

Conduit Fittings: Reducer and Adaptor (Enlarger), DRH and DAT Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

Reducers and adaptors provide a means of attachment between dissimilar thread types or thread sizes.

Specification

Body : Brass
(optional nickel-plated brass)
Thread seal : Nylon (PA6)
(for metric threads only)

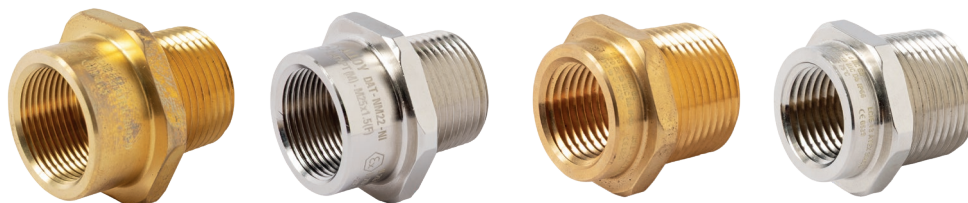
Ordering

Add suffix option (-NI) to the catalog number for brass versions only.

Example: DAT-M13-NI (Nickel-plated brass)

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex II 2G	Ex II 2D
Symbol of Protection	Ex d IIC Gb	Ex tb IIIC Db
Certificate	LCIE 13 ATEX 3046U IECEX LCIE 13.0028U	
T Rating	Temperature class of enclosure to which will be connected.	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31	
Ambient Temperature	-20°C to +75°C	
Index of Protection	IP66	



Selection Chart for Reducer and Adaptor (Enlarger)

	Female threads															
	M16x1.5	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M63x1.5	M75x1.5	M90x2.0	M100x2.0	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
M16x1.5	A	A	A								A	A	A			
M20x1.5	R	A	A	A							A	A	A			
M25x1.5	R	R	A	A	A						R	A	A	A		
M32x1.5	R	R	R	A	A	A					R	R	A	A	A	
M40x1.5		R	R	R	A	A	A				R	R	R	A	A	A
M50x1.5			R	R	R	A	A	A				R	R	R	A	A
M63x1.5				R	R	R	A	A	A				R	R	R	A
M75x1.5					R	R	R	A	A					R	R	R
M90x2.0						R	R	R	A						R	R
M100x2.0							R	R	R	A						R
1/2" NPT											A	A	A			
3/4" NPT											R	A	A	A		
1" NPT											R	R	A	A	A	
1-1/4" NPT											R	R	R	A	A	A
1-1/2" NPT												R	R	R	A	A
2" NPT													R	R	R	A
2-1/2" NPT														R	R	R
3" NPT															R	R
3-1/2" NPT																R
4" NPT																

R Reducer, DRH series

A Adaptor (Enlarger), DAT series

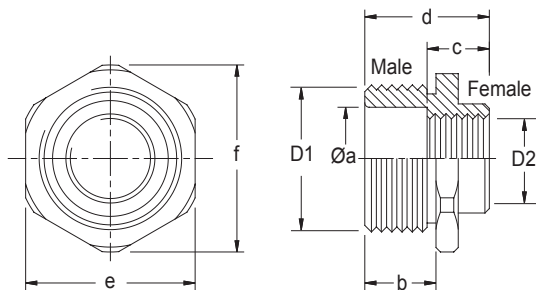
Conduit Fittings: Reducer, DRH Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Ordering Requirements and Dimensions



