

Hydraulic Motors - Service Information M4D / M4SD / M4D1 / M4SD1

Denison Vane - Flügelzellen - Palettes - Palette - Paletas

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

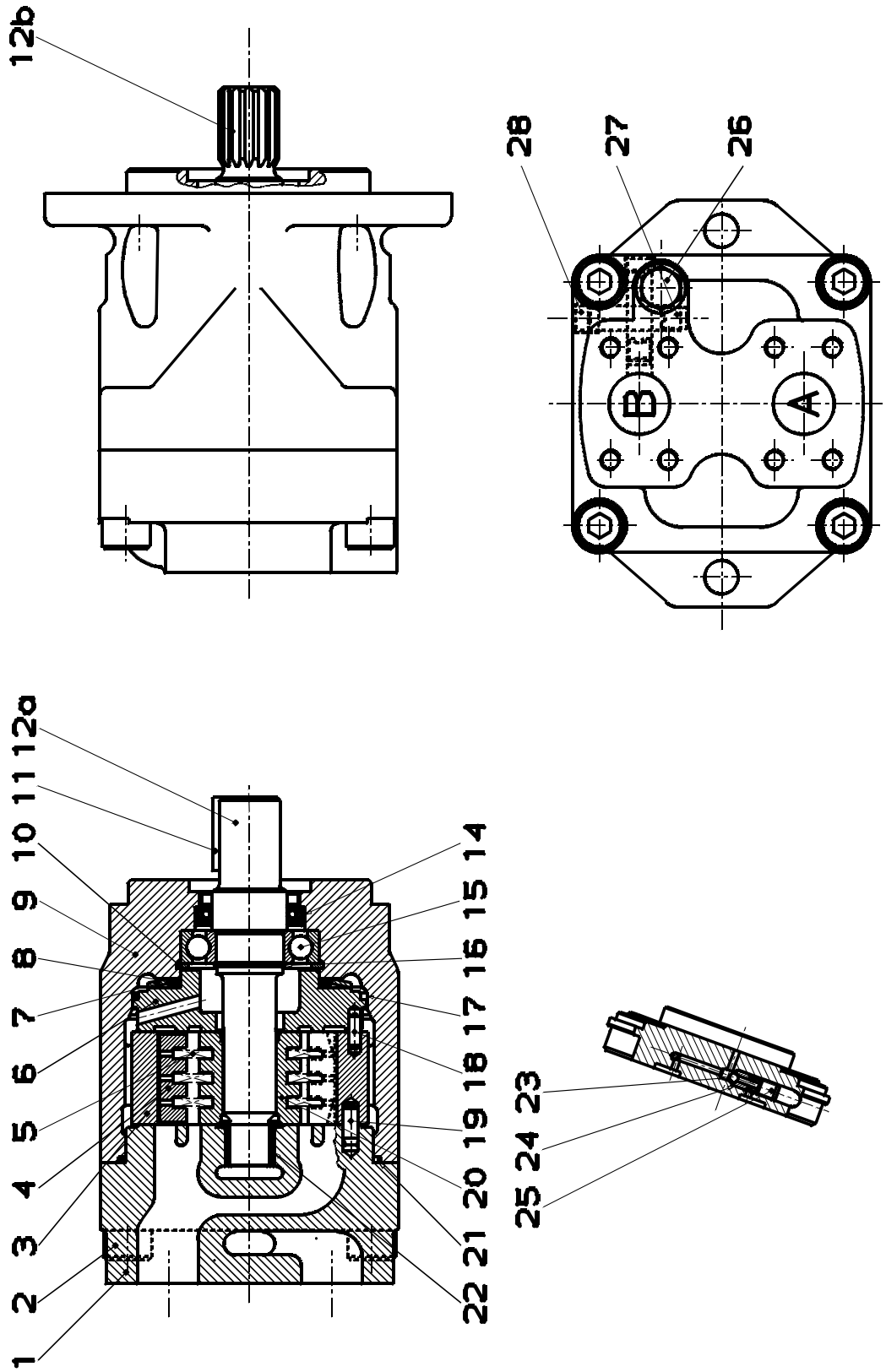


ENGINEERING YOUR SUCCESS.

