

Cross reference

Vickers® by Danfoss

Proportional Directional Valve Family —

with On-Board Electronics (OBE)

Key Benefits



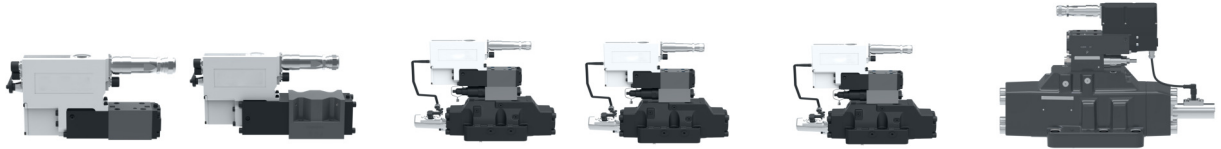
- Great product portfolio breadth and depth
- Three performance levels, Standard, High, and Servo
- With and without On-Board Electronics (OBE)
- Complete size from D03-D10 (NG6-NG32)

- IP 65 & 67 environmental protection (best in class)
- Valve enable function
- Ramp adjustment on KBDG, KBFDG5V, KBX(C)G, and KBCG
- $\pm 10V$ & 4-20 mA command input

- Industrial networks available on selected models

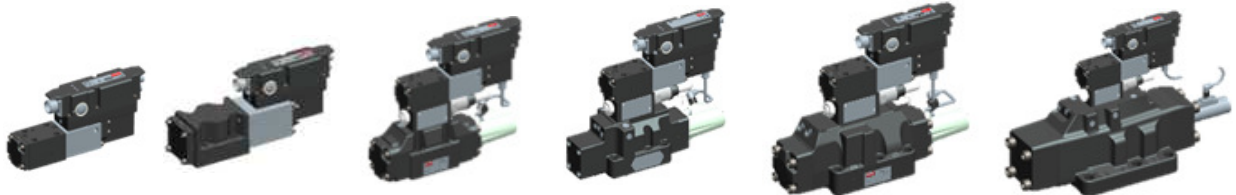
Servo Performance Valve with Spool Feedback

Closed loop control options
Communications options



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers® by Danfoss	KBS2-03	KBS2-05	KBH2-05	KBH2-07	KBH2-08	KBH2-10
Bosch-Rexroth®			4WRTE-10	4WRTE-16	4WRTE-25	4WRTE-32
Bosch-Rexroth®	4WRRE-6	N/A	4WRVE-10	4WRVE-16	4WRVE-25	N/A
Bosch-Rexroth®	4WRPEH-6	4WRPEH-10	4WRLE-10	4WRLE-16	4WRLE-25	4WRLE-35*
Parker®	D1FH	D3FH	D31FH	D41FH	D91FH	D111FH*
Atos®	DLHZOTE0	DLKZORTE1	DPZOLE1	DPZOLE2	DPZOLE3	DPZOLE6
Moog®	D636	D637	D681**	D682**	D683**	D685**†

Servo Performance Valve with Spool Feedback and configuration options



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KBSD14-03	KBSD14-05	KBHD15-05	KBHD15-07	KBHD15-08	KBHD15-10
Bosch-Rexroth			4WRTE-10	4WRTE-16	4WRTE-25	4WRTE-32
Bosch-Rexroth	4WRRE-6	N/A	4WRVE-10	4WRVE-16	4WRVE-25	N/A
Bosch-Rexroth	4WRPEH-6	4WRPEH-10	4WRLE-10	4WRLE-16	4WRLE-25	4WRLE-35*
Parker	D1FP	D3FP	D31FP	D41FP	D91FP	D111FP*
Atos	DLHZOTE0	DLKZORTE1	DPZOLE1	DPZOLE2	DPZOLE3	DPZOLE6
Moog	D636	D637	D681**	D682**	D683**	D685**†

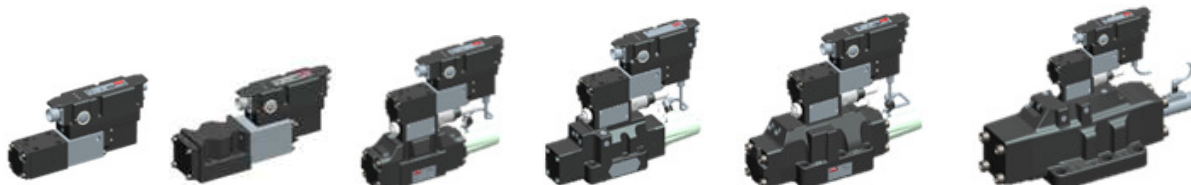
Proportional Directional Valve Family — with On-Board Electronics (OBE)



