D-926/S-926 - Pneumatically Actuated 2 Way Flanged Stainless Steel Ball Valve

ATEX

HP Series Actuators:

Pneumatic Rack and Pinion Actuators

D-926 - Double Acting

S-926 - Spring Return

Flanged Stainless Steel Valve:

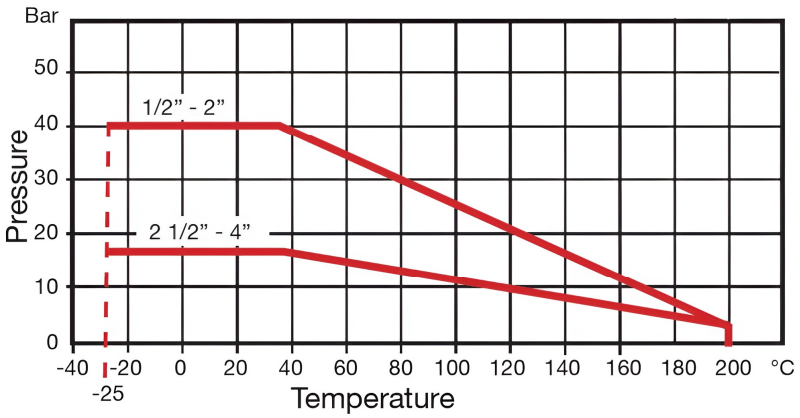
Flanged - PN16 / PN40

Sizes - 1/2" to 4"

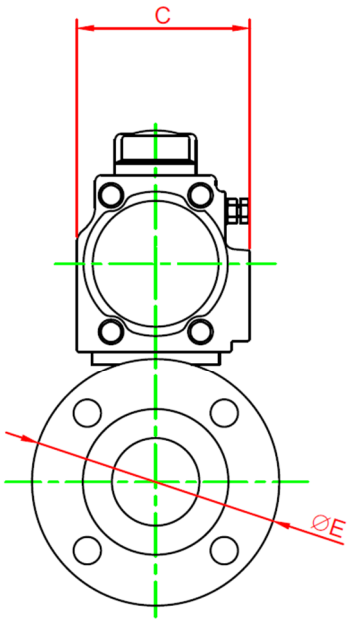
Actuator Specification	
Type	Pneumatic - Rack and Pinion
Working Pressure	2.5 to 8 Bar
Air Supply	Air or non-corrosive gas (ie. Nitrogen)
Working Temp	From –20°C to +80°C (+35°C to +80°C & -20°C to +150°C on-request)
Rotation	Anti-clockwise opening (reversable by inverting pistons)
Movement	Rotation 90° (Adjustable ±5° each end of stroke)
Body	Hard Anodized Aluminium
End Caps	Polyester coated Diecast Aluminium
Pistons	Diecast Aluminium
Pinion shaft	Nickel plated Alloy Steel
Piston Guides	PPGF (self-lubricating)
Seal Options	NBR (Viton available on request)
Types:	D-993 = Double Acting S-993 = Spring Return Actuators can be converted by adding or removing springs
Travel Stops	+/- 5° at the end of each stroke
Certification	SIL2, ATEX, PED, CE, RINA (Marine)

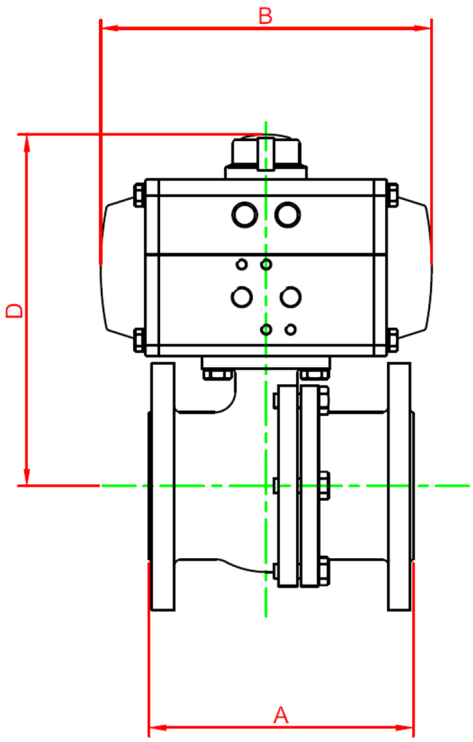
Valve Specification	
Body	CF8M Stainless Steel
Ball	AISI 316 Stainless Steel
Seats	RPTFE (15%)
Stem Seal	PTFE
O-Ring	Viton
Connection	Flanged PN16 / PN40
Maximum Pressure	½" - 2" - 40 Bar 2½" - 4" - 16 Bar
Valve Operating Temperature	-25°C to +200°C
Bore	Full Bore

Pressure / Temperature:



D-926/S-926 - Pneumatically Actuated 2 Way Flanged Stainless Steel Ball Valve





Size	Actuator Model		Operating time at 6 Bar (s)			Air Volume/Stroke (Litres)		Dimensions								
	Double Acting	Spring Return	Double Acting	Spring Return		Double Acting	Spring Return	A	B		C		D	E		
				Opening	Closing				DA	SR	DA	SR				
1/2" (15mm)	HP50D	HP50S	<1	<1	<1	0.3	0.1	115	144		72		141	115		
3/4" (20mm)	HP50D	HP50S	<1	<1	<1	0.3	0.2	120	144		72		146	150		
1" (25mm)	HP50D	HP63S	<1	<1	<1	0.3	0.2	125	144	163	72	85	152	115		
1¼" (32mm)	HP63D	HP63S	<1	<1	<1	0.5	0.2	130	163	163	85		178	150		
1½" (40mm)	HP63D	HP66S	<1	1	<1	0.5	0.2	140	163	202	85		183	150		
2" (50mm)	HP66D	HP88S	<1	1	1	0.5	0.5	150	202	247	85	108	192	165		
2½" (65mm)	HP75D	HP100S	<1	1	1	0.8	0.7	170	247	268	96	123	238	185		
3" (80mm)	HP88D	HP115S	<1	1.5	1.5	1.3	1.2	180	247	316	108	141	247	200		
4" (100mm)	HP100D	HP125S	<1	3	2	1.8	1.5	190	268	347	123	151	288	220		

Note: Actuator model specification is based on air supply of 5.5 Bar to the actuator

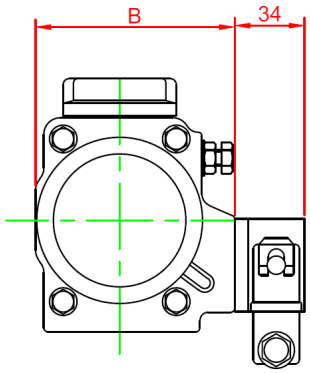
HP Series Standard Accessories

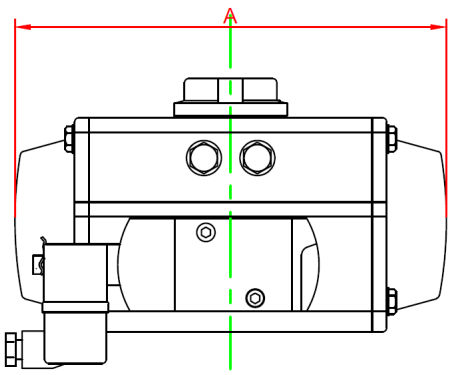
NAMUR Solenoid Valve

The HP series Actuators feature a VDI/VDE 3845 interface enabling the use of a Namur Solenoid Valve.

Features:

- 5/2 (Double Acting) 3/2 (Spring Return)
- 1/4" BSP inlet ports
- 1/8" BSP exhaust ports
- Screwdriver Override
- IP65 and SIL4 Rated
- Available in all standard voltages





Specification	Actuator	Solenoid
Pressure	3 to 8 Bar	2 to 8 Bar
Temperature	-20°C to +80°C	-25°C to +60°C

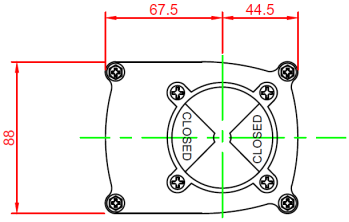
Model	50	63	66	75	88	100	115	125	145	160	180	200
A	144	163	202	210	247	268	316	347	414	467	497	555
B	72	85	85	96	108	123	141	151	172	190	206	227

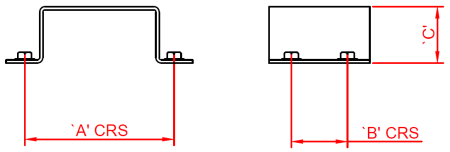
For potentially explosive environments, an ATEX explosion proof or intrinsically safe Solenoid Valve can be provided.

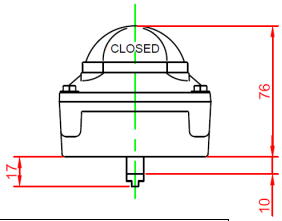
Switch Box

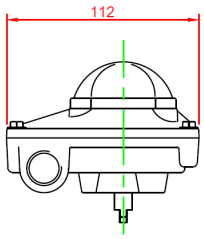
For open and closed position feedback a switch box can be fitted to the VDI/VDE 3845 NAMUR interface using a stainless steel mounting bracket:

Bracket	A	B	C	Application
MBP-100	80	30	30	80 x 30 x 20
MBP-200	80	30	40	80 x 30 x 30
MBP-300	130	30	40	130 x 30 x 30
MBP-400	130	30	60	130 x 30 x 50









Switch Box Specification	
Enclosure	IP67 Die Cast Aluminium IP67 (IP68 option available)
Finish	Polyester Powder Coating
Shaft Material	Stainless Steel
Cable Entries	2 x M20 (PH13.5 & 1/2" NPT also available)
Limit Switch Type	2 x SPDT, Mechanical (Gold Contacts available)
Voltage/Amps	250V AC/16A, 125V AC/16A, 250VDC/0.3A, 125VDC/0.6A, 30VDC/10A
Ambient Temp	-20°C to +80°C
Beacon Indicator	2 way (3 way indication option available)
Options	ATEX certification, inductive Sensors