M4D - M4D1
M4SD - M4SD1

Item - Pos. - Réf. - Pos.	25
2	11,5 to 12,6 N.m 8,5 to 9,3 ft.lbs
Mounting torque	210 N.m 155 ft.lbs
Anziehdrehmoment	
Couple de serrage	
Coppia di serraggio	
Par de apriete	

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



Spare part list

Hydraulic Motors

Series M4D, Denison Vane Motors

Item Part Ref. Pos. Pos.	Description Descrizione	Benennung Description	Description	Part N° Teil Nr. Code N° Cod. N° Referencia M4D - M4D1	Part N° Teil Nr. Code N° Cod. N° Referencia M4SD1	Qty. Stock Qté Qtà Cant.
1	End cap 4-bolts UNC (SAE drain) (M4D - M4SD)	Deckel UNC Flansch (SAE Leckölänschluß) (M4D - M4SD)	Chapeau 4 trous UNC (drain SAE) (M4D - M4SD)	034-59694-0	034-59694-0	1
	Coperchio UNC 4 fori (drenaggio SAE) (M4D - M4SD)	Tapas UNC 4 agujeros (drenaje SAE) (M4D - M4SD)				
	End cap SAE thd. port (SAE drain) (M4D - M4SD)	Deckel SAE Gewinde (SAE Leckölänschluß) (M4D - M4SD)	Chapeau orifices taraudés SAE (drain SAE) (M4D - M4SD)	034-59695-0	034-59695-0	1
	Coperchio filettature SAE (drenaggio SAE) (M4D - M4SD)	Tapas rosca SAE (drenaje SAE) (M4D - M4SD)				
	End cap 4-bolts UNC (BSPP drain) (M4D - M4SD)	Deckel UNC Flansch (R Leckölänschluß) (M4D - M4SD)	Chapeau 4 trous UNC (drain BSPP) (M4D - M4SD)	034-66470-0	034-66470-0	1
	Coperchio UNC 4 fori (drenaggio BSP) (M4D - M4SD)	Tapas UNC 4 agujeros (drenaje BSP) (M4D - M4SD)				
	End cap 4-bolts Metric (BSPP drain) (M4D - M4SD)	Deckel Metrisch Flansch (R Leckölänschluß) (M4D - M4SD)	Chapeau 4 trous métriques (drain BSPP) (M4D - M4SD)	034-67013-0	034-67013-0	1
	Coperchio metrica 4 fori (drenaggio BSP) (M4D - M4SD)	Tapas métrica 4 agujeros (drenaje BSP) (M4D - M4SD)				
	End cap 4-bolts UNC (SAE drain) (M4D1 - M4SD1)	Deckel UNC Flansch (SAE Leckölänschluß) (M4D1 - M4SD1)	Chapeau 4 trous UNC (drain SAE) (M4D1 - M4SD1)	034-59696-0	034-59696-0	1
