

Plastic, INLINE "Turn & Lock"



The Type SO10 fitting has a single, built-in paddle (flipper) to detect the flow. The result is leak-proof construction, called INLINE "Turn & Lock" Technology.

The switching point is transmitted contact free by a magnetic field. The SE10 detecting unit can be snapped-on or removed without opening the process pipe. 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 (Viton) (standard)

EPDM (on request)

Fitting PVC, PP or PVDF

Screws 316L Stainless Steel

Pressure class 140 PSI (PN10)

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



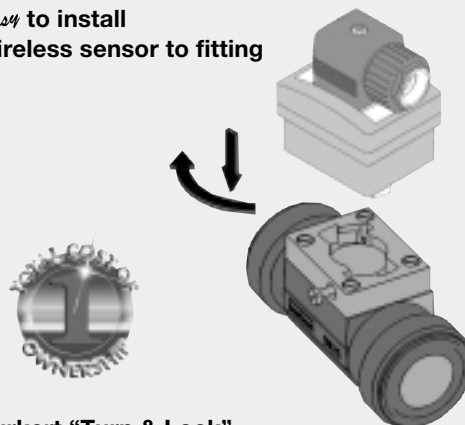
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Advantages/Benefits

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

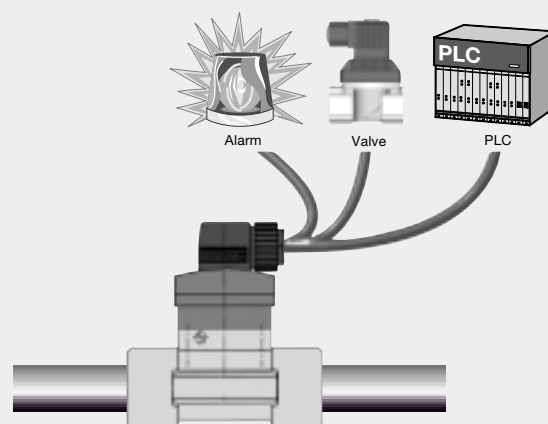
Easy to install
wireless sensor to fitting



Burkert "Turn & Lock"

Application: (together with SE10)

Monitoring - Min./Max. Values



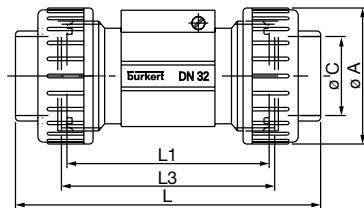
bürkert
Easy Fluid Control Solutions

Specifications - Ordering Chart (Other Versions on Request)

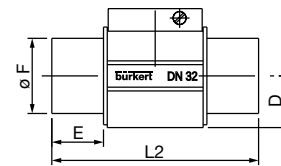
Description	Orifice DN [in]	Process Connection	Switching Range	Item No.
PVC Fitting World Wide				
• with union nuts and threaded ports				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	true union	1	438 091 Q
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	true union	1	438 092 R
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	true union	1	438 093 J
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	1	438 094 K
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	1	438 095 L
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	2	438 097 N
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	2	438 098 X
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	true union	2	438 099 Y
• with solvent spigots				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	solvent spigots	1	438 100 A
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	solvent spigots	1	438 101 X
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	solvent spigots	1	438 102 Y
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	solvent spigots	1	438 103 Z
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	solvent spigots	1	438 104 S
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	solvent spigots	2	438 106 U
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	solvent spigots	2	438 107 V
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	solvent spigots	2	438 108 E
PP Fitting World Wide				
• with union nuts and threaded ports				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	fusion spigots	1	438 127 Q
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	fusion spigots	1	438 128 Z
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	fusion spigots	1	438 129 S
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	fusion spigots	1	438 130 X
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	fusion spigots	1	438 131 L
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	fusion spigots	2	438 133 N
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	fusion spigots	2	438 134 P
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	fusion spigots	2	438 135 Q
• with weld ends				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	weld ends	1	438 136 R
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	weld ends	1	438 137 J
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	weld ends	1	438 138 T
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	weld ends	1	438 139 U
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	weld ends	1	438 140 H
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	weld ends	2	438 142 X
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	weld ends	2	438 143 Y
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	weld ends	2	438 144 Z
PVDF Fitting World Wide				
• with union nuts and threaded ports				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	fusion spigots	1	438 145 S
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	fusion spigots	1	438 146 T
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	fusion spigots	1	438 147 U
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	fusion spigots	1	438 148 D
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	fusion spigots	1	438 149 E
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	fusion spigots	2	438 151 Y
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	fusion spigots	2	438 152 Z
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	fusion spigots	2	438 153 S
• with weld ends				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	weld ends	1	438 154 T
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	weld ends	1	438 155 U
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	weld ends	1	438 156 V
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	weld ends	1	438 157 W
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	weld ends	1	438 158 F
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	weld ends	2	438 160 D
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	weld ends	2	438 161 S
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	weld ends	2	438 162 T
PVC Fitting ASIAN				
• with union nuts and threaded ports				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	true union	1	438 118 X
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	true union	1	438 119 Y
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	true union	1	438 120 V
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	1	438 121 J
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	1	438 122 K
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	2	438 124 M
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	2	438 125 N
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	true union	2	438 126 P
PVC Fitting NAFTA				
• with union nuts and U.S. socket connections				
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1/2	true union	1	438 109 F
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	3/4	true union	1	438 110 T
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1	true union	1	438 111 Q
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	1	438 112 R
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	1	438 113 J
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/4	true union	2	438 115 L
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	1-1/2	true union	2	438 116 M
Fitting with magnetic switch paddle (flipper) (PVDF) & gasket (FPM)	2	true union	2	438 117 N

