

Valves for Cryogenic Service

Type 07003 - Fill cluster with check function

HEROSE



Cryogenic-Fill cluster, PN50

Bronze body and topwork
with check function and drain valve
"live loaded" gland packing
"cleaned and degreased for oxygen service"

Part No. 07003.X.7027

Fill connection: Female thread type R (BSPT) acc. to ISO 7-Rc
Complete with brazed stainless steel stubs acc. to ASTM A312

Available options - on request only:

· brazed stainless steel stubs acc. to DIN EN ISO 1127

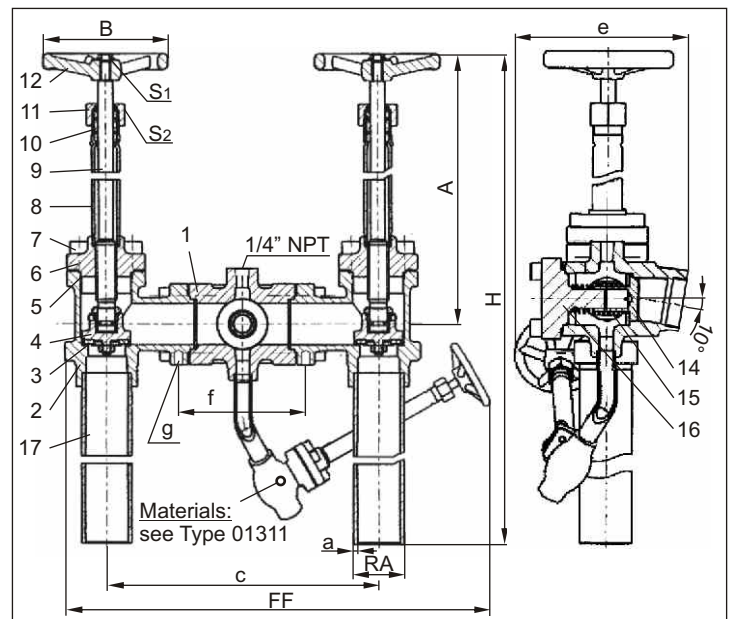


Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluormethan, carbon oxide, methane, ethane and ethylene.
Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	CC491K	B 62 UNS C83600
2 Body	CC491K	B 62 UNS C83600
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CW612N	B 283 UNS C37700
5 Bonnet gasket	PTFE	
6 Headpiece	CC493K	B 505 UNS C93200
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	CW612N	B 283 UNS C37700
12 Handwheel	Aluminium alloy	
14 Check disc	CW452K	B103 UNS C51900
15 Spring	1.4571	A 276 Grade 316Ti
16 Cap	CC491K	B 62 UNS C83600
17 Stainless steel stubs	1.4306	A 312 TP304L

Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07003 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	340	340
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Wall thickness pipe ASTM A312	a	S10	S10
Height	A	370	370
Height	H	735	735
Length	c	260	260
Length	e	172	172
Length	f	125	125
Thread	g	M10, 11 mm deep	M12, 13 mm deep
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	14.4	18.4

Dimensions in mm.

Edition 01-2006

Valves for Cryogenic Service

Type 07004 - Fill cluster with check function

HEROSE



Cryogenic-Fill cluster, PN50

Bronze body and topwork
with check function and drain valve
"live loaded" gland packing
"cleaned and degreased for oxygen service"

Part No. 07004.X.7027

Fill connection: Mueller flange
Complete with brazed stainless steel stubs acc. to ASTM A312

Available options - on request only:

· brazed stainless steel stubs acc. to DIN EN ISO 1127

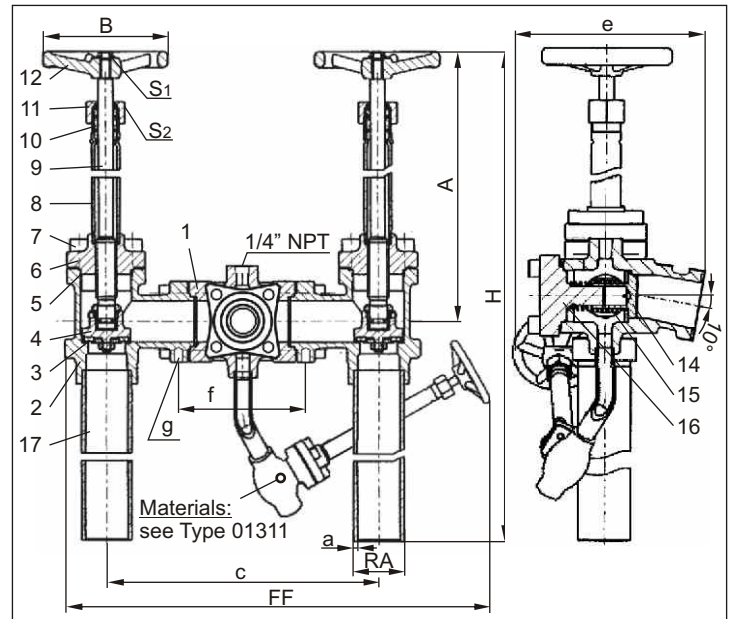


Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluormethan, carbon oxide, methane, ethane and ethylene.
Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	CC491K	B 62 UNS C83600
2 Body	CC491K	B 62 UNS C83600
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CW612N	B 283 UNS C37700
5 Bonnet gasket	PTFE	
6 Headpiece	CC493K	B 505 UNS C93200
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	CW612N	B 283 UNS C37700
12 Handwheel	Aluminium alloy	
14 Check disc	CW452K	B103 UNS C51900
15 Spring	1.4571	A 276 Grade 316Ti
16 Cap	CC491K	B 62 UNS C83600
17 Stainless steel stubs	1.4306	A 312 TP304L

Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07004 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	340	340
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Wall thickness pipe ASTM A312	a	S10	S10
Height	A	370	370
Height	H	735	735
Length	c	260	260
Length	e	192	192
Length	f	125	125
Thread	g	M10, 11 mm deep	M12, 13 mm deep
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	15.4	19.4

Dimensions in mm.

Valves for Cryogenic Service

Type 07015 - Fill cluster

Cryogenic-Fill cluster, PN50

Stainless steel body and bronze topwork
 "live loaded" gland packing
 "cleaned and degreased for oxygen service"

Part No. 07015.X.0000

Fill connection: Air Liquide specified flange
 Socket weld connection for stainless steel pipes
 acc. to DIN EN ISO 1127 and ASTM A312

Available options - on request only:

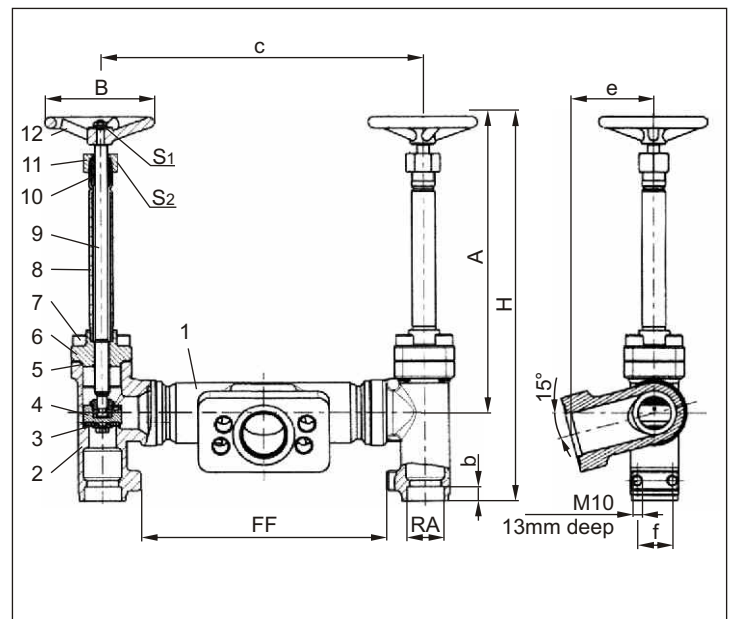
· other fill connections



Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluoromethan, carbon oxide, methane, ethane and ethylene.
 Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	1.4308	A 351 CF8
2 Body	1.4308	A 351 CF8
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CW612N	B 283 UNS C37700
5 Bonnet gasket	PTFE	
6 Headpiece	CC493K	B 505 UNS C93200
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	CW612N	B 283 UNS C37700
12 Handwheel	Aluminium alloy	



Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07015 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	225	225
Outside pipe -Ø DIN EN ISO 1127	RA	33.7	48.3
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Socket depth	b	13	13
Height	A	270	270
Height	H	355	355
Length	c	295	301
Length	e	76	76
Length	f	32	32
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	8.4	11.2

Dimensions in mm.