	Coperchio UNC 4 fori (drenaggio SAE) (M4D1 - M4SD1)	Tapas UNC 4 agujeros (drenaje SAE) (M4D1 - M4SD1)				
End cap thd. SAE port (SAE drain) (M4D1 - M4SD1)	Deckel SAE Gewinde (SAE Leckölänschluß) (M4D1 - M4SD1)	Chapeau orifices taraudés SAE (drain SAE) (M4D1 - M4SD1)	034-59697-0	034-59697-0	1	
Coperchio filettature SAE (drenaggio SAE) (M4D1 - M4SD1)	Tapas rosca SAE (drenaje SAE) (M4D1 - M4SD1)					
2	Screw Vite	Schraube Tomillo	Vis	358-24300-0	358-24300-0	4
	Cam ring 062 Anello camma 062	Hubring 062 Aro volumetrico 062	Came 062	034-59680-0	034-59687-0	1
3	Cam ring 074 Anello camma 074	Hubring 074 Aro volumetrico 074	Came 074	034-59681-0	034-59688-0	1
	Cam ring 088 Anello camma 088	Hubring 088 Aro volumetrico 088	Came 088	034-59682-0	034-59689-0	1
	Cam ring 102 Anello camma 102	Hubring 102 Aro volumetrico 102	Came 102	034-59683-0	034-59690-0	1
	Cam ring 113 Anello camma 113	Hubring 113 Aro volumetrico 113	Came 113	034-59684-0	034-59691-0	1
	Cam ring 128 Anello camma 128	Hubring 128 Aro volumetrico 128	Came 128	034-59685-0	034-59692-0	1
	Cam ring 138 Anello camma 138	Hubring 138 Aro volumetrico 138	Came 138	034-59686-0	034-59693-0	1
	Vane Paletta	Flügel Paleta	Palette	034-49746-0	034-49746-0	10
	Spring vane Molla	Feder für Flügel Muelle paleta	Ressort de palette	034-49743-0	034-49743-0	30
	Port plate pressure Piatto distributore anter.	Steuerplatte Plato de presion	Plaque pression	034-59852-0	034-59852-0	1
	Belleville washer Rondella	Scheibe Arandela de seguridad	Rondelle éventail	034-59843-0	034-59843-0	1
Sq. section seal Guarnizione	Dichtung Junta seccion cuadrada	Joint section carrée	691-10335-0	695-20335-0	1	
Housing Corpo	Gehäuse Cuerpo	Carter	034-49756-0	034-49756-0	1	
Retaining ring Anello elastico	Sicherungsring Aro retencion	Circlips	356-32283-0	356-32283-0	1	

