

4" (Ø 164 mm) Technical Information Tank Unit (Adapter) and Hose Unit (Coupler)



According to NATO STANAG 3756

Material	Maximum Working Pressure	Test Pressure	Minimum Burst Pressure
Aluminium	16 bar / 232 psi	15 bar / 218 psi	50 bar / 726 psi
Brass/Gunmetal	16 bar / 232 psi	24 bar / 348 psi	80 bar / 1160 psi
Stainless Steel	25 bar / 363 psi	37,5 bar / 544 psi	125 bar / 1813 psi

Connections

4" in BSP, NPT and flanged inlet.

Applications

Recommended for HiFlo-loading / unloading of rail tankers, aviation refuellers and road tankers. Also suitable for ship to shore transfer, ship to ship transfer and ship to rig transfer or on any application where spillage needs to be minimized.

Media

Petroleum products: gasoline, diesel, oil etc.
Chemical products: ethylene oxide, propylene oxide, acrylonitrile, butadiene, ammonia, vinyl chloride, toluene, xylene, sulphuric acid, phenol etc.
Gas: vapor recovery/balance systems for various media.
Dry powder

Material of Body

Aluminium, brass/gunmetal, stainless steel, Hastelloy and PEEK. Other materials on request.

Seals

StandardSeals FPM (Viton®), EPDM, FFKM (Chemraz®, Kalrez®), NBR. Other on request.

High Flow Rates / Low Pressure Drop

Allows maximum product transfer with minimal losses

Recommended Maximum Flow Rates

3500 litres/minute (fuel)

Selectivity

- avoid mixing products

To avoid product contamination caused by connecting a hose unit to the wrong tank unit, selective versions of the hose and tank units are available.

Each unit has a number of selective positions, designated by a coded part number according to the coupling size – specify when placing order. See page 32 ff.

Interchangeability

Compatible with couplings of other manufacturers.

Hose Unit with Integrated Swivel

All hose units are supplied with an integrated swivel.

4" (Ø 164 mm) Tank Unit (Adapter) – Female Thread

Connection ¹⁾ Inch/DN	Body Material ²⁾	Seal ³⁾		Weight ≈		Mann Tek Code No.	
		O-Ring	Thread Seal	kg	lbs		
F 4" BSP	Al	Standard: FPM/FKM (Viton®)	PUR	2,5	5.5	T516A1101B	
F 4" NPT			—	2,8	6.2	T517A1101	
F 4" BSP	GM		PUR	7,0	15.4	T516D2201B	
F 4" NPT			—	7,7	17.0	T517D2201	
F 4" BSP	SS		Other on request.	PTFE	6,0	13.2	T516B4401A
F 4" NPT			—	6,4	14.1	T517B4401	

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¹⁾ F = Female thread, BSP = EN ISO 228, NPT = ANSI B1.20.1

²⁾ Material: Al = Aluminium, GM = Gunmetal, SS = Stainless Steel

³⁾ Standard seal FPM/FKM. Alternative materials, e.g. EPDM, Chemraz®, Kalrez®, NBR or HNBR on request

Viton® is a registered trademark of DuPont, DuPont Elastomers.

4" (Ø 164 mm) Tank Unit (Adapter)– Flanged Inlet

Flange ¹⁾	Body Material ²⁾	Seal ³⁾		Weight ≈		Mann Tek Code No.
		O-Ring		kg	lbs	
undrilled Ø 230 mm	Al	Standard: FPM/FKM (Viton®)		3,2	7.1	T521D1101
DN 100 PN 10/16 Type B				3,1	6.8	T539D1101
4" ASA 150				3,2	7.1	T563D1101
DIN 28459 'TW 3' / DN 100				2,6	5.7	T566D1101
4" TTMA				2,6	5.7	T568D1101
undrilled Ø 230 mm	GM					
DN 100 PN 10/16 Type B						T539D2201
DN 100 PN 25/40 Type B						T540D2201
4" ASA 150						T563D2201
4" ASA 300 psi						T564D2201
DIN 28459 'TW 3' / DN 100						T566D2201
4" TTMA						T568D2201
undrilled Ø 230 mm	SS	Other on request.				T521B4401
o. Bohrungen Ø 230 mm ^{**)}						T521B4401F
DN 100 PN 10/16 Type B			8,7	19.2	T539B4401	
DN 100 PN 10/16 Type B ^{**)}			8,6	19.0	T539B4401F	
DN 100 PN 25/40 Type B						T540B4401
DN 100 PN 25/40 Type B ^{**)}						T540B4401F
DN 100 PN 25/40 Type E						T538B4401F
4" ASA 150			8,9	19.6	T563B4401	
4" ASA 150 ^{**)}			8,9	19.6	T563B4401F	
4" ASA 300 psi			12	26.5	T564B4401	
4" ASA 300 psi ^{**)}			12	26.5	T564B4401F	
DIN 28459 'TW 3' / DN 100						T566B4401
4" TTMA			2,5	5.5	T568B4401	

