

Genuine Metaris VQ Series Cartridge Kits

Durable, Reliable and Totally Interchangeable



If it's Cartridge Kits You're Looking For...

We manufacture and stock a full-line of industrial, mobile & high pressure vane pump cartridge kits. Compatible with our MV and MVQ series pumps and other similar designed pumps in the market, such as Vickers® V and VQ series components. Metaris cartridge kits are high in performance, durability and reliability. We also offer a wide range of components including shafts, rotors, vanes, seals & bearings.

Our parts are not only directly interchangeable in performance and installation with the OEM units, but also offer a significant price and lead time advantage. Not to mention, our extensive inventories assure you prompt shipping to any place in the world.

- Industrial, Mobile & High Pressure Kits available
- Significant price & lead time advantage
- 20V/VQ - 5/8/9/11/12/14 gpm
- 25V/VQ - 12/14/17/19/21 gpm
- 30V/VQ - 24/28 gpm
- 35V/VQ - 21/25/30/35/38 gpm
- 45V/VQ - 42/47/50/57/60 gpm
- Series V10/V20/ V2010/ V2020/ VTM42
- High Pressure kits available for 35V/VQH - 35/38 gpm and 45V/VQH - 50/57/60 gpm
- Interchange with V/VQ Series components



VQ Series Replacement Cartridge Kits

20VQ SERIES

Part Number	Description	Vickers #
MPN000101	20VQ05 gpm	417053
MPN000102	20VQ05 gpm - Viton	421588
MPN000103	20VQ08 gpm	417054
MPN000104	20VQ08 gpm - Viton	421589
MPN000105	20VQ09 gpm	423096
MPN000106	20VQ09 gpm - Viton	423097
MPN000107	20VQ11 gpm	416427
MPN000108	20VQ11 gpm - Viton	423097
MPN000109	20VQ12 gpm	416428
MPN000110	20VQ12 gpm - Viton	421590
MPN000111	20VQ14 gpm	416429
MPN000112	20VQ14 gpm - Viton	421592

*Rotation must be specified when ordering
*Also available without bushing

20VQ Series Specifications	6 lbs	5	8	11	12	14
Displacement	Cu.in./rev.	1.1	1.7	2.2	2.4	2.8
	(cc/rev.)	(18)	(27)	(36)	(39)	(46)
Max. Pressure	Cont. psi	3000	3000	3000	2300	2000
	(Bar)	(206)	(206)	(206)	(159)	(138)
Min. Speed	Below 1000 psi	600	600	600	600	600
	Above 1000 psi	1000	1000	1000	1000	1000
Max. Speed	RPM	2700	2700	2700	2700	2700
Typical Flow at Max. Speed & Pressure	GPM	11	17	23	23	30
	(Liters/Min)	(43)	(64)	(86)	(86)	(114)
Typical Flow at Max. Speed & Pressure	HP	24	35	48	38	39
	(Kw)	(18)	(26)	(35)	(28)	(29)

25VQ SERIES

Part Number	Description	Vickers #
MPN000113	25VQ12 gpm	416439
MPN000114	25VQ12 gpm - Viton	421570
MPN000115	25VQ14 gpm	416440
MPN000116	25VQ14 gpm - Viton	421571
MPN000119	25VQ17 gpm	416441
MPN000120	25VQ17 gpm - Viton	421572
MPN000123	25VQ19 gpm	421232
MPN000124	25VQ19 gpm - Viton	421573
MPN000127	25VQ21 gpm	416442
MPN000128	25VQ21 gpm - Viton	421574

*Rotation must be specified when ordering
*Also available without bushing

25VQ Series Specifications	8 lbs	12	14	17	19	21
Displacement	Cu.in./rev.	2.4	2.8	3.4	3.7	4.1
	(cc/rev.)	(40)	(45)	(55)	(60)	(68)
Max. Pressure	Cont. psi	3000	3000	3000	2300	2000
	(Bar)	(206)	(206)	(206)	(159)	(138)
Min. Speed	Below 1000 psi	600	600	600	600	600
	Above 1000 psi	1000	1000	1000	1000	1000
Max. Speed	RPM	2700	2700	2500	2500	2500
Typical Flow at Max. Speed & Pressure	GPM	23	27	231	35	38
	(Liters/Min)	(87)	(102)	(117)	(133)	(144)
Typical Flow at Max. Speed & Pressure	HP	55	63	70	76	83
	(Kw)	(41)	(47)	(52)	(57)	(62)