Spare part list

Hydraulic Motors

Series M4D, Denison Vane Motors

Item Ref. Pos. Pos.	Description Descrizione	Benennung Description	Description	Part N° Teil Nr. Code N° Cod. N° Referencia M4D - M4SD1	Part N° Teil Nr. Code N° Cod. N° Referencia M4SD - M4SD1	Qty Stück Qté Qtá Cant.	
11	Key (code 1) Chiavetta (codice 1)	Paßfeder (Typ 1) Chaveta (codigo 1)	Clavette (code 1)	B	034-49676-0	034-49676-0	1
12a	Shaft (keyed) (code 1) Albero a chiavetta (codice 1)	Paßfedernwelle (Typ 1) Eje chaveteado (codigo 1)	Arbre à clavette (code 1)	B	034-70982-0	034-70982-0	1
12b	Shaft (splined) (code 3) Albero scanalato (codice 3)	Vielkeilwelle (Typ 3) Eje estrado (codigo 3)	Arbre à cannelures (code 3)	C	034-70983-0	034-70983-0	1
14	Shaft seal Paraolio	Simmering Retén eje	Joint d'arbre	DE	637-00003-0	637-00003-0	1
15	Ball bearing Cuscinetto a sfera	Kugellager Cojinete de bolas	Roulement à billes	BC	230-00207-0	230-00207-0	1
16	Round section ring Anello elastico	Sicherungsring Anillo torico	Anneau	BC	034-70853-0	034-70853-0	1
17	O-ring Guarnizione torica	Runddichtung Anillo torico	Joint torique	DE	691-00246-0	695-00246-0	1
18	Dowel pin Spina	Fixierstift Pasador	Goupille		324-21612-0	324-21612-0	1
19	Dowel pin Spina	Fixierstift Pasador	Goupille		324-22414-0	324-22414-0	1
20	Rotor Rotore	Rotor Rotor	Rotor	A	034-49747-0	034-49747-0	1
21	Sq. section seal Guarnizione	Dichting Junta seccion cuadrada	Joint seccion carrée	DE	605-10001-3	605-10501-3	1
22	Needle bearing Cuscinetto a rulli	Nadellager Cojinete de agujas	Roulement à aiguilles	G	230-82002-0	230-82002-0	1
23	Ball Sfera	Kugel Bola	Bille d'acier	F	201-06001-0	201-06001-0	1
24	Adaptor valve Adattatore	Kugel ventill Valvula adaptadora	Adaptateur valve	F	034-53346-0	034-53346-0	1
25	Screw Vite	Schraube Tornillo	Vis	F	312-35056-0	312-35056-0	1
26	Plug (M4D1 - M4SD1) Tappo (M4D1 - M4SD1)	Stopfen (M4D1 - M4SD1) Tapon (M4D1 - M4SD1)	Bouchon (M4D1 - M4SD1)	G	488-35022-0	488-35022-0	1
27	Check valve (M4D1 - M4SD1) Valvola di ritengo (M4D1 - M4SD1)	Rückschlagventil (M4D1 - M4SD1) Valvula de retención (M4D1 - M4SD1)	Clapet (M4D1 - M4SD1)	G	S14-01257-0	S14-01257-0	2
28	Plug (M4D1 - M4SD1) Tappo (M4D1 - M4SD1)	Stopfen (M4D1 - M4SD1) Tapon (M4D1 - M4SD1)	Bouchon (M4D1 - M4SD1)	G	431-90600-0	431-90600-0	2
	REPAIR KIT KIT DI RICAMBIO	AUSTAUSCH-BAUGRUPPEN CONJUNTO REPARACION	POCHETTES RECHANGES				
A	Kit 062 Cartuccia 062	Pumpeneinsatz 062 Juego 062	Cartouche 062		S24-10620-0	S24-10627-0	1
A	Kit 074 Cartuccia 074	Pumpeneinsatz 074 Juego 074	Cartouche 074		S24-10621-0	S24-10628-0	1

