

## Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

● = AVAILABLE



Process Connection Type			Threaded	Threaded w/Flushing Connection	Raised Face Flange	Raised Face Flange w/Flushing Connection	In-line Threaded
Model No.	Code		100/200/300 <sup>(1)</sup>	101/201/301 <sup>(1)</sup>	102/202/302 <sup>(1)</sup>	103/203/303 <sup>(1)</sup>	104/204/304 <sup>(1)</sup>
Process Connection Size (NPT)	Female Male						
	1/4	25	02	●	●		
1/2	50	04	●	●	●	●	●
3/4	75	06	●	●	●	●	●
1	10	08	●	●	●	●	
1 1/2	15				●	●	
2	20				●	●	
3	30				●	●	
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel	S		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
304L stainless steel	C		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
K-Monel	P		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Nickel	N		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Carpenter 20	D		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Tantalum	U		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy B	G		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy C 22	J		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy C 276	H		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Teflon	T		200 & 300	201 & 301	202	203	204 & 304
Viton	Y		200 & 300	201 & 301	202	203	204 & 304
Kalrez	K		200 & 300	201 & 301	302	303	304
Titanium	TI		200	201	202	203	204
Halar Coated Monel	PH		100	101	102	103	104
Bottom Housing Materials							
Steel	B		●	●	●	●	●
304L stainless steel	CL		●	●	●	●	●
316L stainless steel	SL		●	●	●	●	●
Hastelloy B	G		●	●	●	●	●
Hastelloy C 22	J		●	●	●	●	●
Hastelloy C 276	H		●	●	●	●	●
Carpenter 20	D		●	●	●	●	●
Monel 400	M		●	●	●	●	●
Inconel 800	W		●	●	●	●	●
Nickel	N		●	●	●	●	●
PVC	V		(Socket Weld or 1/4-1/2 NPT)		1, 1 1/2		
Tantalum Clad SS	SU				●		
Halar <sup>®</sup> Coated SS	SH				●		
Teflon	T				1, 1 1/2, 2		
Kynar	KY		Only 1/4 or 1/2 NPT		1, 1 1/2, 2		
Titanium	TI		●	●	●	●	●
Pressure Ratings							
500 psi			Viton or Kalrez diaph. only	Viton or Kalrez diaph. only			Viton or Kalrez diaph. only
2500 psi			Metal & Teflon <sup>®</sup> diaph.	●			Metal & Teflon <sup>®</sup> diaph.
5000 psi	HP		100 & 200 metal				
7500 psi							
15000 psi	HP						
Flange Class							
150, 300, 600, 900 or 1500					Kalrez, Teflon, Viton, Kynar 150 only	Kalrez, Teflon, Viton, Kynar 150 only	
Instrument Connection Size							
1/4	02T		●	●	●	●	●
1/2	04T		●	●	●	●	●
Filling Fluid							
Glycerin	CG		●	●	●	●	●
Silicone (direct to 10' capillary)	CK		●	●	●	●	●
Silicone (over 10' capillary)	EJ		●	●	●	●	●
Halocarbon	CF		●	●	●	●	●
Syltherm	HA		●	●	●	●	●

<sup>(1)</sup>Type 300 series not available with metallic diaphragms

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Process Connection Type		Saddle	In-line Flanged	In-line Socket Weld	In-line Butt Weld	Male/Female Threaded Mini (*Flushing Conn.)
Model No.	Code	105/205	106/206	107/207	108	310/315*
<b>Process Connection Size (NPT)</b>						
	<b>Female</b>					<b>Female</b>
	<b>Male</b>					<b>Male</b>
1/4	25 02			●	●	● ●
1/2	50 04		●	●	●	● ●
3/4	75 06		●	●	●	●
1	10 08		●	●	●	●
1 1/2	15		●	●	●	
2	20		●	●	●	
3	30	3"	●			
4	40	4" and larger				
6	60		●			
8	80		●			
<b>Diaphragm Materials</b>						
316L stainless steel	S	●	●	●	●	●
304L stainless steel	C	●	●	●	●	
K-Monel	P	●	●	●	●	●
Nickel	N	●	●	●	●	
Carpenter 20	D	●	●	●	●	
Tantalum	U	●	●	●	●	●
Hastelloy B	G	●	●	●	●	
Hastelloy C 22	J	●	●	●	●	
Hastelloy C 276	H	●	●	●	●	●
Teflon	T	205	206	207	208	
Viton	Y	205	206	207	208	
Kalrez	K	205	206	207	208	
Titanium	TI	205	206	207	208	
Halar Coated Monel	PH	105	106	107	108	
<b>Bottom Housing Materials</b>						
Steel	B	●	●	●	●	
304L stainless steel	CL	●	●	●	●	
316L stainless steel	SL	●	●	●	●	●
Hastelloy B	G	●	●	●	●	
Hastelloy C 22	J	●	●	●	●	
Hastelloy C 276	H	●	●	●	●	●
Carpenter 20	D	●	●	●	●	
Monel 400	M	●	●	●	●	●
Inconel 800	W	●	●	●	●	
Nickel	N	●	●	●	●	
PVC	V					
Tantalum Clad SS	SU					
Halar® Coated SS	SH					
Teflon	T					
Kynar	KY					
Titanium	TI	●		●	●	
<b>Pressure Ratings</b>						
500 psi		Viton or Kalrez diaph. only		Viton or Kalrez diaph. only	Viton or Kalrez diaph. only	
2500 psi		Metal & Teflon® diaph.		Metal & Teflon® diaph.		
5000 psi	HP					
7500 psi						
15000 psi	HP					
<b>Flange Class</b>						
150, 300, 600, 900 or 1500			150 & 300			
<b>Instrument Connection Size</b>						
1/4	02T	●	●	●	●	●
1/2	04T	●	●	●	●	●
<b>Filling Fluid</b>						
Glycerin	CG	●	●	●	●	●
Silicone (direct to 10' capillary)	CK	●	●	●	●	●
Silicone (over 10' capillary)	EJ	●	●	●	●	●
Halocarbon	CF	●	●	●	●	●
Syltherm	HA	●	●	●	●	●

