

Glass tube variable area flowmeter DK800 N/R/PV custom scales

Purgemeter, accuracy 2.5% of MV (VDI), max. 100°C/212°F,

DK800 N/R/PV

N+R: max 10 bar/145 psig, PV: max 4 bar/58 psig

Instrument code			
VG 34 4	DK800	R	Stainless steel / custom scaled glass (SIL capable)
VG 34 4	DK800	N	Brass, Nickel-plated / custom scaled glass (SIL capable)
VG 41 4	DK800	PV	PVDF / custom scaled glass (not SIL capable)
Version			Price adder USD
4	R	St. Steel	0
5	R / RER	St. Steel flow regulator for variable inlet pressure	1,035
6	R / RAR	St. Steel flow regulator for variable outlet pressure	1,114
Version			Price adder USD
B	N	Brass, Nickel-plated	
C	N / REN	Brass, Nickel-plated, flow regulator for var. inlet press.	
D	N / RAN	Brass, Nickel-plated, flow regulator for var. outlet press.	
1	PV	Plastic PVDF	
Connection			Price adder USD
1	1/4" NPT		0
2	G 1/4		0
3	Swagelok 6	Stainless Steel	104
4	Swagelok 8	Stainless Steel	134
5	Swagelok 10	Stainless Steel	142
6	Swagelok 12	Stainless Steel	193
7	Gyrolok 6	Stainless Steel	125
8	Gyrolok 8	Stainless Steel	150
A	Serto 6	Stainless Steel	150
B	Serto 8	Stainless Steel	157
C	Ermeto 6	Polyamide	24
Connection			Price adder USD
F	Ermeto 6 S	Stainless Steel	
G	Ermeto 8 L	Stainless Steel	
L	Ermeto 12	Stainless Steel	
N	Hose conn. 4 mm	Nylon	
P	Hose conn. 6 mm	Brass	
R	Hose conn. 8 mm	Brass	
S	Hose conn. 6 mm	Stainless Steel	
T	Hose conn. 8 mm	Stainless Steel	
U	Hose conn. 6 mm	Polyamide	
Custom glass		appropriate switch	
0	w/o		0
1	9.442	15mm ring	0
2	9.443	15mm ring	0
3	9.444	15mm ring	0
4	9.445	15mm ring	0
5	9.498	3mm float	158
6	9.499	2mm float	158
7	9.557	10mm ring	0
8	9.698	15mm ring	0
A	9.845	15mm ring	0
B	9.846	15mm ring	0
C	9.904	10mm ring	0
D	9.905	10mm ring	0
E	9.906	10mm ring	0
F	9.907	10mm ring	0
G	9.908	15mm ring	0
H	9.909	15mm ring	0
Custom glass		appropriate switch	
0	w/o		0
1	9.1057	10mm ring	0
2	9.1060	10mm ring	0
3	9.1061	10mm ring	0
4	9.1062	15mm ring	0
5	9.1063	***	0
6	9.1064	10mm ring	0
7	9.1074	15mm ring	0
8	9.1123	2mm float	158
Float		Switch brand	
0	w/o		0
1	Stainless steel	none	0
2	Glass	none	0
4	Rubin	none	0
5	Titanium	none	0
6	Hard metall (6mm)	none	64
7	Hastelloy (for DK800PV)	none	64
Limit switch 10 mm		Recommended standard and SIL2 capable	
0	w/o		0
1	K 1 ring init. 10 mm	NAMUR monostable cable ends	261
2	K 1 ring init. 10 mm	NAMUR bistable cable ends / EMC	479
3	K 1 ring init. 10 mm	NAMUR monostable junction box	365
4	K 1 ring init. 10 mm	NAMUR bistable junction box /EMC	590
5	K 2 2 ring init. 10 mm	NAMUR monostable cable ends	519
6	K 2 2 ring init. 10 mm	NAMUR bistable cable ends / EMC	932
7	K 2 2 ring init. 10 mm	NAMUR monostable junction box	626
8	K 2 2 ring init. 10 mm	NAMUR bistable junction box /EMC	1045
M	K 1 ring init. 10 mm	NAMUR bistable cable ends, no EMC	419
N	K 2 2 ring init. 10 mm	NAMUR bistable cable ends, no EMC	840
Limit switch 15 mm		Recommended standard and SIL2 capable	
0	w/o		0
A	K 1 ring init. 15 mm	NAMUR monostable cable ends	
B	K 1 ring init. 15 mm	NAMUR bistable cable ends / EMC	
C	K 1 ring init. 15 mm	NAMUR monostable junction box	
D	K 1 ring init. 15 mm	NAMUR bistable junction box /EMC	
E	K 2 2 ring init. 15 mm	NAMUR monostable cable ends	
F	K 2 2 ring init. 15 mm	NAMUR bistable cable ends / EMC	
G	K 2 2 ring init. 15 mm	NAMUR monostable junction box	
H	K 2 2 ring init. 15 mm	NAMUR bistable junction box /EMC	
R	K 1 ring init. 15 mm	NAMUR bistable cable ends, no EMC	
S	K 2 2 ring init. 15 mm	NAMUR bistable cable ends, no EMC	
V	K 1 ring init. 15 mm	3-wire switch (bistable) cable ends	
W	K 2 2 ring init. 15 mm	3-wire switch (bistable) cable ends	
X	K 1 ring init. 15 mm	3-wire switch (bistable) junction box	
Glass gaskets DK800 N+R			
0	w/o		0
1	FPM with FPM/PTFE valve gaskets		0
2	FFKM with FFKM valve gaskets		265
3	PTFE/FFKM <= 250 NI/h air or <= 5 l/h water		95
3	PTFE/FFKM > 250 NI/h air or > 5 l/h water		177
4	EPDM with PTFE valve gaskets		65
Glass gaskets DK800 PV			
0	w/o		0
1	FPM with FPM/PTFE valve gaskets		0
2	FFKM with FFKM valve gaskets		0
3	FFKM with PTFE valve gaskets		0
4	EPDM with PTFE valve gaskets		0

