



A SHURCO® BRAND

VANE PUMPS

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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SINGLE VANE PUMPS

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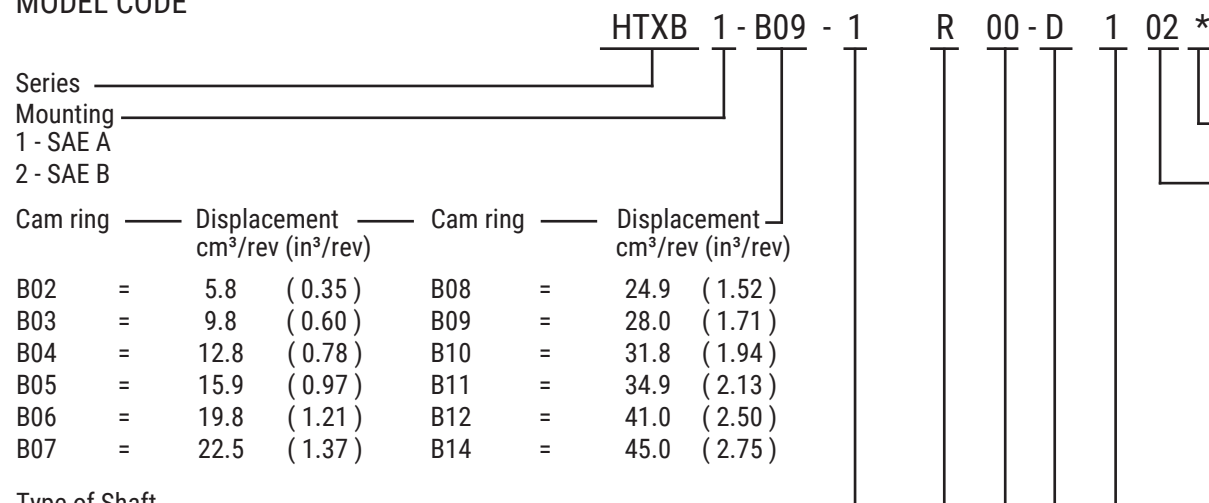
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SINGLE VANE PUMP

HTXB1,HTXB2

MODEL CODE



Type of Shaft

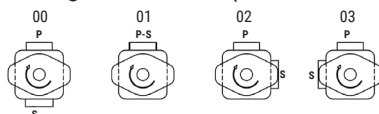
TXB1
1 = Keyed (non SAE)
2 = Keyed
3 = Splined (9 teeth)
4 = Splined (13 teeth)
5 = Keyed
V= Splined (11 teeth)

TXB2
1 = Keyed (non SAE)
2 = Keyed
4 = Splined (13 teeth)

Direction of rotation (view on shaft end)

R = Clockwise
L = Counter - clockwise

Porting combination: (00 = Standard)



S - Suction port P - Pressure port

Modification

Porting connections

Code	S	P
00	SAE 20 1" 5/8 12 UNF-2B	SAE 12 1" 1/16 12 UNF-2B
01	1" 1/4 SAE 4 bolt (UNC)	3/4" SAE 4 bolt (UNC)
MO	1" 1/4 SAE 4 bolt (METRIC)	3/4" SAE 4 bolt (METRIC)
02	1" 1/4 BSP	3/4" BSP
03	1" 1/4 NPTF	SAE 12 1" 1/16 12 UNF-2B
0X	1" 1/4 NPTF	3/4" NPTF
MX	ø28 SAE 4 bolt (METRIC)	ø15 SAE 4 bolt (METRIC)

Seal Class

1 - S1 (for mineral oil)
4 - S4 (for fire resistant fluids)
5 - S5 (for mineral oil and fire resistant fluids)

Design letter

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT6C, HT6CM

MODEL CODE

Series _____

*M = Mobile (*omit for Industrial)

*Y = Metric port connection, omit for UNC

Cam ring _____ Displacement _____ in³/rev (cm³/rev)

003/B03/R03 = 0.66 (10.8)	017/B17/R17 = 3.56 (58.3)
005/B05/R05 = 1.05 (17.2)	020/B20/R20 = 3.89 (63.8)
006/B06/R06 = 1.30 (21.3)	022/B22/R22 = 4.29 (70.3)
008/B08/R08 = 1.61 (26.4)	025/B25/R25 = 4.84 (79.3)
010/B10/R10 = 2.08 (34.1)	028/B28/R28 = 5.42 (88.8)
012/B12/R12 = 2.26 (37.1)	031/B3/R311 = 6.10 (100.0)
014/B14/R14 = 2.81 (46.0)	

(Select 'B**' for Mobile and Industrial bi-directional)
(Select 'R**' for Mobile-spring assisted)

Type of Shaft _____

1 = Keyed (SAE B)
2 = Keyed (no SAE)
3 = Splined (SAE B)
4 = Splined (SAE B-B)

HT6C * * - *22 - 1 R 00 - B 1 *

Modification

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter
B = Industrial C = Mobile

Porting combination: (00 = Standard)

00
P
S

01
P-S

02
P
S

03
P
S

Direction of rotation
R = Clockwise
L = Counter - clockwise

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT6D, HT6DM, HT6DP

MODEL CODE

Series HT6D * * * - *42 - 1 R 00 - B 1 - *

*N = Shaft seal installed reverse
 *Q = Special mounting cap with orientation of 20° from standard (*omit, if not required)
 *M = Mobile
 *P = Mobile with double shaft seal (not for HT6DN) (*omit, if not required)
 Y = Metric port connection (not for code 'Q'), omit for UNC

Cam ring — Displacement — Cam ring — Displacement —

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
014/B14/R14	= 2.90 (47.6)	035/B35/R35	= 6.80 (111.0)
017/B17/R17	= 3.55 (58.2)	038/B38/R38	= 7.30 (111.0)
020/B20/R20	= 4.00 (66.0)	042/B42/R42	= 8.30 (136.0)
024/B24/R24	= 4.80 (79.5)	045/B45/R45	= 8.90 (145.7)
028/B28/R28	= 5.50 (89.7)	050/B50/R50	= 9.64 (158.0)
031/B31/R31	= 6.00 (98.3)	061/B61/R61	= 11.65 (191.0)

