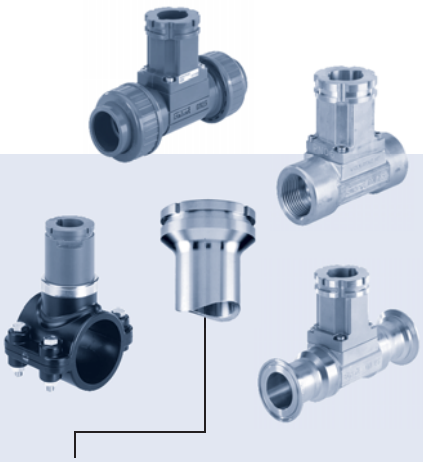
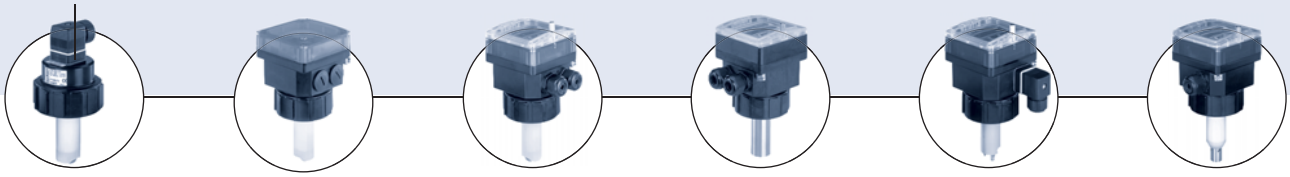
bürkert
FLUID CONTROL SYSTEMS



INSERTION fitting for flow measurement or analysis

- Universal fitting for INSERTION sensors, transmitters, batch controllers in pure, aggressive or contaminated liquids
- Large range of process connections: DN 06 to 400 in PVC, PP, PVDF, PE, stainless steel, brass
- Electronics available for
  - Indication, Monitoring, Transmitting
  - On/Off control, Batch control

Type S020 can be combined with...



Type 8020
Flow sensor

Type 8024
Flow indicator

Type 8025
Digital flow transmitter

Type 8045/8041
Electromagnetic flow transmitter

Type 8205/8206
Digital pH/ ORP transmitter

Type 8225
Digital conductivity transmitter

The fitting can be used to connect any INSERTION device for a measurement in the pipe.
i.e. sensors, indicators, transmitters and controllers for flow, pH, ORP and Conductivity measurement.

General data	
Pipe diameter	DN 06 up to DN 400[1)]
Fitting port connection Metal Plastic	 Internal or external thread, weld ends, Tri-Clamp®, flange True union, spigot and external thread
Materials Seal Body & adaptation part	 FKM or EPDM Brass (CuZn39Pb2) & stainless steel (316L -1.4435), all stainless steel (316L -1.4435) or all PVC, PP, PVDF, PE
Medium data	
Fluid temperature **(160 °C max.)**	Temperature limits may depend on the sensor. Please refer to appropriate instruction manual or data sheet for more details.
Fluid pressure (max.) Metal Plastic	 PN 16 PN 10 Pressure limits may depend on the sensor. Please refer to appropriate instruction manual or data sheet for more details.

Environment - Approvals	
Ambient temperature	Temperature limits may depend on the sensor. Please refer to appropriate instruction manual or data sheet for more details.
Approval / Certificate on request	3.1 Certificate; 2.2 Certificate; Roughness Certificate; FDA (with EPDM seal) - stainless steel fitting only

1) Combination between fitting and sensors is sometimes restricted to some DN (see diagram: combining the S020 with sensors on next page)

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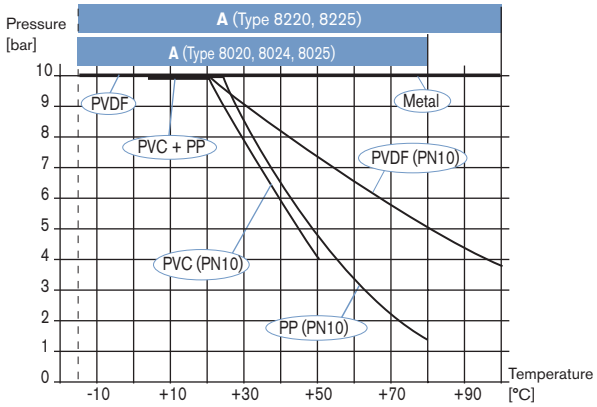
Combining the S020 with sensors for flow rate, pH or ORP, conductivity measurement

Available fitting DN		
	T-fitting S020	DN 06 — DN65
	Welding tab S020	DN50 — DN350
	Fusion spigot S020	DN65 — DN400
	Screw-on S020	For flow measurement: DN100 — DN400
	Saddle S020	For flow measurement: DN50 — DN200
Flow rate measurement **8020 - 8024 - 8025 - 8041 - 8045** * see Note on each fitting dimensions diagram		DN 06 / DN15 (only 8041/8045) / DN50 / DN200 / DN400 Short sensor version / Short or long* sensor version / Long sensor version
pH or ORP measurement **8200 - 8205 - 8206 compact version** **8205 - 8206 remote version** ** Use only with true union fitting acc. to DIN/ISO in analysis version		DN 15 — DN200 DN 15 (**) — DN32 — DN200
Conductivity measurement **8220 - 8223 - 8225 -8226** ** Use only with true union fitting acc. to DIN/ISO in analysis version		DN 15 (**) — DN32 — DN200

