Description

DS1 Series Pressure Switch opens and closes electrical circuit depends on pressure increase or decrease. Working pressure is adjustable between 0,2 bar and 400 bar. System has adjustable feature while system is working. They can be used under all compressed air, liquids or gases.

- Compact and economic design
- NA/NC Socket
- Reproduciblity of pressure switch in %3
- NBR, HNBR, VITON seal equipment.
- Body material stainless steel, brass, steel options.

Applications

- Hydraulic and mobile hydraulic
- Pneumatics
- Heavy Duty
- All compressed air, liquids or gases.

Technical Features

Mechanical Connection	: G1/4'' , G1/8" , 1/4'' BSPT , 1/8'' BSPT , M10x1,0 , M12 x 1,5 , 1/8'' NPT , 1/4'' NPT
Reproduciblity	: Reproduciblity of adjusted pressure in %3
Working Temperature	: -40 °C...+85 °C
(DIN EN 60068-2-27)	: 20 g (Test Time 30 min)
Shock Test (DIN EN 60068-2-27:1993)	: 30 g
Working Cycle	: 5 000 000 Cycle
Viscosity	: Between 10 ... 800 mm2/sec
Electrical Connection Feature	: 250 VAC 5A

Notes
These values are maximum values and they can not be used at the same me.
When you need to use the pressure switch in agressive chemicals or fluids please contact with us.
You must stict to rules of clearence standarts Hydraulic oils (fluids). Use filteraon to blocking system errors. It is effecve for long working life of pressure switches. Please avoid using out of indicated values to have a long service from pressure switch

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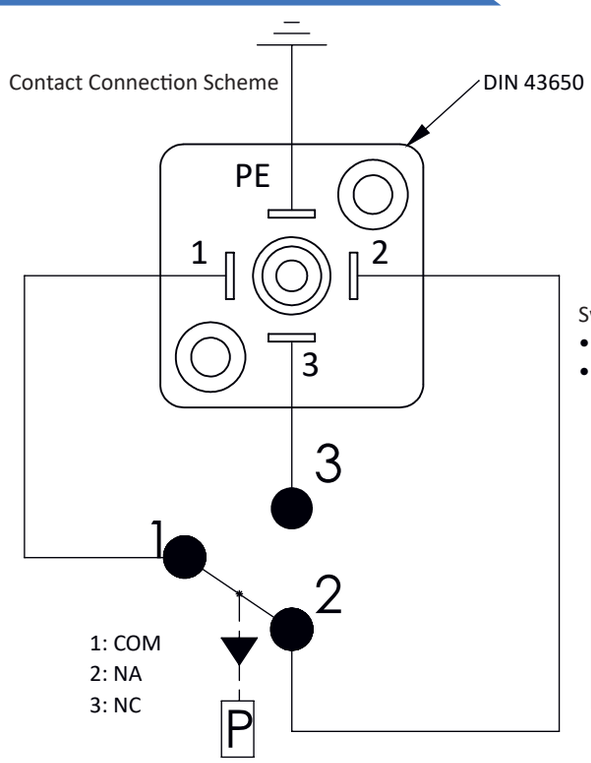
Order Codes

DS1	____	____	____	____			____	____
Model	Body	Sealing Type	Mechanical Connection	Pressure			Set Pressure	Pressure Condition
				Code	Pressure Range (bar)	P_{max}		
DS1 Model Pressure Switch	***Y*** Pirinç ''MS58'' ***Z*** Paslanmaz "316 L" If you do not indicate any body type, It is delivered as zinc-plated stainless body.	***V*** VITON ***E*** EPDM ***H*** HNBR If you do not indicate any leekageproof type, It is delivered as ''NBR''	***A3*** G1/4'' ***A4*** G1/8'' ***S3*** 1/4'' BSPT ***S4*** 1/8'' BSPT ***B1*** M10 x1,0 ***B3*** M12x1,5 ***N3*** 1/8''NPT ***N4*** 1/4''NPT	***002*** ***012*** ***100*** ***200*** ***400***	0,2 ... 2 1 ... 12 5 ... 100 20 ... 200 50 ... 400	40 bar 40 bar 600 bar 600 bar 600 bar	If you need a product that adjusted before, you can write pressure value here.	***D*** ***Droping set pressure*** ***Y*** ***Rising set pressure*** If you indicated set pressure please indicate the pressure condition

Note:
Minimum order pieces of all product whic is beginning with DS1 A3 ... codes. Order pieces must be 10 and multiples of 10.