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^{*}) Type E (with spigot),
EN 1092-1, see page 44

^{**)}) Flange with standard thickness

¹⁾ PN 10/16/25/40 = EN 1092
(types see page 44),
ASA = ANSI B16.5 (150 o. 300 psi),
DIN 28459 = old standard TW, 10 bar.
TTMA = Truck Trailer Manufacturers Association

²⁾ Material: Al = Aluminium, GM = Gunmetal,
SS = Stainless Steel

³⁾ Standard seal FPM/FKM. Alternative
materials, e.g. EPDM, Chemraz®, Kalrez®,
NBR or HNBR on request

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4" (Ø 164 mm) Hose Unit (Coupler) – Female Thread

Connection ¹⁾ Inch/DN	Body Material ²⁾	Seal ³⁾		Weight ≈		Mann Tek Code No.		
		O-Ring	Thread Seal	kg	lbs			
F 4 BSP	Al	Standard: FPM/FKM (Viton®)	PUR (Polyurethane)	7,6	16,8	S516B1101B		
F 4" ASSPT						S5136B1101B		
F 4" NPT						S517B1101		
F 4" BSP	GM		Other on request.	PUR (Polyurethane)	17,5	38,6	S516B2201B	
F 4" ASSPT							S5136B2201B	
F 4" NPT							S517B2201	
F 4" BSP	SS			PTFE	PTFE	15,6	34,4	S516B4401A
F 4" ASSPT								S5136B4401A
F 4" NPT								S517B4401

According to
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¹⁾ F = Female thread, BSP = EN ISO 228, NPT = ANSI B1.20.3,

ASSPT = American Straight Pipe Thread, identical to NPS. NPT male threads can be connected with ASSPT female threads.

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4" (Ø 164 mm) Coupler – Flanged Inlet

Flange ¹⁾	Body Material ²⁾	Seal ³⁾		Weight ≈		Mann Tek Code No.				
		O-Ring		kg	lbs					
undrilled Ø 230 mm	Al	Standard: FPM/FKM (Viton®)				S521B1101				
DN 100 PN 10/16 Type B				9,3	20,0	S539B1101				
4" ASA 150				9,4	20,7	S563B1101				
4" TTMA				8,7	19,2	S568B1101				
DIN 28459 'TW 3' / DN 100				8,7	19,2	S566B1101				
undrilled Ø 230 mm	Br			Other on request.				S521B2201		
DN 100 PN 10/16 Type B								S539B2201		
DN 100 PN 25/40 Type B						23,9	52,7	S540B2201		
4" ASA 150						23,9	52,7	S563B2201		
4" ASA 300 psi								S564B2201		
4" TTMA							S568B2201			
DIN 28459 'TW 3' / DN 100							S566B2201			
undrilled Ø 230 mm	SS							16,1	35,5	S521B4401
o. Bohrungen Ø 230 mm **)										S521B4401F
DN 100 PN 10/16 Type B								16,1	35,5	S539B4401
DN 100 PN 10/16 Type B **)		16,1	35,5					S539B4401F		
DN 100 PN 25/40 Type B		16,1	35,5					S540B4401		
DN 100 PN 25/40 Type B **)								S540B4401F		
DN 100 PN 25/40 Type E								S538B4401F		
4" ASA 150		21,0	46,3					S563B4401		
4" ASA 150 **)		21,0	46,3	S563B4401						
4" ASA 300 psi		16,1	35,5	S564B4401						
4" ASA 300 psi **)				S564B4401F						
4" TTMA		8,7	19,2	S568B4401						
DIN 28459 'TW 3' / DN 100				S566B4401						

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