(Select 'B**' for Mobile and Industrial bi-directional)
 (Select 'R**' for Mobile-spring assisted)

Type of Shaft — Type of Shaft — Type of Shaft —

HT6D/HT6DN/HT6DQ

1 = Keyed (SAE - C)

2 = Keyed (no SAE)

3 = Splined (SAE - C)

4 = Splined (no SAE)

HT6DM/HT6DNM/HT6DQM

1 = Keyed (SAE - C)

2 = Keyed (no SAE)

3 = Splined (SAE - C)

4 = Splined (no SAE)

T = Splined (SAE j718c)

HT6DP/HT6DQP

3 = Splined (no SAE)

Modification
 Seal class
 1 = S1 - BUNA N
 4 = S4 - EPDM
 5 = S5 - VITON
 Design letter
 B = Industrial C = Mobile
 Porting combination: (00 = Standard)

Direction of rotation
 R = Clockwise
 L = Counter - clockwise

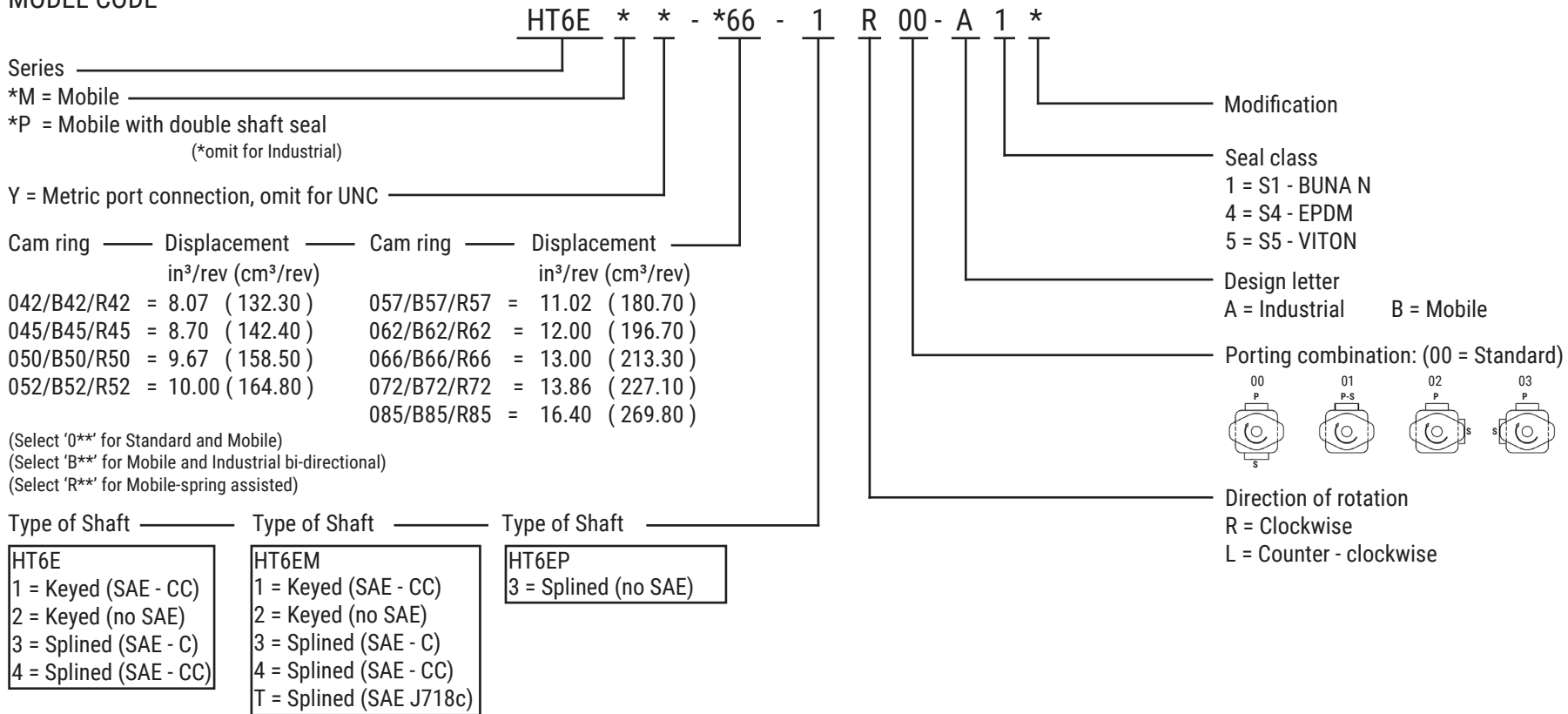
To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT6E, HT6EM, HT6EP

MODEL CODE



To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT7B, HT7BS

MODEL CODE

Series HT7B/HT7BS - B10 - 1 R 00 - A 1 - M0 -

HT7B series - 100 A2 HW
ISO 2 bolts 3019 - 2 mounting flange
HT7BS series - SAE B 2 bolts
Mounting flange J744c

Cam ring — Displacement — Cam ring — Displacement

Cam ring	=	Displacement	in ³ /rev	(cm ³ /rev)	Cam ring	=	Displacement	in ³ /rev	(cm ³ /rev)
B02	=	0.35	(5.7)		B09	=	1.71	(28.0)	
B03	=	0.60	(9.8)		B10	=	1.94	(31.8)	
B04	=	0.78	(12.8)		B11	=	2.13	(34.9)	
B05	=	0.97	(15.9)		B12	=	2.50	(40.9)	
B06	=	1.21	(19.8)		B14	=	2.75	(45.1)	
B07	=	1.37	(22.5)		B15	=	3.05	(50.0)	
B08	=	1.52	(24.9)						

