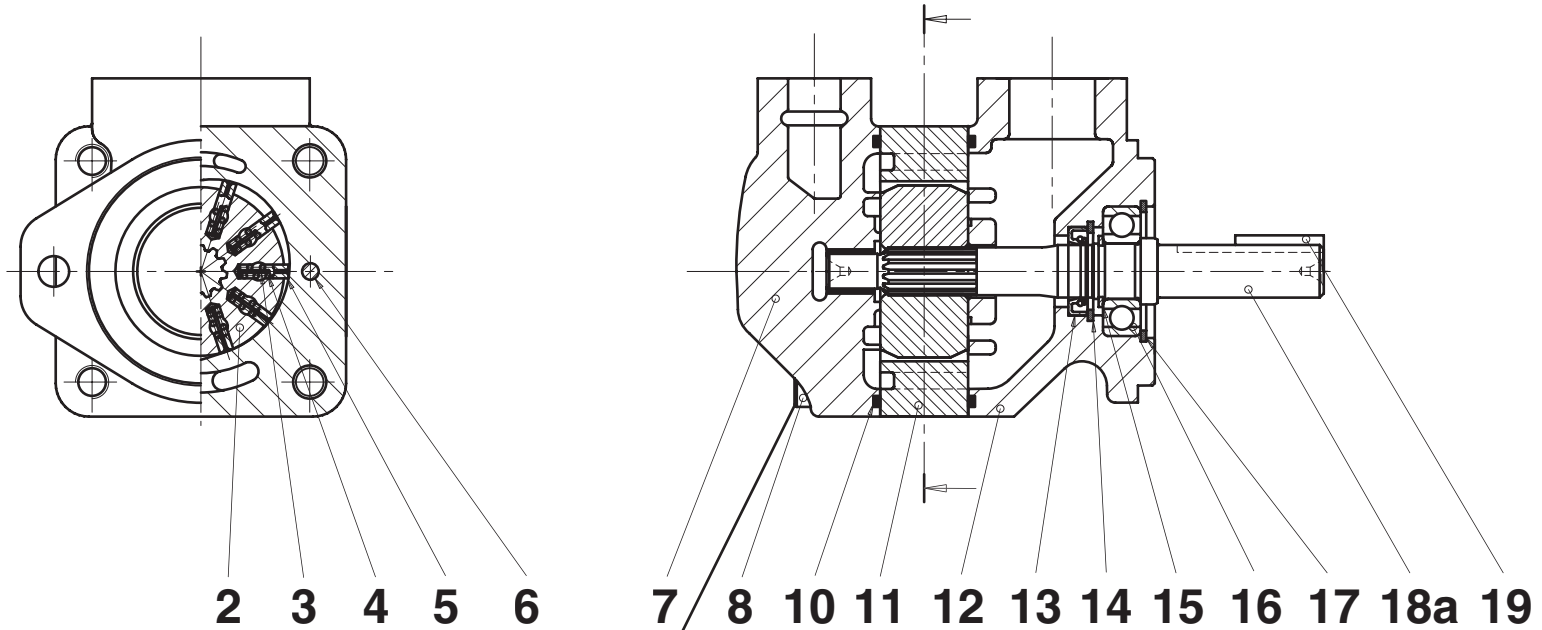
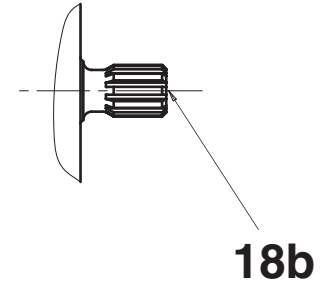
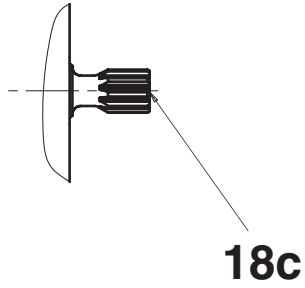
Replace : S1 - ML0520 - A

