



Request for Quotation

Flowmeters

Russia

March 16, 2022

System F LLC

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Flowmeters

Endress+Hauser Mass flowmeter– analog



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№\p	Device diameter, mm	Parameter	Option designation	Option name
1	DU 15	Basic version of the device	8F3B15	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: -60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland

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	Wet end material	SA	Stainless steel 316L
	Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
		D2S	PN40, flange EN1092-1-B
	Accuracy class, calibration %	A	0,10%
	Instrument model	A1	1
	Display menu language	AI	Russian
	Application software package	EB	Heartbeat Verification + monitoring
	Marking	Z1	Designation (TAG) stainless steel label steel 50061469
	Measured environment	-	Liquid
		-	Gas
	Counter flange design	71360145	FLANGE 15-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
		71353046	FLANGE 15-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
		71211776	Gasket SNP V-3-29-4.0-3.2, OST
		71360149	FLANGE 15-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
		71359392	FLANGE 15-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
		71211776	Gasket SNP F-3-29-4.0-3.2, OST

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2	DU 25	Basic version of the device	8F3B25	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360159	FLANGE 25-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353036	FLANGE 25-40-11-1-B ST20-IV-GOST 33259- GOST 33259-2015
71183132	Gasket SNP V-3-43-4.0-3.2, OST			

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			71360171	FLANGE 25-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359401	FLANGE 25-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71183132	Gasket SNP F-3-43-4.0-3.2, OST

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3	DN 40	Basic version of the device	8F3B40-13Q24/0	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360779	FLANGE 40-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71359410	FLANGE 40-40-11-1-B -St20-IV GOST 33259 GOST 33259-2015
71183137	Gasket SNP V-3-61-4.0-3.2, OST			
71360783	FLANGE 40-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015			

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			71359412	FLANGE 40-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71183137	Gasket SNP F-3-61-4.0-3.2, OST

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4	DN 50	Basic version of the device	8F3B50-1UEN2/0	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360784	FLANGE 50-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353027	FLANGE 50-40-11-1-B ST20-IV-GOST 33259- GOST 33259-2015
71070410	Gasket SNP V-3-74-4.0-3.2, OST			
71360791	FLANGE 50-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015			

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			71353557	Flange 50-40-11-1-F-St20 GOST 33259-2015
			71070410	Gasket SNP F-3-74-4.0-3.2, OST

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5	DN 80	Basic version of the device	8F3B80-1H9F5/0	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360800	FLANGE 80-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71359420	FLANGE 80-40-11-1-B -St20-IV GOST 33259 GOST 33259-2015
71090891	Gasket SNP V-3-106-4.0-3.2, OST			
71360804	FLANGE 80-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015			

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			71359425	FLANGE 80-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71090891	Gasket SNP F-3-106-4.0-3.2, OST

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6	DN 100	Basic version of the device	8F3B1H-TQA1/0	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360806	FLANGE 100-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353049	FLANGE 100-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
71070411	Gasket SNP V-3-129-4.0-3.2, OST			
71360810	FLANGE 100-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015			

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			71359428	FLANGE 100-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71070411	Gasket SNP F 3-129-4.0-3.2, OST

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7	DN 150	Basic version of the device	8F3B1F-LQW4/0	Promass F 300. Compact, robust two-pipe system. Sealed shell. Compact body with two compartments. Integral execution. Pressure: 4 MPa Design temperature: - 60...+150 C
		Explosion protection	GB	GB EAC; Z0/1, Z21, Ex de, IIC/IIIC
		Nutrition	D	24 V DC
			E	100-230 VAC
		Output signals, Input 1	BA	4-20mA HART
		Output signals, Input 2	E	Pulse/Frequency/Digital output
		Output signals, Input 1	A	Not;
		Display	F	control: 4-page backlit; sensor control
		Transmitter housing	BUT	Coated aluminum
		Cable entry:	BUT	M20 threaded gland
		Wet end material	SA	Stainless steel 316L
		Connection of the measuring instrument to the process, version	DOS	PN40, flange EN1092-1-E (71493964)
			D2S	PN40, flange EN1092-1-B
		Accuracy class, calibration %	A	0,10%
		Instrument model	A1	1
		Display menu language	AI	Russian
		Application software package	EB	Heartbeat Verification + monitoring
		Marking	Z1	Designation (TAG) stainless steel label steel 50061469
		Counter flange design	71360816	FLANGE 150-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353044	FLANGE 150-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
71070413	Gasket SNP V-3-183-4.0-3.2, OST			
71360820	FLANGE 150-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015			

