Туре 300





Design/Function

Type 300 is available in a variety of different circuit functions, to suit the respective application.

When energized, the solenoid armature is drawn against a spring.

The flow path through the valve is dependent upon the chosen circuit function. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Advantages/Benefits

- Body materials: brass, stainless steel
- Short response times
- Compact design
- When de-energized, outlet port exhausted or pressurized, mixer valve

Applications

- Neutral gases and liquids
- Pneumatic control equipment
- Vacuum
- Shut-off, dosing, filling and ventilating
- Gas control, welding technology
- Small-scale instruments, laboratory and measuring technology



Technical Data

Circuit Function

- C 3/2-way valve, when de-energized, outlet A exhausted
- D 3/2-way valve, when de-energized, outlet B pressurized



E Mixer valve, when de-energized pressure port P2 open, P1 closed

Operating Data (Actuator)



Body Material

Body and seat of brass Stainless steel 1.4305

Specifications

Orifice	Kv-Value	QNn-Value	Pressure Range 2)	Weight				
DN	Water	Air 1)	at Circuit Function					
			D, C	E	M 5	G 1/8		
[mm]	[m³/h]	[l/min]	[bar]	[bar]	[kg]			
1,2	0,045	48	0-10		0,10	0,12		
1,6	0,060	65	0- 6	0-3	0,10	0,12		
¹⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C., ²⁾ Also suitable for vacuum.								

All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure

Operating Data (Valve)

Seal Materials/Fluids Handled/Temp.- Range Operating voltages 24, 110, 240 V/50 Hz 12, 24 V/= NBR Neutral fluids, e.g. compressed air, town gas, 24 V battery voltage water, hydraulic oil, oils and fat without additives -10 to +90 °C ±10 % Voltage tolerance EPDM Oils and fat-free fluids, e.g. hot water AC 9 VA (inrush) Power consumption alkaline washing and bleaching lyes 6 VA/ 4 W (hold) -40 to +90 °C DC 4 W FPM Hot air, oxygen, per-solutions, hot oils Duty cycle oils with additves -10 to +100 °C for multiple assembly For more detailed information please refer to resistance chart (Leaflet-No. 1896009). Cycling rate up to 1000 c.p.m + 55 °C Max. ambient temperature with cable plug and cable Rating 21 mm²/s Max. viscosity IP65 Response times opening 12 ms Installation / Accessories closing 8 ms Installation Times measured at outlet A or B from switching on until pressure rise to 90 % / pressure drops to 10 % at a max. working pressure of 6 bar. Electrical connection plug connection without cable Port connection M5, G 1/8 · moulded-in cable on request

· moulded-in flying leads on request

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100% continuously rated, reduced duty cycle or use 2W version on request

> as required, but preferably with solenoid system upright

- plug (supplied as standard)

Dimensions in mm



Ordering Chart (Other Versions on Request)

Circuit	Orifico	Flow Rate		Dort	Pressure	Pody	Soal	Woight	Voltage/	Order-No.
Circuit Function	Orifice	Water	Air 1)	Port		Body	Seal Material	Weight	Voltage/	Order-No.
Function				Connection	Range	Material	Material		Frequency	
	DN [mm]	Kv-Value	QNn	[mm]	[hor]			[ka]	[]//11-1	
0	[mm]	[m³/h] 0,045	[l/min]	[mm]	[bar]	Draca		[kg]	[V/Hz]	062 061 T ²⁾
С	01,2	0,045	48	G 1/8	0-10	Brass	NBR	0,12	024/50 024/50	051 867 V
_	_		_			_			024/50	053 176 S ²⁾
_						_			024/=	046 018 Y
_							_		110/50	079 864 E ²⁾
_						_			110/50	062 686 T
		_				_			230/50	057 762 H ²⁾
_						_		_	230/50	058 065 B
_									240/50	079 073 G ²⁾
_	_					_		_	240/50	067 937 K
									240/30	007 737 K
_	_			M 5	0-10	Brass	NBR	0,10	024/50	053 072 V ²⁾
		_		IVI 5	0 10	Diass	NBR	0,10	024/50	045 335 Z
									024/50	043 555 Z 052 566 Y ²⁾
									024/=	046 981 K
									110/50	079 865 F ²⁾
									110/50	024 376 V
	_							_	230/50	053 071 U ²⁾
									230/50	045 752 B
	_							_	240/50	053 172 W ²⁾
									240/50	019 026 M
	_							_	240/30	017 020 101
	01,6	0,060	65	G 1/8	0-6	Brass	NBR	0,12	012/=	050 922 X
								_	024/50	046 954 X
									024/=	058 509 N
									110/50	058 876 D
									230/50	046 178 D
									240/50	061 922 N
		0,060	65	M 5	0-6	Brass	NBR	0,10	024/50	044 341 E
									024/=	042 570 E
									110/50	024 377 W
									230/50	047 599 V
									240/50	066 308 L
				G 1/8	0-6	Stainless	FPM	0,12	024/=	044 086 K
				M 5	0-6	Brass	FPM	0,10	024/=	046 483 Q
D	01,2	0,045	48	G 1/8	0-10	Brass	NBR	0,12	024/50	046 975 U
									024/=	043 861 X ²⁾
									024/=	045 435 N
									110/50	051 590 U
									230/50	058 193 Z
									240/50	067 936 J
				M 5	0-10	Brass	NBR	0,10	024/50	048 457 F
									024/=	047 763 G
									110/50	066 566 W
									240/50	066 584 R

 $^{1)}$ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, $^{2)}$ with manual overide.

Ordering Chart (Other Versions on Request)

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Circuit	Orifice	Flow Rate		Port	Pressure	Body	Seal	Weight	Voltage/	Order-No.
Function		Water	Air 1)	Connection	Range	Material	Material		Frequency	
	DN	Kv-Value	QNn							
	[mm]	[m³/h]	[l/min]	[mm]	[bar]			[kg]	[V/Hz]	
D	0,12	0,045	48	M 5	0-10	Brass	NBR	0,10	230/50	054 613 Z
	01,6	0,060	65		0-6	Brass	EPDM	0,10	024/=B ³⁾	019 878 G
				G 1/8	0-6	Brass	NBR	0,12	024/50	067 073 U
									024/=	053 130 Y
									110/50	018 819 U
									230/50	045 595 P
									240/50	055 284 Z
				M 5	0-6	Brass	NBR	0,10	024/50	053 068 H
									024/=	048 175 C
									110/50	066 586 K
									230/50	064 160 H
									240/50	066 619 B
E	01,6	0,060	65	G 1/8	0-3	Stainless	FPM	0,12	012/=	056 585 Q

⁻¹⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, ³⁾ =B battery voltage