L25 - 10520 - 2

**DENISON** | **Hydraulics**

Recommended repair kits and assy's are bold printed  
 Empfohlene Austausch - Baugruppen sind fett gedruckt  
 Les pochettes de rechange recommandées sont imprimées en caractères gras  
 I kit di ricambio consigliati sono indicati in grassetto  
 Los juegos de reparacion recomendados y los conjuntos, estan en negrita

**TB**



Mounting torque : 110 N.m 81 ft.lbs  
 Anziehdrehmoment : 110 N.m 81 ft.lbs  
 Couple de serrage : 110 N.m 81 ft.lbs  
 Coppia di serraggio : 110 N.m 81 ft.lbs  
 Par de apriete : 110 N.m 81 ft.lbs

Item Pos. Ref. Pos. Pos.	Description <i>Descrizione</i>	Benennung <i>Descripcion</i>	Description		Part N° Teil Nr. Code N° Cod. N° Referencia	Qty Stück Qté Q.tà Cant.
2	Rotor insert ass'y <i>Insieme rotore</i>	Rotor <i>Conjunto rotor</i>	Rotor ass.	A	034.44872	1
3	Spring guide <i>Guida molla</i>	Federführung	Guide de ressort	A	034.44875	30
4	Spring vane <i>Molla</i>	Feder für Flügel <i>Muelle paleta</i>	Ressort de palette	A	034.44874	30
5	Vane <i>Paletta</i>	Flügel <i>Paleta</i>	Palette	A	034.44873	10
6	Dowel pin <i>Spina</i>	Zentrierstift <i>Pasador</i>	Goupille	A	324.21228	2
7	End cap ass'y (Flange 3/4" SAE) <i>Ins. coperchio (Flangia 3/4" SAE)</i>	Gehäuse baugruppe (Flansch 3/4" SAE) <i>Conjunto bocas (SAE 3/4")</i>	Chapeau arrière (bride 3/4" SAE)		S24.31214	1
	End cap ass'y (Port SAE 12) <i>Ins. coperchio (connessioni SAE 12)</i>	Gehäuse baugruppe (Anschlüsse SAE 12) <i>Conjunto bocas (bocas SAE 12)</i>	Chapeau arrière (orifice SAE 12)		S24.31215	1
8	Screw <i>Vite</i>	Schraube <i>Tornillo</i>	Vis		361.12304.3	4
10	Sq. section seal <i>Guarnizione</i>	Dichtring <i>Junta seccion cuadrada</i>	Joint section carrée	E	691.10153	2
11	Cam ring 003 <i>Anello camma 003</i>	Hubring 003 <i>Aro volumetrico 003</i>	Came 003	A	034.66825	1
	Cam ring 004 <i>Anello camma 004</i>	Hubring 004 <i>Aro volumetrico 004</i>	Came 004	A	034.66632	1
	Cam ring 005 <i>Anello camma 005</i>	Hubring 005 <i>Aro volumetrico 005</i>	Came 005	A	034.66820	1
	Cam ring 006 <i>Anello camma 006</i>	Hubring 006 <i>Aro volumetrico 006</i>	Came 006	A	034.66633	1
	Cam ring 008 <i>Anello camma 008</i>	Hubring 008 <i>Aro volumetrico 008</i>	Came 008	A	034.66642	1
	Cam ring 009 <i>Anello camma 009</i>	Hubring 009 <i>Aro volumetrico 009</i>	Came 009	A	034.66634	1
	Cam ring 011 <i>Anello camma 011</i>	Hubring 011 <i>Aro volumetrico 011</i>	Came 011	A	034.66643	1
	Cam ring 012 <i>Anello camma 012</i>	Hubring 012 <i>Aro volumetrico 012</i>	Came 012	A	034.66635	1
12	Mounting cap (Flange 1"1/4 SAE) <i>Coperchio (flangia 1"1/4 SAE)</i>	Deckel (Flansch 1"1/4 SAE) <i>Tapa de montaje (SAE 1"1/4)</i>	Chapeau de montage (bride 1"1/4 SAE)		034.66628	1
	Mounting cap (Port SAE 20) <i>Coperchio (connessioni SAE 20)</i>	Deckel (Anschlüsse SAE 20) <i>Tapa de montaje (bocas SAE 20)</i>	Chapeau de montage (orifice SAE 20)		034.66629	1
	Mounting cap (Port 1"1/4 NPTF) <i>Coperchio (connessioni 1"1/4 NPTF)</i>	Deckel (Anschlüsse 1"1/4 NPTF) <i>Tapa de montaje (bocas 1"1/4 NPTF)</i>	Chapeau de montage (orifice 1"1/4 NPTF)		034.66637	1
13	Shaft seal (S1 - 0,7 bar) <i>Paraolio (S1 - 0,7 bar)</i>	Simmerring (S1 - 0,7 bar) <i>Retén eje (S1 - 0,7 bar)</i>	Joint d'arbre (S1 - 0,7 bar)	E	620.00017.3	1
	Shaft seal (S5 - 0,7 bar) <i>Paraolio (S5 - 0,7 bar)</i>	Simmerring (S5 - 0,7 bar) <i>Retén eje (S5 - 0,7 bar)</i>	Joint d'arbre (S5 - 0,7 bar)	E	620.00021.3	1