Valves for Cryogenic Service

Type 07015 - Fill cluster with check function

HEROSE



Cryogenic-Fill cluster, PN50

Stainless steel body and bronze topwork
with check function and drain valve
"live loaded" gland packing
"cleaned and degreased for oxygen service"

Part No. 07015.X.5000

Fill connection: Air Liquide specified flange
Socket weld connection for stainless steel pipes
acc. to DIN EN ISO 1127 and ASTM A312

Available options - on request only:

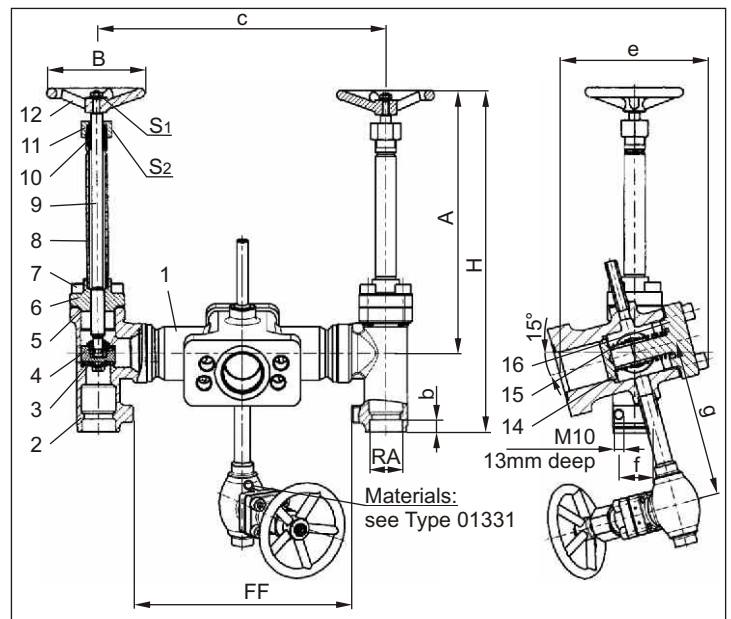
· other fill connections



Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluormethan, carbon oxide, methane, ethane and ethylene.
Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	1.4308	A 351 CF8
2 Body	1.4308	A 351 CF8
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CW612N	B 283 UNS C37700
5 Bonnet gasket	PTFE	
6 Headpiece	CC493K	B 505 UNS C93200
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	CW612N	B 283 UNS C37700
12 Handwheel	Aluminium alloy	
14 Check disc	CW452K	B 103 UNS C51900
15 Spring	1.4571	A 276 Grade 316Ti
16 Cap	CC493K	B 505 UNS C93200



Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07015 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	225	225
Outside pipe -Ø DIN EN ISO 1127	RA	33.7	48.3
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Socket depth	b	13	13
Height	A	270	270
Height	H	355	355
Length	c	295	301
Length	e	76	76
Length	f	32	32
Length	g	160	160
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	11.2	14.0

Dimensions in mm.

Valves for Cryogenic Service

Type 07017 - Fill cluster

Cryogenic-Fill cluster, PN50

Stainless steel body and topwork
 "live loaded" gland packing
 "cleaned and degreased for oxygen service"

Part No. 07017.X.0000

Fill connection: Air Liquide specified flange
 Socket weld connection for stainless steel pipes
 acc. to DIN EN ISO 1127 and ASTM A312

Available options - on request only:

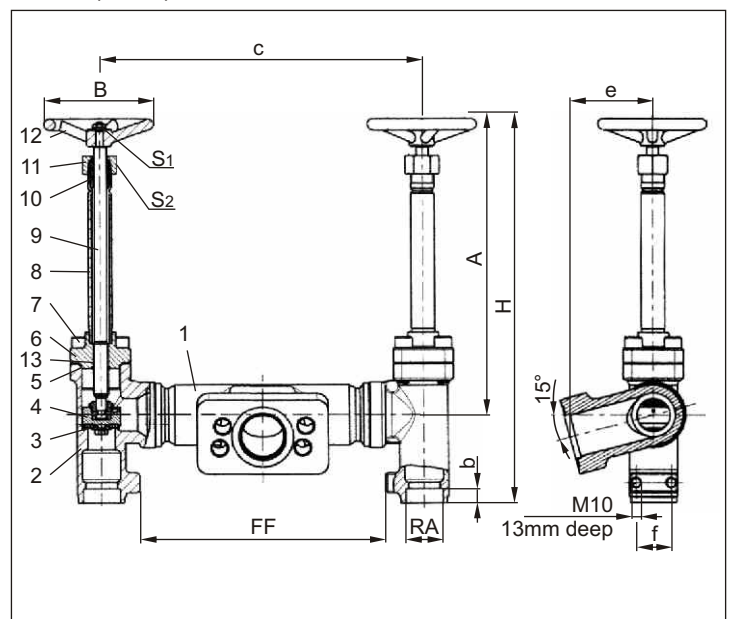
· other fill connections



Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluormethan, carbon oxide, methane, ethane and ethylene.
 Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	1.4308	A 351 CF8
2 Body	1.4308	A 351 CF8
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	1.4301	A 276 Grade 304
5 Bonnet gasket	PTFE	
6 Headpiece	1.4301	A 276 Grade 304
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	1.4305	A 276 Grade 303
12 Handwheel	Aluminium alloy	
13 Bush	CW452K	B 103 Alloy A



Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07017 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	225	225
Outside pipe -Ø DIN EN ISO 1127	RA	33.7	48.3
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Socket depth	b	13	13
Height	A	270	270
Height	H	355	355
Length	c	295	301
Length	e	76	76
Length	f	32	32
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	8.4	11.2

Dimensions in mm.

Valves for Cryogenic Service

Type 07017 - Fill cluster with check function

HEROSE



Cryogenic-Fill cluster, PN50

Stainless steel body and topwork
with check function and drain valve
"live loaded" gland packing
"cleaned and degreased for oxygen service"

Part No. 07017.X.5000

Fill connection: Air Liquide specified flange
Socket weld connection for stainless steel pipes
acc. to DIN EN ISO 1127 and ASTM A312

Available options - on request only:

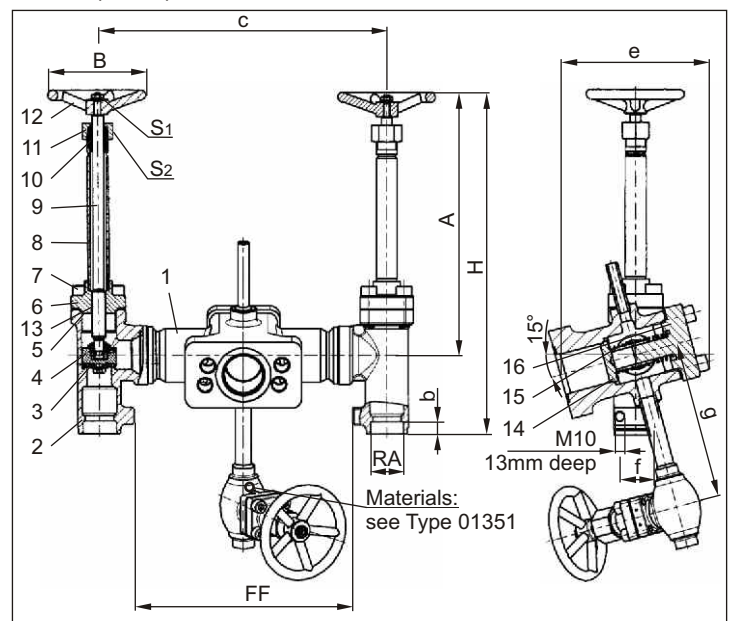
· other fill connections



Applications:

Approved for air gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, dinitrogen monoxide, trifluoromethan, carbon oxide, methane, ethane and ethylene.
Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Materials	DIN EN	ASTM
1 Fill body	1.4308	A 351 CF8
2 Body	1.4308	A 351 CF8
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	1.4301	A 276 Grade 304
5 Bonnet gasket	PTFE	
6 Headpiece	1.4301	A 276 Grade 304
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Stem	1.4301	A 276 Grade 304
10 Gland packing	Graphite / PTFE	
11 Gland nut	1.4305	A 276 Grade 303
12 Handwheel	Aluminium alloy	
13 Bush	CW452K	B 103 Alloy A
14 Check disc	1.4301	A 276 Grade 304
15 Spring	1.4571	A 276 Grade 316Ti
16 Cap	1.4301	A 276 Grade 304



Standard marking acc. to Pressure Equipment Directive 97/23/EG (PED).



Type 07017 – Standard design	Technical data		
Nominal size	DN	25	40
Dimension code	.X.	2533	4048
Face-to-face dimension	FF	225	225
Outside pipe -Ø DIN EN ISO 1127	RA	33.7	48.3
Outside pipe -Ø ASTM A312	RA	33.40	48.26
Socket depth	b	13	13
Height	A	270	270
Height	H	355	355
Length	c	295	301
Length	e	76	76
Length	f	32	32
Length	g	160	160
Handwheel-Ø	B	100	125
Wrench size across flats	S ₁	10	13
Wrench size across flats	S ₂	30	36
Weight	ca. kg	11.2	14.0

Dimensions in mm.