Spare part list

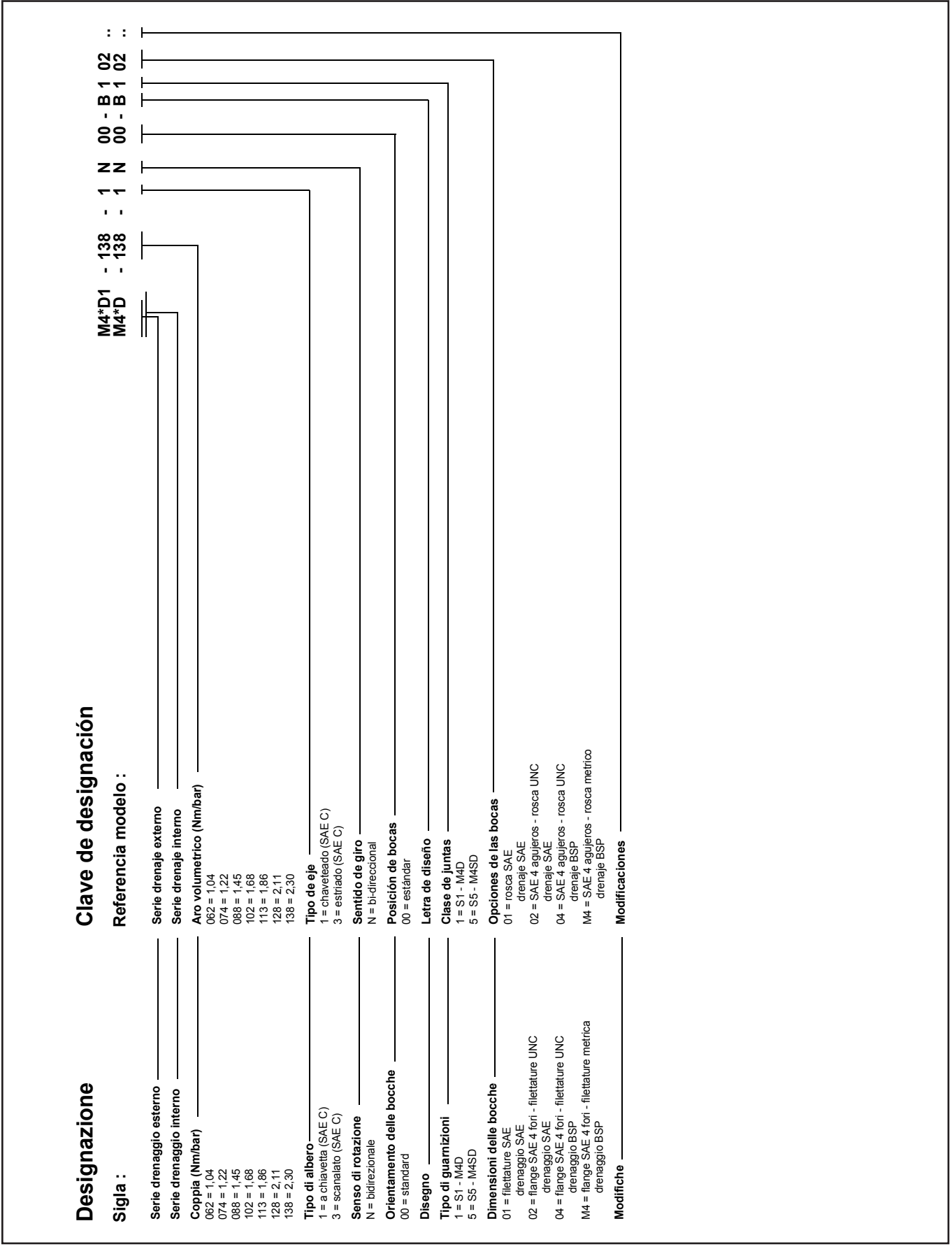
Hydraulic Motors

Series M4D, Denison Vane Motors

Item Pos. Ref. Pos.	Description Descrizione	Benennung Description	Description	Part N° Teil Nr. Code N° Cod. N° Referencia M4D - M4D1	Part N° Teil Nr. Code N° Cod. N° Referencia M4SD - M4SD1	Qty. Stück Qté Qtá Cant.
A	Kit 088 Cartuccia 088	Pumpeneinsatz 088 Juego 088	Cartouche 088	S24-10622-0	S24-10629-0	1
A	Kit 102 Cartuccia 102	Pumpeneinsatz 102 Juego 102	Cartouche 102	S24-10623-0	S24-10630-0	1
A	Kit 113 Cartuccia 113	Pumpeneinsatz 113 Juego 113	Cartouche 113	S24-10624-0	S24-10631-0	1
A	Kit 128 Cartuccia 128	Pumpeneinsatz 128 Juego 128	Cartouche 128	S24-10625-0	S24-10632-0	1
A	Kit 138 Cartuccia 138	Pumpeneinsatz 138 Juego 138	Cartouche 138	S24-10626-0	S24-10633-0	1
B	Shaft and bearing ass'y (code 1) Ins. albero (codice 1)	Baugruppe (Welle u. Lager) (Typ 1) Conjunto eje (codigo 1)	Arbre à clavette et roulement ass. (code 1)	S14-26720-0	S14-26720-0	1
C	Shaft and bearing ass'y (code 3) Ins. albero (codice 3)	Baugruppe (Welle u. Lager) (Typ 3) Conjunto eje (codigo 3)	Arbre à cannelures et roulement ass. (code 3)	S14-26721-0	S14-26721-0	1
D	Seal kit (S1) (M4D - M4D1) Serie guarnizioni (S1) (M4D - M4D1)	Dichtungsatz (S1) (M4D - M4D1) Juego de juntas (S1) (M4D - M4D1)	Pochette de joints (S1) (M4D - M4D1)	S24-10916-0		1
E	Seal kit (S5) (M4SD - M4SD1) Serie guarnizioni (S5) (M4SD - M4SD1)	Dichtungsatz (S5) (M4SD - M4SD1) Juego de juntas (S5) (M4SD - M4SD1)	Pochette de joints (S5) (M4SD - M4SD1)	S24-10916-5		1