Item Pos. Ref. Pos.	Description <i>Descrizione</i>	Benennung <i>Descripcion</i>	Description		Part N° Teil Nr. Code N° Cod. N° Referencia	Qty Stück Qté Q.tà Cant.
14	Retaining ring <i>Anello elastico</i>	Sicherungsring <i>Aro retencion</i>	Circlips		356.30125	1
15	Retaining ring <i>Anello elastico</i>	Sicherungsring <i>Aro retencion</i>	Circlips	BCD	356.31078	1
16	Ball bearing <i>Cuscinetto a sfere</i>	Kugellager <i>Cojinete de bolas</i>	Roulement à billes	BCD	230.82149	1
17	Retaining ring <i>Anello elastico</i>	Sicherungsring <i>Aro retencion</i>	Circlips		356.30185	1
18a	Shaft keyed (code 1) <i>Albero a chiavetta (codice 1)</i>	Paßdederwelle (Typ 1) <i>Eje chaveteado (codigo 1)</i>	Arbre à clavette (code 1)	B	034.66636	1
18b	Shaft splined (code 3) (special) <i>Albero a scanalato (codice 3) (special)</i>	Vielkeilwelle (Typ 3) (special) <i>Eje estriado (codigo 3) (special)</i>	Arbre à cannelures (code 3) (special)	C	034.66640	1
18c	Shaft splined (code 4) <i>Albero a scanalato (codice 4)</i>	Vielkeilwelle (Typ 4) <i>Eje estriado (codigo 4)</i>	Arbre à cannelures (code 4)	D	034.66693	1
19	Key (code 1) <i>Chiavetta (codice 1)</i>	Paßfeder (Typ 1) <i>Chaveta (codigo1)</i>	Clavette (code 1)	B	034.49622	1
	<b>REPAIR KIT KIT DI RICAMBIO</b>	<b>AUSTAUSCH-BAUGRUPPEN CONJUNTO REPARACION</b>	<b>POCHETTES RECHANGES</b>			
A	<b>Kit 003 Cartuccia 003</b>	<b>Pumpeneinsatz 003 Juego 003</b>	<b>Cartouche 003</b>		S24.45608	1
A	<b>Kit 004 Cartuccia 004</b>	<b>Pumpeneinsatz 004 Juego 004</b>	<b>Cartouche 004</b>		S24.31219	1
A	<b>Kit 005 Cartuccia 005</b>	<b>Pumpeneinsatz 005 Juego 005</b>	<b>Cartouche 005</b>		S24.45096	1
A	<b>Kit 006 Cartuccia 006</b>	<b>Pumpeneinsatz 006 Juego 006</b>	<b>Cartouche 006</b>		S24.31220	1
A	<b>Kit 008 Cartuccia 008</b>	<b>Pumpeneinsatz 008 Juego 008</b>	<b>Cartouche 008</b>		S24.31385	1
A	<b>Kit 009 Cartuccia 009</b>	<b>Pumpeneinsatz 009 Juego 009</b>	<b>Cartouche 009</b>		S24.31221	1
A	<b>Kit 011 Cartuccia 011</b>	<b>Pumpeneinsatz 011 Juego 011</b>	<b>Cartouche 011</b>		S24.31386	1
A	<b>Kit 012 Cartuccia 012</b>	<b>Pumpeneinsatz 012 Juego 012</b>	<b>Cartouche 012</b>		S24.31222	1
B	<b>Shaft and key ass'y (code 1) Ins. albero (codice 1)</b>	<b>Baugruppe (Welle mit Paßfeder) (Typ 1) Conjunto eje chaveta (codigo 1)</b>	<b>Arbre et clavette ass. (code 1)</b>		S24.31223	1
C	<b>Shaft and bearing ass'y (code 3) Ins. albero (codice 3)</b>	<b>Baugruppe (Welle u. Lager) (Typ 3) Conjunto eje cojinete (codigo 3)</b>	<b>Arbre et roulement ass. (code 3)</b>		S24.31382	1
D	<b>Shaft and bearing ass'y (code 4) Ins. albero (codice 4)</b>	<b>Baugruppe (Welle u. Lager) (Typ 4) Conjunto eje cojinete (codigo 4)</b>	<b>Arbre et roulement ass. (code 4)</b>		S24.33566	1
E	<b>Seal kit (S1 - 0,7 bar) Serie guarnizioni (S1 - 0,7 bar)</b>	<b>Dichtringsatz (S1 - 0,7 bar) Juego de juntas (S1 - 0,7 bar)</b>	<b>Pochette de joints (S1 - 0,7 bar)</b>		S24.31234.0	1
E	<b>Seal kit (S5 - 0,7 bar) Serie guarnizioni (S5 - 0,7 bar)</b>	<b>Dichtringsatz (S5 - 0,7 bar) Juego de juntas (S5 - 0,7 bar)</b>	<b>Pochette de joints (S5 - 0,7 bar)</b>		S24.31234.5	1

