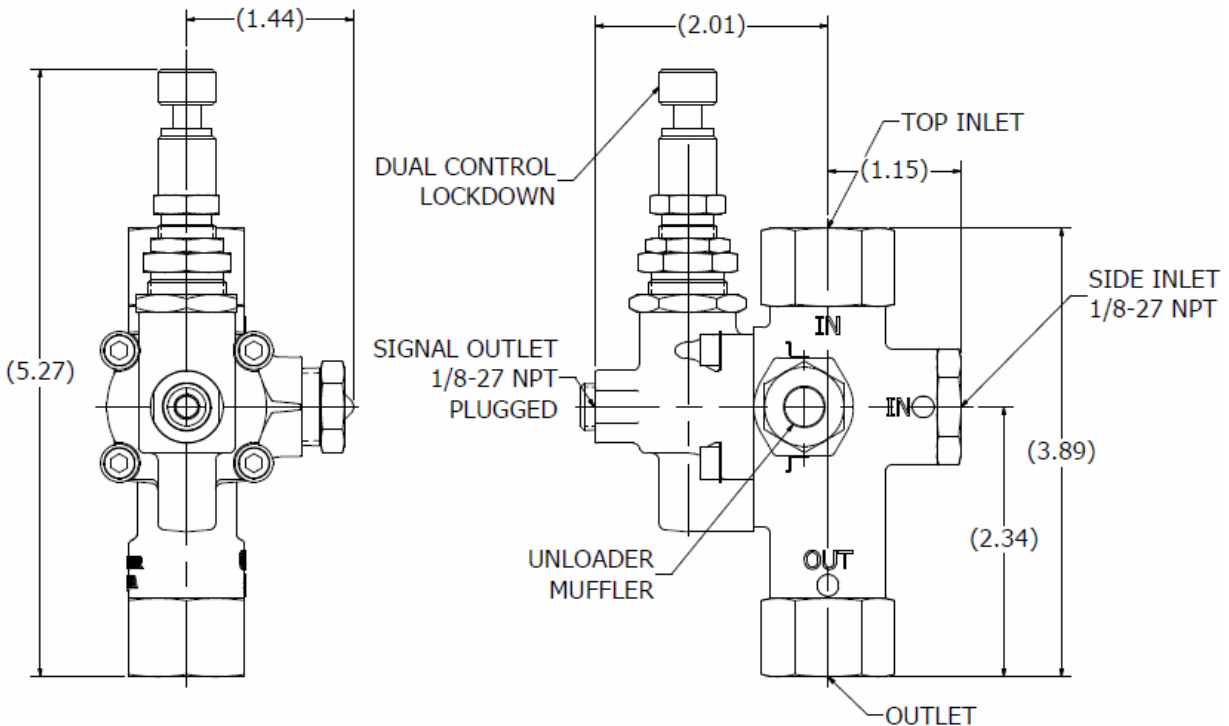




Piloted Unloader Check Valve Model: NDC-Series



*Dimensions will vary with different connections and configurations.

Operating Specifications:

Unload Set Pressure Range: 40 to 250 psig

Set Pressure Differential Range: 10 to 50 psid

Operating Temperature Range: -65°F to 400°F

Max Flow Capacity: 30 SCFM @ 100 psig

Available Connections:

Connection Sizes: 1/8" to 3/4" (-2 to -12)

Connection Types: NPT, BSPT, Compression, SAE Flare, JIC Flare

Materials of Construction:

Body/Fittings: Brass

O-Rings: Silicone/Viton

Poppets: Reinforced PTFE

Springs: Stainless Steel



Ordering Information

NDC		1		M		P2		SU3		SA		SST		90-120	
Configuration Number		Unloader Outlet		Additional Inlet Port		Start Unloader		Pilot Tamper Seal		Thread Sealant		Pressure Setting			
See Available Configurations Below		Option	Code	Option	Code	Option	Code	Option	Code	Option	Code	Option	Code		
		Muffler (Standard)	M	1/8" NPT	(Blank)	None	(Blank)	None	(Blank)	None	(Blank)	None	(Blank)		
		Diffuser	D	1/4" NPT	P2	SU3	SU3	Sealed	SA	White	SST				
						SU4	SU4								