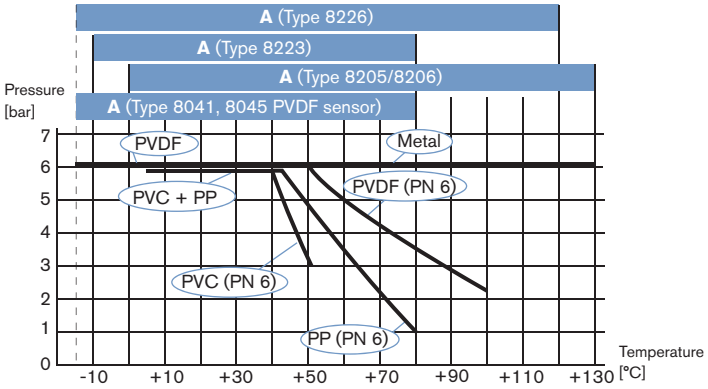
For further details about the various combination possibilities (sensor and fitting), please consult sensor related data sheet.

Pressure / temperature chart

Fittings with
- **Type 8020 - 8024 - 8025 flow sensor/transmitter**
- **Type 8220 - 8225 analyse sensor/transmitter**

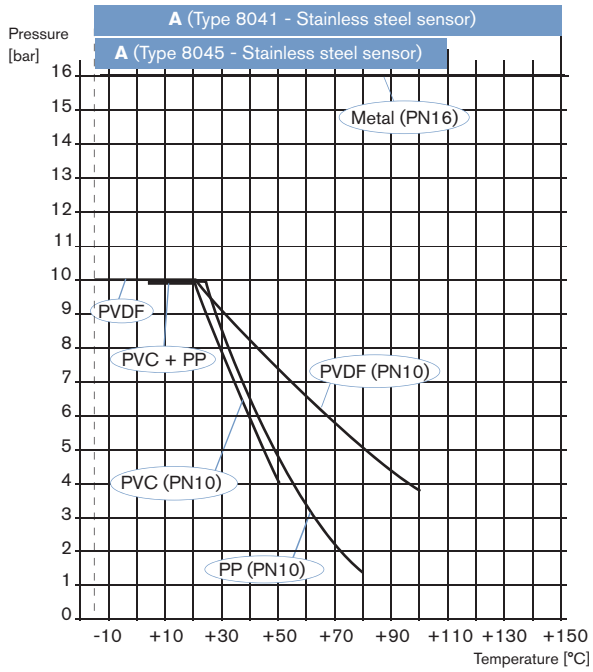


Fittings with
- **Type 8041 - 8045 PVDF flow sensor/transmitter**
- **Type 8205 - 8206 - 8223 - 8226 analyse sensor/transmitter**



Pressure and temperature limits depend on the sensor. Please refer to corresponding sensor data sheet for more details.

Fittings with
- **Type 8041 - 8045 stainless steel flow sensor/transmitter**



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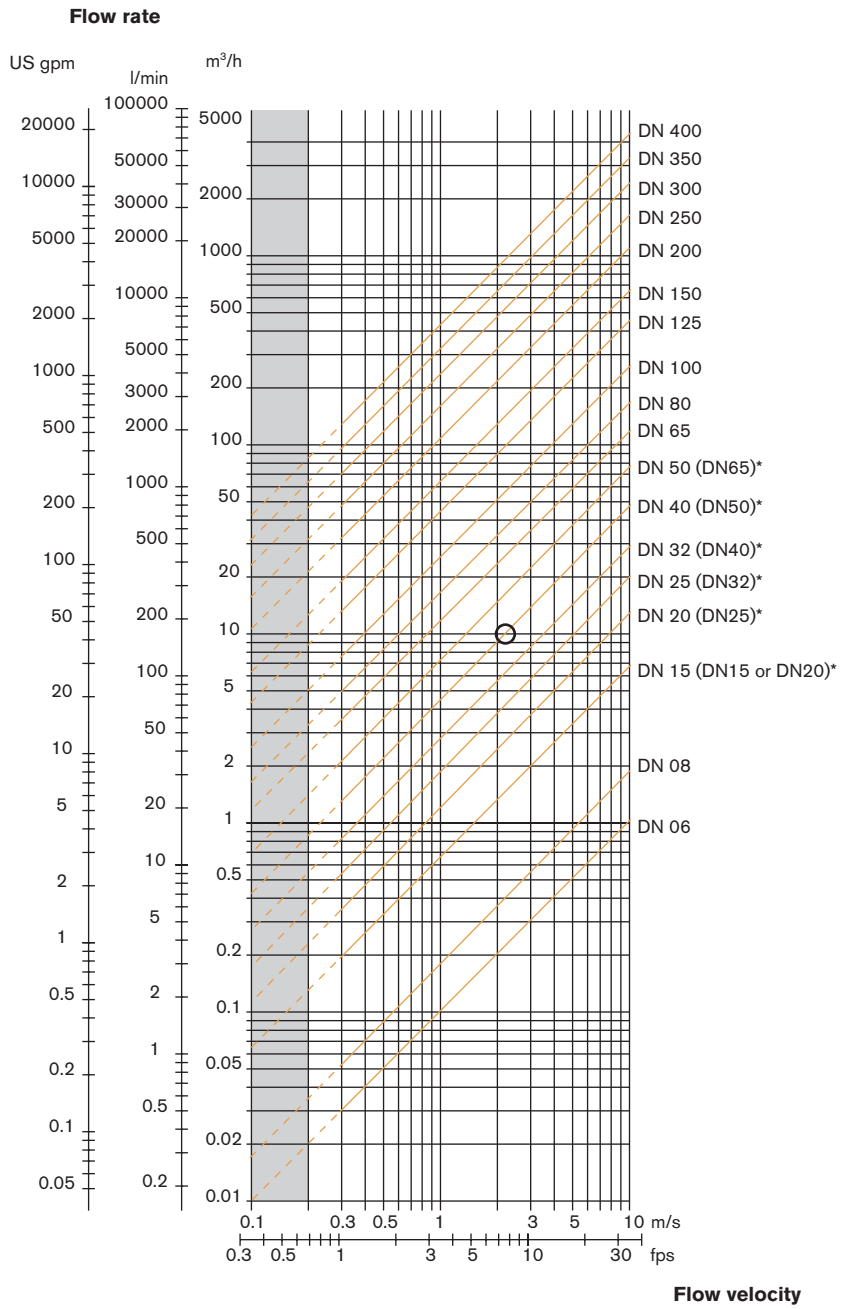
Selection fitting / pipe size