F	Port plate-pressure ass'y Ins. piatto distributore anter.	Steuerplatte Conjunto plato dist.	Plaque pression ass.	S24-10905-0	S24-10905-0	1
	End cap ass'y Ins. coperchio	Gehäuse baugruppe Conjunto tapa	Chapeau arrière ass.			
	4-bolts UNC (SAE drain) (M4D - M4SD) UNC 4 fori (drenaggio SAE) (M4D - M4SD)	UNC Flansch (SAE Leckölschluß) (M4D - M4SD) UNC 4 agujeros (drenaje SAE) (M4D - M4SD)	4 trous UNC (drain SAE) (M4D - M4SD)	S24-10616-0	S24-10616-0	1
	SAE thd. port (SAE drain) (M4D - M4SD) Filettature SAE (drenaggio SAE) (M4D - M4SD)	SAE Gewinde (SAE Leckölschluß) (M4D - M4SD) Rosca SAE (drenaje SAE) (M4D - M4SD)	Orifices taraudé SAE (drain SAE) (M4D - M4SD)	S24-10617-0	S24-10617-0	1
G	4-bolts UNC (BSPP drain) (M4D - M4SD) UNC 4 fori (drenaggio BSP) (M4D - M4SD)	UNC Flansch (R Leckölschluß) (M4D - M4SD) UNC 4 agujeros (drenaje BSP) (M4D - M4SD)	4 trous UNC (drain BSPP) (M4D - M4SD)	S14-97570-0	S14-97570-0	1
	4-bolts Metric (BSPP drain) (M4D - M4SD) Metrica 4 fori (drenaggio BSP) (M4D - M4SD)	Metric Flansch (R Leckölschluß) (M4D - M4SD) Metrico 4 agujeros (drenaje BSP) (M4D - M4SD)	4 trous métriques (drain BSPP) (M4D - M4SD)	S24-58456-0	S24-58456-0	1
	4-bolts UNC (SAE drain) (M4D1 - M4SD1) UNC 4 fori (drenaggio SAE) (M4D1 - M4SD1)	UNC Flansch (SAE Leckölschluß) (M4D1 - M4SD1) UNC 4 agujeros (drenaje SAE) (M4D1 - M4SD1)	4 trous UNC (drain SAE) (M4D1 - M4SD1)	S24-10619-0	S24-10619-0	1
	SAE thd. port (SAE drain) (M4D1 - M4SD1) Filettature SAE (drenaggio SAE) (M4D1 - M4SD1)	SAE Gewinde (SAE Leckölschluß) (M4D1 - M4SD1) Rosca SAE (drenaje SAE) (M4D1 - M4SD1)	Orifices taraudé SAE (drain SAE) (M4D1 - M4SD1)	S24-10618-0	S24-10618-0	1