Electrical Connection Types



Switch Function:

- Terminal 1 - 2 :It has current in case of pressure increases. (NA)
- Terminal 1 - 3 :It has current in case of pressure decreases or there is no pressure.(NC)

Electrical Connection	3-TERMINAL
Maximum Touching Surface	0,5mm²
Minimum Current	1mA 12 VDC
Maksimum Current	3A 130 VAC
Cable Length	2 meter

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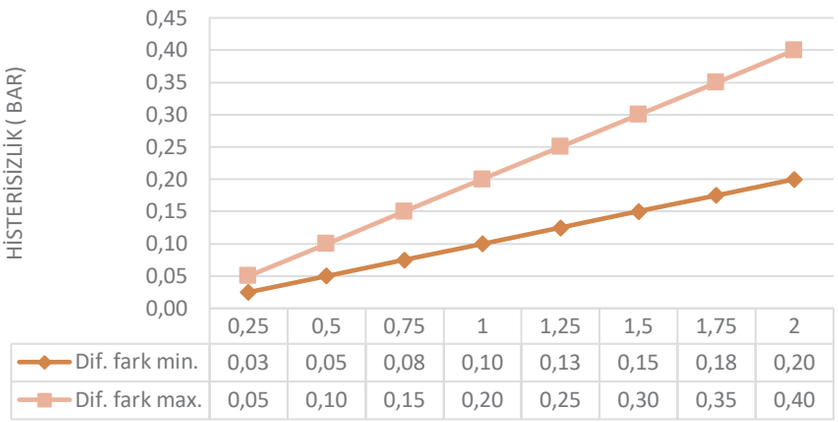
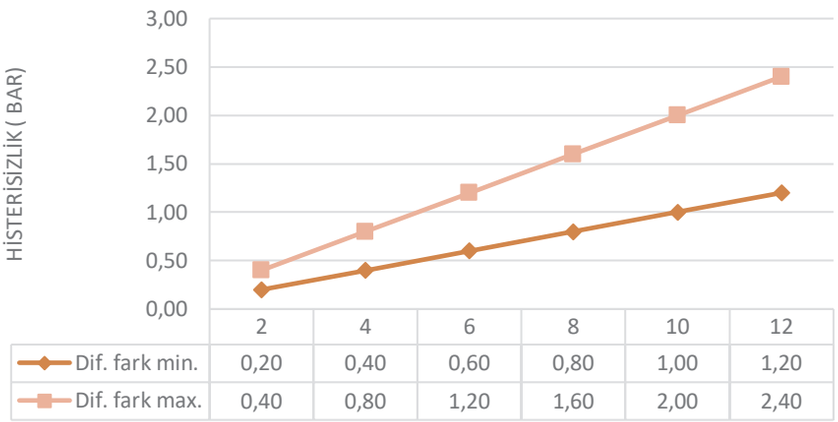
Pressure Differential Difference Graphics

Working Pressure : Adjustable between 0,2 bar ..... 2 bar.
System pressure Max. (Pmax) : 40 bar
Type : Diaphgram



	0,25	0,5	0,75	1	1,25	1,5	1,75	2
Dif. fark min.	0,03	0,05	0,08	0,10	0,13	0,15	0,18	0,20
Dif. fark max.	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40

Working Pressure : Adjustable between 1 bar ..... 12 bar .
System Pressure Max. (Pmax) : 40 bar
Type : Diaphgram



	2	4	6	8	10	12
Dif. fark min.	0,20	0,40	0,60	0,80	1,00	1,20
Dif. fark max.	0,40	0,80	1,20	1,60	2,00	2,40

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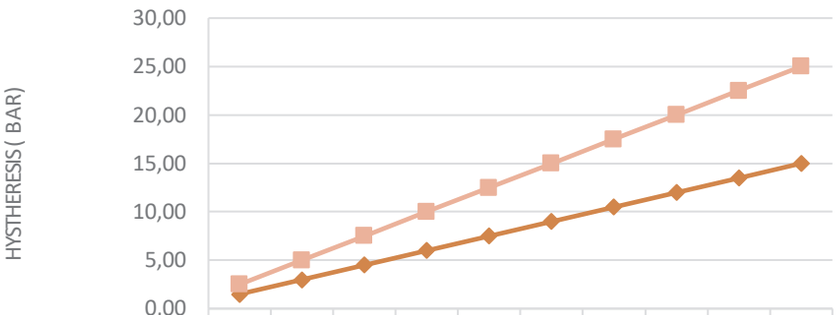
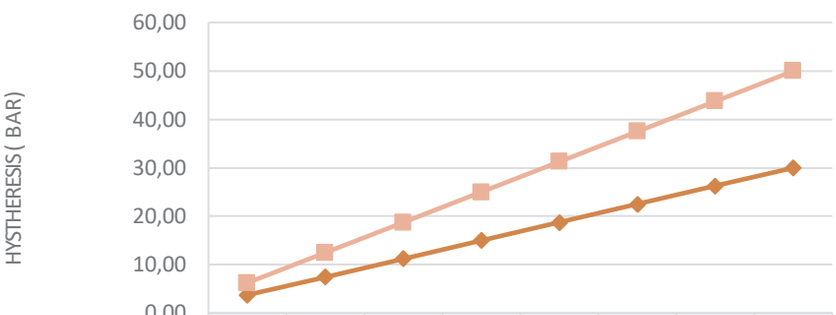
Pressure Differential Difference Graphics