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			71359434	FLANGE 150-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71070413	Gasket SNP F-3-183-4.0-3.2, OST

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Endress+Hauser Vortex flowmeter – analog



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№\p	Device diameter, mm	Parameter	Option designation	Option name
1	DN 15	Basic version of the device	7F2C15-EL43/101	Prowirl F 200, 7F2C15, DN15 1/2" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF			

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	Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
	Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
	Pressure measurement component	A	Not used
	Connection / flanges	D6E	PN40, flange EN1092-1-E
		D6S	PN40, flange EN1092-1-B
	Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
	Device Model	A1	1
	Control menu language	AI	Russian
	Phase state of the medium	DC	Output 1 liquid
		DJ	Output 1, steam
		DT	Outlet 1, one gas
	Marking	Z1	Designations (TAG)
	Counter flange design	71360145	FLANGE 15-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
		71353046	FLANGE 15-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
		71211776	Gasket SNP V-3-29-4.0-3.2, OST
		71360149	FLANGE 15-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
		71359392	FLANGE 15-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
		71211776	Gasket SNP F-3-29-4.0-3.2, OST

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2	DN 25	Basic version of the device	7F2C25-UNP8/101	Prowirl F 200, 7F2C25, DN25 1" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
		Phase state of the medium	DC	Output 1 liquid
			DJ	Output 1, steam
DT	Outlet 1, one gas			
Marking	Z1	Designations (TAG)		

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		Counter flange design	71360159	FLANGE 25-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353036	FLANGE 25-40-11-1-B ST20-IV-GOST 33259- GOST 33259-2015
			71183132	Gasket SNP V-3-43-4.0-3.2, OST
			71360171	FLANGE 25-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359401	FLANGE 25-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71183132	Gasket SNP F-3-43-4.0-3.2, OST

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3	DN 40	Basic version of the device	7F2C40-R5N8/101	Prowirl F 200, 7F2C40, DN40 1 1/2" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
Phase state of the medium	DC	Output 1 liquid		
	DJ	Output 1, steam		
	DT	Outlet 1, one gas		

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		Marking	Z1	Designations (TAG)
		Counter flange design	71360779	FLANGE 40-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71359410	FLANGE 40-40-11-1-B -St20-IV GOST 33259 GOST 33259-2015
			71183137	Gasket SNP V-3-61-4.0-3.2, OST
			71360783	FLANGE 40-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359412	FLANGE 40-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71183137	Gasket SNP F-3-61-4.0-3.2, OST

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4	DN 50	Basic version of the device	7F2C50-14VP4/101	Prowirl F 200, 7F2C50, DN50 2" Swirl flow meter. Flanged design. Pressure 4 MPa Basic power supply 24VDC, 2 wires
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
		Phase state of the medium	DC	Output 1 liquid
			DJ	Output 1, steam
DT	Outlet 1, one gas			
Marking	Z1	Designations (TAG)		

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		Counter flange design	71360784	FLANGE 50-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353027	FLANGE 50-40-11-1-B ST20-IV-GOST 33259- GOST 33259-2015
			71070410	Gasket SNP V-3-74-4.0-3.2, OST
			71360791	FLANGE 50-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71353557	Flange 50-40-11-1-F-St20 GOST 33259- 2015
			71070410	Gasket SNP F-3-74-4.0-3.2, OST

