

KDG, KFDG, KBDG and KBFDG 3F fine metering spools conversion

August 2025

Vickers by Danfoss

AxisPro Proportional Valves

Vickers by Danfoss has developed a new low flow fine metering spool that uses a simplified production process and lowers the overall cost of the valve. Over time we plan to phase out all valves with the 3F spool version and replace them with valves with the 3N spool version.

The following model codes are affected:

KDG4V-3-2C03F-*-*M-U-***-**7-60

KDG4V-3-33C03F-*-*M-U-***-**7-60

KBDG4V-3-2C03F-*-*M-U-***-**7-11

KBDG4V-3-33C03F-*-*M-U-***-**7-11

KFDG4V-3-2C03F-*-*M-U-***-**7-20

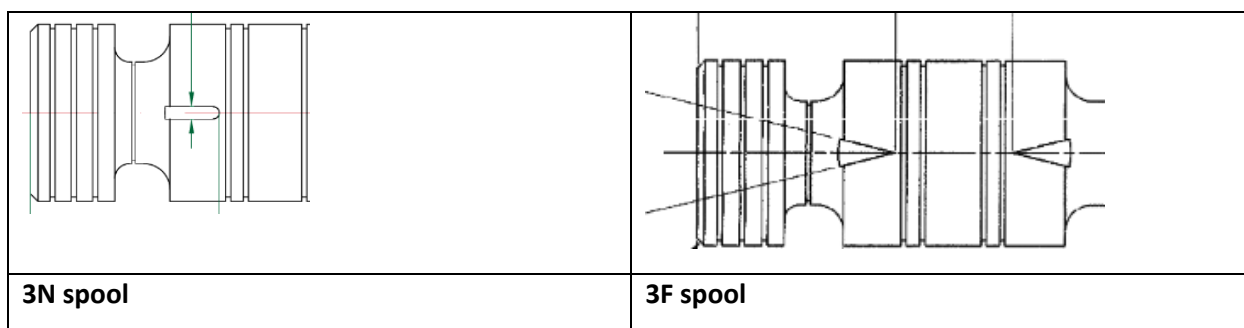
KFDG4V-3-33C03F-*-*M-U-***-**7-20

KBFDG4V-3-2C03F-*-*M-U-***-**7-12

KBFDG4V-3-33C03F-*-*M-U-***-**7-12

Technical background:

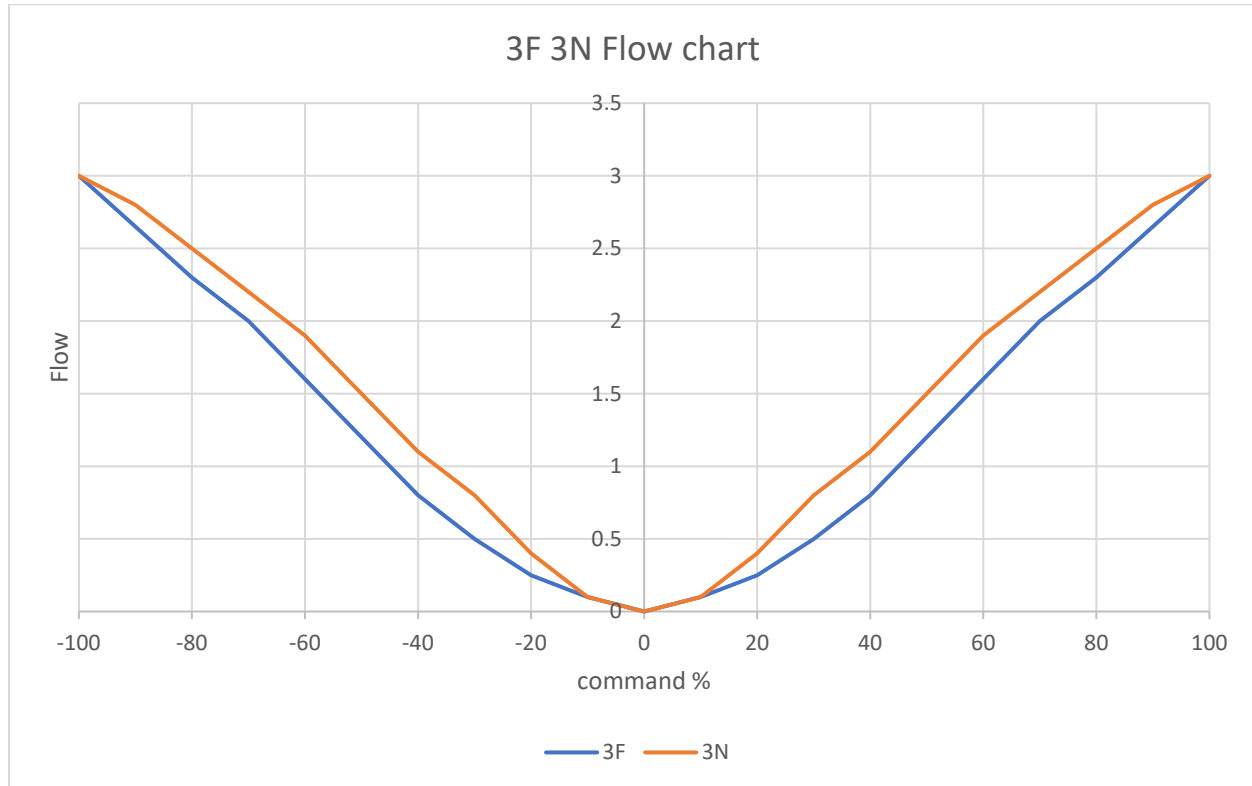
With the machining technology upgrading, a new 3N spool design is launched by leveraging the advantages of speeding up the production process, so the current design of 3F spool which was produced by more complex manufacturing processes will be replaced.