Type of Shaft

HT7BS	HT7B - HT7BS
1 = Keyed (SAE - B)	2 = Keyed (ISO R775)
3 = Splined (SAE B)	
4 = Splined (SAE BB)	

Modification

Mounting w/ connection variables
4 bolts SAE flange (J518C)

	UNC HT7BS		METRIC HT7B-HT7BS	
	00	01	M0	M1
P	1"	3/4"	1"	3/4"
S	1 1/2"			

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting combination: (00 = Standard)

S - Suction port P - Pressure port

Direction of rotation
R = Clockwise
L = Counter - clockwise

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT7D, HT7DS

MODEL CODE

Series

HT7D - series - 125 A2 HW

ISO 2 bolts 3019-2 mounting flange

HT7DS - series - SAE C 2 bolts

Mounting flange J744c

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
B14	= 2.68 (43.9)	B31	= 6.05 (28.0)
B17	= 3.36 (55.0)	B35	= 6.92 (113.4)
B20	= 4.03 (66.0)	B38	= 7.36 (120.6)
B22	= 4.29 (70.3)	B42	= 8.39 (137.5)
B24	= 4.95 (81.3)	045	= 8.89 (145.7)
B28	= 5.49 (89.9)	050	= 9.64 (157.9)

Type of Shaft

HT7DS
1 = Keyed (SAE - C)
2 = Keyed (no SAE)
3 = Splined (SAE - C)
4 = Splined (no SAE)

HT7DS - HT7D
5 - Keyed (ISO 3019-2-G32M)

HT7D/HT7DS - B42 - 1 R 00 - A 1 - M0 -

Modification

Mounting w/ connection variables
4 bolts SAE flange (J518C)

P = 1" 1/4		S = 2"	
	UNC METRIC		
HT7D		M0	
HT7DS	00	M0	Y0

1) 250 bar max. int.

Seal class

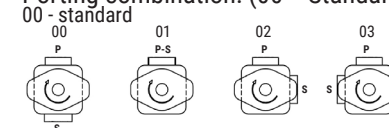
1 = S1 - BUNA N

4 = S4 - EPDM

5 = S5 - VITON

Design letter

Porting combination: (00 = Standard)



S - Suction port P - Pressure port

Direction of rotation (view on shaft end)

R = Clockwise

L = Counter - clockwise

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT7DSW

MODEL CODE

HT7DSW - *42 - X R 00 - A 1 - W1 -

Series _____ Modification _____

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
014/B14	= 2.68 (43.9)	031/B31	= 6.05 (99.1)
017/B17	= 3.36 (55.0)	035/B35	= 6.92 (113.4)
020/B20	= 4.03 (66.0)	038/B38	= 7.36 (120.6)
022/B22	= 4.29 (70.3)	042/B42	= 8.39 (137.5)
024/B24	= 4.95 (81.3)	045/B45	= 8.89 (145.7)
028/B28	= 5.49 (89.9)	050/B50	= 9.64 (157.9)

Type of Shaft _____

X = Keyed (SAE - C)
3 = Splined (SAE - C)

Modification

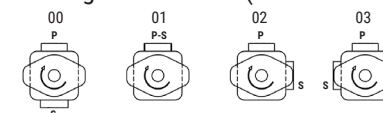
Mounting w/ connection variables
4 bolts SAE flange (J518)

P = 1-¼"	S = 2-½"
	UNC METRIC
HT7DSW	W1 M1

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting combination: (00 = Standard)



S - Suction port P - Pressure port

Direction of rotation (view on end shaft)

R = Clockwise
L = Counter - clockwise

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT7E, HT7ES

MODEL CODE

Series HT7E/HT7ES - 066 - 1 R 00 - A 1 - M0 *

HT7E - series - 125 A2 HW
ISO 2 bolts 3019 - 2 mounting flange
HT7ES - series - SAE C 2 bolts
Mounting flange J744c

Cam ring — Displacement — Cam ring — Displacement

Cam ring	=	Displacement	Cam ring	=	Displacement
		in ³ /rev (cm ³ /rev)			in ³ /rev (cm ³ /rev)
042	=	8.07 (132.30)	057	=	11.02 (180.70)
045	=	8.70 (142.40)	062	=	12.00 (196.70)
050	=	9.67 (158.50)	066	=	13.00 (213.30)
052	=	10.00 (164.80)	072	=	13.86 (227.10)
054	=	10.43 (170.90)	085	=	16.40 (269.80)

Type of Shaft

HT7ES	HT7ES - HT7E
1 = Keyed (SAE - CC)	5 = Keyed (ISO R775-G38M)
2 = Keyed (no SAE)	
3 = Splined (SAE - C)	
4 = Splined (SAE - CC)	

Modification

Mounting w/ connection variables
4 bolts SAE flange (J518C)

P = 1" 1/2	S = 3"
UNC	METRIC
HT7E	M0
HT7ES	00

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting combination: (00 = Standard)