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5	DN 80	Basic version of the device	7F2C80-11TU2/101	Prowirl F 200, 7F2C80, DN80 3" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2 wires
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
		Phase state of the medium	DC	Output 1 liquid
			DJ	Output 1, steam
DT	Outlet 1, one gas			
Marking	Z1	Designations (TAG)		

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			71360800	FLANGE 80-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71359420	FLANGE 80-40-11-1-B -St20-IV GOST 33259 GOST 33259-2015
		Counter flange design	71090891	Gasket SNP V-3-106-4.0-3.2, OST
			71360804	FLANGE 80-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359425	FLANGE 80-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71090891	Gasket SNP F-3-106-4.0-3.2, OST

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6	DN 100	Basic version of the device	7F2C1H-10D58/101	Prowirl F 200, 7F2C1H, DN100 4" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2 wires
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
		Phase state of the medium	DC	Output 1 liquid
			DJ	Output 1, steam
DT	Outlet 1, one gas			
Marking	Z1	Designations (TAG)		

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			71360806	FLANGE 100-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353049	FLANGE 100-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
		Counter flange design	71070411	Gasket SNP V-3-129-4.0-3.2, OST
			71360810	FLANGE 100-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359428	FLANGE 100-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71070411	Gasket SNP F 3-129-4.0-3.2, OST

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7	DN 150	Basic version of the device	7F2C1F-UUH6/101	Prowirl F 200, 7F2C1F, DN150 6" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	D6E	PN40, flange EN1092-1-E
			D6S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
Phase state of the medium	DC	Output 1 liquid		
	DJ	Output 1, steam		
	DT	Outlet 1, one gas		
Marking	Z1	Designations (TAG)		

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		Counter flange design	71360816	FLANGE 150-40-11-1-B -12X18H10T-IV GOST GOST 33259-2015
			71353044	FLANGE 150-40-11-1-B -ST20-IV-GOST 33259 GOST 33259-2015
			71070413	Gasket SNP V-3-183-4.0-3.2, OST
			71360820	FLANGE 150-40-11-1-F -12X18H10T-IV GOST GOST 33259-2015
			71359434	FLANGE 150-40-11-1-F -St20-IV GOST 33259 GOST 33259-2015
			71070413	Gasket SNP F-3-183-4.0-3.2, OST

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8	DN 200	Basic version of the device	7F2C2H-D420/101	Prowirl F 200, 7F2C2H, DN200 8" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2 wires
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	999	PN40, flange EN1092-1-E
			D1S	PN16, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
Phase state of the medium	DC	Output 1 liquid		
	DJ	Output 1, steam		
	DT	Outlet 1, one gas		
Marking	Z1	Designations (TAG)		

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			71388203	Flange 200-16-11-1-B-12X18H10T-IV GOST 33259-2015
			71341574	FLANGE 200-16-11-1-B -ST20-IV-GOST 33259
		Counter flange design	71229916	Gasket SNP V-3-239-1.6-3.2, OST
			71482430	Flange 200-16-11-1-F-12X18H10T-IV
			71401305	Flange 200-16-11-1-F -St20-IV-GOST 33259
			71229916	Gasket SNP F-3-239-1.6-3.2, OST

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9	DN 250	Basic version of the device	7F2C2F-6U37/101	Prowirl F 200, 7F2C2F, DN250 10" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	999	PN40, flange EN1092-1-E
			D1S	PN16, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
Phase state of the medium	DC	Output 1 liquid		
	DJ	Output 1, steam		
	DT	Outlet 1, one gas		
Marking	Z1	Designations (TAG)		

