

STAINLESS STEEL, INLINE Quarter-Turn



The fitting S010 has the single paddle to detect the flow built in. This leads to a very leak proof construction, which we call the INLINE Quarter-Turn Technology. The switching point is transmitted contact free by a magnetic field. The detecting unit SE10 can be snapped-on or removed without opening the pipe of the process. The switching point can be set on the unit SE10.

Process Specifications

Pipe diameter	1/2" up to 2"
Temperatures	
Ambient	32 up to 131°F (0 up to 55° C)
Storage	32 up to 131°F (0 up to 55° C)
Fluid	32 up to 131°F (0 up to 55° C)
Materials	
Seal	FPM (standard) EPDM (on request)
Fitting	Stainless Steel (316L)
Screws	Stainless Steel (316L)
Pressure class	230 psi (PN16)
Measuring range	(see diagram)
Paddle (range 1)	1/2" 2.13 up to 2.95 f/s 3/4" 1.15 up to 1.80 f/s 1" 1.31 up to 1.97 f/s 1-1/4" 2.13 up to 2.95 f/s 1-1/2" 2.46 up to 3.28 f/s
Paddle (range 2)	1-1/4" 0.66 up to 0.98 f/s 1-1/2" 0.82 up to 1.48 f/s 2" 1.64 up to 1.97 f/s



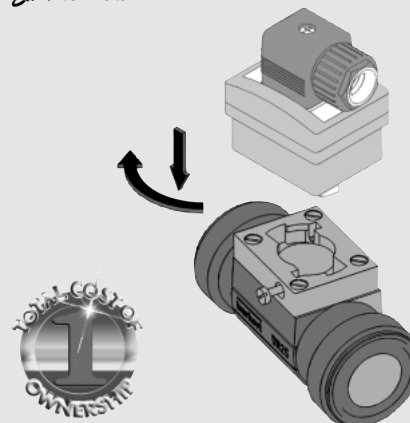
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Advantages/Benefits

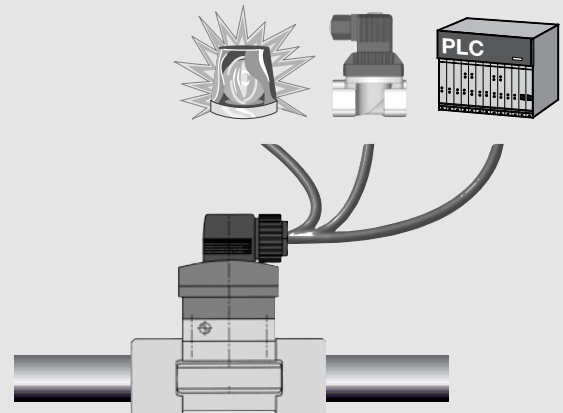
- ▶ **ON/OFF Control System for Monitoring and Switching in Combination with SE10 unit**
- ▶ **No Leakage due to Single Paddle inside the fitting (INLINE Quarter-Turn Technology)**
- ▶ **Contact Free Switching of Reed Contact by Magnetic Transmission**

Easy to install



Burkert Quarter Turn

Application: (together with SE10) Monitoring - Min./Max. Values



burkert
Easy Fluid Control Systems

Fitting for Magnetic Paddle Flow Sensor/Switch

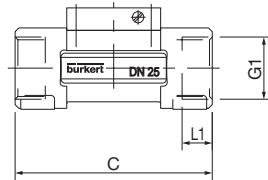
Type 8010-Stainless Steel

Specifications - Ordering Chart (Other Versions on Request)

