



Kavoshgaran Hoshmand Pars

Magic Flow Transmitter MFT2000



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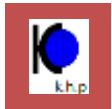


Operational Conditions

Range up to 150m/sec
DN65 – ID2500,, other size is custom made, please contact sales department.
Pressure 0 – 250 bar
Temperature -200 – 240 °C
Process Media: Gas, Steam, Liquid, Multiphase
Accuracy: better than 1 %
Bi-directional
Ultra High Rangability > 400
Ultra Low Pressure Drop

Pipe Materials

Steel
1.4828 (309) (High temperature)
Composite
Multilayer
...



Selection. Chart

Type Code

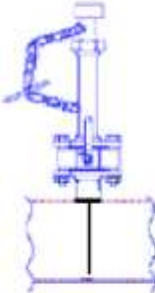
	Fluid	Process connection	Nominal Diam	Inner Diameter of Pipe	Wall Thickness	dp connection material weld-in parts	designation
DF25	-	-	DN --	ID - mm	WD - mm	-	-
	FG						Gas
	FL						Liquid
	FF						humid gases
	FD						Steam
	CR						weld-in-stud with cutting, max PN40
	CF						weld-in-stud with DIN-flange
	CA						weld-in-stud with ANSI-flange
	CP						Quicklock with chain, max. PN6
	CS						Quicklock with spindle
			DN80				nominal diameter max DN80
			DN100				nominal diameter max DN100
			DN125				nominal diameter max DN125
			DN150				nominal diameter max DN150
			DN200				nominal diameter max DN200
			DN250				nominal diameter max DN250
			DN300				nominal diameter max DN300
			DN350				nominal diameter max DN350
			DN400				nominal diameter max DN 400
			DN500				nominal diameter max DN500
			DN...				additional length each 100mm (max DN2500)
			ID_mm				inside diameter (exact) mm
				WD_mm			wall thickness (exact) mm
					AAN		Welding ends SS
					AN2		Thread, 1/2"NPT male
					MC	CS	
					ME	V4A 1.4571 SS316ti	
					MV	VA 1.4539	
					MVW	Hastelloy C4	
					MF	16 Mo 3	

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Process Connection

Code	Illustration	Explanation
-CR		Option CR (weld-in stud with cut ring) is the easiest and most economical way to install your Magicflow into a conduit. Simply drill a hole (28 mm) in the conduit, weld the stud into place and insert the Magicflow until it touches the opposite side of the conduit. Tighten the coupling nut, and you are finished. The compression ring stud can be used up to PN40.
-CF		Weld-in studs with DIN flanges (option CF) are often used in gauge pressure applications. This model is also well suited to high pressure situations, because the flange uses 4 or more mechanically redundant screws to hold the Magicflow in position. The flange is designed to divert pressure in the event of a leak, thereby preventing media from spurting in the direction of the operator. This means that the flange connection method provides an added measure of safety when the Magicflow is used to meter dangerous media under pressure, such as steam.
-CA		Provides the same advantages as option CF, but uses an ANSI flange instead of a DIN flange.
-CP		The Magicflow Quicklock with chain makes it possible to uninstall and then reinstall the Magicflow under certain operating conditions. This is particularly efficient for applications metering extremely dirty media in which the Magicflow must be uninstalled for examination purposes. The Magicflow is manually drawn back into the stud and the ball valve is then shut. At this point the probe can be completely removed. In certain circumstances, the residual contents within the probe may be released to the environment during this procedure. Because option P allows the probe to be manually removed and reinserted, it may only be used up to 6 bar g.



Instrument Sizing

Nominal Diameter

Pipe diameter must measure at least DN25 (1"), and we would need a drawing indicating the critical measurements of the existing studs. We are always happy to fulfill special requirements regarding sealing surfaces or materials.

For other diameter measurements, please contact technical department.

Order Code Explanation

-DN... Please specify the nominal diameter of your pipe (metric or ANSI units).

Inner Diameter

Code Illustration Explanation

-ID... Your Magicflow is custom-built. In order to assure that your Magicflow is ideally suited to your application, we need to know the actual interior diameter and the wall thickness of your conduit. We recommend that this measurement not be taken from your documentation, but rather measured at the planned sampling site if possible. This is particularly important for applications involving older conduit systems. It is NOT necessary to have this measurement at the bid proposal stage, but it will be required at the time the order is placed.

Wall Thickness

-TH In order to assure that your Magic flow is ideally suited to your application, we need to know the actual wall thickness of your conduit. We recommend that this measurement not be taken from your documentation, but rather measured. This is particularly important for applications involving older conduit systems. It is NOT necessary to have this measurement at the bid proposal stage, but it will be required at the time the order is placed.

Installation process:

Mark installation point on the top of pipe.

Drill the pipe on the insertion point.

Weld on the pipe or duct the gland boss.

Tight the instrument with correct orientation.

Connect the terminal.

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Upstream & Downstream Distances

The following table shows upstream and downstream distances (in multiples of inner pipe diameter DI) and the corresponding accuracies for possible connection of valves, pumps, and etc.

Mounting Situation	Expected Accuracy	Without Improve IT		Using Improve IT	
		Inlet A	Outlet B	Inlet A	Outlet B
	0,5%	14 x DI	3 x DI	7 x DI	3 x DI
	1,0%	7 x DI	3 x DI	4 x DI	3 x DI
	2,0 %	4 x DI	2 x DI	1 x DI	2 x DI
	0,5%	18 x DI	3 x DI	7 x DI	3 x DI
	1,0%	9 x DI	2 x DI	4 x DI	3 x DI
	2,0 %	5 x DI	2 x DI	2 x DI	1 x DI
	0,5%	14 x DI	3 x DI	7 x DI	3 x DI
	1,0%	7 x DI	3 x DI	4 x DI	3 x DI
	2,0 %	4 x DI	2 x DI	1 x DI	1 x DI
	0,5%	14 x DI	3 x DI	8 x DI	3 x DI
	1,0%	7 x DI	3 x DI	4 x DI	3 x DI
	2,0 %	4 x DI	2 x DI	2 x DI	1 x DI
	0,5%	36 x DI	6 x DI		
	1,0%	24 x DI	4 x DI		
	2,0 %	12 x DI	3 x DI		
	0,5%	24 x DI	6 x DI	12 x DI	3 x DI
	1,0%	17 x DI	4 x DI	7 x DI	3 x DI
	2,0 %	9 x DI	3 x DI	2 x DI	2 x DI