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			71402993	Flange 250-16-11-1-V-12X18H10T-IV GOST 33259-2015
			71377622	Flange 250-16-11-1-B-St20-IV GOST 33259
		Counter flange design	71183128	Gasket SNP V-3-292-1.6-3.2, OST
			71496347	Flange 250-16-11-1-F-12X18H10T-IV GOST 33259-2015
			71410416	Flange 250-16-11-1-F -St20-IV GOST 33259
			71183128	Gasket SNP F-3-292-1.6-3.2, OST

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10	DN 300	Basic version of the device	7F2C3H-5F81/101	Prowirl F 200, 7F2C3H, DN300 12" Swirl flow meter. Flanged version. Pressure 4 MPa Basic power supply 24VDC, 2-wire
		Explosion protection	GC	EAC Z0/Z1 Ex d[ia] IIC
			GA	EAC Z0 Ex ia IIC
			GR	EAC; For safe areas
		Output signals	A	4-20mA HART
		Display, buttons	A	without display
			C	Display; control: SD02 4-line; buttons + data backup function
		Sensor housing type	C	GT20 two-bay, aluminium, coated, compact
		Execution	A	Integral
			D	Remote version with 20m cable
		Electrical connection:	A	Gland M20
		Mass flow	-	Without mass flow calculation
			CA	Mass flow; 316L; 316L (integrated temperature measurement), -200...+400oC/-328...+750oF
		Wet end material	CA	Sensor version; DSC sensor; measuring tube: mass flow; 316L
		Medium temperature, C	A	Graphite, -200oC...+400oC, -328oF...752oF
		Pressure measurement component	A	Not used
		Connection / flanges	999	PN40, flange EN1092-1-E
			D1S	PN40, flange EN1092-1-B
		Accuracy class, %	K	0.75 (Liquid), 1 (Gas)
		Device Model	A1	1
		Control menu language	AI	Russian
Phase state of the medium	DC	Output 1 liquid		
	DJ	Output 1, steam		
	DT	Outlet 1, one gas		
Marking	Z1	Designations (TAG)		

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			71412517	Flange 300-16-11-1-V-12X18H10T-IV GOST GOST 33259-2015
			71344197	Flange 300-16-11-1-B-St20-IV GOST R 33259 GOST 33259-2015
		Counter flange design	71217293	Gasket SNP V-3-343-1.6-3.2, OST
			71463832	FLANGE 300-16-11-1-F-12X18H10T GOST R 54432-2011
			71384571	FLANGE 300-16-11-1-F -ST20-IV GOST R 54432-2011
			71217293	Gasket SNP F-3-343-1.6-3.2, OST

