Faure Herman

Counting every drop

Heliflu™-TZN

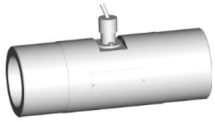
We offer flexible configurations

Choose from our wide range of product options

Metering Versatility

We work closely with each client to help them choose the best meter configuration for their application. The range of sizes, materials, electrical configurations, ANSI ratings available, etc. are critical to provide flexibility to support our clients' measurement needs.

- Heliflu™ meters range in diameters from 1/2" to 20", measuring flow rates from 0.055 GPM to 58,495 Bbl/hr
- We have multiple materials available for our meter bodies, bearings, and rotors, depending on application
- Our meters are manufactured in ANSI ratings from 150 to 2,500
- Each meter may be equipped with 1, 2 or 3 electronic signal outputs
- Totalizers may be mounted on one of the outputs, providing a local meter readout for comparison with readings at the flow computer

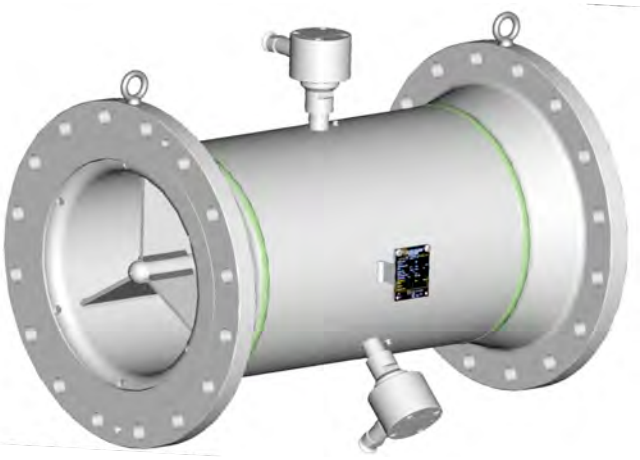


Threaded: ≤ 2"

Wafer style: ≤ 6" (high pressure)

1/2" - 3"

4" - 14"



16" - 20"

Downsizing — for optimal accuracy

Our tradition of inventive Engineering solutions continues

Lifecycle Flow Variance — Over a production field's lifecycle it is common to see flowrate reduction, sometimes as much as 80-90%. Such severe reductions in flow pose serious challenges to measurement. Depending on degree of flow reduction, meters and sometimes piping must be replaced to remediate the situation. This remedy is expensive in both capital and operational perspectives, as well as requiring major outages and complex planning to accomplish.

Cost effective solutions easily solve common field issues

Flexible Flow — We offer multiple flow rate cartridges that can be easily substituted for greater flow range flexibility within an existing line size (up to 50% as seen in Tables 2 & 3).

Downsizing — We have designed special meter bodies to address an even greater degree of flow reduction (up to 75%) as seen in Table 1 below.

These options are implemented without requiring any piping changes, and each offers you a cost effective solution with precision accuracy — helping you lower your total cost of ownership.

Table 01 — **Downsized meter options**

Let us know if you have additional requirements

DN mm	NPS "	CUS or STD Models		Flow Range						Length(2)		Mass(3)		Filtration(4)	
				(m³/h)(1)		(GPM)(1)		(BPH)(1)							
				min	max	min	max	min	max	mm	"	kg	lbs	mm	MESH
32*	1 1/4	32-2-DS	1 1/4-880-DS	0.2	2	0.88	8.81	1.26	12.6	140	5 33/64	6	13.5	0.425	40
		32-3-DS	1 1/4-1320-DS	0.3	3	1.32	13.2	1.89	18.9						
		32-5-DS	1 1/4-2200-DS	0.5	5	2.20	22.0	3.14	31.4						
		32-10-DS	1 1/4-4400-DS	1.0	10	4.40	44.0	6.29	62.9						
		32-15-DS	1 1/4-6600-DS	1.5	15	6.61	66.1	9.43	94.3						
40*	1 1/2	40-8-DS	1 1/4-3500-DS	0.8	8	3.52	35.2	5.03	50.3	156	6 9/64	7	15.5	0.5	35
		40-12-DS	1 1/2-5300-DS	1.2	12	5.28	52.8	7.55	75.5						
		40-15-DS	1 1/2-6600-DS	1.5	15	6.61	66.1	9.43	94.3						
		40-20-DS	1 1/2-8800-DS	2.0	20	8.81	88.1	12.6	126						
		40-30-DS	1 1/2-13200-DS	3.0	30	13.2	132	18.9	189						
50*	2	50-30-DS	2-13200-DS	3.0	30	13.2	132	18.9	189	180	7 3/32	12	26.5	0.5	35
		50-40-DS	2-17600-DS	4.0	40	17.6	176	25.2	252						
		50-45-DS	2-19800-DS	4.5	45	19.8	198	28.3	283						
80	3	80-30-DS	3-13200-DS	3.0	30	13.2	132	18.9	189	235	9 1/4	21	46	0.85	20
		80-50-DS	3-22000-DS	5.0	50	22.0	220	31.4	314						
		80-70-DS	3-30800-DS	7.0	70	30.8	308	44.0	440						
100	4	100-70-DS	4-440-DS	7	70	30.8	308	44.0	440	305	12	25	55	1.4	14
		100-110-DS	4-690-DS	11	110	48.4	484	69.2	692						
		100-150-DS	4-945-DS	15	150	66.1	661	94.3	943						
		100-180-DS	4-1130-DS	18	180	79.3	793	113	1,132						
150	6	150-165-DS	6-1040-DS	16.5	165	72.7	727	104	1,038	356	14	45	100	1.7	12
		150-200-DS	6-1260-DS	20	200	88.1	881	126	1,258						
		150-250-DS	6-1570-DS	25	250	110	1,101	157	1,572						
		150-300-DS	6-1890-DS	30	300	132	1,321	189	1,887						