Thread type: NPT male to NPT female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DRH-N21	3/4" NPT	1/2" NPT	18.4	20.15	15.0	32.15	31.0	30.0
DRH-N31	1" NPT	3/4" NPT	24.0	25.01	15.0	37.01	38.1	42.0
DRH-N32	1" NPT	1/2" NPT	24.0	25.01	15.0	37.01	38.1	42.0
DRH-N41	1-1/4" NPT	3/4" NPT	31.0	25.61	15.0	39.92	44.4	49.0
DRH-N42	1-1/4" NPT	1" NPT	31.0	25.61	17.0	39.92	44.4	49.0
DRH-N52	1-1/2" NPT	3/4" NPT	37.0	26.04	15.0	40.04	57.1	63.0
DRH-N53	1-1/2" NPT	1" NPT	37.0	26.04	17.0	40.04	57.1	63.0
DRH-N54	1-1/2" NPT	1-1/4" NPT	37.0	26.04	17.5	40.04	57.1	63.0
DRH-N63	2" NPT	1" NPT	49.0	26.87	17.0	40.87	70.0	77.0
DRH-N64	2" NPT	1-1/4" NPT	49.0	26.87	17.5	40.87	70.0	77.0
DRH-N65	2" NPT	1-1/2" NPT	49.0	26.87	17.5	40.87	70.0	77.0
DRH-N74	2-1/2" NPT	1-1/4" NPT	60.0	39.91	17.5	56.91	76.2	84.0
DRH-N75	2-1/2" NPT	1-1/2" NPT	60.0	39.91	17.5	56.91	76.2	84.0
DRH-N76	2-1/2" NPT	2" NPT	60.0	39.91	18.0	56.91	76.2	84.0
DRH-N85	3" NPT	1-1/2" NPT	74.0	41.49	17.5	61.49	101.0	112.0
DRH-N86	3" NPT	2" NPT	74.0	41.49	18.0	61.49	101.0	112.0
DRH-N87	3" NPT	2-1/2" NPT	74.0	41.49	24.0	61.49	101.0	112.0
DRH-N96	3-1/2" NPT	2" NPT	86.0	42.76	18.0	62.76	114.0	126.0
DRH-N97	3-1/2" NPT	2-1/2" NPT	86.0	42.76	24.0	68.76	114.0	126.0
DRH-N98	3-1/2" NPT	3" NPT	86.0	42.76	26.0	70.76	114.0	126.0
DRH-N107	4" NPT	2-1/2" NPT	96.0	72.04	24.0	70.04	120.0	134.0
DRH-N108	4" NPT	3" NPT	96.0	72.04	26.0	70.04	120.0	134.0
DRH-N109	4" NPT	3-1/2" NPT	96.0	72.04	27.5	72.04	120.0	134.0

Thread type: Metric male to NPT female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DRH-MN21	M25x1.5	1/2" NPT	17.0	15.0	15.0	27.0	27.0	30.0
DRH-MN31	M32x1.5	3/4" NPT	24.0	15.0	15.0	27.0	38.1	42.0
DRH-MN32	M32x1.5	1/2" NPT	24.0	15.0	15.0	27.0	38.1	42.0
DRH-MN41	M40x1.5	3/4" NPT	32.0	15.0	15.0	29.0	44.4	49.0
DRH-MN42	M40x1.5	1" NPT	32.0	15.0	15.0	29.0	44.4	49.0
DRH-MN52	M50x1.5	3/4" NPT	42.0	15.0	15.0	29.0	57.1	63.0
DRH-MN53	M50x1.5	1" NPT	42.0	15.0	17.0	29.0	57.1	63.0
DRH-MN54	M50x1.5	1-1/4" NPT	42.0	15.0	17.5	29.0	57.1	63.0
DRH-MN63	M63x1.5	1" NPT	55.0	15.0	17.0	29.0	70.0	77.0
DRH-MN64	M63x1.5	1-1/4" NPT	55.0	15.0	17.5	29.0	70.0	77.0
DRH-MN65	M63x1.5	1-1/2" NPT	55.0	15.0	17.5	29.0	70.0	77.0
DRH-MN74	M75x1.5	1-1/4" NPT	67.0	15.0	17.5	32.0	76.2	84.0
DRH-MN75	M75x1.5	1-1/2" NPT	67.0	15.0	17.5	32.0	76.2	84.0
DRH-MN76	M75x1.5	2" NPT	67.0	15.0	18.0	32.0	76.2	84.0
DRH-MN85	M90x2.0	1-1/2" NPT	78.0	20.0	17.5	40.0	101.0	112.0
DRH-MN86	M90x2.0	2" NPT	78.0	20.0	18.0	40.0	101.0	112.0
DRH-MN87	M90x2.0	2-1/2" NPT	78.0	20.0	24.0	46.0	101.0	112.0
DRH-MN96	M100x2.0	2" NPT	88.0	20.0	18.0	46.0	114.0	126.0
DRH-MN97	M100x2.0	2-1/2" NPT	88.0	20.0	24.0	46.0	114.0	126.0
DRH-MN98	M100x2.0	3" NPT	88.0	20.0	26.0	48.0	114.0	126.0