VQ SERIES COMPONENTS

Bearings

Series	Part #	Vickers #
20V Std.	MPN001500	98574
25V Std.	MPN001501	1705
26V HD.	MPN001502	232750
35V Std.	MPN001504	38441
36V HD.	MPN039778	239092
45V Std.	MPN001503	131812

Rotors

Series	Part #	Vickers #
20VQ (Short)	MPN000401	402690
20VQ	MPN000402	403539
25VQ	MPN000403	270597
30VQ	MPN000408	262152
35VQ	MPN000404	262154
45VQ	MPN000405	283871

Vane Kits

Series	Part #	Vickers #
20VQ (L)	MPN000701	922741
20VQ	MPN000702	922743
25VQ	MPN000703	922710
30VQ	MPN000704	922648
35VQ	MPN000705	922700
45VQ	MPN000706	922701

35VQ SERIES

Part Number	Description	Vickers #
MPN000134	35VQ21 gpm	413420
MPN000163	35VQ21 gpm - Viton	-
MPN000135	35VQ25 gpm	413421
MPN000136	35VQ25 gpm - Viton	421583
MPN000139	35VQ30 gpm	413422
MPN000140	35VQ30 gpm - Viton	421584
MPN000143	35VQ35 gpm	413418
MPN000144	35VQ35 gpm - Viton	421585
MPN000147	35VQ38 gpm	413419
MPN000148	35VQ38 gpm - Viton	421586

*Rotation must be specified when ordering

*Also available without bushing

35VQ Series Specifications	14 lbs	21	25	30	35	38
Displacement	Cu.in./rev.	4.1	5.0	6.0	6.9	7.4
	(cc/rev.)	(68)	(82)	(98)	(113)	(122)
Max. Pressure	Cont. psi	3000	3000	3000	2300	2000
	(Bar)	(206)	(206)	(206)	(159)	(138)
Min. Speed	Below 1000 psi	600	600	600	600	600
	Above 1000 psi	1000	1000	1000	1000	1000
Max. Speed	RPM	2500	2500	2500	2400	2400
Typical Flow at Max. Speed & Pressure	GPM	38	45	55	60	65
	(Liters/Min)	(144)	(170)	(208)	(227)	(246)
Typical Flow at Max. Speed & Pressure	HP	83	101	118	132	140
	(Kw)	(62)	(75)	(88)	(98)	(104)

45VQ SERIES

Part Number	Description	Vickers #
MPN000151	45VQ42 gpm	416435
MPN030200	45VQ42 gpm - Viton	419511
MPN000153	45VQ47 gpm	421234
MPN030205	45VQ47 gpm - Viton	421954
MPN000155	45VQ50 gpm	416436
MPN030210	45VQ50 gpm - Viton	419510
MPN000157	45VQ57 gpm	421233
MPN030215	45VQ57 gpm - Viton	421955
MPN000159	45VQ60 gpm	416437
MPN030220	45VQ60 gpm - Viton	419509

*Rotation must be specified when ordering

*Also available without bushing

45VQ Series Specifications	22 lbs	42	47	50	60
Displacement	Cu.in./rev.	8.5	9.0	9.9	11.8
	(cc/rev.)	(139)	(147)	(162)	(193)
Max. Pressure	Cont. psi	2500	2500	2500	2500
	(Bar)	(172)	(172)	(172)	(172)
Min. Speed	Below 1000 psi	600	600	600	600
	Above 1000 psi	1000	1000	1000	1000
Max. Speed	RPM	2200	2200	2200	2200
Typical Flow at Max. Speed & Pressure	GPM	67	71	79	96
	(Liters/Min)	(252)	(269)	(299)	(363)
Typical Flow at Max. Speed & Pressure	HP	123	131	141	170
	(Kw)	(91)	(98)	(105)	(127)