* Standard model only

(1) Maximum flowrate should be limited to 80-90% of Max capacity for continuous operations

(2) Flange to flange dimension

(3) Indicated masses are for class #150

(4) After a period of critical monitoring, the filtration degree can be relaxed to reduce strainer maintenance and pressure losses, e.g. MESH 14 to MESH 12 on a 4" meter (consult Faure Herman)

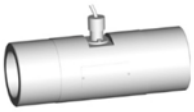
Small line solutions — big performance

Precision Solutions

Products flowing in smaller line sizes are critical to many refineries applications, offshore production platforms and upstream land-based operations. We offer an array of precision solutions for these applications with several styles of meters, materials and bearings to adapt to fluids other than hydrocarbons.

We offer a 4-bladed aluminum helical rotor with graphite bearings for very light or refined products. Our 2-bladed titanium helical rotor with tungsten carbide bearings is suited for higher viscosity applications.

Whether for LACT units, buy-back measurement offshore, butylene and liquid propane transfers, our Heliflu™ family of meters offers your the solution you need.



Threaded: ≤ 2"

Wafer style: ≤ 6" (high pressure)

1/2" - 3"

Table 02 — 1/2" - 2" diameter meters with flexible flowrate technology

DN mm	NPS "	STD Models		Flow range (m³/h)(1) min	(m³/h)(1) max	(GPM)(1) min	(GPM)(1) max	(BPH)(1) min	(BPH)(1) max	Length(2) mm	Length(2) "	Mass(3) kg	Mass(3) lbs	Filtration(4) mm	Filtration(4) Mesh
16	1/2	16-012	1/2-055	0.012	0.12	0.053	0.53	0.075	0.75	130	5 1/8	3.5	8	0.15	100
		16-025	1/2-110	0.025	0.25	0.110	1.10	0.157	1.57						
20	3/4	20-05	3/4-220	0.05	0.5	0.22	2.2	0.31	3.1	130	5 1/8	4	9	0.355	45
		20-1	3/4-440	0.10	1.0	0.44	4.4	0.63	6.3						
25	1	25-2	1-880	0.2	2	0.88	8.8	1.26	12.6	130	5 1/8	5	11	0.425	40
		25-3	1-1320	0.3	3	1.32	13	1.89	19						
		25-5	1-2200	0.5	5	2.20	22	3.14	31						
		25-10	1-4400	1.0	10	4.40	44	6.29	63						
		25-15	1-6600	1.5	15	6.61	66	9.43	94						
32	1 1/4	32-8	1 1/4-3500	0.8	8	3.52	35.2	5.03	50.3	140	5 33/64	6	15.5	0.50	35
		32-12	1 1/4-5300	1.2	12	5.28	52.8	7.55	75.5						
		32-15	1 1/4-6600	1.5	15	6.61	66.1	9.43	94.3						
		32-20	1 1/4-8800	2.0	20	8.81	88.1	12.6	126						
		32-30	1 1/4 - 13200	3.0	30	13.2	132	18.9	189						
40	1 1/2	40-20	1 1/2 - 8800	2.0	20	8.81	88.1	12.6	126	156	6 9/64	7	15.5	0.50	35
		40-30	1 1/2 - 13200	3.0	30	13.2	132	18.9	189						
		40-40	1 1/2 - 17600	4.0	40	17.6	176	25.2	252						
		40-45	1 1/2 - 19800	4.5	45	19.8	198	28.3	283						
50	2	50-30	2-13200	3	30	13.2	132	18.9	189	180	7 3/32	12	26.5	0.85	20
		50-50	2-22000	5	50	22.0	220	31.4	314						
		50-70	2-30800	7	70	30.8	308	44.0	440						

