

- 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



Type 740



Type 702

SELECTION TABLES

Table A – Process Connection/Type Number

Process Connection	Process Connection Size/Code – Inches ⁽¹⁾⁽²⁾											Type No.	Pressure Rating ⁽¹⁾
	Size Code	1/4	1/2	3/4	1	1 1/2	2	3	4	6	8		
Threaded–female NPT	25	50	75	10	15	20	30	40	60	80		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 1/4" 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
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.

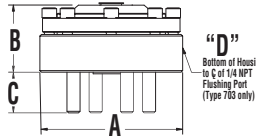
(2) Halocarbon required on applications involving strong oxidizing agents.

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 276–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

Types 702, 703*

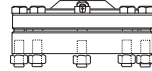


Types 702, 703 – Flanged – 1/2" through 3"

Rating # Size	A		150# B		C		703 Only, All Sizes D	
	in.	mm	in.	mm	in.	mm	in.	mm
1/2"	5-5/16	(135)	2-9/16	(65)	1-15/32	(37)	1-1/16	(27)
3/4"	5-5/16	(135)	2-9/16	(65)	1-15/32	(37)	1-1/16	(27)
1"	5-5/16	(135)	2-1/2	(64)	1-15/32	(37)	1	(25)
1-1/2"	5-5/16	(135)	2-1/2	(64)	1-15/32	(37)	1	(25)
2"	6	(152)	2-5/8	(67)	2-1/16	(52)	1-1/8	(29)
2-1/2"	7-1/2	(191)	2-1/2	(64)	2-1/16	(52)	1	(25)
3"	7-1/2	(191)	2-3/8	(60)	2-1/16	(52)	1-1/16	(27)

Rating # Size	A		300# B		C		703 Only, All Sizes D	
	in.	mm	in.	mm	in.	mm	in.	mm
1/2"	5-5/16	(135)	2-9/16	(65)	1-15/32	(37)	1-1/16	(27)
3/4"	5-5/16	(135)	2-3/4	(70)	2-1/16	(52)	1-1/16	(27)
1"	5-5/16	(135)	2-3/4	(70)	2-1/16	(52)	1	(25)
1-1/2"	6-1/2	(165)	2-3/4	(70)	2-11/16	(68)	1	(25)
2"	6-1/2	(165)	2-5/8	(67)	2-1/16	(52)	1-1/8	(29)
2-1/2"	7-1/2	(191)	2-5/8	(67)	2-11/16	(68)	1	(25)
3"	8-1/2	(216)	2-5/8	(67)	2-11/16	(68)	1-1/16	(27)

Types 740, 741



Types 740, 741 – High Displacement – Threaded – 1/4", 1/2", 3/4", 1", 1 1/2"

Rating # Size	A		600# B		C		703 Only, All Sizes D	
	in.	mm	in.	mm	in.	mm	in.	mm
1/2"	5-5/16	(135)	2-3/4	(70)	1-15/32	(37)	1-1/16	(27)
3/4"	5-5/16	(135)	2-3/4	(70)	1-15/32	(37)	1-1/16	(27)
1"	5-5/16	(135)	2-3/4	(70)	1-15/32	(37)	1	(25)
1-1/2"	6-1/2	(165)	2-3/4	(70)	1-15/32	(37)	1	(25)
2"	6-1/2	(165)	2-5/8	(67)	2-1/16	(52)	1-1/8	(29)
2-1/2"	7-1/2	(191)	2-5/8	(67)	2-1/16	(52)	1	(25)
3"	8-1/2	(216)	2-5/8	(67)	2-1/16	(52)	1-1/16	(27)