Options

1. Configuration: Available configurations are listed on the following pages. If the configuration needed is not listed please contact us at orders@conrader.com
2. Unloader Outlet
 - a. Muffler: The muffler comes standard and reduces the noise from the unloader.
 - b. Diffuser: The diffuser restricts the flow less than the muffler but creates more noise.
3. Additional Inlet Port
 - a. 1/8" NPT: An 1/8" female NPT port installed on the opposite inlet port. This is standard on the NDC-series.
 - b. 1/4" NPT: An 1/4" female NPT port installed on the opposite inlet port.
4. Start Unloader: A valve that installs on the opposite inlet port and unloads the compressor during start up.
 - a. None: Start unloader will not be installed.
 - b. SU3: Start unloader with a Viton seal.
 - c. SU4: Start unloader with a brass seal.
5. Pilot Tamper Seal:
 - a. None: A seal will not be applied to the pilot adjustments.
 - b. Sealed: A blue tamper seal will be applied across the pilot adjustments.
6. Thread Sealant:
 - a. None
 - b. White colored thread sealant.
7. Pressure Setting: The desired pilot load and unload pressure settings.

Model	<u>Top Inlet Connection</u>	<u>Side Inlet Connection</u>	<u>Outlet Connection</u>
NDC-1	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-2	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-3	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-4	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-5	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-6	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-7	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-8	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-9	5/8" (-10) COMPRESSION 13/16-18 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-10	1/8" (-2) FEMALE NPT OR P2 OPTION	5/8" (-10) COMPRESSION 13/16-18 UN-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-11	5/8" (-10) COMPRESSION 13/16-18 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-12	1/8" (-2) FEMALE NPT OR P2 OPTION	5/8" (-10) COMPRESSION 13/16-18 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-13	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-14	1/8" (-2) FEMALE NPT OR P2 OPTION	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-15	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-16	1/8" (-2) FEMALE NPT OR P2 OPTION	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-17	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-18	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-19	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-20	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-21	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-22	1/8" (-2) FEMALE NPT OR P2 OPTION	1/4" (-4) FEMALE NPT 1/4-18 NPT	1/4" (-4) FEMALE NPT 1/4-18 NPT

Model	<u>Top Inlet Connection</u>	<u>Side Inlet Connection</u>	<u>Outlet Connection</u>
NDC-23	3/8" (-6) MALE NPT 3/8-18 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-24	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-25	3/8" (-6) MALE NPT 3/8-18 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-26	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT	1/2" (-8) COMPRESSION 11/16-20 UN-2A
NDC-27	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-28	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-29	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-30	3/8" (-6) FEMALE NPT 3/8-18 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-31	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-32	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-33	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-34	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-35	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-36	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-37	3/4" (-12) FEMALE NPT 3/4-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-38	3/4" (-12) FEMALE BSPT Rc 3/4-14 (BSPT)	1/8" (-2) FEMALE BSPT OR P2 OPTION	3/4" (-12) MALE BSPT R 3/4-14 (BSPT)
NDC-39	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) FEMALE NPT 3/4-14 NPT	3/4" (-12) FEMALE NPT 3/4-14 NPT
NDC-40	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-41	3/4" (-12) FEMALE NPT 3/4-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) FEMALE NPT 3/4-14 NPT
NDC-42	5/8" (-10) JIS 40 DEG FLARE G 1/2-14 - B	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-43	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-44	3/4" (-12) COMPRESSION 1-18 UNS-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) FEMALE NPT 3/4-14 NPT

