

- For pressure instruments ranging from 30" H₂O to 750 psi
- Used in instruments with large displacement actuators
- For applications requiring an impermeable metallic diaphragm
- Available in many material combinations
- Diaphragm electron beam welded to isolator body
- Furnished with fill/bleed connection


SELECTION TABLES
Table A – Process Connection/Type Number

Process Connection	Process Connection Size/Code – Inches ⁽¹⁾⁽²⁾											Type No.	Pressure Rating ⁽¹⁾
	Size Code	¼	½	¾	1	1½	2	3	4	6	8		
Threaded–female NPT	•	•	•	•	•	•	•	•	•	•	•	740	30 in.H ₂ O to 750 psi
Threaded–female NPT (with flushing connection) ⁽²⁾	•	•	•	•	•	•	•	•	•	•	•	741	30 in.H ₂ O to 750 psi
												Type No.	Flange Rating
Raised Face Flange		•	•	•	•	•	•	•	•	•	•	702	150 to 600 class
Raised Face Flange (with flushing connection) ⁽²⁾		•	•	•	•	•	•	•	•	•	•	703	150 to 600 class

(1) Per ASME B16.5.

(2) 741 and 703 seal supplied with ¼" flushing connection.

**Table B
Diaphragm Materials⁽¹⁾**

Material	Code	Top Material
316L stainless steel	S	316L SS
Hastelloy B	G	316L SS
Hastelloy C 276	H	316L SS
Tantalum	U	316L SS
K-Monel	P	Monel 400
Titanium	TI	Titanium

(1) Diaphragms welded to top housing.

**Table C
Bottom Housing Materials**

Material	Code
Steel	C
316L stainless steel	S
Hastelloy B	G
Hastelloy C 276	H
Carpenter 20	D
Monel	M
Titanium	TI

**Table D
Instrument Connection**

Size – NPT	Code
¼	02T
½	04T

Table E – Filling Fluid

Filling	Service	Connection to Instrument	Temperature Range °F	Code
Glycerin ⁽¹⁾	Pressure	Direct Only	0/400	CG
Silicone	Pressure/Vacuum	Direct or Flexible Line	-40/600	CK
Halocarbon ⁽²⁾	Pressure/Vacuum in presence of strong oxidizing agents	Direct or Flexible Line	-70/300	CF
Syltherm	Pressure/Vacuum	Direct or Flexible Line	-40/750	HA

(1) Glycerin not recommended for vacuum, compound or inches of water ranges.

(2) Halocarbon required on applications involving strong oxidizing agents.

TO ORDER THIS TYPE 740 DIAPHRAGM SEAL:

1. From **Table A**...select TYPE NUMBER and process connection size (e.g., ¼" process–code 50-740)
2. From **Table B**...select DIAPHRAGM MATERIAL. (e.g., Tantalum–code U)
3. From **Table C**...select BOTTOM HOUSING MATERIAL. (e.g., Hastelloy C 276–code H)
4. From **Table D**...select INSTRUMENT CONNECTION size. (e.g., ½ NPT–code 04T)
5. From **Table E**...select FILLING FLUID, if diaphragm seal will be attached to instrument. (e.g., Halocarbon–code CF)

Coded order: 50-740-UH-04T-CF

**Consult factory for guidance in product selection
Phone (203) 385-0217, Fax (203) 385-0602 or
visit our web site at www.ashcroft.com**