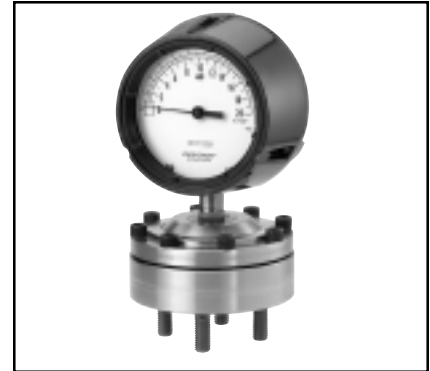


Instrument Isolator Type 740, 741, 702, 703 High Displacement

- 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	¼	½	¾	1	1½	2	3	4	6	8			
	Code	25	50	75	10	15	20	30	40	60	80			
Threaded–female NPT		•	•	•	•								740	30" H ₂ O to 750 psi
Threaded–female NPT (with flushing connection) ⁽²⁾		•	•	•	•								741	30" 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 1/4" flushing connection..

Table B
Diaphragm Materials⁽¹⁾

Material	Code	Top Material
316L SS ⁽²⁾	S	316L SS
Hastelloy B	G	316L SS
Hastelloy C	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 SS	S
Hastelloy B	G
Hastelloy C	H
Carpenter 20	D
Monel	M
Titanium	Ti

Table D
Instrument Connection

Size – NPT	Code
1/4	02T
1/2	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., 1/4" 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–code H)
 4. From Table D...select INSTRUMENT CONNECTION size. (e.g., 1/2 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