Thread type: Metric male to Metric female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DRH-M10	M20x1.5	M16x1.5	14.0	15.0	15.0	27.0	22.0	24.5
DRH-M20	M25x1.5	M20x1.5	17.0	15.0	15.0	27.0	27.0	30.0
DRH-M21	M25x1.5	M20x1.5	17.0	15.0	15.0	27.0	27.0	30.0
DRH-M30	M32x1.5	M16x1.5	24.0	15.0	15.0	27.0	38.1	42.0
DRH-M31	M32x1.5	M20x1.5	24.0	15.0	15.0	27.0	38.1	42.0
DRH-M32	M32x1.5	M25x1.5	24.0	15.0	15.0	27.0	38.1	42.0
DRH-M41	M40x1.5	M20x1.5	32.0	15.0	15.0	29.0	44.4	49.0
DRH-M42	M40x1.5	M25x1.5	32.0	15.0	15.0	29.0	44.4	49.0
DRH-M43	M40x1.5	M32x1.5	32.0	15.0	15.0	29.0	44.4	49.0
DRH-M52	M50x1.5	M25x1.5	42.0	15.0	15.0	29.0	57.1	63.0
DRH-M53	M50x1.5	M32x1.5	42.0	15.0	15.0	29.0	57.1	63.0
DRH-M54	M50x1.5	M40x1.5	42.0	15.0	15.0	29.0	57.1	63.0
DRH-M63	M63x1.5	M32x1.5	55.0	15.0	15.0	29.0	70.0	77.0
DRH-M64	M63x1.5	M40x1.5	55.0	15.0	15.0	29.0	70.0	77.0
DRH-M65	M63x1.5	M50x1.5	55.0	15.0	15.0	29.0	70.0	77.0
DRH-M74	M75x1.5	M40x1.5	67.0	15.0	15.0	32.0	76.2	84.0
DRH-M75	M75x1.5	M50x1.5	67.0	15.0	15.0	32.0	76.2	84.0
DRH-M76	M75x1.5	M63x1.5	67.0	15.0	15.0	32.0	76.2	84.0
DRH-M85	M90x2.0	M50x1.5	78.0	20.0	15.0	40.0	101.0	112.0
DRH-M86	M90x2.0	M63x1.5	78.0	20.0	15.0	40.0	101.0	112.0
DRH-M87	M90x2.0	M75x1.5	78.0	20.0	15.0	40.0	101.0	112.0
DRH-M96	M100x2.0	M63x1.5	88.0	20.0	15.0	40.0	114.0	126.0
DRH-M97	M100x2.0	M75x1.5	88.0	20.0	15.0	40.0	114.0	126.0
DRH-M98	M100x2.0	M90x2.0	88.0	20.0	20.0	42.0	114.0	126.0

