

ZS-20 Mini

Small-scale Divert Valve

APPLICATIONS

The ZS-20 Mini valve is a pneumatic single seat valve. It uses to divert the product with a converging flow in hygienical applications of the food, beverages, pharmaceutical or chemical industries.

DESIGN AND FEATURES

Hygienic design according to EHEDG.
Gasket with specfic profile guarantees reliability under adverse working conditions.
Hygienic design of the gasket ensures optimal cleaning.
Single-acting pneumatic actuator.
Normally closed valve (NC) in its standard version.

The valve can be changes to normally open (NO) by simply reversing the position of the pneumatic actuator.
Easy disassembly of internal parts by loosening a clamp fastener.
Open lantern allows visual inspection of shaft sealing.

TECHNICAL SPECIFICATIONS

Materials	
Parts in contact with the product	1.4404 (AISI 316L)
Other steel parts	1.4301 (AISI 304)
Seals in contact with the product	EPDM
Surface finish	
Internal	Brigh polish Ra ≤ 0,8 µm
External	Matt
Sizes available	
DIN EN 10357 serie A (formerly DIN 11850 series 2)	DN 10 - DN 15 - DN 20
ASTM A269/270 (correspondtoOD pipe)	OD ½'' - OD ¾''
Connections	
Weld	

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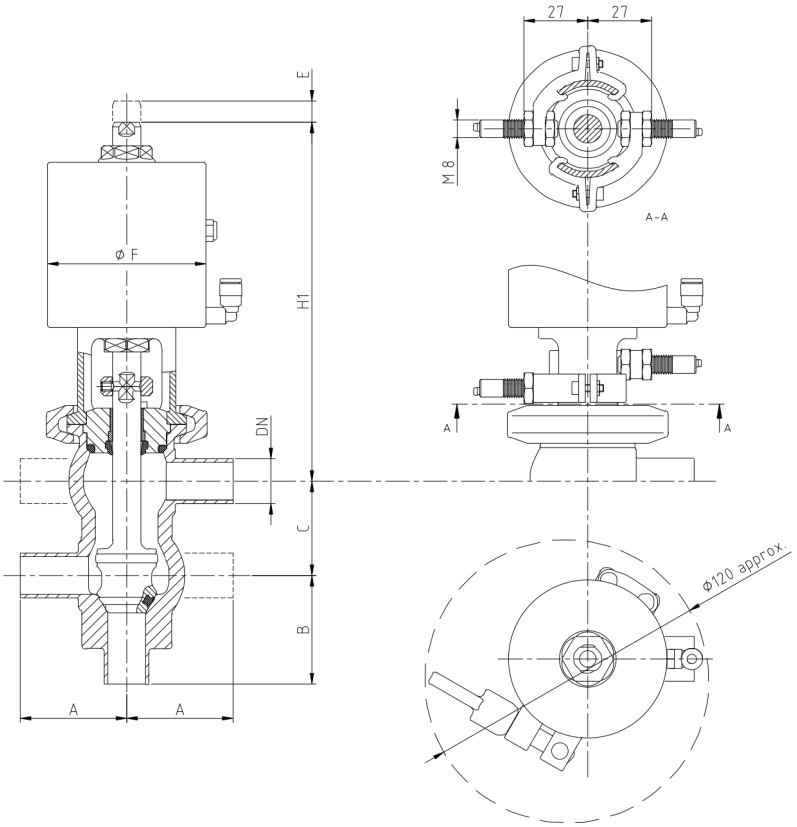
Operating limits

Working temperature	-10ºC to 121ºC
SIP temperature	140ºC (maximum 30 minutes)
Maximum working pressure	1000 kPa (10 bar)
Minimum working pressure	Vacuum
Compressed air pressure	6 - 8 bar

OPTIONS

Double-acting pneumatic actuator.
Seals: FPM and HNBR.
Other connections: male and clamp.
External position sensors.
Surface finish Ra ≤ 0,5 µm.

