



Inflatable UNISPHERE™ Pig

Sizes: 4- to 24-inch



T.D. Williamson

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■ Inflatable UNISPHERE™ Pig

Description

UNISPHERE™ Pigs are seamless, liquid-cast polyurethane spheres. They are designed for heavy-duty service in the removal of liquid hydrocarbons and water from pipelines and piping systems. UNISPHERE Pigs are undersized and can be sized to match most any pipe ID. The inflating valve(s) on the UNISPHERE Pig may be used for inflating or deflating purposes.

UNISPHERE Pigs are to be filled completely with liquid (usually a 50/50 mix of water/glycol and light weight oil). The spheres are easily inflated with a TDW inflation pump.

TDW heavy-duty UNISPHERE Pigs can be used in natural gas (wet or dry), crude oil (sweet or sour), and refined hydrocarbon products. Consult the factory for applications in special chemicals.

Recommended operating temperature is -20°F to 200°F. Care should be taken when handling or transporting at temperatures below freezing.

Features

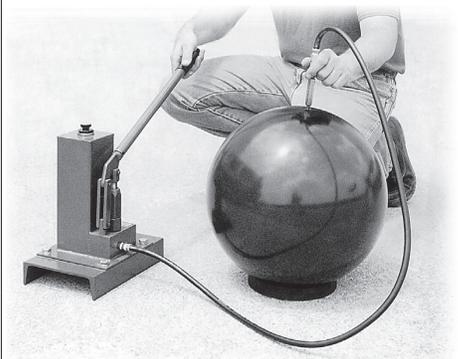
The polyurethane used to make UNISPHERE Pigs is TDW's own formula. It provides excellent resistance to abrasion, low temperature, and hydrocarbons with minimum swelling and no blisters. It also gives maximum flexibility and tear strength.

UNISPHERE Pigs must be filled with liquid prior to placing into service. By removing the inflating valve, liquid may be poured into the sphere. Once the sphere is completely filled, the inflating valve must be reinstalled. If inflation beyond the natural sphere OD is required, an inflation pump is required.

Options

T. D. Williamson is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs.

- TDW offers a UNISPHERE Pig for thin wall pipe in sizes 4" - 14".
- Different urethane formulations are available for unique applications.



■ UNISPHERE™ Pigs are inflated easily.



UNISPHERE™ Pigs

Size		Part Number	Sphere OD (Empty)		Approx. Wt. (Empty)		Approx. Wt. (Full of Water)		Min. Allowable ID Variations		Max. Allowable ID Variations **	
inches	mm		inches	mm	Lbs.	Kg.	Lbs.	Kg.	inches	mm	inches	mm
4"	100	01-1324-0000	3.97	100.8	.86	.4	1.4	.64	3.89	98.8	4.13	104.8
*4"	TW 100	01-1585-0000	4.12	104.8	1.2	.5	1.7	.77	4.04	102.6	4.28	108.7
6"	150	01-1325-0000	6.00	152.4	2.9	1.3	4.6	2.1	5.88	149.4	6.24	158.5
*6"	TW 150	01-1586-0000	6.25	158.8	3.6	1.6	9.3	2.4	6.12	155.4	6.49	164.8
8"	200	01-1326-0000	7.86	199.7	4.0	1.8	10.5	4.8	7.71	195.8	8.18	207.7
*8"	TW 200	01-1587-0000	8.25	209.6	8.7	3.9	12.5	5.7	8.08	205.2	8.56	217.4
10"	250	01-1327-0000	9.96	253.0	12.1	5.5	21	9.5	9.76	247.9	10.36	263.0
*10"	TW 250	01-1588-0000	10.25	260.4	14.0	6.4	23.5	10.7	10.04	255.0	10.50	266.7
12"	300	01-1328-0000	11.94	303.3	19.7	9	36	16.3	11.70	297.1	12.41	315.3
*12"	TW 300	01-1589-0000	12.25	311.2	23.0	10.0	39.4	17.9	12.00	304.8	12.57	319.3
14"	350	01-1329-0000	13.00	330.2	24.5	11.1	46	21	12.74	323.6	13.52	343.4
* 14"	TW 350	01-1590-0000	13.50	342.9	31.0	14.1	52.9	24.0	13.23	336.0	13.77	349.8
16"	400	01-0941-0000	15.00	381.0	35.0	16.0	70	32	14.78	375.3	15.60	396.2
18"	450	01-0942-0000	17.00	431.8	50.0	23.0	102	46	16.75	425.3	17.68	449.1
20"	500	01-0943-0000	19.00	482.6	67.0	30.0	142	64	18.72	475.4	19.76	501.9
22"	550	01-0944-0000	21.00	533.0	91	41	184	83	20.69	525	21.84	555
24"	600	01-0924-0000	23.00	584.2	114.0	52.0	251	114	22.66	575.4	23.92	607.6

Accessories and Replacement Parts

Pump comes complete with base, stock number pressure hose and instant-on coupling	01-0506-0000
Required Items: Hex long arm wrench, 5/32"	00-1288-0006
Hex long arm wrench, 3/8"	00-1288-0011
Filling adapter	00-1831-0003
Optional: Valve core extractor	00-1833-0001
REPLACEMENT PARTS:	
Inflating valve	00-3001-0001
Valve core	00-1829-0001
O-ring	00-0116-0007
Pipe plug	00-6311-0001

Consult the factory for sizes not shown and for minimum pipe ID smaller than listed in above chart. Do not inflate beyond pipe ID; over-inflation results in excessive wear.

*For use in Thin Wall (TW) Pipe.

** Maximum inflation diameter.