Thread type: NPT male to Metric female

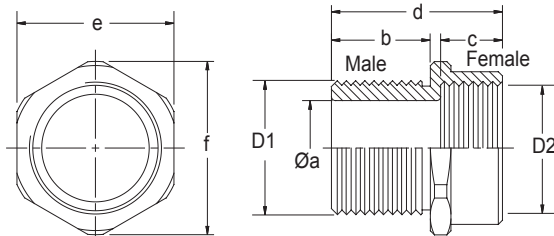
Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DRH-NM10	1/2" NPT	M16x1.5	14.0	19.85	15.0	31.85	24.0	26.5
DRH-NM20	3/4" NPT	M20x1.5	18.0	20.15	15.0	32.15	31.0	34.0
DRH-NM21	3/4" NPT	M20x1.5	18.0	20.15	15.0	32.15	31.0	34.0
DRH-NM30	1" NPT	M16x1.5	24.0	25.0	15.0	37.0	38.1	42.0
DRH-NM31	1" NPT	M20x1.5	24.0	25.0	15.0	37.0	38.1	42.0
DRH-NM32	1" NPT	M25x1.5	24.0	25.0	15.0	37.0	38.1	42.0
DRH-NM41	1-1/4" NPT	M20x1.5	31.0	25.61	15.0	39.61	44.4	49.0
DRH-NM42	1-1/4" NPT	M25x1.5	31.0	25.61	15.0	39.61	44.4	49.0
DRH-NM43	1-1/4" NPT	M32x1.5	31.0	25.61	15.0	39.61	44.4	49.0
DRH-NM52	1-1/2" NPT	M25x1.5	37.0	26.04	15.0	40.04	57.1	63.0
DRH-NM53	1-1/2" NPT	M32x1.5	37.0	26.04	15.0	40.04	57.1	63.0
DRH-NM54	1-1/2" NPT	M40x1.5	37.0	26.04	15.0	40.04	57.1	63.0
DRH-NM63	2" NPT	M32x1.5	49.0	26.87	15.0	40.87	70.0	77.0
DRH-NM64	2" NPT	M40x1.5	49.0	26.87	15.0	40.87	70.0	77.0
DRH-NM65	2" NPT	M50x1.5	49.0	26.87	15.0	40.87	70.0	77.0
DRH-NM74	2-1/2" NPT	M40x1.5	60.0	39.9	15.0	56.9	76.2	84.0
DRH-NM75	2-1/2" NPT	M50x1.5	60.0	39.9	15.0	56.9	76.2	84.0
DRH-NM76	2-1/2" NPT	M63x1.5	60.0	39.9	15.0	56.9	76.2	84.0
DRH-NM85	3" NPT	M50x1.5	74.0	41.49	15.0	61.49	101.0	112.0
DRH-NM86	3" NPT	M63x1.5	74.0	41.49	15.0	61.49	101.0	112.0
DRH-NM87	3" NPT	M75x1.5	74.0	41.49	15.0	61.49	101.0	112.0
DRH-NM96	3-1/2" NPT	M63x1.5	86.0	42.76	15.0	62.76	114.0	126.0
DRH-NM97	3-1/2" NPT	M75x1.5	86.0	42.76	15.0	62.76	114.0	126.0
DRH-NM98	3-1/2" NPT	M90x2.0	86.0	42.76	20.0	64.76	114.0	126.0
DRH-NM107	4" NPT	M75x1.5	96.0	44.03	15.0	64.03	120.0	134.0
DRH-NM108	4" NPT	M90x2.0	96.0	44.03	20.0	66.03	120.0	134.0
DRH-NM109	4" NPT	M100x2.0	96.0	44.03	20.0	66.03	120.0	134.0

Conduit Fittings: Adaptor (Enlarger), DAT Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Ordering Requirements and Dimensions



