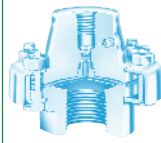


Diaphragm Seals/ Instrument Isolators

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 ⁽¹⁾	101/201/301 ⁽¹⁾	102/202/302 ^(1,2)	103/203/303 ^(1,2)	104/204/304 ⁽¹⁾	
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	
Monel 400	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 600	W	•	•	•	•	•	
Nickel	N	•	•	•	•	•	
PVC	V	(Socket Weld or 1/4-1/2 NPT)		1, 1 1/2			
Tantalum Clad SS	SU			•			
Halar® Coated Monel	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® diaph.	•			Metal & Teflon® 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	•	•	•	•	•	

⁽¹⁾ Type 300 series not available with metallic diaphragms.

⁽²⁾ Type 302/303 not available with 1" process size.

Consult factory for guidance in product selection.
Phone 203-378-8281, visit our web site
www.ashcroft.com or email: info@ashcroft.com.

ASHCROFT®

Diaphragm Seals/ Instrument Isolators

Specification Matrix

Ashcroft Diaphragm Seals &
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• = AVAILABLE



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*
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		3"	•			
4	40		4" and larger				
6	60			•			
8	80			•			
Diaphragm Materials							
316L stainless steel	S		•	•	•	•	•
304L stainless steel	C		•	•	•	•	
Monel 400	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	
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 600	W		•	•	•	•	
Nickel	N		•	•	•	•	
PVC	V						
Tantalum Clad SS	SU						
Halar® Coated Monel	SH						
Teflon	T						
Kynar	KY						
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® diaph.		Metal & Teflon® diaph.		
5000 psi	HP						
7500 psi							
15000 psi	HP						
Flange Class							
150, 300, 600, 900 or 1500				150 & 300			
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		•	•	•	•	•

Diaphragm Seals/ Instrument Isolators

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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							
Monel 400	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 600	W							
Nickel	N							
PVC	V							
Tantalum Clad SS	SU							
Halar® Coated Monel	SH							
Teflon	T							
Kynar	KY							
Titanium	TI							
Pressure Ratings								
500 psi								
2500 psi			1000		1000	•		
5000 psi	HP							
7500 psi								4400
15000 psi	HP							9000
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		•		•	•	•	•

Diaphragm Seals/ Instrument Isolators

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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.)	Isolation Ring
Model No.	Code		402/403*	500/501*	702/703*	740/741*	80/81/85/86
Process Connection Size (NPT)							Pipe Size
	Female	Male					
¼	25	02				•	1.0" 14.0"
½	50	04	•	•	•	•	1.5" 16.0"
¾	75	06	•	•	•	•	2.0" 18.0"
1	10	08	•	•	•	•	3.0" 20.0"
1½	15		•		•		4.0"
2	20		•		•		5.0"
3	30		•		•		6.0"
4	40						8.0"
6	60						10.0"
8	80						12.0"
Diaphragm Materials							Liner Materials / Code
316L stainless steel	S		•	•	•	•	Buna N (E)
304L stainless steel	C						Teflon (T)
Monel 400	P		•	•	•	•	Viton (Y)
Nickel	N						Nordell EPDM (EP)
Carpenter 20	D						White Neoprene (CR)
Tantalum	U		•	•	•	•	Natural Rubber (NP)
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							Ass'y Flanges / Code
Steel	B			•		•	Carbon Steel (B)
304L stainless steel	CL						316 SS (S)
316L stainless steel	SL		•	•	•	•	CPVC (CP)
Hastelloy B	G						Teflon Enveloped (CT)
Hastelloy C 22	J		•	•			Polypropylene (PP)
Hastelloy C 276	H		•	•	•	•	
Carpenter 20	D						
Monel 400	M		•	•	•	•	
Inconel 600	W						
Nickel	N						
PVC	V						
Tantalum Clad SS	SU						
Halar® Coated Monel	SH						
Teflon	T						
Kynar	KY						
Titanium	TI			•	•	•	
Pressure Ratings							Instrument Conn / Code
500 psi				•	750	750	1/4 NPT (02T)
2500 psi							1/2 NPT (04T)
5000 psi	HP						
7500 psi							
15000 psi	HP						
Flange Class							
150, 300, 600, 900 or 1500			•		150-600		
Instrument Connection Size							
¼	02T		•	•	•	•	
½	04T		•	•	•	•	
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			Diaphragm Seal	Diaphragm Seal	Diaphragm Seal (w/Flushing Conn.)	Diaphragm Seal (w/Flushing Conn.)
Model No.	Code		510	510HP	511	511HP
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		•	•	•	•
304L stainless steel	C					
Monel 400	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 600	W					
Nickel	N					
PVC	V					
Tantalum Clad SS	SU					
Halar® Coated Monel	SH					
Teflon	T					
Kynar	KY					
Titanium	TI					
Pressure Ratings ⁽¹⁾						
500 psi						
2500 psi			1500		1500	
5000 psi	HP			•		•
7500 psi						
9000 psi	HP					
Flange Class						
150, 300, 600, 900 or 1500						
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		•	•	•	•