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In comparison we can achieve a similar Command to Flow performance.



Flow comparison 3F to 3N

Update procedure:

The following conversion table should offer a 3N version of the valve that should replace the 3F valve version that was used previously. We encourage you to switch to the new 3N version to take advantage of the cost savings (details please see the new product series list price in Powersource)

If there are technical reasons why an application needs to stay with the 3F spool, please contact imcproductupport@danfoss.com. Short and medium term the 3F version will not be made obsolete, but we expect the cost for these versions to rise further.

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Conversion table

Part number	Model code	Part number	Model code
02-332368	KFDG4V-3-33C03F-Z-M-U1-H7-20	12038705	KFDG4V-3-33C03N-Z-M-U1-H7-20
02-108022	KFDG4V 3 2C03F Z VM-U1 H7-20	12038364	KFDG4V-3-2C03N-Z-VM-U1-H7-20
02-332767	KFDG4V 3 2C03F Z M U1-H7-20	12038703	KFDG4V-3-2C03N-Z-M-U1-H7-20
02-146926	KDG4V3-33C03F-Z-M-U-H7-60	12038645	KDG4V3-33C03N-Z-M-U-H7-60
02-359010	KDG4V3-33C03F-M-U-G7-60	12009843	KDG4V3-33C03N-M-U-G7-60
02-310927	KDG4V3-33C03F-H-M-U-HA7-60	12038698	KDG4V3-33C03N-H-M-U-HA7-60
02-311985	KDG4V3-33C03F-H-M-U-H7-60	12038273	KDG4V3-33C03N-H-M-U-H7-60
02-323371	KDG4V3-2C03F-Z-VM-U-H7-60	12038706	KDG4V3-2C03N-Z-VM-U-H7-60
02-146924	KDG4V3-2C03F-Z-M-U-H7-60	12038644	KDG4V3-2C03N-Z-M-U-H7-60
02-319371	KDG4V3-2C03F-M-U-H7-60	12009841	KDG4V-3-2C03N-M-U-H7-60
02-332128	KDG4V3-2C03F-H-M-U-H7-60	12038380	KDG4V3-2C03N-H-M-U-H7-60
12008504	KBFDG4V-3-33C03N-Z-M2-PC7-H7-12	12008504	KBFDG4V-3-33C03N-Z-M2-PC7-H7-12
12008495	KBFDG4V-3-33C03N-Z-M1-PC7-H7-12	12008495	KBFDG4V-3-33C03N-Z-M1-PC7-H7-12
858AN00079A	KBFDG4V-3-33C03F-Z-M2-PH7-H7-12	12038646	KBFDG4V-3-33C03N-Z-M2-PH7-H7-12
858AN00060A	KBFDG4V-3-33C03F-Z-M1-PE7-H7-12	12038294	KBFDG4V-3-33C03N-Z-M1-PE7-H7-12
858AN00085A	KBFDG4V-3-2C03F-Z-M2-PH7-H7-12	12038652	KBFDG4V-3-2C03N-Z-M2-PH7-H7-12
858AN00055A	KBFDG4V-3-2C03F-Z-M2-PE7-H7-12	12038281	KBFDG4V-3-2C03N-Z-M2-PE7-H7-12
858AN00087A	KBFDG4V-3-2C03F-Z-M2-PC7-H7-12	12038704	KBFDG4V-3-2C03N-Z-M2-PC7-H7-12
858AN00132A	KBFDG4V-3-2C03F-Z-M1-PH7-H7-12	12038293	KBFDG4V-3-2C03N-Z-M1-PH7-H7-12
858AN00069A	KBFDG4V-3-2C03F-Z-M1-PE7-H7-12	12038229	KBFDG4V-3-2C03N-Z-M1-PE7-H7-12
855AN00053A	KBDG4V-3-33C03F-Z-M1-PE7-H7-11	12038282	KBDG4V-3-33C03N-Z-M1-PE7-H7-11
855AN00097A	KBDG4V-3-33C03F-M2-PE7-H7-11	12038374	KBDG4V-3-33C03N-M2-PE7-H7-11
855AN00132A	KBDG4V-3-33C03F-M1-PH7-H7-11	12038647	KBDG4V-3-33C03N-M1-PH7-H7-11
855AN00048A	KBDG4V-3-33C03F-H-M1-PE7-H7-11	12038700	KBDG4V-3-33C03N-H-M1-PE7-H7-11
855AN00046A	KBDG4V-3-2C03F-Z-M2-PE7-H7-11	12038649	KBDG4V-3-2C03N-Z-M2-PE7-H7-11
855AN00026A	KBDG4V-3-2C03F-Z-M2-PC7-H7-11	12038702	KBDG4V-3-2C03N-Z-M2-PC7-H7-11
855AN00022A	KBDG4V-3-2C03F-Z-M1-PE7-H7-11	12038271	KBDG4V-3-2C03N-Z-M1-PE7-H7-11
855AN00011A	KBDG4V-3-2C03F-M2-PE7-H7-11	12009846	KBDG4V-3-2C03N-M2-PE7-H7-11
855AN00038A	KBDG4V-3-2C03F-M1-PE7-H7-11	12009847	KBDG4V-3-2C03N-M1-PE7-H7-11
855AN00123A	KBDG4V-3-2C03F-M1-PC7-H7-11	12038350	KBDG4V-3-2C03N-M1-PC7-H7-11
855AN00128A	KBDG4V-3-2C03F-H-M2-PE7-H7-11	12038373	KBDG4V-3-2C03N-H-M2-PE7-H7-11