

Angle fittings

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Angles with male threads up to 150 bar

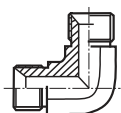
Type 16 bar brass nickel-pl.	Type 16 bar brass	Type 25 bar mall. cast iron galv.	Type 150 bar AISI 316L INOX	Thread
WA 50 MSV	---	---	---	M5
WA 18 MSV	WA 18 MS	---	WA 18 MD ES	R 1/8"
WA 14 MSV	WA 14 MS	---	WA 14 MD ES	R 1/4"
WA 38 MSV	WA 38 MS	WA 38 ST	WA 38 MD ES	R 3/8"
WA 12 MSV	WA 12 MS	WA 12 ST	WA 12 MD ES	R 1/2"
WA 34 MSV	WA 34 MS	WA 34 ST	---	R 3/4"
WA 10 MSV	WA 10 MS	WA 10 ST	---	R 1"
---	---	WA 114 ST	---	R 1 1/4"
---	---	WA 112 ST	---	R 1 1/2"
---	---	WA 20 ST	---	R 2"

type 3/G8



Elbows 90° with male threads up to 25 bar

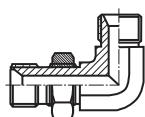
Type 25 bar mall. cast iron galv.	Thread	L	Type 16 bar AISI 316 INOX	Thread	L
BO 14 ST	R 1/4"	36	BO 18 ES	R 1/8"	50
BO 38 ST	R 3/8"	42	BO 14 ES	R 1/4"	60
BO 12 ST	R 1/2"	48	BO 38 ES	R 3/8"	70
BO 34 ST	R 3/4"	60	BO 12 ES	R 1/2"	80
BO 10 ST	R 1"	75	BO 34 ES	R 3/4"	100
BO 114 ST	R 1 1/4"	95	BO 10 ES	R 1"	120
BO 112 ST	R 1 1/2"	105	BO 114 ES	R 1 1/4"	140
BO 20 ST	R 2"	130	BO 112 ES	R 1 1/2"	160
BO 212 ST	R 2 1/2"	165	BO 20 ES	R 2"	190



Angles with inch threads (60° conical hose nipples) up to 400 bar

Type zinc-plated steel	Type V4A INOX (stainless steel)	Thread	Thread	PN*
WA 18 HD	WA 18 HD ES	G 1	G 2	400 bar
WA 1418 HD	---	G 1/8"	G 1/8"	350 bar
WA 14 HD	WA 14 HD ES	G 1/4"	G 1/4"	350 bar
WA 3814 HD	---	G 3/8"	G 1/4"	325 bar
WA 38 HD	WA 38 HD ES	G 3/8"	G 3/8"	325 bar
WA 1238 HD	---	G 1/2"	G 3/8"	325 bar
WA 12 HD	WA 12 HD ES	G 1/2"	G 1/2"	350 bar
WA 3412 HD	---	G 3/4"	G 1/2"	325 bar
WA 34 HD	WA 34 HD ES	G 3/4"	G 3/4"	325 bar
WA 1034 HD	---	G 1"	G 3/4"	225 bar
WA 10 HD	WA 10 HD ES	G 1"	G 1"	225 bar
WA 114 HD	WA 114 HD ES	G 1 1/4"	G 1 1/4"	190 bar
WA 112 HD	WA 112 HD ES	G 1 1/2"	G 1 1/2"	190 bar
WA 20 HD	WA 20 HD ES	G 2"	G 2"	175 bar

* the safety factor reached in tests with hydraulic oil was four-times, please ask in individual cases



Angles bulkhead nipples with inch threads (60° conical hose nipples) up to 350 bar

Type zinc-plated steel	Thread	PN*
WSN 18 HD	G 1/8"	350 bar
WSN 14 HD	G 1/4"	350 bar
WSN 38 HD	G 3/8"	325 bar
WSN 12 HD	G 1/2"	350 bar
WSN 34 HD	G 3/4"	325 bar
WSN 10 HD	G 1"	225 bar

* the safety factor reached in tests with hydraulic oil was four-times, please ask in individual cases



TIP Straight high pressure bulkhead screw connections are found on page 103



Reducing nipple
on page 112



Coupling sockets
NW7 from page 150



Ball valves
from page 280



LOCTITE
Liquid seals,
gaskets & tapes
from page 549

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.