SANGAN

SANGAN SANAT CO.

NEEDLE VALVES

N2

FEATURES

- Back seating to prevent stem blow-out

APPLICATIONS

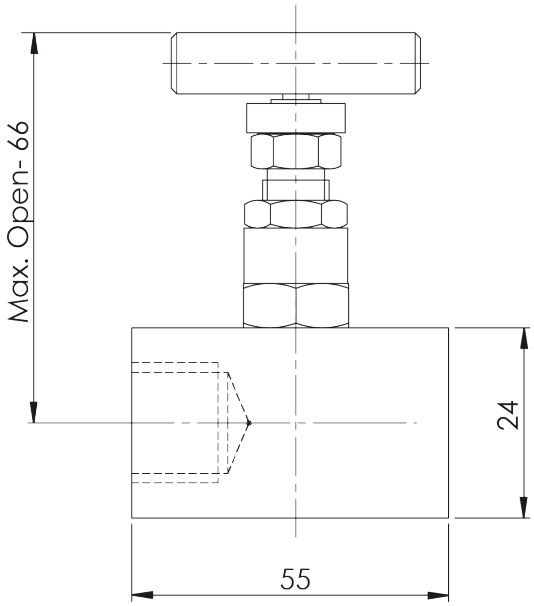
- High pressure line shut off
- Instrument isolation
- Liquid & gas services

Isolation

STANDARD SPECIFICATIONS

Stem type	:	Hard seated stem
Wetted parts	:	AISI 316 SS
Instrument connection	:	½" NPT (F)
Stem packing	:	PTFE
Process connection	:	½" NPT (F)
Valve form	:	Direct
Stem	:	Conical metal tip
Max. working pressure	:	6000 psi
Max. working temperature	:	240°C
"T" bar handle	:	AISI 316 SS
Weight	:	~547 g

DIMENSIONAL DRAWING



All dimensions are in mm.

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ORDERING CODES

1. WETTED PARTS

MB	Carbon Steel / ASTM A105	
MC	AISI 304 SS	
MF	AISI 316 SS	MF
MG	AISI 316L SS	
MM	Monel	
MO	Hastelloy C-276	
MD	Super Duplex	

2. INSTRUMENT CONNECTION

11N	1/8" NPT (M)	
12N	¼" NPT (M)	
13N	3/8" NPT (M)	
14N	½" NPT (M)	
11B	1/8" BSP (M)	
12B	¼" BSP (M)	
13B	3/8" BSP (M)	
14B	½" BSP (M)	
01N	1/8" NPT (F)	
02N	¼" NPT (F)	
03N	3/8" NPT (F)	
04N	½" NPT (F)	04N
01B	1/8" BSP (F)	
02B	¼" BSP (F)	
03B	3/8" BSP (F)	
04B	½" BSP (F)	

3. STEM PACKING

ME	PTFE	ME
MA	Grafoil	

4. PROCESS CONNECTION

11N	1/8" NPT (M)	
12N	¼" NPT (M)	
13N	3/8" NPT (M)	
14N	½" NPT (M)	
11B	1/8" BSP (M)	
12B	¼" BSP (M)	
13B	3/8" BSP (M)	
14B	½" BSP (M)	
01N	1/8" NPT (F)	
02N	¼" NPT (F)	
03N	3/8" NPT (F)	
04N	½" NPT (F)	04N
01B	1/8" BSP (F)	
02B	¼" BSP (F)	
03B	3/8" BSP (F)	
04B	½" BSP (F)	

5. VALVE FORM

AG	Angular	
DR	Direct	DR

6. OTHER OPTIONS

TN	NACE standards	
TO	Use for Oxygen service	
TH	Hydro test certificate	
TC	Material test certificate	
XL	Marking by laser	XL
TP	Max working pressure 10.000 psi	

Ordering Example : N2-MF-04N-ME-04N-DR-XL

STANDARD EXECUTION

PACKING MATERIAL	PRESSURE VS TEMPERATURE	
PTFE (High Pressure)	690 bar at 38°C	10.000 psi at 100 °F
PTFE	420 bar at 38 °C	3000 psi at 100 °F
	276 bar at 204 °C	4000 psi at 400 °F
Graphite	420 bar at 38 °C	6000 psi at 100 °F
	209 bar at 538 °C	3000 psi at 1000 °F

NOTES

1. Other connections are available, please contact factory for details.
2. Valve stem dust covers shall be identified with color codes according to their function as ; Blue = ISOLATE

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