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Process Connection Type		Female & Male Threaded		Female Threaded (w/Flushing Conn.)		Quick Connect		1" Male Flush Mini		Threaded (*Flushing Conn.)	
Model No.	Code	311		312		320/321		330		400/401*	
Process Connection Size (NPT)	Female	Male	Female	Male							
1/4	25	02	•	•	•	•	•				•
1/2	50	04	•	•	•	•	•				•
3/4	75	06		•	•						•
1	10	08		•	•			•			•
1 1/2	15						•				
2	20						•				
3	30										
4	40										
6	60										
8	80										
Diaphragm Materials											
316L stainless steel	S		•		•		•		•		•
304L stainless steel	C										
K-Monel	P										•
Nickel	N										
Carpenter 20	D										
Tantalum	U		•		•						•
Hastelloy B	G										•
Hastelloy C 22	J										•
Hastelloy C 276	H		•		•						•
Teflon	T										
Viton	Y										
Kalrez	K										
Titanium	TI										•
Halar Coated Monel	PH										
Bottom Housing Materials											
Steel	B										
304L stainless steel	CL										
316L stainless steel	SL		•		•		•		•		•
Hastelloy B	G										
Hastelloy C 22	J										•
Hastelloy C 276	H		•		•						•
Carpenter 20	D										
Monel 400	M										•
Inconel 800	W										
Nickel	N										
PVC	V										
Tantalum Clad SS	SU										
Halar® Coated SS	SH										
Teflon	T										
Kynar	KY										
Titanium	TI										
Pressure Ratings											
500 psi											
2500 psi			1000		1000		•				
5000 psi	HP										
7500 psi											•
15000 psi	HP										400 only
Flange Class											
150, 300, 600, 900 or 1500											
Instrument Connection Size											
1/4	02T		•		•		•		•		•
1/2	04T		•		•		2" only		•		•
Filling Fluid											
Glycerin	CG		•		•		•		•		•
Silicone (direct to 10' capillary)	CK		•		•		•		•		•
Silicone (over 10' capillary)	EJ		•		•		•		•		•
Halocarbon	CF		•		•		•		•		•
Syltherm	HA		•		•		•		•		•

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Process Connection Type		Raised Face Flange (*Flushing Conn.)	Threaded (*Flushing Conn.)	Low Pressure Flanged (*w/Flushing Conn.)	Low Pressure Threaded (*w/Flushing Conn.)
Model No.	Code	402/403*	500/501*	702/703*	740/741*
<b>Process Connection Size (NPT)</b>					
	Female Male				
1/4	25 02				●
1/2	50 04	●	●	●	●
3/4	75 06	●	●	●	●
1	10 08	●	●	●	●
1 1/2	15	●		●	
2	20	●		●	
3	30	●		●	
4	40				
6	60				
8	80				
<b>Diaphragm Materials</b>					
316L stainless steel	S	●	●	●	●
304L stainless steel	C				
K-Monel	P	●	●	●	●
Nickel	N				
Carpenter 20	D				
Tantalum	U	●	●	●	●
Hastelloy B	G		●	●	●
Hastelloy C 22	J	●	●		
Hastelloy C 276	H	●	●	●	●
Teflon	T				
Viton	Y				
Kalrez	K				
Titanium	TI		●	●	●
Halar Coated Monel	PH				
<b>Bottom Housing Materials</b>					
Steel	B		●		●
304L stainless steel	CL				
316L stainless steel	SL	●	●	●	●
Hastelloy B	G			●	●
Hastelloy C 22	J	●	●		
Hastelloy C 276	H	●	●	●	●
Carpenter 20	D			●	●
Monel 400	M	●	●	●	●
Inconel 800	W				
Nickel	N				
PVC	V				
Tantalum clad stainless steel	SU				
Halar® coated stainless steel	SH				
Teflon	T				
Kynar	KY				
Titanium	TI		●	●	●
<b>Pressure Ratings</b>					
500 psi			●	750	750
2500 psi					
5000 psi	HP				
7500 psi					
15000 psi	HP				
<b>Flange Class</b>					
150, 300, 600, 900 or 1500		●		150-600	
<b>Instrument Connection Size</b>					
1/4	02T	●	●	●	●
1/2	04T	●	●	●	●
<b>Filling Fluid</b>					
Glycerin	CG	●	●	●	●
Silicone (direct to 10' capillary)	CK	●	●	●	●
Silicone (over 10' capillary)	EJ	●	●	●	●
Halocarbon	CF	●	●	●	●
Syltherm	HA	●	●	●	●

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