Example:

- Specification of nominal flow: 10 m^3/h
- Ideal flow velocity: 2...3 m/s
- For these specifications, the diagram indicates a pipe size of DN40 [or DN50 for (*) mentioned fittings]



*** for following fittings:**
- with external threads acc. to SMS 1145
- with weld-ends acc. to SMS 3008, BS 4825 / ASME BPE or DIN 11850 Series 2
- TriClamp® acc. to SMS 3017 / ISO 2852, BS 4825 / ASME BPE or DIN 32676

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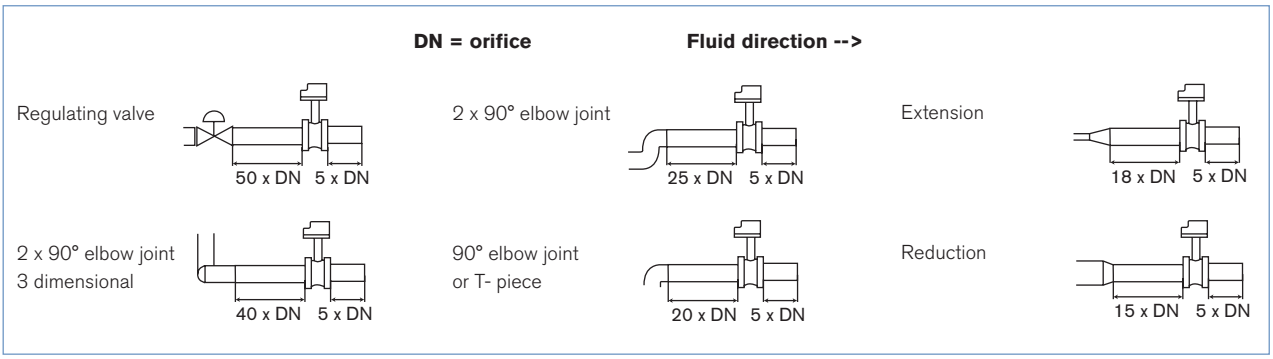
Installation

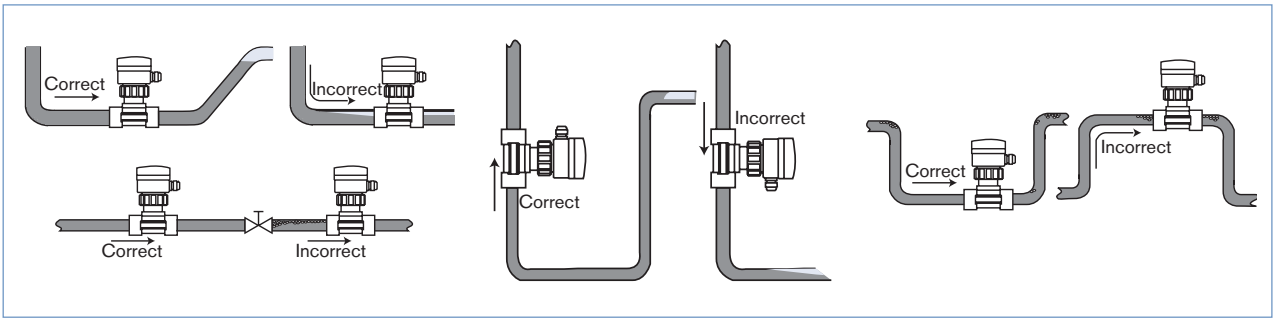
Flow measurement:

Minimum straight upstream and downstream distances must be observed. According to the pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best accuracy. For more information, please refer to EN ISO 5167-1.

EN ISO 5167-1 prescribes the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most important layouts that could lead to turbulence in the flow are shown below, together with the associated prescribed minimum inlet and outlet distances. These ensure calm, problem-free measurement conditions at the measurement point.

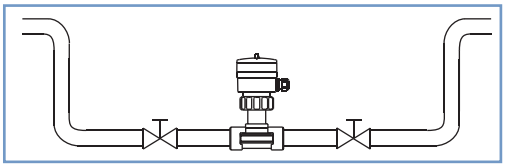


The flow rate sensor can be installed in either horizontal or vertical pipes.



Analysis measurement:

For pH and ORP measurements, we recommended a "U"- form bypass installation to ensure that the electrode is maintained in a wet condition and enable the customer to calibrate the unit without stopping the whole process or to use the special designed measuring chamber.
The specially designed measuring chamber enables to install all pH-, ORP-, conductivity-transmitters or electrodes in all pipe systems, either directly in the main stream or in a by-pass line. Additionally it enables to keep the electrode always wet and isolates it easily from the main stream for calibration purposes.



Pressure and temperature ratings must be respected according to the selected fitting material.
The suitable pipe size is selected using the diagram Flow / Velocity / DN.