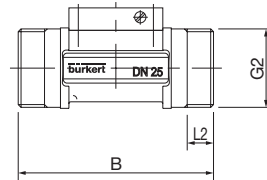
Description	Orifice DN [in]	Process Connection	Switching Range	Item No.
Stainless Steel (3.16L) Fitting World Wide				
• with internal threaded port connection				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	G 1/2	1	438 199 Z
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	G 3/4	1	438 200 N
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	G 1	1	438 201 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	G 1 1/4	1	438 202 C
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	G 1 1/2	1	438 203 D
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	G 1 1/4	2	438 205 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	G 1 1/2	2	438 206 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	G 2	2	438 207 H
• with external threaded port connection				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	G 3/4	1	438 226 T
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	G 1	1	438 227 U
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	G 1 1/4	1	438 228 D
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	G 1 1/2	1	438 229 E
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	M55 x 2	1	438 230 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	G 1 1/2	2	438 232 Z
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	M55 x 2	2	438 233 S
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	M64 x 2	2	438 234 T
• with weld ends				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	weld end	1	438 235 U
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	weld end	1	438 236 V
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	weld end	1	438 237 W
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	weld end	1	438 238 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	weld end	1	438 239 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	weld end	2	438 241 A
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	weld end	2	438 242 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	weld end	2	438 243 C
• with Tri-Clamp® connection (acc. to ISO 2852)				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	Tri-Clamp®	1	438 244 D
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	Tri-Clamp®	1	438 245 E
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	Tri-Clamp®	1	438 246 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	Tri-Clamp®	1	438 247 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	Tri-Clamp®	1	438 248 R
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	Tri-Clamp®	2	438 250 P
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	Tri-Clamp®	2	438 251 C
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	Tri-Clamp®	2	438 252 D
• with flange connection (acc. to DIN 2501)				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	DIN flange	1	438 253 E
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	DIN flange	1	438 254 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	DIN flange	1	438 255 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	DIN flange	1	438 256 H
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	DIN flange	1	438 257 A
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	DIN flange	2	438 259 L
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	DIN flange	2	438 260 R
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	DIN flange	2	438 261 E
Stainless Steel (3.16L) Fitting ASEAN				
• with internal threaded port connection (acc. to ISO 7)				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	Rc 1/2	1	438 217 S
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	Rc 3/4	1	438 218 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	Rc 1	1	438 219 C
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	Rc 1 1/4	1	438 220 H
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	Rc 1 1/2	1	438 221 W
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	Rc 1 1/4	2	438 223 Y
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	Rc 1 1/2	2	438 224 S
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	Rc 2	2	438 225 S
• with flange connection (acc. to JIS 10K)				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	JIS flange	1	438 271 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	JIS flange	1	438 272 H
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	JIS flange	1	438 273 A
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	JIS flange	1	438 274 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	JIS flange	1	438 275 C
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	JIS flange	2	438 277 E
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	JIS flange	2	438 278 P
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	JIS flange	2	438 279 Q
Stainless Steel (3.16L) Fitting NAFTA				
• with internal threaded port connection				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	NPT 1/2	1	438 208 J
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	NPT 3/4	1	438 209 K
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	NPT 1	1	438 210 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	NPT 1 1/4	1	438 211 U
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	NPT 1 1/2	1	438 212 V
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	NPT 1 1/4	2	438 214 X
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	NPT 1 1/2	2	438 215 Y
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	NPT 2	2	438 216 Z
• with flange connection (acc. to ANSI B16-5-1988)				
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1/2	ANSI flange	1	438 262 F
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	3/4	ANSI flange	1	438 263 G
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1	ANSI flange	1	438 264 H
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	ANSI flange	1	438 265 A
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	ANSI flange	1	438 266 B
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/4	ANSI flange	2	438 268 M
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	1-1/2	ANSI flange	2	438 269 N
Fitting with magnetic sensor switch paddle (PVDF) & gasket (FPM)	2	ANSI flange	2	438 270 K

Dimensions [mm] for Fittings - Stainless Steel

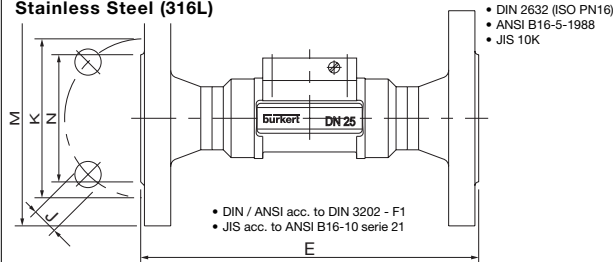
Fitting with internal threaded port connection G, Rc and NPT Stainless Steel (316L)