Key Benefits

- Great product portfolio breadth and depth
- Three performance levels, Standard, High, and Servo
- With and without On-Board Electronics (OBE)
- Complete size from D03-D10 (NG6-NG32)
- IP 65 & 67 environmental protection (best in class)
- Valve enable function
- Ramp adjustment on KBDG, KBFDG5V, KBX(C)G, and KBCG
- $\pm 10V$ & 4-20 mA command input
- CANBUS available on KBDG, KBFDG5V, KBCG and KBX(C)G (on request)
- Compact OBE valve design

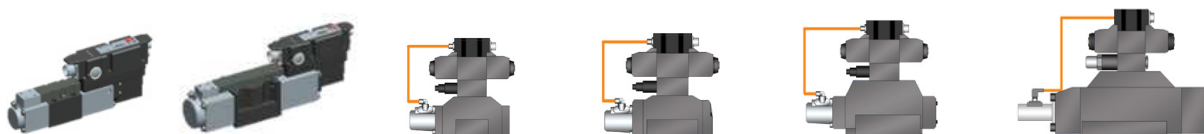
Servo Performance Valve with Dual Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KBSD14-03	KBSD14-05	KBHD15-05	KBHD15-07	KBHD15-08	KBHD15-10
Bosch-Rexroth			4WRTE-10	4WRTE-16	4WRTE-25	4WRTE-32
Bosch-Rexroth	4WRRE-6	N/A	4WRVE-10	4WRVE-16	4WRVE-25	N/A
Bosch-Rexroth	4WRPEH-6	4WRPEH-10	4WRLE-10	4WRLE-16	4WRLE-25	4WRLE-35*
Parker	D1FP	D3FP	D31FP	D41FP	D91FP	D111FP*
Atos	DLHZOTE0	DLKZORTE1	DPZOLE1	DPZOLE2	DPZOLE3	DPZOLE6
Moog	D936	D937	D681**	D682**	D683**	D685**†

*Nominal flow 1000 lpm, **Check actual dynamic performance requirement, † nominal flow 1000 lpm

High Performance Valve with Single Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KBFDG4-03	KBFDG4-05	KBFDG5V-5	KBFDG5V-7	KBFDG5V-8	KBFDG5V-10
Bosch-Rexroth	4WREE-6	4WREE-10	4WRKE-10	4WRKE-16	4WRKE-25	4WRKE-32
Bosch-Rexroth	4WRPE-6	4WRPE-10	DSP-10	DSP-16	DSP-25	DSP-32*
Bosch-Rexroth	4WRSE-6	4WRSE-10				
Parker	D1FC	D3FC	D31FC	D41FC	D91FC	D111FC
Atos	DHZOTE0	DKZORTE1	DPZOTE1	DPZOTE2	DPZOTE3	DPZOTE6
Moog	D926	D927	N/A	N/A	N/A	N/A

*Nominal flow 1000 lpm

Standard Performance Valve without Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KBDG4V-3	KBDG4V-5	KBDG5V-5	KBDG5V-7	KBDG5V-8	KBDG5V-10
Bosch-Rexroth	4WRAE-6	4WRAE-10	4WRZE-10	4WRZE-16	4WRZE-25	4WRZE-32
Parker	D1FB	D3FB	D31FB	D41FB	D91FB	D111FB*
Atos	DHZOAE0	DKZORAE1	DPZOAE1	DPZOAE2	DPZOAE3	DPZOAE6
Moog	N/A	N/A	N/A	N/A	N/A	N/A

* Nominal flow 1000 lpm

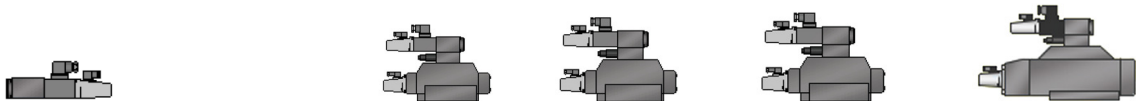
Proportional Directional Valve Family — with On-Board Electronics (OBE)



Primary Markets

- **Machine Tools**
■ **Molding**
Plastics
Die Casting
Rubber
Foundry
Ceramics
- **Metal Working**
Press
Baler
Shear & Cutting
Forming
Tube Bending
■ **Primary Metal**
Ferrous
Non-Ferrous
- **Processing**
Wood Product
Pulp & Paper
Glass & Ceramics
■ **Power Generation**
Wind Turbine
Water Turbine
Steam Turbine
- **Civil Engineering**
■ **Entertainment**
■ **Test and Simulation**
■ **Offshore and Marine**
■ **Mobile**
Construction
Agriculture
Material Handling