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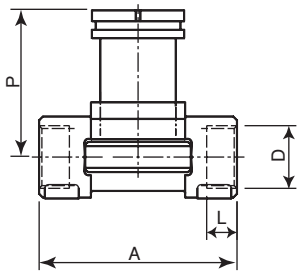
INSERTION fitting dimensions

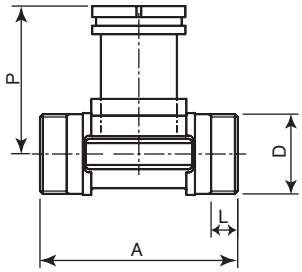
Internal thread connection
G, NPT or Rc
in stainless steel (316L - 1.4435) or
brass (CuZn39Pb2)



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	D [inch]	L [mm]
15	80.3	84.0	G 1/2 NPT 1/2 Rc 1/2	16.0 17.0 15.0
20	77.8	94.0	G 3/4 NPT 3/4 Rc 3/4	17.0 18.3 16.3
25	78.0	104.0	G 1 NPT 1 Rc 1	23.5 18.0 18.0
32	81.6	119.0	G 1 1/4 NPT 1 1/4 Rc 1 1/4	23.5 21.0 21.0
40	85.4	129.0	G 1 1/2 NPT 1 1/2 Rc 1 1/2	23.5 20.0 19.0
50	91.5	148.5	G 2 NPT 2 Rc 2	27.5 24.0 24.0

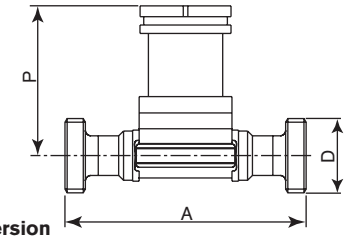
External thread connection
G,
in stainless steel (316L - 1.4435),
brass (CuZn39Pb2),
PVC (only DN 6 and DN 8)



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	D [inch]	D [mm]	L [mm]
06	75.3	90.0	G 1/2	-	14.0
08	75.3	90.0	G 1/2	-	14.0
15	80.3	84.0	G 3/4	-	11.5
20	77.8	94.0	G 1	-	13.5
25	78.0	104.0	G 1 1/4	-	14.0
32	81.6	119.0	G 1 1/2	-	18.0
40	85.4	129.0	-	M 55 x 2	19.0
50	91.5	148.5	-	M 64 x 2	20.0

External thread connection
SMS 1145,
in stainless steel (316L - 1.4435)



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	D
25	77.8	130	Rd 40 x 1/6"
40	81.6	164	Rd 60 x 1/6"
50	85.4	173	Rd 70 x 1/6"

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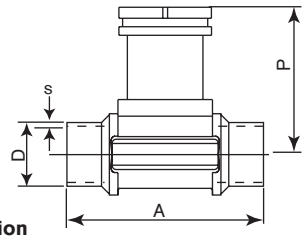
INSERTION fitting dimensions

Weld ends connection
EN ISO 1127/ ISO 4200, SMS 3008 or
BS 4825 / ASME BPE
in stainless steel (316L - 1.4435)

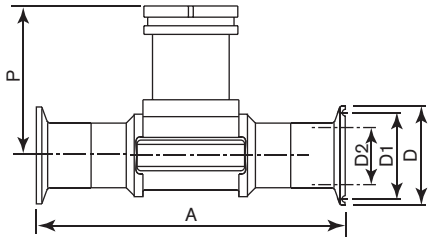


NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	Standard	D [mm]	s [mm]
15	80.3 - -	84.0 - -	EN ISO 1127 / ISO 4200 SMS 3008 ASME BPE	21.30 - -	1.60 - -
20	77.8 - 83.3	94.0 - 84.0	EN ISO 1127 / ISO 4200 SMS 3008 ASME BPE	26.9 - 19.05	1.60 - 1.65
25	78.0 77.8 77.8	104.0 94.0 94.0	EN ISO 1127 / ISO 4200 SMS 3008 BS 4825 / ASME BPE	33.70 25.00 25.40	2.00 1.20 1.65
32	81.6 - 78.0	119.0 - 104.0	EN ISO 1127 / ISO 4200 SMS 3008 BS 4825 / ASME BPE	42.40 - 32.00	2.00 - 1.65
40	85.4 81.6 81.6	129.0 119.0 119.0	EN ISO 1127 / ISO 4200 SMS 3008 BS 4825 / ASME BPE	48.30 38.00 38.10	2.00 1.20 1.65
50	91.5 85.4 85.4	148.5 128.0 128.0	EN ISO 1127 / ISO 4200 SMS 3008 BS 4825 / ASME BPE	60.30 51.00 50.80	2.60 1.20 1.65
65	- 91.5 91.5	- 147.0 147.0	EN ISO 1127 / ISO 4200 SMS 3008 BS 4825 / ASME BPE	- 63.50 63.50	- 1.60 1.65

Tri-Clamp® connection
ISO (for pipe EN ISO 1127 / ISO 4200),
SMS 3017 / ISO 2852* or BS 4825 / ASME BPE*
in stainless steel (316L - 1.4435)