## Model Code

Model number :

Series \_\_\_\_\_

Cam ring \_\_\_\_\_

(Volumetric displacement) (ml/rev.)

003 = 8,8  
004 = 12,8  
005 = 16,0  
006 = 20,7  
008 = 26,1  
009 = 31,5  
011 = 35,6  
012 = 39,7

Type of shaft \_\_\_\_\_

1 = keyed (non SAE)  
3 = splined (special)  
4 = splined (SAE A)

Direction of rotation \_\_\_\_\_

R = Clockwise  
L = Counter-clockwise

Porting combination \_\_\_\_\_

00 = standard

Design letter \_\_\_\_\_

Seal class \_\_\_\_\_

1 = S1 - BUNA N  
5 = S5 - VITON

Port connections \_\_\_\_\_

00 = S = 1"5/8 (SAE 20)  
P = 1"1/16 (SAE 12)  
01 = S = 1"1/4 } SAE J518c (61)  
P = 3/4" } ISO 6162 (1)  
03 = S = 1"1/4 (NPTF)  
P = 1"1/16 (SAE 12) } **Standard**  
**Metric thread**  
M1 = S = 1"1/4 SAE J518c (61)  
P = 3/4" ISO 6162 (1)

OX = S = 1"1/4" (NPTF)  
P = 3/4" (NPTF)  
OW = S = 1"1/4 (SAE J518 c)  
P = 1"1/16 (SAE 12) } **Special**