(Bistable NAMUR switches require an EMC filter for safe function, not included in Option M,N,R,S)

Valve		Valve	
1 bottom valve (standard)	0	A top valve (recommended for gases)	
2 w/o valve / with bore + cap	0	B top valve with lock nut, w/o valve knob	
3 w/o valve / w/o bore	0	D bottom valve PEEK (≥ 2,5 mm spindle)	
4 bottom valve with lock nut, w/o valve knob	94	E top valve PEEK (> 2,5 mm spindle)	
		L bottom valve with non-return ball in head piece	
		M No valve, cap, with non-return ball in head piece (not DK800PV)	
Mounting options		Mounting options	
0 w/o	0	4 mounting bracket Aluminium for wall mounting	
1 panel mounting set	119	5 desk top mounting unit	
2 mounting support for later panel mounting retrofit	17	6 st.st. bracket for regulator for wall mounting (not DK800 PV)	
3 mounting support for later junction box retrofit	17	7 panel mount. set + mount. supp. for junction box retrofit	
Identification		Identification	
0 Standard	0	A paper tag (90x 45 mm)	
1 St. Steel plate (40 x 20 mm)	52	B St. Steel plate (40 x 20 mm) + paper tag	
2 St. Steel plate (120 x 46 mm)	76	C St. Steel plate (120 x 46 mm) + paper tag	
Switch amplifier for NAMUR switches		Switch amplifier for NAMUR switches	
0 w/o	0	4 KFA6-SR2-Ex2.W 230 V AC 2 channels	
1 KFA6-SR2-Ex1.W 230 V AC 1 channel	291	5 KFA5-SR2-Ex2.W 115 V AC 2 channels	
2 KFA5-SR2-Ex1.W 115 V AC 1 channel	422	6 KFD2-SR2-Ex2.W 24 V DC 2 channels	
3 KFD2-SR2-Ex1.W 24 V DC 1 channel	403		
Confirmation of accuracy / calibration certificate		Confirmation of accuracy / calibration certificate	
0 w/o	0	4 copy of calculation	
1 Confirmation of accuracy / calibration certificate	49	5 Confirmation of accuracy / calibration certificate + copy calculation	
2 5 pt. calibration certificate	175	6 5 pt. calibration certificate + copy of calculation	
Pressure- / leakage test		Pressure- / leakage test	
0 w/o	0	8 leakage test + insp. certif. 3.1	
4 pressure test + inspection certificate 3.1	153	D pressure- and leakage test + insp. certif. 3.1	
Positive material identification (for dP regulators only on housing parts)		Positive material identification (for dP regulators only on housing parts)	
- Feature PMI is not existing in VG41 DK800 PV	0	2 PMI of wetted, pressure bearing metal parts	
0 w/o	0	6 PMI of wetted, press.bear. met. parts + insp. certif. 3.1	
Ex approval / certificate of compliance		Ex approval / certificate of compliance	
0 w/o	0	1 2.1 (cert. of compliance) EN 10 204	
A ATEX II2G / II2D Ex-h mechanical	55	2 2.1 CoC + ATEX II2G / II2D Ex-h mechanical	
A ATEX II2G Ex-i electrical	55	2 2.1 CoC + ATEX II2G Ex-i electrical	
F SIL electrical (R+N, not PV)	55		
G SIL + ATEX II2G Ex-i electrical (R+N, not PV)	110	H 2.1 CoC + ATEX II2G Ex-i + SIL electrical (R+N, not PV)	
Final cleaning		Final cleaning	
0 w/o	0	N Final cleaning for oxygen services + 2.1 CoC	
K Final cleaning "Standard" + 2.1 CoC	125	P Final cleaning for oxygen services + 3.1 inspection certificate	
L Final cleaning "Standard" + 3.1 inspection certificate	178		
Design		Design	
0 KROHNE Standard	0	L EAC marking for Russia	
... Private Label Versions possible		M EAC marking for Kazakhstan	
		N EAC marking for Belarus	
Manual		Manual	
0 w/o	0	3 English	
1 German	0	4 French	

Standard scaled glass cones for air (20°C, 1.2 bar abs.) or water (20°C) see previous page

Special pricing for OEM customers (batches >50 pcs) to be asked at KMT



DK46 DK47 DK48

DK800
R: Stainless Steel
N: Brass
PV: Plastic



Top valve



Limit switch with junction box



panel mounting



Regulator (here: inlet pressure)