* Available with internal surface finish Ra = 0.8 µm



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	Standard	D2 [mm]	D1 [mm]	D [mm]
15	80.3 - -	130 - -	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 ASME BPE	18.10 - -	27.5 - -	34.0 - -
20	77.8 - 80.3	150 - 119	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 ASME BPE	23.70 - 15.75	43.5 - 19.6	50.5 - 25.0
25	78.0 77.8 77.8	160 129 129	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 BS 4825 / ASME BPE	29.70 22.60 22.10	43.5 43.5 43.5	50.5 50.5 50.5
32	81.6 - -	180 - -	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 BS 4825 / ASME BPE	38.40 - -	43.5 - -	50.5 - -
40	85.4 81.6 81.6	200 161 161	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 BS 4825 / ASME BPE	44.30 35.60 34.80	56.5 43.5 43.5	64.0 50.5 50.5
50	91.5 85.4 85.4	230 192 192	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 BS 4825 / ASME BPE	55.10 48.60 47.50	70.5 56.5 56.5	77.5 64.0 64.0
65	- 91.5 91.5	- 216 216	ISO (for pipe EN ISO 1127 / ISO 4200) SMS 3017 / ISO 2852 BS 4825 / ASME BPE	- 60.30 60.20	- 70.5 70.5	- 77.5 77.5

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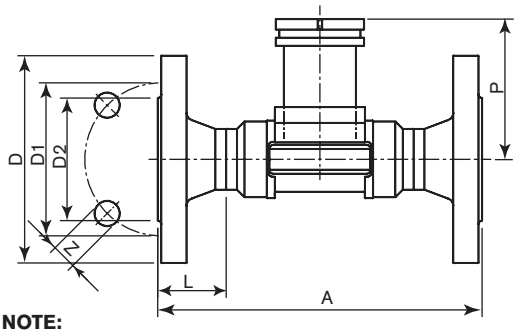
INSERTION fitting dimensions

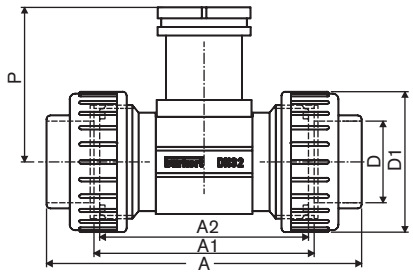
Flange connection
DIN 2633 (ISO PN16), ANSI B16-5-1988 or JIS 10 K
in stainless steel (316L - 1.4435)



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	Standard	L [mm]	Z [mm]	D2 [mm]	D1 [mm]	D [mm]
15	80.3	130	DIN	23.5	4x14.0	45.0	65.0	95.0
		130	ANSI		4x15.8	34.9	60.3	89.0
		152	JIS		4x15.0	51.0	70.0	95.0
20	77.8	150	DIN	28.5	4x14.0	58.0	75.0	105.0
		150	ANSI		4x15.8	42.9	69.8	99.0
		178	JIS		4x15.0	56.0	75.0	100.0
25	78.0	160	DIN	28.5	4x14.0	68.0	85.0	115.0
		160	ANSI		4x15.8	50.8	79.4	108.0
		216	JIS		4x19.0	67.0	90.0	125.0
32	81.6	180	DIN	31.0	4x18.0	78.0	100.0	140.0
		180	ANSI		4x15.8	63.5	88.9	117.0
		229	JIS		4x19.0	76.0	100.0	135.0
40	85.4	200	DIN	36.0	4x18.0	88.0	110.0	150.0
		200	ANSI		4x15.8	73.0	98.4	127.0
		241	JIS		4x19.0	81.0	105.0	140.0
50	91.5	230	DIN	41.0	4x18.0	102.0	125.0	165.0
		230	ANSI		4x19.0	92.1	120.6	152.0
		267	JIS		4x19.0	96.0	120.0	155.0

True union connection
DIN 8063, ASTM D 1785/76 or JIS K in PVC,
DIN 16962 in PP or
ISO 10931 in PVDF



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	Standard	A1 [mm]	A2 [mm]	D [mm]	D1 [mm]
15	80.4	128.0	DIN / ISO	96	90	20.00	43
	80.4	130.0	ASTM	96	90	21.30	43
	80.4	129.0	JIS	96	90	18.40	43
15*	81.4	148.0	DIN / ISO	116	110	20.00	74
20	77.8	144.0	DIN / ISO	106	100	25.00	53
	77.8	145.6	ASTM	106	100	26.70	53
	77.8	145.0	JIS	106	100	26.45	53
20*	81.4	154.0	DIN / ISO	116	110	25.00	74
25	78.0	160.0	DIN / ISO	116	110	32.00	60
	78.0	161.4	ASTM	116	110	33.40	60
	78.0	161.0	JIS	116	110	32.55	60
25*	81.4	160.0	DIN / ISO	116	110	32.00	74
32	81.4	168.0	DIN / ISO	116	110	40.00	74
		170.0	ASTM			42.20	
		169.0	JIS			38.60	
40	85.2	188.0	DIN / ISO	127	120	50.00	83
		190.2	ASTM			48.30	
		190.0	JIS			48.70	
50	91.5	212.0	DIN / ISO	136	130	63.00	103
		213.6	ASTM			60.30	
		213.0	JIS			60.80	

* Analysis version

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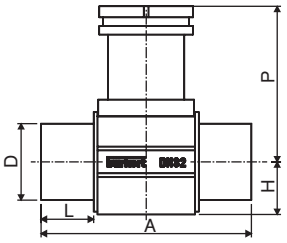
INSERTION fitting dimensions

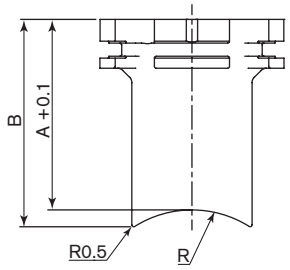
Spigot connection
DIN 8063 in PVC,
DIN 16962 in PP or
ISO 10931 in PVDF