Servo Performance Valve with Dual Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KSDG4V-3	N/A	KHDG5V-5	KHDG5V-7	KHDG5V-8	KHDG5V-10
Bosch-Rexroth	N/A	N/A	N/A	N/A	N/A	N/A
Bosch-Rexroth	4WRPH-6	4WRPH-10	4WRL-10	4WRL-16	4WRL-25	4WRL-35*
Parker	N/A	N/A	N/A	N/A	N/A	N/A
Atos	DLHZOT0	DLKZORT1	DPZOL1	DPZOL2	DPZOL3	DPZOL6
Moog	N/A	N/A	N/A	N/A	N/A	N/A

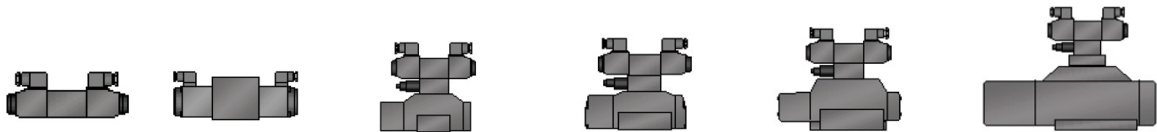
*Nominal flow 1000 lpm

High Performance Valve with Single Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KFDG4V-3	KFDG4V-5	N/A	N/A	N/A	
Bosch-Rexroth	4WRE-6	4WRE-10	4WRK-10	4WRK-16	4WRK-25	4WRK-32
Bosch-Rexroth	4WRP-6	4WRP-10	N/A	N/A	N/A	N/A
Parker	D1FC	D3FC	D31FS	D41FS	D91FS	D111FS*
Atos	DHZOT0	DKZORT1	DPZOT1	DPZOT2	DPZOT3	DPZOT6
Moog	N/A	N/AN/A	N/A	N/A	N/A	

Standard Performance Valve without Spool Feedback



Manufacturer	Single Stage D03/NG6	D05/NG10	Two Stage D05/NG10	D07/NG16	D08/NG25	D10/NG32
Vickers by Danfoss	KDG4V-3	KDG4V-5	KDG5V-5	KDG5V-7	KDG5V-8	KDG5V-10
Bosch-Rexroth	4WRA-6	4WRA-10	4WRZ-10	4WRZ-16	4WRZ-25	4WRZ-32
Parker	D1FB	D3FB	D31FB	D41FB	D91FB	D111FB
Atos	DHZOA0	DKZORA1	DPZOA1	DPZOA2	DPZOA3	DPZOA6
Moog	N/A	N/A	N/A	N/A	N/A	N/A

*Nominal flow 1000 lpm

Proportional Pressure Reducing Valves — with On-Board Electronics (OBE)



Key Benefits

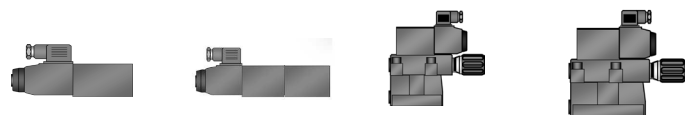
- Great product portfolio breadth and depth
- With and without On-Board Electronics (OBE)
- Flow range from 3 to 400 LPM
- IP 65 & 67 environmental protection (best in class)
- Valve enable function
- Ramp adjustment on KBDG, KBFDG5V, KBX(C)G, and KBCG
- ±10V & 4-20 mA command input
- Compact OBE valve design

Pressure reducing valves with OBE



Manufacturer	Single Stage D03/NG6	Two Stage D03/NG6	Size 6	Size 8
Vickers by Danfoss	KBCG-3	KBCG-5	KBCG-6	KBCG-8
Bosch-Rexroth	DBETEX	DBEE-6X	DBEME	DBEME
Bosch-Rexroth				
Bosch-Rexroth				
Parker	RE-06-T		R4V	R6V
Atos	RZMO-A	RZMO-AEB	AGRCZO-AEB	AGRCZO-AEB

Pressure reducing valves, Non-OBE



Manufacturer	Single Stage D03/NG6	Two Stage D03/NG6	Size 6	Size 8
Vickers by Danfoss	KCG-3	KCG-5	KCG-6	KCG-8
Bosch-Rexroth	DBETX	DBE-6X	DBEM	DBEM
Bosch-Rexroth				
Parker	RE06*M	VBY*K	R4V	R6V
Atos	RZME-A		AGMZO-AEB	AGMZO-AEB

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Parker is a trademark of the Parker-Hannifin Corporation
Atos is a trademark of Atos S.p.a
Moog is a trademark of Moog Inc.

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