S - Suction port P - Pressure port

Direction of rotation
R = Clockwise
L = Counter - clockwise

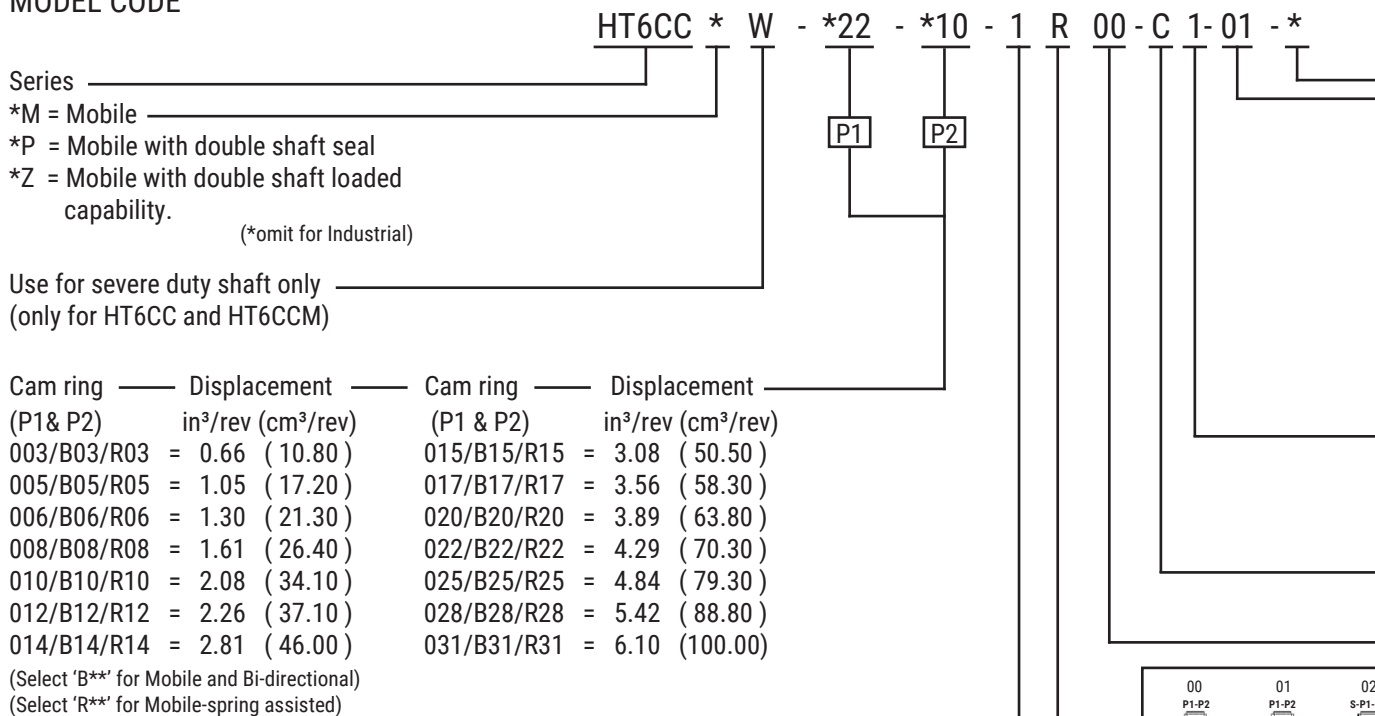
To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT6CC, HT6CCM, HT6CCP, HT6CCZ

MODEL CODE



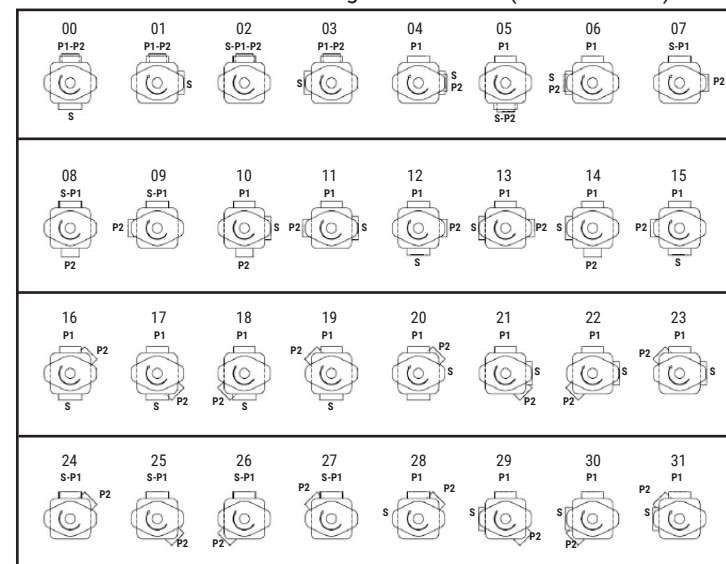
Modification
Port connection variables
SAE 4 bolt flange (J518c)

Code				
UNC	METRIC	P1	P2	S
00	OM	1"	1"	3"
01	W0	1"	3/4"	3"
10	1M	1"	1"	2½"
11	W1	1"	3/4"	2½"

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter
A = HT6CCZ C = Industrial D = Mobile

Porting combination: (00 = Standard)



Direction of rotation
R = Clockwise
L = Counter - clockwise

HT6DC, HT6DCM, HT6DCP

MODEL CODE

Series _____ HT6DC * W * - *35 - *10 - 1 R 00 - C 1 - 00 - *

Series _____ Modification

*M = Mobile

*P = Mobile with double shaft seal
(*omit for Industrial)

Use for severe duty shaft only _____
(only for HT6DC and HT6DCM)

Y = Metric port connection, omit for UNC

Cam ring _____ Displacement _____
in³/rev (cm³/rev)

014/B14/R14 = 2.90 (47.60)	035/B35/R35 = 6.77 (111.00)
017/B17/R17 = 3.55 (58.20)	038/B38/R38 = 7.34 (120.30)
020/B20/R20 = 4.03 (66.00)	042/B42/R42 = 8.30 (136.00)
024/B24/R24 = 4.85 (79.50)	045/B45/R45 = 8.80 (145.70)
028/B28/R28 = 5.47 (89.70)	050/B50/R50 = 9.64 (158.00)
031/B31/R31 = 6.00 (98.30)	061/B61/R61 = 11.62 (190.50)

Cam ring _____ Displacement _____
in³/rev (cm³/rev)

003/B03/R03 = 0.66 (10.80)	015/B15/R15 = 3.08 (50.50)
005/B05/R05 = 1.05 (17.20)	017/B17/R17 = 3.56 (58.30)
006/B06/R06 = 1.30 (21.30)	020/B20/R20 = 3.89 (63.80)
008/B08/R08 = 1.61 (26.40)	022/B22/R22 = 4.29 (70.30)
010/B10/R10 = 2.08 (34.10)	025/B25/R25 = 4.84 (79.30)
012/B12/R12 = 2.26 (37.10)	028/B28/R28 = 5.42 (88.80)
014/B14/R14 = 2.81 (46.00)	031/B31/R31 = 6.10 (100.00)