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Additional accessories

Parameter	Supplier name	
Without cable gland, with internal thread for M20x1.5 cable gland		
Explosion-proof cable entry M20x1.5, for unarmoured shielded cable with an outer diameter of 7 to 13 mm, with the possibility of fastening a metal hose DN 20	ATELEX cable gland for unarmored cable 7-13 mm in a metal hose (R3-TsKh-20, MRPI-20, FU25), M20x1.5 6g, 1ExdIIC Gb X / 1Exell Gb X, IP66/67/68	
Explosion-proof cable entry M20x1.5, for unarmored shielded cable with an outer diameter of 13 to 19 mm, with the possibility of fastening a metal hose DN 25	ATELEX cable gland (nickel-plated brass) for unarmored cable 12-19 mm in a metal hose (R3-TsKh-20, MRPI-20, FU25), M20x1.5 6g, 1ExdIIC Gb X / 1Exell Gb X, IP66/67/68	
Explosion-proof cable entry. M20x1.5, for armored shielded cable with an outer diameter of 7 to 13 mm, with the possibility of attaching armor	ATELEX cable gland for armored cable 7-13 mm in a metal hose (R3-TsKh-20, MRPI-20, FU25), M20x1.5 6g, 1ExdIIC Gb X / 1Exell Gb X, IP66/67/68	
Explosion-proof cable gland M20x1.5, for armored shielded cable with an outer diameter of 13 to 19 mm, with the possibility of attaching armor	ATELEX cable gland for armored cable 12-19 mm in a metal hose (R3-TsKh-20, MRPI-20, FU25), M20x1.5 6g, 1ExdIIC Gb X / 1Exell Gb X, IP66/67/68	
fasteners	KMCH, 12X18H10T (studs, nuts) set for DN15	
	Hairpin AM12x75 St35, GOST 9066-75	71116432
	Nut AM12 St25, GOST 9064-75	71064800
	KMCH, 12X18H10T (studs, nuts) set for DN25	
	Hairpin AM12x75 St35, GOST 9066-75	71116432
	Nut AM12 St25, GOST 9064-75	71064800
	KMCH, 12X18H10T (studs, nuts) set for DN40	
	Hairpin AM16x100 St35, GOST 9066-75	71064832
	Nut AM16 St25, GOST 9064-75	71064829
	KMCH, 12X18H10T (studs, nuts) set for DN50	
	Hairpin AM16x100 St35, GOST 9066-75	71064832
	Nut AM16 St25, GOST 9064-75	71064829
	KMCH, 12X18H10T (studs, nuts) set for DN80	
	Hairpin AM16x120 St35, GOST 9066-75	71310406
	Nut AM16 St25, GOST 9064-75	71064829
	KMCH, 12X18H10T (studs, nuts) set for DN100	
	Hairpin AM20x130 St35, GOST 9066-75	71085057
	Nut AM20 St25, GOST 9064-75	71064881
	KMCH, 12X18H10T (studs, nuts) set for DN150	
	Hairpin AM24x150 St35, GOST 9066-75	71070014
Nut AM24 St25, GOST 9064-75	71064857	
KMCH, 12X18H10T (studs, nuts) set for DN200		
Hairpin AM20x130 St35, GOST 9066-75	71085057	
Nut AM20 St25, GOST 9064-75	71064881	

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	KMCH, 12X18H10T (studs, nuts) set for DN250	
	Hairpin AM24x150 St35, GOST 9066-75	71070014
	Nut AM24 St25, GOST 9064-75	71064857
	KMCH, 12X18H10T (studs, nuts) set for DN300	
	Hairpin AM24x150 St35, GOST 9066-75	71070014
	Nut AM24 St25, GOST 9064-75	71064857
	Thermal case for transducer	Cover RIZUR A-70 for transmitter. Proline

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Terms and requirements

Delivery terms: ExWorks or DDP in Ekaterinburg, Russia (INCOTERMS).

Price breakdown required for each flowmeter.

Fixed price for at least 30 days in Russian Ruble (RUB) or Chinese yuan (CYN).

p/n	Name		Terms
1	Guarantee period		12 months from the date of commissioning, but no more than 18 months from the date of delivery
2	Conducting a training/seminar		The training / seminar is carried out by the forces and at the expense of the Supplier. to the Buyer's specialists in the operation/setting of devices (if necessary).
3	Services		Departure of those a specialist by the forces and at the expense of the Supplier in case of failure of the device (in case of emergency/impossibility to determine the cause remotely).
4	Documentation to be handed over with the delivery		1. Technical passport 2. Certificate of primary verification, made in accordance with the requirements of the Order of the Ministry of Industry and Trade of the Russian Federation No. 1815 dated July 2, 2015 3. Installation manual 4. Operation manual 5. Measurement procedure 6. Verification procedure 7. Valid certificate of approval of the type of measuring instruments with the appendix "Description of the type of measuring instrument" 8. Certificate / declaration of conformity with the requirements of the technical regulation of the Customs Union TR TS 012/2011 "On the safety of equipment for operation in explosive atmospheres" 9. Certificate / declaration of conformity with the requirements technical regulation of the Customs Union TR CU 032/2013 "On the safety of equipment operating under excessive pressure" 10. Certificate of compliance with the required SIL level

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