Thread type: NPT male to NPT female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DAT-N12	1/2" NPT	3/4" NPT	14.0	19.85	15.0	40.85	38.1	42.0
DAT-N13		1" NPT			17.0	42.85	44.4	49.0
DAT-N14		1-1/4" NPT			17.0	43.35	50.8	56.0
DAT-N23	3/4" NPT	1" NPT	18.0	20.15	17.0	43.15	44.4	49.0
DAT-N24		1-1/4" NPT			17.5	43.65	50.8	56.0
DAT-N25		1-1/2" NPT			17.5	43.65	57.1	63.0
DAT-N34	1" NPT	1-1/4" NPT	24.0	25.0	17.5	48.5	50.8	56.0
DAT-N35		1-1/2" NPT			18.0	49.0	57.1	63.0
DAT-N36		2" NPT			18.0	49.0	76.2	84.0
DAT-N45	1-1/4" NPT	1-1/2" NPT	31.0	25.61	17.5	49.11	57.1	63.0
DAT-N46		2" NPT			18.0	49.61	76.2	84.0
DAT-N47		2-1/2" NPT			24.0	49.61	89.0	99.0
DAT-N56	1-1/2" NPT	2" NPT	37.0	26.04	18.0	50.04	76.2	84.0
DAT-N57		2-1/2" NPT			24.0	50.04	89.0	99.0
DAT-N58		3" NPT			26.0	50.04	114.0	126.0
DAT-N67	2" NPT	2-1/2" NPT	49.0	26.87	24.0	59.87	89.0	99.0
DAT-N68		3" NPT			26.0	59.87	114.0	126.0
DAT-N69		3-1/2" NPT			27.5	62.37	114.0	126.0
DAT-N78	2-1/2" NPT	3" NPT	60.0	39.9	26.0	72.9	114.0	126.0
DAT-N79		3-1/2" NPT			27.5	75.4	114.0	126.0
DAT-N710		4" NPT			28.0	75.9	127.0	140.0
DAT-N89	3" NPT	3-1/2" NPT	74.0	41.49	27.5	76.99	114.0	126.0
DAT-N810		4" NPT			28.0	77.49	114.0	126.0
DAT-N910		3-1/2" NPT			28.0	78.76	127.0	140.0

Thread type: NPT male to Metric female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DAT-NM11	1/2" NPT	M20x1.5	14.0	19.85	15.0	38.85	27.0	30.0
DAT-NM12		M25x1.5				40.85	38.1	42.0
DAT-NM13		M32x1.5				39.15	38.1	42.0
DAT-NM22	3/4" NPT	M25x1.5	18.0	20.15	15.0	44.4	44.4	49.0
DAT-NM23		M32x1.5				41.15	50.8	56.0
DAT-NM24		M40x1.5				44.4	50.8	56.0
DAT-NM33	1" NPT	M32x1.5	24.0	25.0	15.0	46.0	50.8	56.0
DAT-NM34		M40x1.5				50.8	56.0	63.0
DAT-NM35		M50x1.5				50.8	56.0	70.0
DAT-NM44	1-1/4" NPT	M40x1.5	31.0	25.61	15.0	46.61	63.5	70.0
DAT-NM45		M50x1.5				46.61	63.5	70.0
DAT-NM46		M63x1.5				46.61	76.2	84.0
DAT-NM55	1-1/2" NPT	M50x1.5	37.0	26.04	15.0	47.04	63.5	70.0
DAT-NM56		M63x1.5				47.04	76.2	84.0
DAT-NM57		M75x1.5				47.04	89.0	99.0
DAT-NM66	2" NPT	M63x1.5	49.0	26.87	15.0	47.87	76.2	84.0
DAT-NM67		M75x1.5				47.87	89.0	99.0
DAT-NM68		M90x2.0				47.87	101.0	112.0
DAT-NM77	2-1/2" NPT	M75x1.5	60.0	39.9	20.0	60.9	89.0	99.0
DAT-NM78		M90x2.0				67.9	101.0	112.0
DAT-NM79		M100x2.0				67.9	120.0	134.0
DAT-NM88	3" NPT	M90x2.0	74.0	41.49	20.0	69.49	101.0	112.0
DAT-NM89		M100x2.0				69.49	101.0	112.0
DAT-NM99		M100x2.0				70.76	120.0	134.0