(Select 'B**' for Mobile and Bi-directional)
(Select 'R**' for Mobile-spring assisted)

Type of Shaft _____

HT6DC/HT6DCM
1 = Keyed (SAE - C)
2 = Keyed (no SAE)
3 = Splined (SAE - C)
4 = Splined (no SAE)

Type of Shaft _____

HT6DCW
5 = Keyed (no SAE)

HT6DCMW
5 = Keyed (no SAE)
T = Splined (SAE j718c)

Type of Shaft _____

HT6DCP
3 = Splined (no SAE)

Modification

Mounting w/ connection variables

	UNC		METRIC	
	00	01	M0	M1
P2	1"	3/4"	1"	3/4"

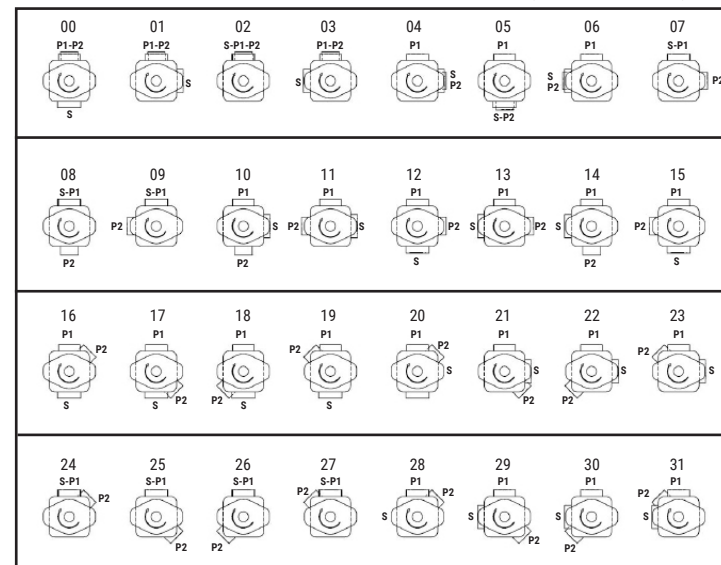
Seal class

1 = S1 (for minreal oil)
4 = S4 (for fire resistant fluids)
5 = S5 (for mineral oil and
fire resistant fluids)

Design letter

B = Industrial C = Mobile

Porting combination: (00 = Standard)



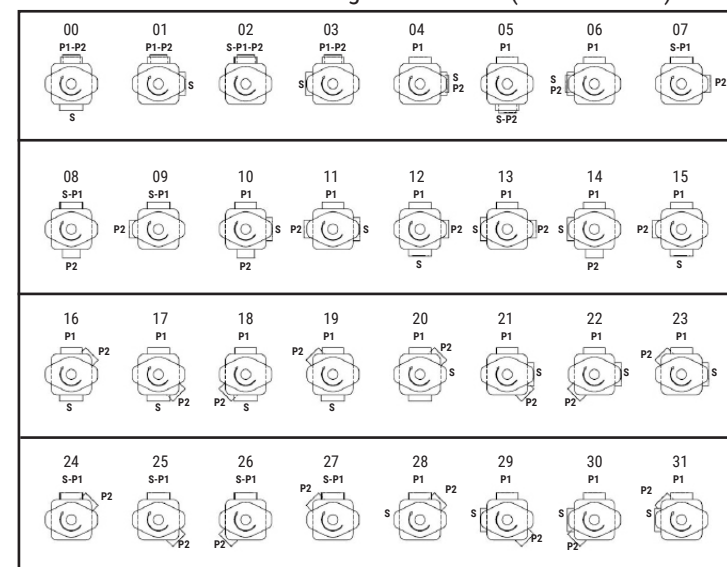
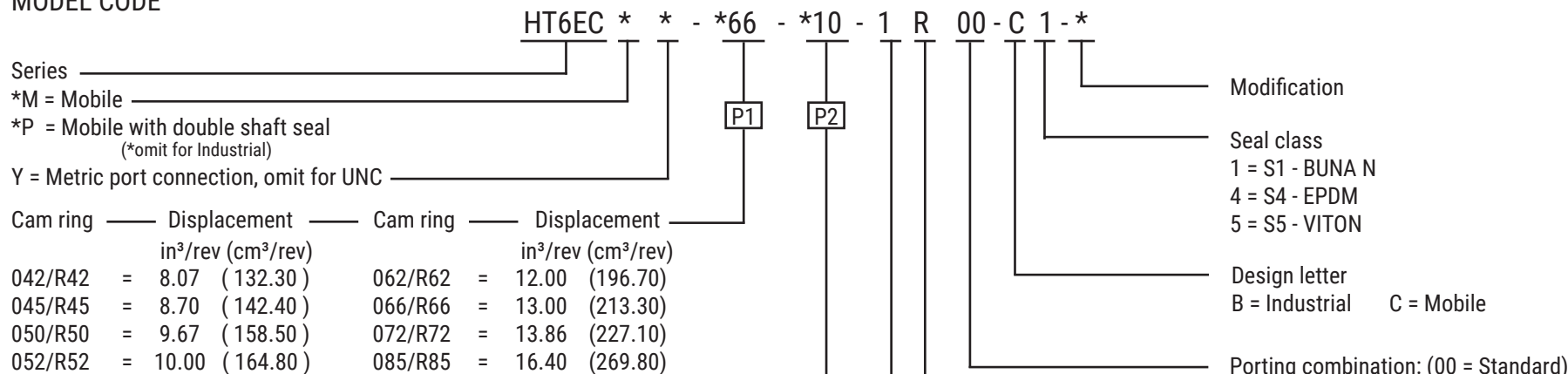
Direction of rotation

R = Clockwise

L = Counter - clockwise

HT6EC, HT6ECM, HT6ECP

MODEL CODE



Direction of rotation

R = Clockwise
 L = Counter - clockwise

HT6ED, HT6EDM, HT6EDP

MODEL CODE

Series HT6ED * * - *66 - *35 - 1 R 00 - C 1 - *

*M = Mobile
*P = Mobile with double shaft seal
(*omit for Industrial)

