

D 500 Pressure Switch

Pressure switch for neutral media with plastic **diaphragm** sensing system

Adjustable switching pressure differential | Protection class IP65

English translation of the supplied German catalog pages



Parameter	Translated specification
Series / design	D 500 / design 7D
Media	Neutral media
Sensing system	Plastic diaphragm
Switching pressure differential	Adjustable; versions with normal or smaller differential
Protection	IP65
Ambient temperature	-5 to +40 deg C
Medium temperature	0 to +90 deg C
Temperature limitation	Sum of ambient and medium temperature: max. +90 deg C
Switch function	917 (reference in original catalog: page 32)
Switching element	1 microswitch, changeover contact
Mounting position	Any
Vibration	Limited vibration permissible / vibration-sensitive, according to the original table notation

Material codes in the original catalog: St = steel; Ms = brass. The pressure-sensor seal is specified as nitrile rubber (Nitril-Kautschuk). Connection symbol "I" is translated as female/internal thread.

D 500 - Versions with Normal Switching Pressure Differential

Switch function 917 | 1 microswitch (changeover) | mounting position: any | design 7D

Switching pressure range [bar]	Smallest adjustable differential [bar]	Largest adjustable differential [bar]	Overpressure up to [bar]	Switching rate [1/min]	Housing material	Seal	Connection	Connection size	Weight [kg]	Drawing No.	Order No.
0 ... 0.025	0.008 ... 0.011	0.025	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802200
0 ... 0.06	0.008 ... 0.015	0.04	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802500
0 ... 0.16	0.011 ... 0.023	0.12	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802700
0 ... 0.25	0.011 ... 0.028	0.2	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802800
0.05 ... 0.6	0.09 ... 0.16	0.5	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804100
0.05 ... 1.0	0.11 ... 0.18	0.8	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804200
0.05 ... 1.6	0.13 ... 0.25	1.2	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804300
0.05 ... 2.5	0.14 ... 0.25	2.0	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804400
0.3 ... 4	0.5 ... 0.8	2.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804500
0.3 ... 6	0.6 ... 1.0	4.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804600
0.5 ... 10	0.6 ... 1.1	6.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804700
1 ... 16	1.2 ... 2.5	12.0	50	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804800
1 ... 25	1.2 ... 3.3	20.0	50	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804900

Operating note from the original catalog: For the low-pressure versions, maximum switching rate is 10/min and abrupt pressure changes are not permitted. For the higher-range versions, up to 40 switching operations/min are listed; abrupt pressure changes and overpressure are permitted where indicated.

D 500 - Versions with Smaller Switching Pressure Differential

Switch function 917 | 1 microswitch (changeover) | mounting position: any | design 7D

Switching pressure range [bar]	Smallest adjustable differential [bar]	Largest adjustable differential [bar]	Overpressure up to [bar]	Switching rate [1/min]	Housing material	Seal	Connection	Connection size	Weight [kg]	Drawing No.	Order No.
0 ... 0.025	0.005 ... 0.007	0.025	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802207
0 ... 0.06	0.006 ... 0.009	0.04	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802507
0 ... 0.16	0.006 ... 0.012	0.12	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802707
0 ... 0.25	0.007 ... 0.013	0.2	0.5	max. 10	St	Nitrile rubber	Female thread	R 1/4"	1.05	05	0802807
0.05 ... 0.6	0.06 ... 0.10	0.5	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804107
0.05 ... 1.0	0.06 ... 0.12	0.8	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804207
0.05 ... 1.6	0.07 ... 0.16	1.2	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804307
0.05 ... 2.5	0.07 ... 0.20	2.0	15	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	1.20	06	0804407
0.3 ... 4	0.4 ... 0.6	2.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804507
0.3 ... 6	0.4 ... 0.6	4.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804607
0.5 ... 10	0.4 ... 0.7	6.0	40	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804707
1 ... 16	0.6 ... 1.5	12.0	50	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804807
1 ... 25	0.7 ... 2.0	20.0	50	max. 40	Ms	Nitrile rubber	Female thread	R 1/4"	0.9	07	0804907

Further versions (on request)

- With cable gland Pg 13.5, Pg 16 or M 24 x 1.5 according to DIN 89280
- With plug connector
- With increased switching capacity
- According to DVGW (A. No. G 1619), DET NORSKE VERITAS (Cert. No. A 83), or individual acceptance by German Lloyd

Notes translated from the original:

1) Nominal sizes according to VDI 3283.

2) The stated smallest switching pressure differences are maximum values. The smaller value applies at the beginning of the switching pressure range and the larger value at the end of the switching pressure range.

Original catalog reference visible in the source image: D 500 4.74, page 14.