Thread type: Metric male to Metric female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DAT-M01	M16x1.5	M20x1.5	10.0	15.0	15.0	34.0	31.0	34.0
DAT-M02		M25x1.5				38.1	38.1	42.0
DAT-M03		M32x1.5				36.0	44.4	49.0
DAT-M12	M20x1.5	M25x1.5	14.0	15.0	15.0	34.0	38.1	42.0
DAT-M13		M32x1.5				36.0	44.4	49.0
DAT-M14		M40x1.5				36.0	50.8	56.0
DAT-M23	M25x1.5	M32x1.5	17.0	15.0	15.0	36.0	44.4	49.0
DAT-M24		M40x1.5				36.0	50.8	56.0
DAT-M25		M50x1.5				36.0	63.5	70.0
DAT-M34	M32x1.5	M40x1.5	24.0	15.0	15.0	36.0	50.8	56.0
DAT-M35		M50x1.5				36.0	63.5	70.0
DAT-M36		M63x1.5				36.0	76.2	84.0
DAT-M45	M40x1.5	M50x1.5	32.0	15.0	15.0	36.0	63.5	70.0
DAT-M46		M63x1.5				36.0	76.2	84.0
DAT-M47		M75x1.5				36.0	89.0	99.0
DAT-M56	M50x1.5	M63x1.5	42.0	15.0	15.0	36.0	76.2	84.0
DAT-M57		M75x1.5				36.0	89.0	99.0
DAT-M58		M90x2.0				20.0	43.0	101.0
DAT-M67	M63x1.5	M75x1.5	55.0	15.0	20.0	36.0	36.0	99.0
DAT-M68		M90x2.0				43.0	101.0	112.0
DAT-M69		M100x2.0				43.0	120.0	134.0
DAT-M78	M75x1.5	M90x2.0	67.0	15.0	20.0	43.0	101.0	112.0
DAT-M79		M100x2.0				48.0	120.0	134.0
DAT-M89		M100x2.0				48.0	120.0	134.0

Thread type: Metric male to NPT female

Cat. No.	Entry threads		Dimensions in mm					
	D1 (Male)	D2 (Female)	a	b	c	d	e	f
DAT-MN01	M16x1.5	1/2" NPT	10.0	15.0	15.0	34.0	31.0	34.0
DAT-MN02		3/4" NPT				38.1	38.1	42.0
DAT-MN03		1" NPT				17.0	38.0	44.5
DAT-MN11	M20x1.5	1/2" NPT	14.0	15.0	15.0	34.0	31.0	34.0
DAT-MN12		3/4" NPT				38.1	38.1	42.0
DAT-MN13		1" NPT				17.0	38.0	44.5
DAT-MN22	M25x1.5	3/4" NPT	17.0	15.0	17.0	34.0	38.1	42.0
DAT-MN23		1" NPT				38.0	44.5	49.0
DAT-MN24		1-1/4" NPT				17.5	38.5	50.8
DAT-MN33	M32x1.5	1" NPT	24.0	15.0	17.5	38.5	38.0	44.5
DAT-MN34		1-1/4" NPT				38.5	50.8	56.0
DAT-MN35		1-1/2" NPT				38.5	57.1	63.0
DAT-MN44	M40x1.5	1-1/4" NPT	32.0	15.0	17.5	38.5	50.8	56.0
DAT-MN45		1-1/2" NPT				38.5	57.1	63.0
DAT-MN46		2" NPT				18.0	39.0	76.2
DAT-MN55	M50x1.5	1-1/2" NPT	42.0	15.0	24.0	38.5	38.5	76.2
DAT-MN56		2" NPT				38.5	39.0	84.0
DAT-MN57		2-1/2" NPT				18.0	39.0	84.0
DAT-MN66	M63x1.5	2" NPT	55.0	15.0	24.0	39.0	39.0	89.0
DAT-MN67		2-1/2" NPT				45.0	45.0	99.0
DAT-MN68		3" NPT				18.0	39.0	89.0
DAT-MN77	M75x1.5	2-1/2" NPT	67.0	15.0	26.0	47.0	47.0	114.0
DAT-MN78		3" NPT				47.0	47.0	114.0
DAT-MN79		3-1/2" NPT				27.5	48.5	126.0
DAT-MN88	M90x2.0	3" NPT	78.0	20.0	27.5	52.0	52.0	126.0
DAT-MN89		3-1/2" NPT				53.5	53.5	126.0
DAT-MN90		4" NPT				28.0	54.0	127.0
DAT-MN91	M100x2.0	3-1/2" NPT	88.0	20.0	28.0	54.0	54.0	127.0
DAT-MN92		4" NPT				54.0	54.0	127.0
DAT-MN93		4" NPT				54.0	54.0	127.0