Cam Rings

Series	Part #	Vickers #	Series	Part #	Vickers #	Series	Part #	Vickers #
20VQ05	MPN000451	333624	25VQ17	MPN000459	326986	35VQ38	MPN000471	319399
20VQ08	MPN000452	333625	25VQ19	MPN000460	326987	45VQ42	MPN000472	297510
20VQ11	MPN000454	333626	25VQ21	MPN000461	326988	45VQ47	MPN000473	297718
20VQ12	MPN000455	353901	35VQ21	MPN000467	394961	45VQ50	MPN000474	297502
20VQ14	MPN000456	353902	35VQ25	MPN000468	319396	45VQ57	MPN000475	306772
25VQ12	MPN000457	326984	35VQ30	MPN000469	319397	45VQ60	MPN000476	297503
25VQ14	MPN000458	326985	35VQ35	MPN000470	319398			

VQ SERIES COMPONENTS CONT.

Flex Plate Kits

Series	Part #	Description	Vickers #
20VQ	MPN-00345		923955
25VQ	MPN-00346		923956
30VQ	MPN-00349		923956
35VQ	MPN-00347		923953
45VQ	MPN-00348		923954

Seal Kits

Series	Part #	Description	Vickers #
20VQ	MPN-02500	Seal Pack*	433762
25VQ	MPN-02501	Single Seal Kit	920021
	MPN-02502	Single Seal Kit - Viton	920023
	MPN-02503	Double Seal Kit	920022
	MPN-02504	Double Seal Kit - Viton	920024
	MPN-02505	Seal Pack*	433764
35VQ	MPN-02510	Single Seal Kit	920015
	MPN-02511	Single Seal Kit - Viton	920029
	MPN-02512	Double Seal Kit	920016
	MPN-02513	Double Seal Kit - Viton	920030
	MPN-02514	Seal Pack*	433766
45VQ	MPN-02515	Single Seal Kit	920025
	MPN-02516	Single Seal Kit - Viton	920027
	MPN-02517	Double Seal Kit	920026
	MPN-02518	Double Seal Kit - Viton	920028
	MPN-02519	Seal Pack*	433768

*Seal Pack includes retainer and o-ring

Note: All double seal kits include primary & secondary shaft seals.

Seal Kits Cont.

Series	Part #	Description	Vickers #
2520VQ	MPN-02520	Single Seal Kit	920040
	MPN-02521	Single Seal Kit - Viton	920042
	MPN-02522	Double Seal Kit	920041
	MPN-02523	Double Seal Kit - Viton	920043
3520VQ	MPN-02530	Single Seal Kit	920048
	MPN-02531	Single Seal Kit - Viton	920050
	MPN-02532	Double Seal Kit	920049
	MPN-02533	Double Seal Kit - Viton	920051
3525VQ	MPN-02535	Single Seal Kit	920056
	MPN-02536	Single Seal Kit - Viton	920058
	MPN-02537	Double Seal Kit	920057
	MPN-02538	Double Seal Kit - Viton	920059
4520VQ	MPN-02550	Single Seal Kit	920060
	MPN-02551	Single Seal Kit - Viton	920062
	MPN-02552	Double Seal Kit	920061
	MPN-02553	Double Seal Kit - Viton	920063
4525VQ	MPN-02554	Single Seal Kit	920068
	MPN-02555	Single Seal Kit - Viton	920070
	MPN-02556	Double Seal Kit	920069
	MPN-02557	Double Seal Kit - Viton	920071
4535VQ	MPN-02558	Single Seal Kit	920072
	MPN-02559	Single Seal Kit - Viton	920074
	MPN-02560	Double Seal Kit	920073
	MPN-02561	Double Seal Kit - Viton	920075

*Seal Pack includes retainer and o-ring

Note: All double seal kits include primary & secondary shaft seals.



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