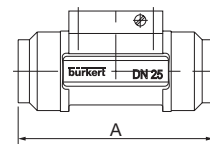
Fitting with external threaded port connection G Stainless Steel (316L)



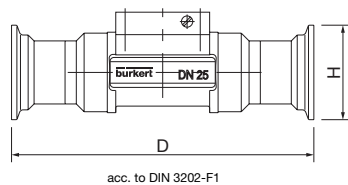
Fitting with flange connection DIN, ANSI and JIS Stainless Steel (316L)



Fitting with weld ends ISO 4200 Stainless Steel (316L)



Fitting with Tri-Clamp® connection Stainless Steel (316L) ISO 2852



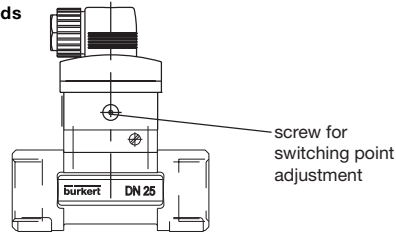
Example of type 8010 with internal threaded port connection (S010 + SE10)



Orifice DN	Internal Threaded Port			External Threaded Port			Flange connection		NORM	Weld Ends (Tube)				Tri-Clamp®					
	C	G1	L1	B	G2	L2	E	DIN / ANSI		JIS	J	N	K	M	ø	Wall	A	D	H
15	85.0	G 1/2	16.0	84.0	G 3/4	11.5	130.0	152.0	DIN	4 x 14.0	45.0	65.0	95.0	21.3	1.6	84.0	130.0	34.0	
15	85.0	NPT 1/2	17.0	84.0	G 3/4	11.5	130.0	152.0	ANSI	4 x 15.8	34.9	60.3	89.0	21.3	1.6	84.0	130.0	34.0	
15	85.0	Rc 1/2	15.0	84.0	G 3/4	11.5	130.0	152.0	JIS	4 x 15.0	51.0	70.0	95.0	21.3	1.6	84.0	130.0	34.0	
20	95.0	G 3/4	17.0	94.0	G 1	13.5	150.0	178.0	DIN	4 x 14.0	58.0	75.0	105.0	26.9	1.6	94.0	150.0	50.5	
20	95.0	NPT 3/4	18.3	94.0	G 1	13.5	150.0	178.0	ANSI	4 x 15.8	42.9	69.8	99.0	26.9	1.6	94.0	150.0	50.5	
20	95.0	Rc 3/4	16.3	94.0	G 1	13.5	150.0	178.0	JIS	4 x 15.0	56.0	75.0	100.0	26.9	1.6	94.0	150.0	50.5	
25	105.0	G 1	23.5	104.0	G 1 1/4	14.0	160.0	216.0	DIN	4 x 14.0	68.0	85.0	115.0	33.7	2.0	104.0	160.0	50.5	
25	105.0	NPT 1	18.0	104.0	G 1 1/4	14.0	160.0	216.0	ANSI	4 x 15.8	50.8	79.4	108.0	33.7	2.0	104.0	160.0	50.5	
25	105.0	Rc 1	18.0	104.0	G 1 1/4	14.0	160.0	216.0	JIS	4 x 19.0	67.0	90.0	125.0	33.7	2.0	104.0	160.0	50.5	
32	120.0	G 1 1/4	23.5	119.0	G 1 1/2	18.0	180.0	229.0	DIN	4 x 18.0	78.0	100.0	140.0	42.4	2.0	119.0	180.0	50.5	
32	120.0	NPT 1 1/4	21.0	119.0	G 1 1/2	18.0	180.0	229.0	ANSI	4 x 15.8	63.5	88.9	117.0	42.4	2.0	119.0	180.0	50.5	
32	120.0	Rc 1 1/4	21.0	119.0	G 1 1/2	18.0	180.0	229.0	JIS	4 x 19.0	76.0	100.0	135.0	42.4	2.0	119.0	180.0	50.5	
40	130.0	G 1 1/2	23.5	129.0	M55 x 2	19.0	200.0	241.0	DIN	4 x 18.0	88.0	110.0	150.0	48.3	2.0	129.0	200.0	64.0	
40	130.0	NPT 1 1/2	20.0	129.0	M55 x 2	19.0	200.0	241.0	ANSI	4 x 15.8	73.0	98.4	127.0	48.3	2.0	129.0	200.0	64.0	
40	130.0	Rc 1 1/2	19.0	129.0	M55 x 2	19.0	200.0	241.0	JIS	4 x 19.0	81.0	105.0	140.0	48.3	2.0	129.0	200.0	64.0	
50	150.0	G 2	27.5	149.0	M64 x 2	20.0	230.0	267.0	DIN	4 x 18.0	102.0	125.0	165.0	60.3	2.6	149.0	230.0	77.5	
50	150.0	NPT 2	24.0	149.0	M64 x 2	20.0	230.0	267.0	ANSI	4 x 19.0	92.1	120.6	152.0	60.3	2.6	149.0	230.0	77.5	
50	150.0	Rc 2	24.0	149.0	M64 x 2	20.0	230.0	267.0	JIS	4 x 19.0	96.0	120.0	155.0	60.3	2.6	149.0	230.0	77.5	

