

Differential Pressure Gauge Selection Matrix

Ashcroft differential pressure gauges are available in a wide array of ranges, mounts, and materials. Ashcroft's differential gauges are the right choice for your industrial application. Ashcroft's DP gauges makes it easy to see pressure differential from two separate inputs displayed on one gauge. Differential pressure gauges also come in many different dial sizes from 2" to 6" for easier reading.



Ashcroft DP Gauge Selection Matrix



MODEL	1125/1125A	1127/1128	5503	F5509/F6509	1130/1140	1131/1141	1132/1142	1133/1143	1134
Specifications:									
Accuracy	±2-1-2% of Span	±2-1-2% of Span	±1.6% of Span	±1.6% of Span	±2% Ascending	±2% Ascending	±2% Ascending	±2% Ascending	±3% Ascending
Range Limits	0-20 psid to 1000 psid	0-10 psid to 1000 psid	0-16 IWD to 400 psid	0-10 IWD to 400 psid	0-5 psid to 150 psid	0-5 psid to 100 psid	0-1 psid to 60 psid	0-1 IWD to 25 IWD	0/.6 IW - 60 IWD
Max. Static Pressure	20 psi to 1500 psi range dependent	10 psi to 1200 psi range dependent	1450 psi standard up to 5800 psi optional	232# for 10 IW - 3# 580# for 5 psid & up	3000 psi (6000 psi w SS)	3000 psi	1500 psi	500 psi	35 psi
Dial Size	4 ½" or 6"	4 ½" or 6"	4" or 6" (100/160 mm)	4" or 6" (100/160 mm)	2" through 6"	2 ½" through 6"	2 ½" through 6"	3 ½" through 6"	4 ½"
Case Material	Aluminum	Aluminum	304 Stainless Steel	316 Stainless Steel	Stainless Steel/Thermoplastic	Stainless Steel/Thermoplastic	Stainless Steel/Thermoplastic	Stainless Steel/Thermoplastic	Stainless Steel/Thermoplastic
Available Body Materials	NA	NA	316 SS, Hastelloy C	316 Stainless Steel	Aluminum, Brass, SS	Aluminum, Brass, SS	Aluminum, Brass, SS	Aluminum and SS.	Glass Filled Nylon
Diaphragm Material	NA	NA	316 SS 30# & up ⁽¹⁾ Hastelloy C, Monel	316 SS 15# & up ⁽¹⁾	Buna, Viton or EPDM	Buna, Viton or EPDM	Buna, Viton or EPDM	Buna, Viton or EPDM	Buna or EPDM
Tube and Socket Material	Bronze/Brass	316 SS	NA	NA	NA	NA	NA	NA	NA
Connection Size	¼ NPT	¼ NPT Lower Only	¼ or ½ NPT	¼ or ½ NPT	¼ NPTF	¼ NPTF	¼ NPTF	¼ NPTF	⅛ NPTF
Min/Max Ambient Temp.	0/150°F	0/150°F	-4/176°F	-4/176°F	-20/175°F	0/175°F	0/175°F	0/175°F	0/175°F
Min/Max Process Temp.	0/150°F	0/150°F	-40/212°F	-40/212°F	32/175°F	32/175°F ⁽²⁾	32/175°F ⁽²⁾	32/175°F ⁽²⁾	32/175°F ⁽²⁾
IP Rating	IP53	IP53	IP65	IP66/IP65 with contacts	IP65	IP65	IP65	IP65	IP65
Window	Glass; Plastic optional	Glass; Plastic optional	Safety Glass	Safety Glass	Glass; Plastic optional	Glass; Plastic, Safety Glass (Opt.)	Glass; Plastic, Safety Glass (Opt.)	Glass; Plastic, Safety Glass (Opt.)	Glass; Plastic, Safety Glass (Opt.)
Attach to Seals	Yes	Yes	Yes 10# & up	Limited, Yes 10# & up	No	No	No	No	No
Warranty	1 Year	1 Year	1 Year	1 Year	5 Years	5 Years	5 Years	5 Years	5 Years
Options	Electric Contacts		ATEX, NACE w/Hastelloy C body & diaphragm, electric contacts, 316 SS case, pipe & wall mounting brackets, 3/5-way manifolds	Electric contacts, solid front case, 316 SS case, pipe & wall mounting brackets, 3-way manifolds	Switches, front flange, liquid pipe mounting brackets, 3/5-way manifolds	Switches, front flange, liquid pipe mounting brackets, 3/5-way manifolds	Switches, front flange, liquid pipe mounting brackets, 3/5-way manifolds	Switches, front flange, liquid pipe mounting brackets, 3/5-way manifolds	Switches, front flange, liquid pipe mounting brackets, 3/5-way manifolds