Dimensions [mm] for Fittings - Plastic

Fitting with union nuts and threaded ports
PVC, PP or PVDF



Fitting with solvent spigots or weld ends
PVC, PP or PVDF



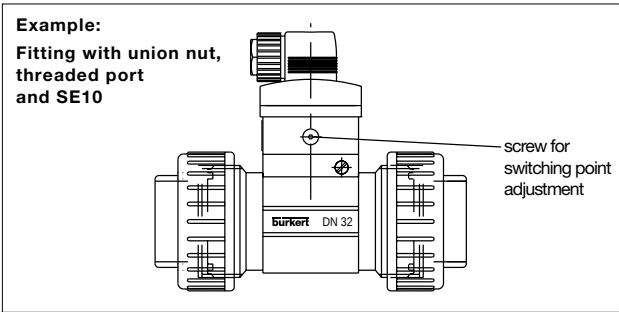
Example of Type 8010 with union nuts and threaded ports
(SO10 + SE10)



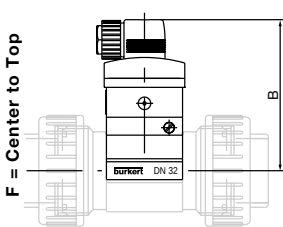
Orifice DN	Union Nut and Threaded Port									Solvent Spigots and Weld Ends (Tube)					
	ø A	ø C							L1	ø F	D	L2	E		
[mm]	[mm]	DIN [mm]	ANSI (*) [mm]	JIS (*) [mm]	DIN [mm]	ANSI [mm]	JIS [mm]	L3 [mm]	[mm]	[mm]	[mm]	PVC [mm]	PP / PVDF [mm]	PVC [mm]	PP / PVDF [mm]
15	43.0	20.0	21.3	18.40	128.0	130.0	129.0	96.0	90.0	20.0	17.5	90.0	85.0	16.5	14.0
20	53.0	25.0	26.7	26.45	144.0	145.6	145.0	106.0	100.0	25.0	17.5	100.0	92.0	20.0	16.0
25	60.0	32.0	33.4	32.55	160.0	161.4	161.0	116.0	110.0	32.0	21.5	110.0	95.0	23.0	18.0
32	44.0	40.0	42.2	38.60	168.0	170.0	169.0	116.0	110.0	40.0	27.5	110.0	100.0	27.5	20.0
40	83.0	50.0	48.3	48.70	188.0	190.2	190.0	127.0	120.0	50.0	31.5	120.0	106.0	30.0	23.0
50	103.0	63.0	60.3	60.80	212.0	213.6	213.0	136.0	130.0	63.0	39.5	130.0	110.0	37.0	27.0