Model	Top Inlet Connection	Side Inlet Connection	Outlet Connection
NDC-45	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT
NDC-46	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-47	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-48	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-49	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-50	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-51	1/4" (-4) FEMALE NPT 1/4-18 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/4" (-4) FEMALE NPT 1/4-18 NPT
NDC-52	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-53	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT EXTENDED 1/2-14 NPT
NDC-54	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-55	3/4" (-12) FEMALE NPT 3/4-14 NPT	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-56	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-57	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/4" (-4) FEMALE NPT 1/4-18 NPT
NDC-58	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	3/4" (-12) FEMALE NPT 3/4-14 NPT
NDC-59	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) FEMALE NPT 3/4-14 NPT	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-60	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) COMPRESSION 1-18 UNS-2A	3/4" (-12) FEMALE NPT 3/4-14 NPT
NDC-61	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) COMPRESSION 1-18 UNS-2A	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-62	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-63	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
NDC-64	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-65	5/8" (-10) JIS 40 DEG FLARE G 1/2-14 - B	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-66	OPEN, FITTING NOT INSTALLED	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT

Model	<u>Top Inlet Connection</u>	<u>Side Inlet Connection</u>	<u>Outlet Connection</u>
NDC-67	OPEN, FITTING NOT INSTALLED	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-68	3/4" (-12) SAE 45 DEG FLARE 1 1/16-14 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-69	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-70	3/4" (-12) SAE 45 DEG FLARE 1 1/16-14 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-71	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) SAE 45 DEG FLARE 1 1/16-14 UN-2A	3/4" (-12) MALE NPT 3/4-14 NPT
NDC-72	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
NDC-73	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-74	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-75	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-76	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
NDC-77	1/8" (-2) FEMALE BSPT OR P2 OPTION	3/4" (-12) FEMALE BSPT Rc 3/4-14 (BSPT)	3/4" (-12) MALE BSPT R 3/4-14 (BSPT)
NDC-78	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)
NDC-79	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-80	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-81	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-82	1/8" (-2) FEMALE BSPT 1/8-27 BSPT	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NDC-83	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)
NDC-84	1/8" (-2) FEMALE BSPT OR P2 OPTION	3/4" (-12) COMPRESSION 1-18 UNS-2A	3/4" (-12) MALE BSPT R 3/4-14 (BSPT)
NG-85	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	3/4" (-12) FEMALE NPT 3/4-14 NPT
NG-86	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) FEMALE NPT 3/4-14 NPT
NG-87	3/8" (-6) FEMALE BSPP G 3/8-19 (BSPP)	1/8" (-2) FEMALE BSPT OR P2 OPTION	3/8" (-6) FEMALE BSPP G 3/8-19 (BSPP)
NG-88	1/2" (-8) FEMALE BSPP G 1/2-14 (BSPP)	1/8" (-2) FEMALE BSPT OR P2 OPTION	1/2" (-8) FEMALE BSPP G 1/2-14 (BSPP)

Model	<u>Top Inlet Connection</u>	<u>Side Inlet Connection</u>	<u>Outlet Connection</u>
NG-89	3/4" (-12) FEMALE BSPP G 3/4-14 (BSPP)	1/8" (-2) FEMALE BSPT OR P2 OPTION	3/4" (-12) FEMALE BSPP G 3/4-14 (BSPP)
NG-90	1/8" (-2) FEMALE BSPT OR P2 OPTION	5/8" (-10) JIS 40 DEG FLARE G 1/2-14 - B	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
NG-91	3/4" (-12) JIC 37 DEG FLARE 1 1/16-12 UN-2A	1/8" (-2) FEMALE NPT OR P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
NG-92	1/8" (-2) FEMALE NPT OR P2 OPTION	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	3/4" (-12) FEMALE NPT 3/4-14 NPT
NG-93	1/8" (-2) FEMALE NPT OR P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT	3/8" (-6) FEMALE NPT 3/8-18 NPT