

# CRS4520VQ FIXED DOUBLE VANE PUMP MODEL CODE BREAKDOWN

**MODEL CODE:** CRS 4520VQ \*\* A \*\* (\*) - 1 \* 20 L  
**CROSS REFERENCE:** A B C D E F G H I J

**A = BRAND**

**B = FRAME SIZE**

**C = DISPLACEMENT**

	GPM @	1200 RPM	RPM MAX	PSI MAX
42	=	42 GPM	2200	2500
50	=	50 GPM	2200	2500
57	=	57 GPM	2200	2500
60	=	60 GPM	2200	2500

**D = PORTING**

A	=	Inlet 31/2" 4 Bolt Split Flange #1 Outlet 1 1/2" 4 Bolt Split Flange #2 Outlet 3/4" 4 Bolt Split Flange
E	=	Inlet 3 1/2" 4 Bolt Split Flange #1 Outlet 1 1/2" 4 Bolt Split Flange #2 Outlet 1.0625" – 12 SAE O Ring

**E = DISPLACEMENT**

	GPM @	1200 RPM	RPM MAX	PSI MAX
5	=	5 GPM	2200	3000
8	=	8 GPM	2200	3000
11	=	11 GPM	2200	3000
12	=	12 GPM	2200	3000
14	=	14 GPM	2200	3000

**F = SHAFT SEAL AND MOUNTING**

F	=	Foot Bracket
S	=	Double Shaft Seal
Omit for single seal & 2 Bolt SAE C Flange Mount		

**G = SHAFT**

1	=	1.250" Diameter 5/16 Square Key 2.44 Ext
3	=	1.250" Diameter 5/16 Woodruff Key 3.13 Ext
6	=	1.250" Diameter 5/16 Woodruff Key 2.44 Ext
11	=	1.248" Diameter 14T 12/24 MDF 2.44 Ext
13	=	1.229" Diameter 14T 12/24 SF 3.06 Ext
28	=	1.229" Diameter 14T 12/24 SF 2.3 Ext
52	=	1.248" Diameter 14T 12/24 MDF 2.19 Ext
56	=	1.226" Diameter 14T 12/24 SF 2.5 Ext
86	=	1.500" Diameter 3/8 Square Key 3.44 Ext
108	=	1.229" Diameter 14T 12/24 SF 2.19 Ext
114	=	1.229" Diameter 14T 12/24 SF 3.06 Ext
115	=	1.229" Diameter 14T 12/24 SF 2.3 Ext
130	=	1.248" Diameter 14T 12/24 MDF 2.44 Ext
179	=	1.250" Diameter 5/16 Square Key 2.88 Ext

**H = PORT RELATIONSHIP**

\*as viewed from the cover end

#1 OUTLET OPPOSITE INLET	
AA	= #2 Outlet 135 Degrees CCW from inlet
AB	= #2 Outlet 45 Degrees CCW from inlet
AC	= #2 Outlet 45 Degrees CW from inlet
AD	= #2 Outlet 135 Degrees CW from inlet
#1 OUTLET 90 DEGREES CCW FROM INLET	
BA	= #2 Outlet 135 Degrees CCW from inlet
BB	= #2 Outlet 45 Degrees CCW from inlet
BC	= #2 Outlet 45 Degrees CW from inlet
BD	= #2 Outlet 135 Degrees CW from inlet
#1 OUTLET INLINE WITH INLET	
CA	= #2 Outlet 135 Degrees CCW from inlet
CB	= #2 Outlet 45 Degrees CCW from inlet
CC	= #2 Outlet 45 Degrees CW from inlet
CD	= #2 Outlet 135 Degrees CW from inlet
#1 OUTLET 90 DEGREES CW FROM INLET	
DA	= #2 Outlet 135 Degrees CCW from inlet
DB	= #2 Outlet 45 Degrees CCW from inlet
DC	= #2 Outlet 45 Degrees CW from inlet
DD	= #2 Outlet 135 Degrees CW from inlet

**I = Design**

20	=	Design Code
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**J = Rotation**

L	=	Left Hand Rotation
Omitted	=	Right Hand Rotation



**CRS Service Inc.**

1986 Rochester Industrial Dr., Rochester Hills, Michigan 48309 Phone 248-652-9940 Fax 248-652-9946  
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For more information or to place an order call 800-521-2628

# CRS4520VQ FIXED DOUBLE VANE PUMP PARTS LIST

CRS4520VQ\*\*A\*\*-\*\*-20

List Price New \$1949.00 Reman \$1769.00

Core Credit (included in price) - Complete Pump \$160.00 45VQ Cart Kit \$20 Ring \$12.00 25VQ CART KIT \$10.00 RING \$7.50