NOTE:
short sensor version

DN [mm]	P [mm]	A [mm]	Standard	L [mm]	D [mm]	H [mm]
15	80.4	90 85 85	DIN 8063 DIN 16962 ISO 10931	16.5 14.0 14.0	20	17.5
20	77.8	100 92 92	DIN 8063 DIN 16962 ISO 10931	20.0 16.0 16.0	25	17.5
25	78.0	110 95 95	DIN 8063 DIN 16962 ISO 10931	23.0 18.0 18.0	32	21.5
32	81.4	110 100 100	DIN 8063 DIN 16962 ISO 10931	27.5 20.0 20.0	40	27.5
40	85.2	120 106 106	DIN 8063 DIN 16962 ISO 10931	30.0 23.0 23.0	50	31.5
50	91.5	130 110 110	DIN 8063 DIN 16962 ISO 10931	37.0 27.0 27.0	63	39.5

Welding tab with radius
in stainless steel (316L - 1.4435)

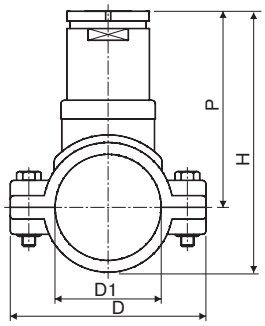


NOTE:
sensor version:
- short for DN 50 - DN 200
- long for DN 250 - DN 350

DN [mm]	A [mm]	B [mm]	R [mm]
50	56.6	61.6	30.2
65	54.5	58.6	36.7
80	53.1	56.4	44.5
100	50.7	53.2	57.2
125	48.2	50.3	70.7
150	45.7	47.4	84.2
200	41.0	42.3	109.6
250	73.6	74.7	136.6
300	67.8	68.7	162.0
350	63.9	64.7	177.8

Saddle
in PP

Body material: PP/PVC
Seal material: EPDM



NOTE:
long sensor version

DN [mm]	P [mm]	H [mm]	D [mm]	D1 [mm]
50	116.0	155	116	63
65	115.0	160	129	75
80	119.0	171	144	90
100	124.0	187	166	110
110	120.0	191	181	125
125	127.0	205	196	140
150	137.0	225	216	160
180	161.0	271	266	200
200	173.0	291	290	225

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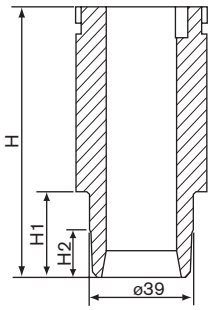
INSERTION fitting dimensions

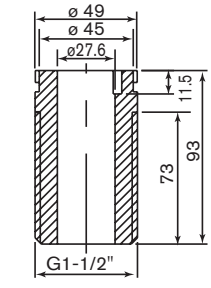
Fusion spigot
in PE, PP or PVDF

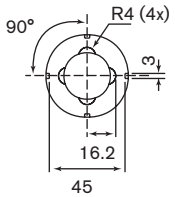


NOTE:
sensor version:
- short for DN 65 - DN 100
- long for DN 150 - DN 400

DN [mm]	H [mm]	Materials [mm]	H1 [mm]	H2 [mm]
65	72.5	PE PP PVDF	13.0 13.0 10.4	- - -
80	72.5	PE PP PVDF	15.6 15.6 12.5	- - -
100	72.5	PE PP PVDF	19.0 19.0 15.2	5.0 5.0 6
125	102.0	PE PP PVDF	24.2 - -	8.0 - -
150	102.0	PE PP PVDF	27.7 27.7 -	10.0 10.0 -
200	102.0	PE PP PVDF	38.9 38.9 -	16.0 16.0 -
250	102.0	PE PP PVDF	48.4 48.4 -	21.0 21.0 -
300	102.0	PE PP PVDF	54.5 54.5 -	24.0 24.0 -
350	102.0	PE PP PVDF	61.3 61.3 -	28.0 28.0 -
400	102.0	PE PP PVDF	69.1 - -	31.5 - -

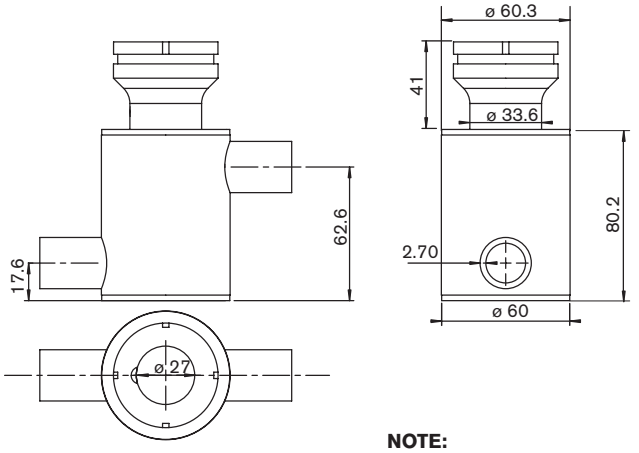
Screw-on
DN 100 to 400
in PVC, PP, PE





NOTE:
long sensor version

Measuring chamber (only for analysis sensor / transmitter version)



NOTE:
Materials: stainless steel 316L
Pipe connection: G 1/2"

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Ordering chart for fitting S020