DIMENSIONS

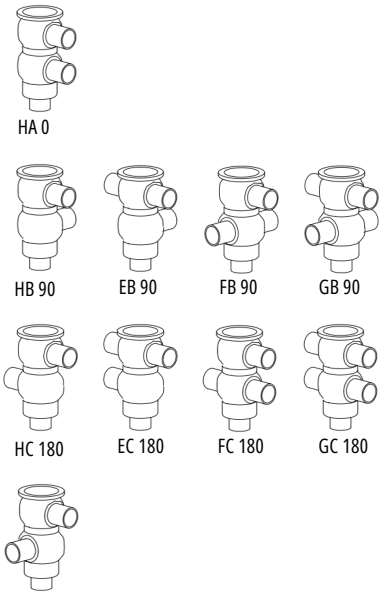


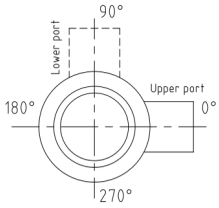
	DN	Pipe	A	B	C	ØF	E	H1	kg1
DIN	10	13,0 x 1,50	45	43	40	67	9	155	2,3
	15	19,0 x 1,50	45	46	40	67	9	152	2,4
	20	23,0 x 1,50	45	48	40	67	9	150	2,4
OD	½"	12,7 x 1,65	45	43	40	67	9	155	2,3
	¾"	19,05 x 1,65	45	46	40	67	9	152	2,4

1) The weights correspond to the HC housing combination

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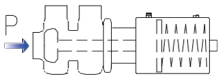
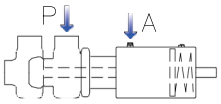
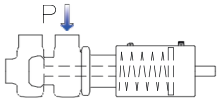
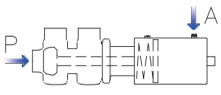
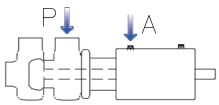
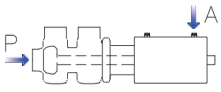
HOUSING COMBINATIONS





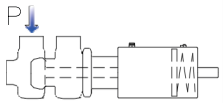
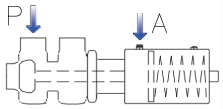
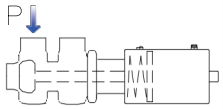
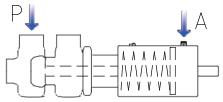
MAXIMUM PRESSURES

Maximum pressure in bar / PSI without leakage at the valve seat

Actuator / valve body combination and direction of pressure	Air pressure [bar] / [PSI]	Plug position	DN 10 OD ½" [bar] / [PSI]	DN 15 OD ¾" [bar] / [PSI]	DN 20 [bar] / [PSI]
	-	NC	10 / 145	10 / 145	10 / 145
	6 / 87	NC	10 / 145	10 / 145	10 / 145
	-	NO	10 / 145	10 / 145	10 / 145
	6 / 87	NO	10 / 145	10 / 145	10 / 145
	6 / 87	A/A	10 / 145	10 / 145	10 / 145
	6 / 87	A/A	10 / 145	10 / 145	10 / 145

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Maximum pressure in bar / PSI against which the valve can open

Combinación de actuador / cuerpo válvula y dirección de presión	Presión de aire	Posición obturador	DN 10 OD ½''	DN 15 OD ¾''	DN 20
	[bar] / [PSI]		[bar] / [PSI]		
	-	NC	10 / 145	10 / 145	10 / 145
	6 / 87	NC	10 / 145	10 / 145	10 / 145
	-	NO	10 / 145	10 / 145	10 / 145
	6 / 87	NO	10 / 145	10 / 145	10 / 145

A ≡ air
P ≡ product pressure
NC ≡ normally closed valve
NO ≡ normally open valve
A/A ≡ double acting valve
Valid values for standard actuators
For other pressures, bigger actuators can be assembled

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