NOTE: Add \$80.00 to List Price for Viton

Cartridge Kits and Parts								
All CRS Cartridge Kits come complete with Cartridge Kit Seals								
Description	New Cart Kit Part #	New List Price	Reman Cart Kit Part #	Reman List Price	New Ring Part #	New List Price	Reman Ring Part#	Reman List Price
45**VQ42 GPM	3416435	\$788.25	R416435	\$668.25	3297510	\$287.75	R297510	\$152.88
45**VQ50 GPM	3416436	\$788.25	R416436	\$668.25	3297502	\$287.75	R297502	\$152.88
45**VQ57 GPM	3421233	\$788.25	R421233	\$668.25	3306772	\$287.75	R306772	\$152.88
45**VQ60 GPM	3416437	\$788.25	R416437	\$668.25	3297503	\$287.75	R297503	\$152.88
**20VQ***5 GPM	3417053	\$396.75	R417053	\$328.00	3333624	\$163.00	R333624	\$76.96
**20VQ***8 GPM	3417054	\$396.75	R417054	\$328.00	3333625	\$163.00	R333625	\$76.96
**20VQ***11 GPM	3416427	\$396.75	R416427	\$328.00	3333626	\$163.00	R333626	\$76.96
**20VQ***12 GPM	3416428	\$396.75	R416428	\$328.00	3353901	\$163.00	R353901	\$76.96
**20VQ***14 GPM	3416429	\$396.75	R416429	\$328.00	3353902	\$163.00	R353902	\$76.96
Rotor				Vane Kit				
Description	Part #	List Price			Description	Part#	List Price	
45VQ Rotor All Sizes	3283871	\$426.50			45VQ Vane Kit All Sizes	3922701	\$209.00	
20VQ 5 & 8	3402690	\$254.25			20VQ 5 & 8	3922741	\$155.75	
20VQ 11 - 14	3403539	\$258.25			20VQ 11 - 14	3922743	\$155.75	
Shafts								
Description	Part#	List Price	Description	Part#	List Price	Description	Part#	List Price
1	3255533	\$15.250	28	258227*	POR	114	3413436	\$148.00
3	255534*	POR	52	421981*	POR	115	3413437	\$163.00
6	255535*	POR	56	323570*	POR	130	3432702	POR
11	3255536	\$188.50	86	3361761	\$201.50	179	502212*	POR
13	254981*	POR	108	409312*	POR	* Indicates items not available in CRS Brand, please call your CRS Sales Representative for Price and Availability.		
Seal Kit			Shaft Seal			Shaft Bearings		
Description	Part#	List Price	Description	Part#	List Price	Description	Part#	List Price
Single Shaft Seal Buna	3920060	\$44.08	Sft Seal Buna	3394974	\$6.15	Std. Bearing	3131812	\$17.50
Single Shaft Seal Viton	3920062	\$87.13	Sft Seal Viton #1 Single Seal	3429285	\$12.04			
Double Shaft Seal Buna	3920061	\$57.56	Sft Seal Viton #2 Second Seal	3429282	\$14.09			
Double Shaft Seal Viton	3920063	\$101.27						



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**CRS4520VQ FIXED DOUBLE VANE PUMP (CONTINUED)**

Shaft End Body			Center Section			Port End Cover		
Description	Part#	List Price	Description	Part#	List Price	Description	Part#	List Price
CODE A	3942356	\$223.50	CODE A	3252283	\$384.00	CODE A	3250824	\$90.25
CODE E	3942356	\$223.50	CODE E	3252283	\$384.00	CODE E	3252504	\$93.25
Miscellaneous Parts								
Description	Part #	List Price	Description	Part#	List Price	Description	Part#	List Price
Washer	3194878	\$2.36	Ret. Ring Br/Sft	3102949	\$2.20			
Spirolox Ring	3158630	\$2.31	Cov Bolts	3001296	\$2.05			
Bolt (4 Req.)	3087947	\$15.38	Foot Bracket	CRSFB-C-10 Reman	\$166.05			
45VQ Flex Plate Kit	3923954	\$188.50	20VQ Flex Plate Kit	3923955	\$120.50			
Flange	CRSFL1-12-12P-10	\$50.23	Flange	CRSFL1-06-06P-10	\$34.85			
Flange	CRSFL1-28-28W-10	POR	Foot Bracket	FB-C-10*	POR			

\* Indicates items not available in CRS Brand, please call your CRS Sales Representative for Price and Availability.



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