Modifications \_\_\_\_\_

## Typenschlüssel

Typenbezeichnung :

Baureihe \_\_\_\_\_

Hubring \_\_\_\_\_

(Geometrisches Fördervolumen) (cm<sup>3</sup>/U)

003 = 8,8  
004 = 12,8  
005 = 16,0  
006 = 20,7  
008 = 26,1  
009 = 31,5  
011 = 35,6  
012 = 39,7

Art der Welle \_\_\_\_\_

1 = Paßfederwelle (nicht SAE)  
3 = Vielkeilwelle (special)  
4 = Vielkeilwelle (SAE A)

Drehrichtung \_\_\_\_\_

R = Rechtslauf  
L = Linkslauf

Lage der Anschlüsse \_\_\_\_\_

00 = standard

Ausführungsbuchstabe \_\_\_\_\_

Dichtungsklasse \_\_\_\_\_

1 = S1 - BUNA N  
5 = S5 - VITON

Anschlüsse \_\_\_\_\_

00 = S = 1"5/8 (SAE 20)  
P = 1"1/16 (SAE 12)  
01 = S = 1"1/4 } SAE J518c (61)  
P = 3/4" } ISO 6162 (1)  
03 = S = 1"1/4 (NPTF)  
P = 1"1/16 (SAE 12) } **Standard**  
**Metric thread**  
M1 = S = 1"1/4 SAE J518c (61)  
P = 3/4" ISO 6162 (1)

OX = S = 1"1/4" (NPTF)  
P = 3/4" (NPTF)  
OW = S = 1"1/4 (SAE J518 c)  
P = 1"1/16 (SAE 12) } **Special**

Modifikationen \_\_\_\_\_

## Designation - type

Numéro du modèle :

Série \_\_\_\_\_

Camé \_\_\_\_\_

(Cylindrée théorique) (cm<sup>3</sup>/tr)

003 = 8,8  
004 = 12,8  
005 = 16,0  
006 = 20,7  
008 = 26,1  
009 = 31,5  
011 = 35,6  
012 = 39,7

Type d'arbre \_\_\_\_\_

1 = à clavette (non SAE)  
3 = à cannelures (special)  
4 = à cannelures (SAE A)