Model Code	Typenschlüssel	Designation - type
Model number :	Typenbezeichnung :	Numéro du modèle :
Series external drain	Baureihe externer Leckölanschluß	Série drain externe
Series internal drain	Baureihe interner Leckölanschluß	Série drain interne
Torque (Nm/bar)	Drehmoment (Nm/bar)	Couple (Nm/bar)
062 = 1,04	062 = 1,04	062 = 1,04
074 = 1,22	074 = 1,22	074 = 1,22
088 = 1,45	088 = 1,45	088 = 1,45
102 = 1,68	102 = 1,68	102 = 1,68
113 = 1,86	113 = 1,86	113 = 1,86
128 = 2,11	128 = 2,11	128 = 2,11
138 = 2,30	138 = 2,30	138 = 2,30
Type of shaft	Art der Welle	Type d'arbre
1 = keyed (SAE C)	1 = Palfederwelle (SAE C)	1 = à clavette (SAE C)
3 = splined (SAE C)	3 = Vielkeilwelle (SAE C)	3 = à cannelures (SAE C)
Direction of rotation	Drehrichtung	Sens de rotation
N = bi-directional	N = Rechts und Linkslauf	N = Bi-directionnel
Porting combination	Lage der Anschlüsse	Combinaison des orifices
00 = standard	00 = standard	00 = standard
Design letter	Ausführungsbuchstabe	Conception
Seal class	Dichtungsklasse	Classe de joint
1 = S1 - M4D	1 = S1 - M4D	1 = S1 - M4D
5 = S5 - M4SD	5 = S5 - M4SD	5 = S5 - M4SD
Mounting w/connection variables	Gehäuse-Anschlußgröße	Option sur orifices
01 = SAE threaded port	01 = SAE-Gewinde	01 = taraudage SAE
SAE drain	Leckölanschluß SAE	drain SAE
02 = SAE 4 bolts flange	02 = 4 Loch-Flansch SAE	02 = bride SAE 4 trous
UNC threaded - SAE drain	UNC-Gewinde - Leckölanschluß SAE	taraudage UNC - drain SAE
04 = SAE 4 bolts flange	04 = 4 Loch-Flansch SAE	04 = bride SAE 4 trous
UNC threaded - BSPP drain	UNC-Gewinde - R-Leckölanschluß	taraudage UNC - drain BSPP
M4 = SAE 4 bolts flange	M4 = 4 Loch-Flansch SAE	M4 = bride SAE 4 trous
metric threaded - BSPP drain	metrisch-Gewinde - R-Leckölanschluß	taraudage métrique - drain BSPP
Modifications	Modifikationen	Modifications





Designazione

Sigla :

Serie drenaggio esterno

Serie drenaggio interno

Coppia (Nm/bar)

062 = 1,04

074 = 1,22

088 = 1,45

102 = 1,68

113 = 1,86

128 = 2,11

138 = 2,30

Tipo di albero

1 = a chavetta (SAE C)

3 = scanalato (SAE C)

Senso di rotazione

N = bidirezionale

Orientamento delle bocche

00 = standard

Disegno

Tipo di guarnizioni

1 = S1 - M4D

5 = S5 - M4SD

Dimensioni delle bocche

01 = filettature SAE

drenaggio SAE

02 = flange SAE 4 fori - filettature UNC

drenaggio SAE

04 = flange SAE 4 fori - filettature UNC

drenaggio BSP

M4 = flange SAE 4 fori - filettature metrica

drenaggio BSP

Modifiche

Clave de designación

Referencia modelo :

Serie drenaje externo

Serie drenaje interno

Aro volumetrico (Nm/bar)

062 = 1,04

074 = 1,22

088 = 1,45

102 = 1,68

113 = 1,86

128 = 2,11

138 = 2,30

Tipo de eje

1 = chaveteado (SAE C)

3 = estriado (SAE C)

Sentido de giro

N = bi-direccional

Posición de bocas

00 = estándar

Letra de diseño

Clase de juntas

1 = S1 - M4D

5 = S5 - M4SD

Opciones de las bocas

01 = rosca SAE

drenaje SAE

02 = SAE 4 agujeros - rosca UNC

drenaje SAE

04 = SAE 4 agujeros - rosca UNC

drenaje BSP

M4 = SAE 4 agujeros - rosca metrico

drenaje BSP

Modificaciones

M4*D1 - 138 - 1 N 00 - B 1 02
M4*D - 138 - 1 N 00 - B 1 02

**WARNING – USER RESPONSIBILITY**

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