(1) Maximum flowrate should be limited to 80-90% of Max capacity for continuous operations
(2) Flange to flange dimension
(3) Indicated masses are for class #150
(4) After a period of critical monitoring, the filtration degree can be relaxed to reduce strainer maintenance and pressure losses
Models in shaded color are approved according to OIML R-117 (Class 0.3)

Greatest flow rate flexibility — period

Inventive Solutions

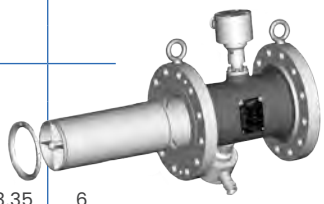
Our Heliflu™ family of liquid measurement products provide you the greatest flexibility in addressing varying flow rates, both within line sizes (Flexible Flow) and between line sizes (Downsizing).

These inventive solutions have proven invaluable for our customers the world over, enabling them to address changes in production flow without requiring a change of the entire meter.

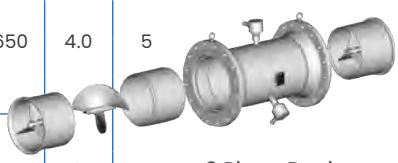
Table 03 — 3" to 20" diameter meters - flexible flowrate technology

DN mm	NPS "	CUS OR STD MODELS		Range				Length (2)		Mass (3)		Filtration (4)	
				m³/h (1)		BPH (1)							
				min	max	min	max	mm	"	kg	lbs	mm	Mesh
80	3	80-70	3-30800	7	70	44	440	235	9 1/4	21	46	1.4	14
		80-110	3-48400	11	110	69	692						
		80-150	3-66000	15	150	94	943						
		80-180	3-79200	18	180	113	1,132						
100	4	100-165	4-1040	16.5	165	104	1,038	305	12	25	55	1.7	12
		100-200	4-1260	20	200	126	1,258						
		100-250	4-1570	25	250	157	1,572						
		100-300	4-1890	30	300	189	1,887						
150	6	150-400	6-2515	40	400	252	2,516	356	14	45	100	2.36	8
		150-600	6-3775	60	600	377	3,774						
		150-800	6-5030	80	800	503	5,032						
200	8	200-800	8-5030	80	800	503	5,032	406	16	75	165	2.8	7
		200-1000	8-6290	100	1,000	629	6,290						
		200-1200	8-7550	120	1,200	755	7,548						
		200-1400	8-8800	140	1,400	881	8,806						
250	10	250-1200	10-7550	120	1,200	755	7,548	508	20	115	225	3.35	6
		250-2000	10-12600	200	2,000	1,258	12,580						
		250-2300	10-14500	230	2,300	1,447	14,467						
300	12	300-2000	12-12600	200	2,000	1,258	12,580	610	24	200	440		
		300-2400	12-15100	240	2,400	1,510	15,096						
		300-3000	12-18900	300	3,000	1,887	18,869						
		300-3400	12-21400	340	3,400	2,139	21,385						
350	14	350-2500	14-15700	250	2,500	1,572	15,725	711	28	240	520	4.0	5
		350-3500	14-22000	350	3,500	2,201	22,014						
		350-4200	14-26400	420	4,200	2,642	26,417						
400	16	400-3400	16-21400	340	3,400	2,139	21,385	813	32	295	650		
		400-4000	16-25200	400	4,000	2,516	25,159						
		400-4500	16-28300	450	4,500	2,830	28,304						
		400-5600	16-35200	560	5,600	3,522	35,223						
450	18	450-4800	18-30200	480	4,800	3,019	30,191	914	36	385	850		
		450-5500	18-34600	550	5,500	3,459	34,594						
		450-7300	18-45900	730	7,300	4,592	45,916						
500	20	500-6000	20-37700	600	6,000	3,774	37,739	1,016	40	550	1,215	4.75	4
		500-7500	20-47200	750	7,500	4,717	47,174						
		500-9300	20-58500	930	9,300	5,850	58,495						

Meter Body
3 - 4 "



Meter with Cartridge
4 - 12 "



3 Piece Design
≥ 14"