

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.

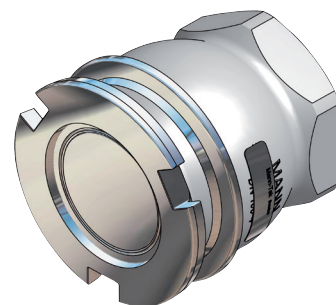
Hose Unit with Integrated Swivel

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	AI	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

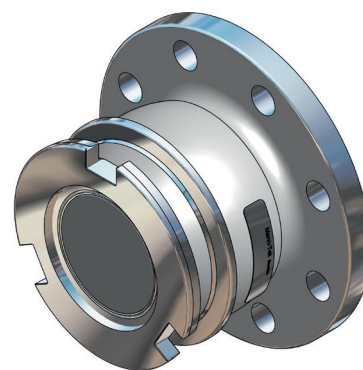
³⁾ Standard seal FPM/FKM. Alternative materials, e.g. EPDM, Chemraz®, Kalrez®, NBR or HNBR on request

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®) Other on request.	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				T521D2201
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				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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