(*) only for PVC

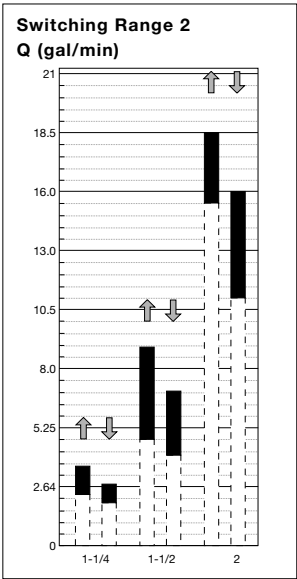
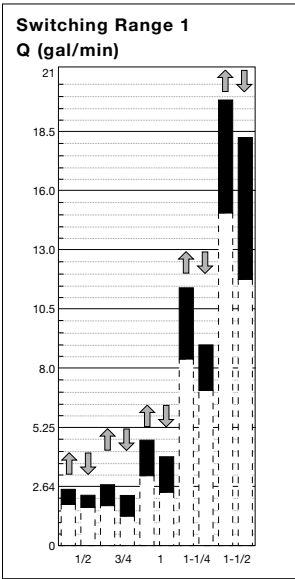
Dimensions [mm] for Fittings
with Magnetic Sensor Paddle (Flipper) - Plastic



Orifice DN	Dimensions B
[in]	[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

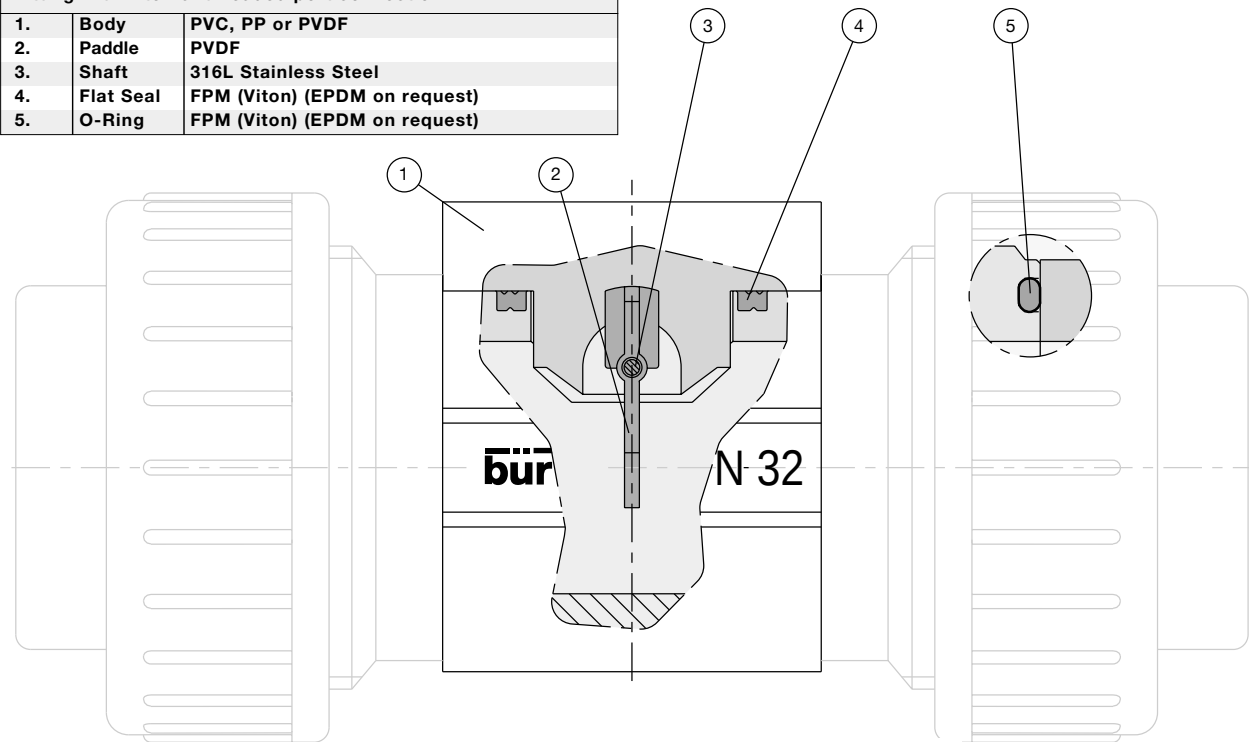


Switching Range Table
for Fitting Plastic



Inner Materials of all Stainless Plastic

Fitting with internal threaded port connection		
1.	Body	PVC, PP or PVDF
2.	Paddle	PVDF
3.	Shaft	316L Stainless Steel
4.	Flat Seal	FPM (Viton) (EPDM on request)
5.	O-Ring	FPM (Viton) (EPDM on request)



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