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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 Differential Pressure Gauge Selection Matrix

									
MODEL:	1125/1125A	1127/1128	5503	5509	1130	1131	1132	1133	1134
Specifications:									
Accuracy	2-1-2% of Span	2-1-2% of Span	1.6% Full Scale	2.5% Full Scale	2% Ascending	2% Ascending	2% Ascending	2% Ascending	2% 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	30 psi to 1500 psi range dependent	45 psi to 1200 psi range dependent	1450 psi standard 3625 psi optional	145# for 10 IW - 3# 360# for 5 psid & up	3000 psi (6000 w SS)	3000 psi	1500 psi	500 psi	35 psi
Dial Size	4½" or 6"	4½" or 6"	4" or 6" (100/160mm)	4" or 6" (100/160mm)	2" through 6"	2½" through 6"	2½" through 6"	3½" through 6"	4½"
Case Material	Aluminum	Aluminum	304SS	304SS	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Available Body Materials	NA	NA	316SS, Hastelloy C	316SS	Aluminum, Brass, SS	Aluminum, Brass, SS	Aluminum, Brass, SS	Aluminum and SS.	Glass Filled Nylon
Diaphragm Material	NA	NA	316SS 30# & up ^(1,2)	316SS 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	316SS	Hastelloy C, Monel	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	¼ NPTF
Min/Max Ambient Temp.	0/150°F	0/150°F	-13/175°F	-13/175°F	-40/175°F	-40/175°F	-40/175°F	-40/175°F	-40/175°F
Min/Max Process Temp.	0/150°F	0/150°F	-40/212°F	-40/212°F	-40/175°F	32/175°F ⁽³⁾	32/175°F ⁽³⁾	32/175°F ⁽³⁾	32/175°F ⁽³⁾
IP Rating	IP 53	IP 53	IP 54(dry) IP65 optl	IP 54(dry) IP65 optl	IP 65	IP 65	IP 65	IP 65	IP 65
Window	Glass, Plastic optional	Glass, Plastic optional	Shatterproof Glass	Shatterproof Glass	Glass, Plastic optional	Glass, Plastic optional	Glass, Plastic optional	Glass, Plastic optional	Glass, Plastic optional
Attach to Seals	Yes	Yes	Yes	No	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, 316SS case, pipe & wall mounting brackets, 3-way manifolds	Electric contacts, solid front case, 316SS case, pipe & wall mounting brackets, 3-way manifolds	Switches, front flange, liquid fill, explosion proof switch enclosure, pipe mounting bracket	Switches, front flange, liquid fill, explosion proof switch enclosure, pipe mounting bracket	Switches, front flange, liquid fill, explosion proof switch enclosure, pipe mounting bracket	Switches, front flange, liquid fill, pipe mounting bracket	Switches, surface or pipe mounting bracket
Average Lead Time	5 Weeks	5 Weeks	8 Weeks	8 Weeks	5 Weeks	5 Weeks	5 Weeks	5 Weeks	5 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
Applications	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	250V max. switching power 30W dc max. switching power 50 VA ac max. 1A max current	N/A	1A 250 Vac Max (Magnetic) 8 Vdc (Inductive)	1A 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 100Vac/Vdc (max) SDPT Contact rating 3V ac or dc (max) Switching current 0.3Amp ac or dc (max) Switch voltage 30Vac/Vdc (max)	SPST Contact rating 10 VA ac or dc (max) Switching current 0.5 Amp ac or dc (max) Switch voltage 100Vac/Vdc (max) SDPT Contact rating 3V ac or dc (max) Switching current 0.3Amp ac or dc (max) Switch voltage 30Vac/Vdc (max)	SPST Contact rating 10 VA ac or dc (max) Switching current 0.5 Amp ac or dc (max) Switch voltage 100Vac/Vdc (max) SDPT Contact rating 3V ac or dc (max) Switching current 0.3Amp ac or dc (max) Switch voltage 30Vac/Vdc (max)	SPST Contact rating 10 VA ac or dc (max) Switching current 0.5 Amp ac or dc (max) Switch voltage 100Vac/Vdc (max) SDPT Contact rating 3V ac or dc (max) Switching current 0.3Amp ac or dc (max) Switch voltage 30Vac/Vdc (max)	SPST Contact rating 10 VA ac or dc (max) Switching current 0.5 Amp ac or dc (max) Switch voltage 100Vac/Vdc (max) SDPT Contact rating 3V ac or dc (max) Switching current 0.3Amp ac or dc (max) Switch voltage 30Vac/Vdc (max)

Notes: 1. Duratherm for 10psi and above. 316SS for 5psi and below. 2. Optional: Hastelloy C for 30# & up 3. 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.