DN 6 to DN 65

Port connection	Seal	Standard	Item no. DN 06 - 1/2"	Item no. DN 08 - 1/2"	Item no. DN 15	Item no. DN 20	Item no. DN 25	Item no. DN 32	Item no. DN 40	Item no. DN 50	Item no. DN 65
Brass body & stainless steel adaptation part - T-fitting - Temperature max. 160°C, PN16											
Internal thread	FKM	G	-	-	428 712	428 713	428 714	428 715	428 716	428 717	-
		NPT	-	-	428 718	428 719	428 720	428 721	428 722	428 723	-
		Rc (ISO7)	-	-	428 724	428 725	428 726	428 727	428 728	428 729	-
External thread	FKM	G	-	-	428 730	428 731	428 732	428 733	428 734	428 735	-
Stainless steel body & stainless steel adaptation part - T-fitting - Temperature max. 160°C, PN16											
Internal thread	FKM	G	-	-	428 736	428 737	428 738	428 739	428 740	428 741	-
		NPT	-	-	428 742	428 743	428 744	428 745	428 746	428 747	-
		Rc (ISO7)	-	-	428 748	428 749	428 750	428 751	428 752	428 753	-
External thread	FKM	G	552 434	552 432	428 754	428 755	428 756	428 757	428 758	428 759	-
	EPDM	SMS 1145	-	-	-	-	443 317	-	443 318	443 319	-
Weld ends	FKM	EN ISO 1127 / ISO 4200	-	-	428 760	428 761	428 762	428 763	428 764	428 765	-
	EPDM	SMS 3008	-	-	-	-	443 309	-	443 310	443 311	443 944
		BS 4825/ ASME BPE	-	-	-	443 734[1)]	443 735	443 736	443 942	443 943	443 944
Tri-Clamp®	FKM	ISO (for pipe EN ISO 1127/ISO4200)	-	-	428 766	428 767	428 768	428 769	428 770	428 771	-
	EPDM	SMS 3017 / ISO 2852	-	-	-	-	443 313	-	443 314	443 315	443 969
		SMS 3017 / ISO 2852*	-	-	-	-	443 957	-	443 958	443 959	443 974
		BS 4825 / ASME BPE	-	-	-	443 965[1)]	443 966	-	443 967	443 968	443 969
		BS 4825 / ASME BPE*	-	-	-	443 970	443 971	-	443 972	443 973	443 974
Flange	FKM	DIN 2633	-	-	428 772	428 773	428 774	428 775	428 776	428 777	-
		ANSI B16-5-1988	-	-	428 778	428 779	428 780	428 781	428 782	428 783	-
		JIS 10K	-	-	431 053	431 054	431 055	431 056	431 057	431 058	-
PVC & PVC adaptation part - T-fitting - Temperature max. 50°C, PN10											
True union	FKM	DIN 8063	-	-	428 670	428 671	428 672	428 673	428 674	428 675	-
		ASTM D 1785/76	-	-	428 682	428 683	428 684	428 685	428 686	428 687	-
		JIS K	-	-	429 078	429 079	429 080	429 081	429 082	429 083	-
Spigot	FKM	DIN 8063	-	-	428 676	428 677	428 678	428 679	428 680	428 681	-
External thread	FKM	G	552 561	550 062	-	-	-	-	-	-	-
Analysis True union	FKM	DIN 8063	-	-	430 837	430 838	430 839	428 673	428 674	428 675	-
PP & PP adaptation part - T-fitting - Temperature max. 80°C, PN10											
True union	FKM	DIN 16962	-	-	428 688	428 689	428 690	428 691	428 692	428 693	-
Spigot	FKM	DIN 16962	-	-	428 694	428 695	428 696	428 697	428 698	428 699	-
Analysis True union	FKM	DIN 16962	-	-	430 840	430 841	430 842	428 691	428 692	428 693	-
PVDF & PVDF adaptation part - T-fitting - Temperature max. 100°C, PN10											
True union	FKM	ISO 10931	-	-	428 700	428 701	428 702	428 703	428 704	428 705	-
Spigot	FKM	ISO 10931	-	-	428 706	428 707	428 708	428 709	428 710	428 711	-
Analysis True union	FKM	ISO 10931	-	-	430 843	430 844	430 845	428 703	428 704	428 705	-

* internal surface finish Ra = 0.8 µm
1) DN 20 only available in ASME BPE

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Ordering chart for fitting S020

DN 50 to DN 400

Port connection	Item no. DN 50	Item no. DN 65	Item no. DN 80	Item no. DN 100	Item no. DN 125	Item no. DN 150	Item no. DN 200	Item no. DN 250	Item no. DN 300	Item no. DN 350	Item no. DN 400
Stainless steel - welding tab with radius - Temperature max. 160°C, PN16											
Welding tabs	418 111	418 112	418 113	418 114	418 115	418 116	418 117	418 756	420 070	416 637	-
PVC - Screw-on fitting - Temperature max. 50°C, PN10											
Screw-on	-	-	-	418 170	418 170	418 170	418 170	-	-	-	-
PVDF - Fusion spigot - Temperature max. 100°C, PN10											
Fusion spigot	-	418 658	418 659	418 660	-	-	-	-	-	-	-
Analysis Fusion spigot	-	418 660	418 660	418 660	418 660	418 660	418 660	-	-	-	-
PE - Fusion spigot or screw-on fitting - Temperature max. 70°C, PN10											
Fusion spigot	-	418 642	418 643	418 644	418 590	418 645	418 646	418 647	418 648	418 649	418 598
Screw-on	-	-	-	436 489	436 489	436 489	436 489	436 489	436 489	436 489	436 489
Analysis Fusion spigot	-	418 644	418 644	418 644	418 644	418 644	418 644	-	-	-	-
PP - Fusion spigot or screw-on fitting - Temperature max. 80°C, PN10											
Fusion spigot	-	418 650	418 651	418 652	-	418 653	418 654	418 655	418 656	418 657	-
Screw-on	-	-	-	436 488	436 488	436 488	436 488	436 488	436 488	436 488	436 488
Analysis Fusion spigot	-	418 652	418 652	418 652	418 652	418 652	418 652	-	-	-	-