Average Lead Time	5 Weeks	5 Weeks	8 Weeks	8 Weeks	3-4 Weeks	3-4 Weeks	3-4 Weeks	3-4 Weeks	3-4 Weeks
Cost Comparison	\$\$	\$\$	\$\$\$\$	\$\$\$	\$	\$	\$	\$	\$
Competition	Wika, US Gauge	Wika, US Gauge	ITT Barton, Wika	Wika	Orange Research, Midwest	Orange Research, Midwest	Orange Research, Midwest	Orange Research, Midwest	Dwyer Magnehelic, Orange Research
Application	Chemical & petrochemical industry, machine & apparatus construction, food & beverage and pulp & paper industries	Chemical & petrochemical industry, machine & apparatus construction, food & beverage and pulp & paper industries	Nace, sour gas, chemical & petrochemical industry, machine & apparatus construction, food & beverage and pulp & paper industries	Chemical & petrochemical industry, machine & apparatus construction, food & beverage and pulp & paper industries	Filtration monitoring, pump performance, strainer monitoring	Pump performance, filtration monitoring, level measurement, flow rate	Level measurement, flow rate, flow direction, pump performance, strainer monitoring and filtration monitoring	Level measurement, flow rate, flow direction, pump performance, strainer monitoring and filtration monitoring	Level measurement, flow rate, flow direction, pump performance and filtration monitoring
Switch Rating	250 V max. switching power 30 W dc max. switching power 50 VA ac max. 1 A max current	N/A	1 A 250 Vac max. (Magnetic) 8 Vdc (Inductive)	1 A 250 Vac max. (Magnetic) 8 Vdc (Inductive)	SPST Contact rating 10 VA ac or dc max. Switching current 0.5 Amp ac or dc max. Switch voltage 100 Vac/Vdc max. SDPT Contact rating 3 V ac or dc max. Switching current 0.3 Amp ac or dc max. Switch voltage 30 Vac/Vdc max.	SPST Contact rating 10 VA ac or dc max. Switching current 0.5 Amp ac or dc max. Switch voltage 100 Vac/Vdc max. SDPT Contact rating 3 V ac or dc max. Switching current 0.3 Amp ac or dc max. Switch voltage 30 Vac/Vdc max.	SPST Contact rating 10 VA ac or dc max. Switching current 0.5 Amp ac or dc max. Switch voltage 100 Vac/Vdc max. SDPT Contact rating 3 V ac or dc max. Switching current 0.3 Amp ac or dc max. Switch voltage 30 Vac/Vdc max.	SPST Contact rating 10 VA ac or dc max. Switching current 0.5 Amp ac or dc max. Switch voltage 100 Vac/Vdc max. SDPT Contact rating 3 V ac or dc max. Switching current 0.3 Amp ac or dc max. Switch voltage 30 Vac/Vdc max.	SPST Contact rating 10 VA ac or dc max. Switching current 0.5 Amp ac or dc max. Switch voltage 100 Vac/Vdc max. SDPT Contact rating 3 V ac or dc max. Switching current 0.3 Amp ac or dc max. Switch voltage 30 Vac/Vdc max.

Visit www.ashcroft.com for complete individual data sheets.

Notes:

1. Duratherm for 10psi and above. 316SS for 5psi and below.
2. The diaphragm material can be exposed to temperatures as low as -40°F. While exposed to extreme temperatures the diaphragm will stiffen and effect accuracy. Once temperature returns to the normal operating temperature the diaphragm will continue to operate without any damage to the unit.