Working Pressure : Adjustable between 10 bar ..... 100 bar.
System pressure Max. (Pmax) : 600 bar
Type : Piston



	10	20	30	40	50	60	70	80	90	100
Dif. min.	1,50	3,00	4,50	6,00	7,50	9,00	10,50	12,00	13,50	15,00
Dif. max.	2,50	5,00	7,50	10,00	12,50	15,00	17,50	20,00	22,50	25,00

Working Pressure : Adjustable between 20 bar ..... 200 bar .
System Pressure Max. (Pmax) : 600 bar
Type : Piston



	25	50	75	100	125	150	175	200
Dif. fark min.	3,75	7,50	11,25	15,00	18,75	22,50	26,25	30,00
Dif. fark max.	6,25	12,50	18,75	25,00	31,25	37,50	43,75	50,00

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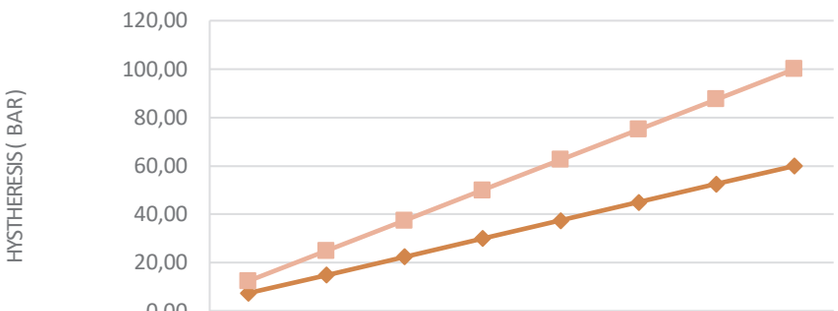
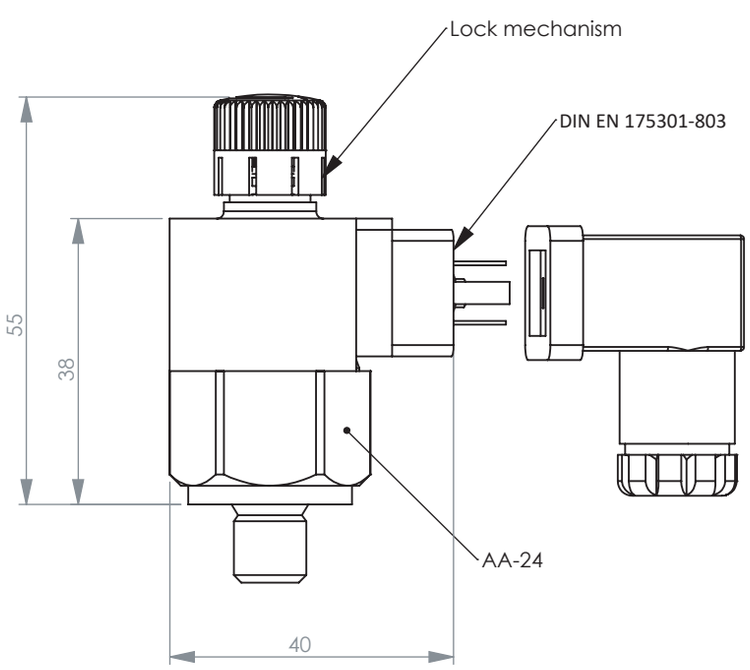
Pressure Differential Difference Graphics

Working Pressure : Adjustable between 20 bar ..... 400 bar.
System pressure Max. (Pmax) : 600 bar
Type : Piston



	50	100	150	200	250	300	350	400
Dif. fark min.	7,50	15,00	22,50	30,00	37,50	45,00	52,50	60,00
Dif. fark max.	12,50	25,00	37,50	50,00	62,50	75,00	87,50	100,00

Technical Dimensions



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