Port connection	Seal	Item no. DN 50	Item no. DN 65	Item no. DN 80	Item no. DN 100	Item no. DN 110	Item no. DN 125	Item no. DN 150	Item no. DN 180	Item no. DN 200
PP - Saddle - Temperature max. 80°C, PN10 (for PVC or PP pipe)										
Saddle	EPDM	425 138	425 139	425 140	425 141	425 142	425 143	425 144	433 873	425 416

Ordering chart for accessories / spare parts (other versions on request)

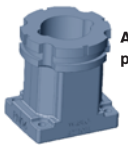
Description	Item no.
O-ring set (DN 06 to 65)	
FKM - for metal fitting (5 units)	428 971
EPDM - for metal fitting (5 units)	428 972
FKM - for plastic fitting (1 unit)	427 423
EPDM - for plastic fitting (1 unit)	427 424
Stopper with ring, union nut and O-ring	
Stainless steel	438 755
PVC	438 754
PP	627 614
Measuring chamber	
Stainless steel [1] 316L (1.4435)	553 611

1) other material on request

Description	Item no.
Adaptation part (DN 06 to 65)	
Stainless steel	555 484
PVC	419 098
PP	419 808
PVDF	419 809
Approvals / Certificates	
3.1 certificate	440 790
2.2 certificate	440 789
Roughness certificate	444 898
FDA approval	449 788



Stopper with ring, union nut and O-ring



Adaptation part



O-ring set

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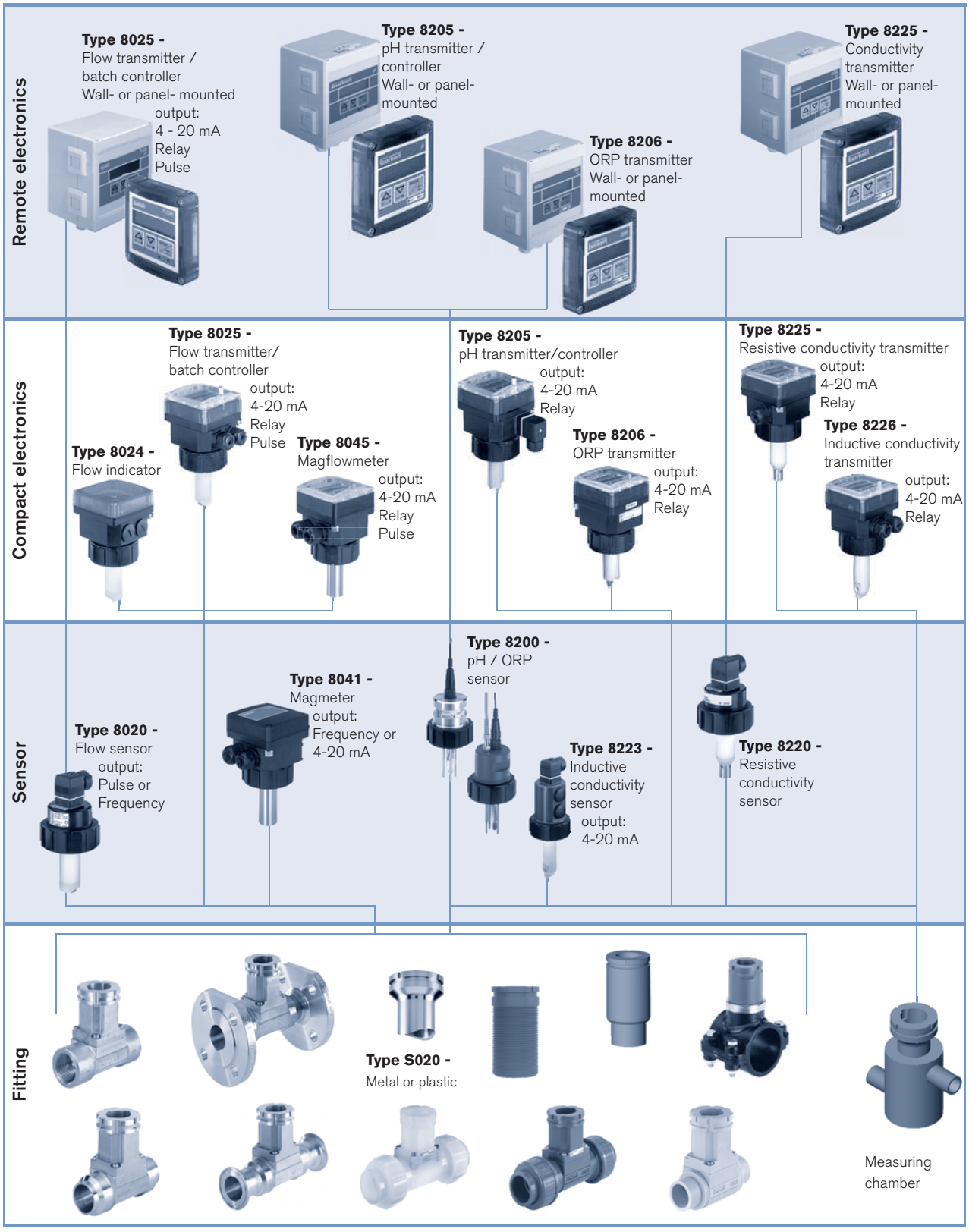
Interconnection possibilities with the S020



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