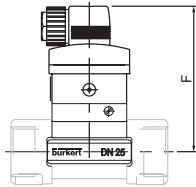
Dimensions [mm] for Fittings with Magnetic Sensor Paddle - Stainless Steel

Example:
Fitting with weld ends and SE10



Orifice DN [in]	Dimensions F [mm]
1/2	100.0
3/4	97.0
1	97.0
1-1/4	101.0
1-1/2	105.0
2	111.0

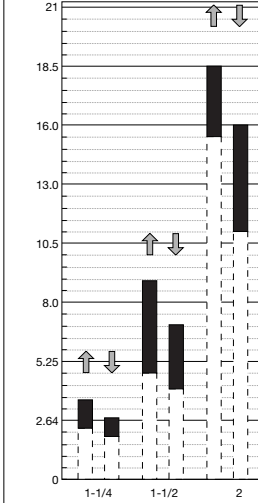
F = Center to Top



Switching Range Table for Fitting Stainless Steel

Switching Range 1
Q (gal/min)

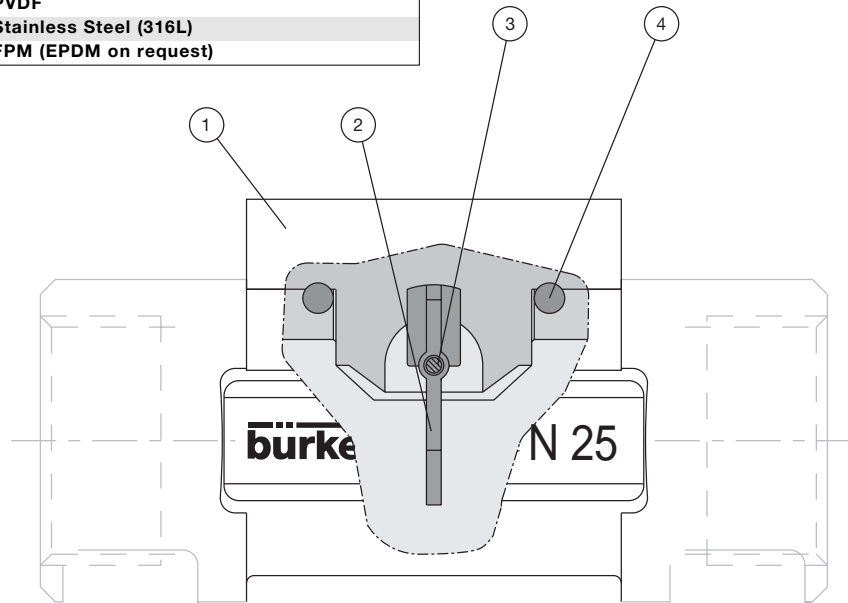
Switching Range 2
Q (gal/min)



Inner Materials of all Stainless Steel Fittings

Fitting with internal threaded port connection

1.	Body	Stainless Steel (316L)
2.	Paddle	PVDF
3.	Shaft	Stainless Steel (316L)
4.	O-Ring	FPM (EPDM on request)



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