Sens de rotation \_\_\_\_\_

R = à droite  
L = à gauche

Combinaison des orifices \_\_\_\_\_

00 = standard

Conception \_\_\_\_\_

Classe de joint \_\_\_\_\_

1 = S1 - BUNA N  
5 = S5 - VITON

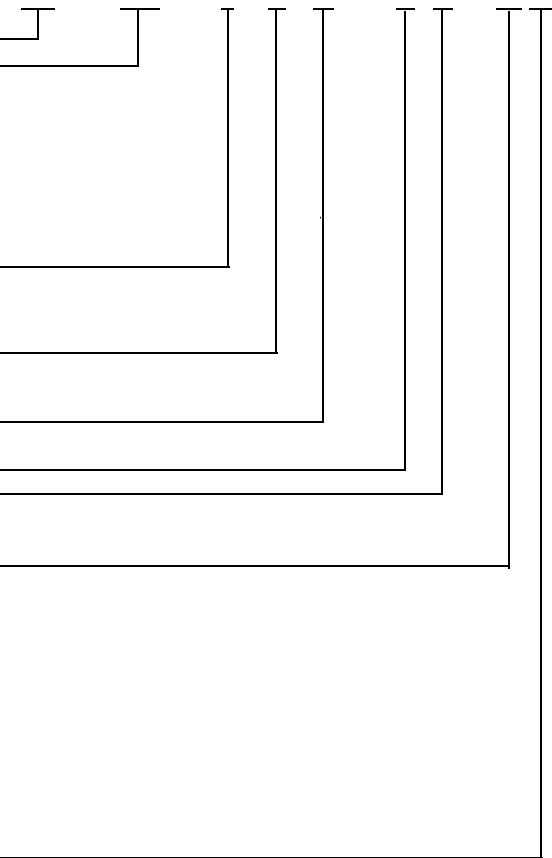
Orifices \_\_\_\_\_

00 = S = 1"5/8 (SAE 20)  
P = 1"1/16 (SAE 12)  
01 = S = 1"1/4 } SAE J518c (61)  
P = 3/4" } ISO 6162 (1)  
03 = S = 1"1/4 (NPTF)  
P = 1"1/16 (SAE 12) } **Standard**  
**Metric thread**  
M1 = S = 1"1/4 SAE J518c (61)  
P = 3/4" ISO 6162 (1)

OX = S = 1"1/4" (NPTF)  
P = 3/4" (NPTF)  
OW = S = 1"1/4 (SAE J518 c)  
P = 1"1/16 (SAE 12) } **Special**

Modifications \_\_\_\_\_

TB - 006 - 1 R 00 - A 1 - 00 ..



## Designazione

## Clave de designación

Sigla :

Referencia modelo :

TB - 006 - 1 R 00 - A 1 - 00 ..

Serie \_\_\_\_\_

Serie \_\_\_\_\_

Tipo di cartuccia \_\_\_\_\_

Aro volumetrico \_\_\_\_\_

(Cilindrata) (ml/giro)

(Cilindrada) (ml/rev)

003 = 8,8  
004 = 12,8  
005 = 16,0  
006 = 20,7  
008 = 26,1  
009 = 31,5  
011 = 35,6  
012 = 39,7

003 = 8,8  
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008 = 26,1  
009 = 31,5  
011 = 35,6  
012 = 39,7

Tipo di albero \_\_\_\_\_

Tipo de eje \_\_\_\_\_

1 = a chiave (no SAE)  
3 = scanalato (special)  
4 = scanalato (SAE A)

1 = chaveteado (no SAE)  
3 = estriado (special)  
4 = estriado (SAE A)

Senso di rotazione \_\_\_\_\_

Sentido de giro \_\_\_\_\_

R =orario  
L = Antiorario

R = Derecha  
L = Izquierda

Orientamento delle bocche \_\_\_\_\_

Posición de bocas \_\_\_\_\_

00 = standard

00 = estándar

Disegno \_\_\_\_\_

Letra de diseño \_\_\_\_\_

Tipo di guarnizioni \_\_\_\_\_

Clase de juntas \_\_\_\_\_

1 = S1 - BUNA N  
5 = S5 - VITON

1 = S1 - BUNA N  
5 = S5 - VITON

Dimensioni delle bocche \_\_\_\_\_

Opciones de las bocas \_\_\_\_\_

00 = S = 1"5/8 (SAE 20)  
P = 1"1/16 (SAE 12)  
01 = S = 1"1/4 } SAE J518c (61)  
P = 3/4" } ISO 6162 (1) } Standard  
03 = S = 1"1/4 (NPTF)  
P = 1"1/16 (SAE 12)  
Metric thread  
M1 = S = 1"1/4 SAE J518c (61)  
P = 3/4" ISO 6162 (1)

00 = S = 1"5/8 (SAE 20)  
P = 1"1/16 (SAE 12)  
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Metric thread  
M1 = S = 1"1/4 SAE J518c (61)  
P = 3/4" ISO 6162 (1)

OX = S = 1"1/4" (NPTF)  
P = 3/4" (NPTF)  
OW = S = 1"1/4 (SAE J518 c)  
P = 1"1/16 (SAE 12) } Special

OX = S = 1"1/4" (NPTF)  
P = 3/4" (NPTF)  
OW = S = 1"1/4 (SAE J518 c)  
P = 1"1/16 (SAE 12) } Special

Modifiche \_\_\_\_\_

Modificaciones \_\_\_\_\_