Y = Metric port connection, omit for UNC

Cam ring Displacement Cam ring Displacement

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
042/R42	= 8.07 (132.30)	062/R62	= 12.00 (196.70)
045/R45	= 8.70 (142.40)	066/R66	= 13.00 (213.30)
050/R50	= 9.67 (158.50)	072/R72	= 13.86 (227.10)
052/R52	= 10.00 (164.80)	085/R85	= 16.40 (269.80)

(Select 'R**' for Mobile-spring assisted)

Cam ring Displacement Cam ring Displacement

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
014/B14/R14	= 2.90 (47.60)	038/B38/R38	= 7.30 (120.30)
020/B20/R20	= 4.00 (66.00)	042/B42/R42	= 8.30 (136.00)
024/B24/R24	= 4.85 (79.50)	045/B45/R45	= 8.90 (145.70)
028/B28/R28	= 5.00 (89.70)	050/B50/R50	= 9.64 (158.00)
031/B31/R31	= 6.00 (98.30)		
035/B35/R35	= 6.80 (111.00)		

(Select 'B**' for Mobile and Bi-directional)
(Select 'R**' for Mobile-spring assisted)

Type of Shaft Type of Shaft Type of Shaft

Type of Shaft	Type of Shaft	Type of Shaft
HT6ED	HT6EDM	HT6EDP
1 = Keyed (SAE - CC)	1 = Keyed (SAE - CC)	3 = Splined (no SAE)
2 = Keyed (no SAE)	2 = Keyed (no SAE)	
3 = Splined (SAE - C)	3 = Splined (SAE - C)	
4 = Splined (SAE - CC)	4 = Splined (no SAE)	
	T = Splined (SAE J718c)	

Modification

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter
B = Industrial C = Mobile

Porting combination: (00 = Standard)

P - Pressure S - Suction

Direction of rotation
R = Clockwise
L = Counter - clockwise

HT7ED, HT7EDS

MODEL CODE

Series

HT7ED - ISO - 2 bolts 3019-2

Mounting flange 125 B4 HW

HT7EDS - SAE - C 2 Bolts

Mounting flange J744

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
042	= 8.07 (132.30)	057	= 11.02 (180.70)
045	= 8.70 (142.40)	062	= 12.00 (196.70)
050	= 9.67 (158.50)	066	= 13.00 (213.30)
052	= 10.00 (164.80)	072	= 13.86 (227.10)
054	= 10.43 (170.90)	085	= 16.40 (269.80)

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
B14	= 2.68 (43.9)	B31	= 6.05 (99.1)
B17	= 3.36 (55.0)	B35	= 6.92 (113.4)
B20	= 4.03 (66.0)	B38	= 7.36 (120.6)
B22	= 4.29 (70.3)	B42	= 8.39 (137.5)
B24	= 4.95 (81.3)	045	= 8.89 (145.7)
B28	= 5.49 (89.9)	050	= 9.64 (157.9)

Type of Shaft

HT7EDS
 1 = Keyed (SAE - CC)
 2 = Keyed (no SAE)
 3 = Splined (SAE - C)
 4 = Splined (SAE - CC)

HT7ED-HT7EDS
 5 = Keyed (ISO/R775 - G38M)

HT7ED/HT7EDS - 042 - B22 - 1 R 00 - A 1 - M0 - ..

Modification

Mounting w/ connection variables
 4 bolts SAE flange J518c

P1=1½"	P2=1¼"	S=4"
HT7EDS	HT7ED-HT7EDS	
UNC	METRIC	
01	M1	

Seal class

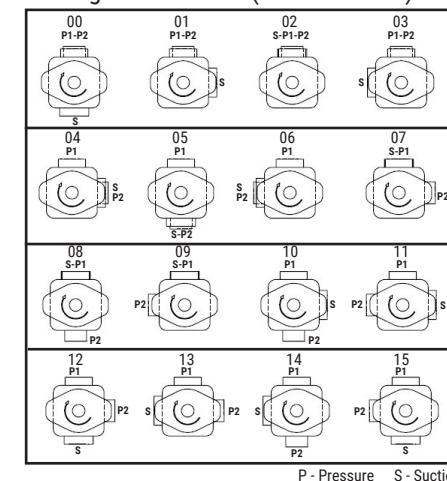
1 = S1 - BUNA N

4 = S4 - EPDM

5 = S5 - VITON

Design letter

Porting combination: (00 = Standard)



Direction of rotation

R = Clockwise

L = Counter - clockwise

HT6CR, HT6CRM

MODEL CODE

Series HT6CR * * - *22 - 1 R 00 - B 3 0 - A 1 *

M = Mobile (omit for industrial)
Y = Metric port connection, omit for UNC

Cam ring — Displacement — Cam ring — Displacement —

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
003/B03/R03	= 0.66 (10.80)	017/B17/R17	= 3.56 (58.30)
005/B05/R05	= 1.05 (17.20)	020/B20/R20	= 3.89 (63.80)
006/B06/R06	= 1.30 (21.30)	022/B22/R22	= 4.29 (70.30)
008/B08/R08	= 1.61 (26.40)	025/B25/R25	= 4.84 (79.30)
010/B10/R10	= 2.08 (34.10)	028/B28/R28	= 5.42 (88.80)
012/B12/R12	= 2.26 (37.10)	031/B31/R31	= 6.10 (100.00)
014/B14/R14	= 2.81 (46.00)		

(Select 'B**' for Mobile and Bi-directional
(Select 'R**' for Mobile-spring assisted)

Type of Shaft

HT6CR/HT6CRM

1 = Keyed (SAE - BB)

2 = Keyed (no SAE)

3 = Splined (SAE - B)

4 = Splined (SAE - BB)

5 = Keyed (no SAE)

Direction of rotation

R = Clockwise
L = Counter - clockwise

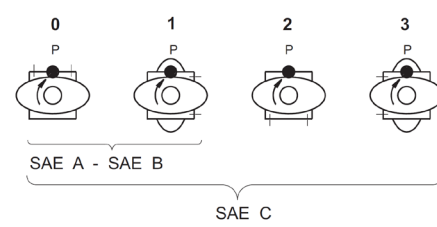
Modification

Seal class

1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting Adapter



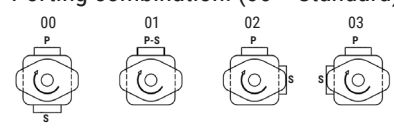
Coupling

1 = SAE A
2 = SAE B
3 = SAE B - B
4 = SAE C
5 = SAE J498B 16/32-11 teeth

Adapter

0 = None B = SAE B
A = SAE A C = SAE C

Porting combination: (00 = Standard)



To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HT6DR, HT6DRM

MODEL CODE

Series HT6DR * * - *35 - 1 R 00 - A 1 0 - A 1 *

M = Mobile (omit for industrial)
Y = Metric port connection, omit for UNC

Cam ring — Displacement — Cam ring — Displacement —

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
014/B14/R14	= 2.90 (47.6)	038/B38/R38	= 7.30 (120.3)
020/B20/R20	= 4.00 (66.0)	042/B42/R42	= 8.30 (136.0)
024/B24/R24	= 4.85 (79.5)	045/B45/R45	= 8.90 (145.7)
028/B28/R28	= 5.50 (89.7)	050/B50/R50	= 9.64 (158.0)
031/B31/R31	= 6.00 (98.3)		
035/B35/R35	= 6.80 (111.0)		

(Select 'B**' for Mobile and Bi-directional
(Select 'R**' for Mobile-spring assisted)

Type of Shaft HT6DR/HT6DRM

1 = Keyed (SAE C)
2 = Keyed (no SAE)
3 = Splined (SAE - C)
4 = Splined (no SAE)

Direction of rotation R

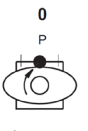
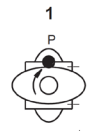
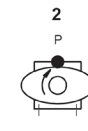
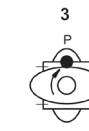
R = Clockwise
L = Counter - clockwise

Modification

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting Adapter

SAE A - SAE B

SAE C

Coupling

1 = SAE A
2 = SAE B
3 = SAE B - B
4 = SAE C
5 = SAE J498B 16/32-11 teeth

Adapter

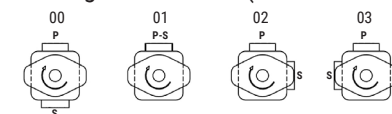
0 = None B = SAE B
A = SAE A C = SAE C

Porting combination: (00 = Standard)

To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.



HT6ER, HT6ERM

MODEL CODE

Series HT6ER * * - *66 - 1 R 00 - C 4 0 - A 1 *

M = Mobile (omit for industrial)
Y = Metric port connection, omit for UNC

Cam ring — Displacement — Cam ring — Displacement

Cam ring	Displacement	Cam ring	Displacement
	in ³ /rev (cm ³ /rev)		in ³ /rev (cm ³ /rev)
042/R42	= 8.07 (132.30)	057/R57	= 11.02 (180.70)
045/R45	= 8.70 (142.40)	062/R62	= 12.00 (196.70)
050/R50	= 9.67 (158.50)	066/R66	= 13.00 (213.30)
052/R52	= 10.00 (164.80)	072/R72	= 13.86 (227.10)
		085/R85	= 16.40 (269.80)

(Select '0**' for Standard and Mobile
(Select 'R**' for Mobile-spring assisted)

Type of Shaft

HT6ER/HT6ERM

1 = Keyed (SAE - C)

3 = Splined (SAE - C)

4 = Splined (SAE - CC)

Direction of rotation

R = Clockwise
L = Counter - clockwise

Porting combination: (00 = Standard)

00

01

02

03

Modification

Seal class

1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

Design letter

Porting Adapter

0

1

2

3

SAE A - SAE B

SAE C

Coupling

1 = SAE A
2 = SAE B
3 = SAE B - B
4 = SAE C
5 = SAE J498B 16/32-11 teeth

Adapter

0 = None
A = SAE A
B = SAE B
C = SAE C

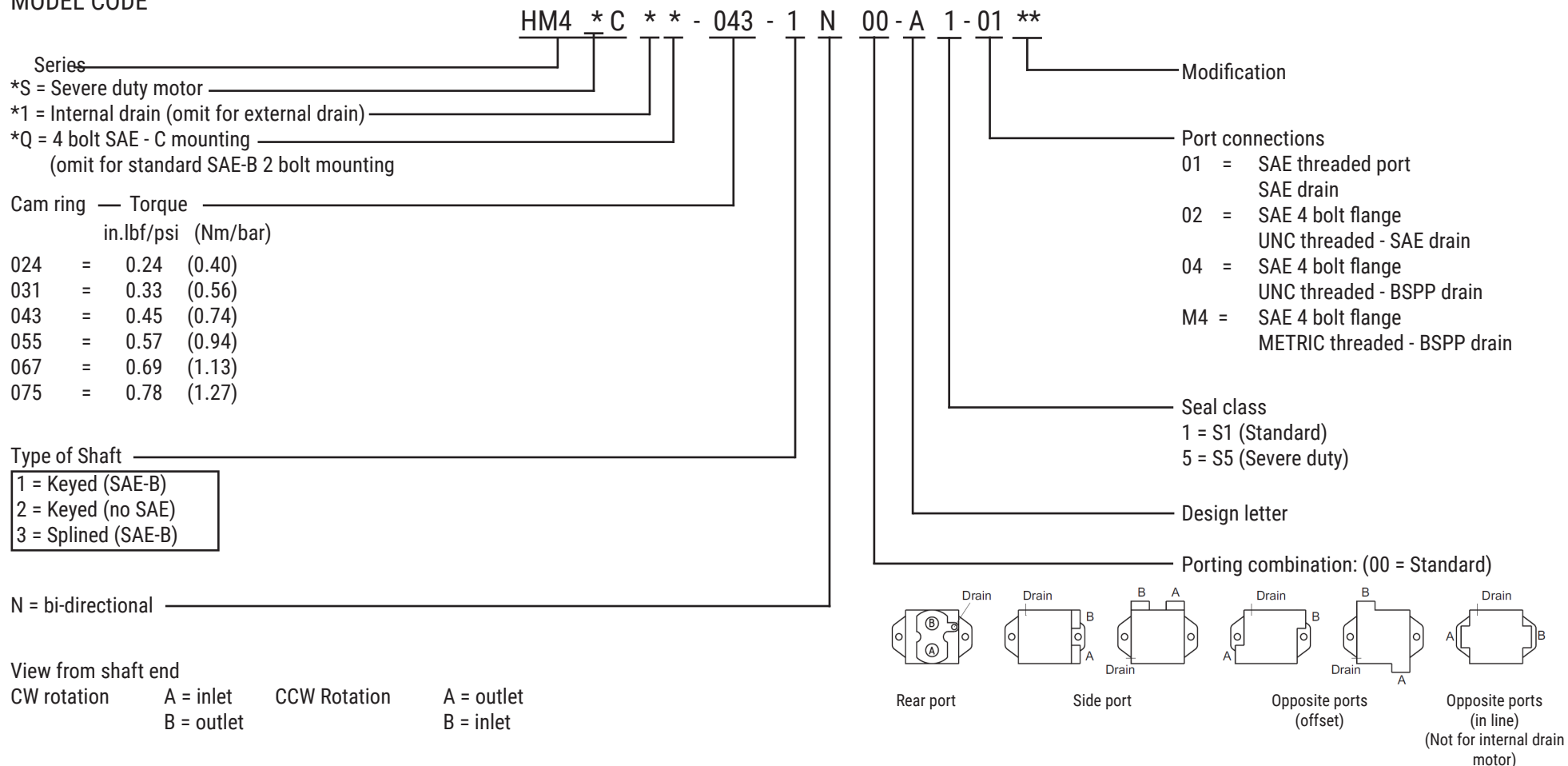
To change porting position, follow the steps below:

Secure the pump and remove 4 bolts from housing. Move the housing 1 to 2 mm away from the mounting flange. Insert two bolts halfway into the housing. Install a wrench between the two bolts and turn in the desired direction, so that the required position of the pressure port, with respect to suction is obtained. Reinstall the bolts and tighten to the corresponding mounting torque, as provided.

Instructions: Do not remove the housing completely from the mounting flange, remove only 1 to 2 mm to avoid the cartridge pin from moving out from the housing dowel pin hole. Make sure no piece of paint enters the gap to avoid leakage. If it is difficult to turn housing, put some hydraulic oil into the pressure port to lubricate the pressure port seals.

HM4C, HM4C1, HM4SC, HM4SC1

MODEL CODE



HM4D, HM4D1, HM4SD, HM4SD1

MODEL CODE

HM4 * D * - 062 - 1 N 00 - B 1 - 01 **

Series _____ Modification

*S = Severe duty motor

*1 = Internal drain (omit for external drain)

Cam ring — Torque

in.lbf/psi (Nm/bar)

062 = 0.63 (1.0)

074 = 0.75 (1.2)

088 = 0.88 (1.4)

102 = 0.96 (1.6)

113 = 1.13 (1.8)

128 = 1.28 (2.1)

138 = 1.38 (2.2)

Type of Shaft

1 = Keyed (no SAE)

3 = Keyed (SAE A)

S = Splined (SAE J718c)

N = bi-directional

View from shaft end

CW rotation

A = inlet

B = outlet

CCW Rotation

A = outlet

B = inlet

Port connections

01 = SAE threaded port

SAE drain

02 = SAE 4 bolt flange

UNC threaded - SAE drain

04 = SAE 4 bolt flange

UNC threaded - BSPP drain

M4 = SAE 4 bolt flange

METRIC threaded - BSPP drain

Seal class

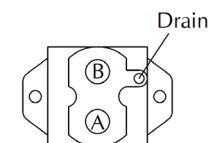
1 = S1 (HM4D-HM4D1)

5 = S5 (HM4SD/HM4SD1)

Design letter

Porting combination: (00 = Standard)

00



HYFLOW SOUTHEAST, INC. VANE PUMP WARRANTY

Hyflow Southeast vane pump is warranted for a period of (1) one year (12 months) from the date of service or 1-1/2 years (18 months) from date of sales/builds, or 12 months of date of installation, whichever is sooner, against any defect in material and workmanship which existed at the time of sale by Hyflow Southeast., according to the following provisions, subject to the requirements that the pump must be used only in the appropriate applications and following the Installation and Owner's Manual instructions

If during the warranty period the vane pump fails due to a defect in any part in material or workmanship that existed at the time of the sale by Hyflow Southeast Inc., the defective part will be repaired or replaced, at the discretion of Hyflow Southeast Inc., at no charge, if the defective part is returned to Hyflow Southeast Inc. with transportation prepaid. Authorization from your sales representative is required to initiate the warranty.

WARNING: The above warranty shall terminate if any alterations or repairs are made to the vane pump other than at Hyflow Southeast Inc.

The foregoing warranty is in lieu of all other obligations and liabilities, including negligence and all warranties of merchantability and suitability, expressed or implied, and state Hyflow Southeast' entire and exclusive liability and buyer's exclusive remedy for any claim of damages in connection with the sale, repair or replacement of the above goods, their design, installation or operation. Hyflow Southeast Inc. will in no event be liable for any direct, indirect, special, incidental or consequential damages whatsoever, and our liability under no circumstances will exceed the contract price for the goods for which liability is claimed.

Hyflow Southeast Inc. is not liable for any repair related cost incurred to the Buyer at any time if the repair is conducted by the buyer without written authorization from Hyflow Southeast Inc.

[illegible]



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