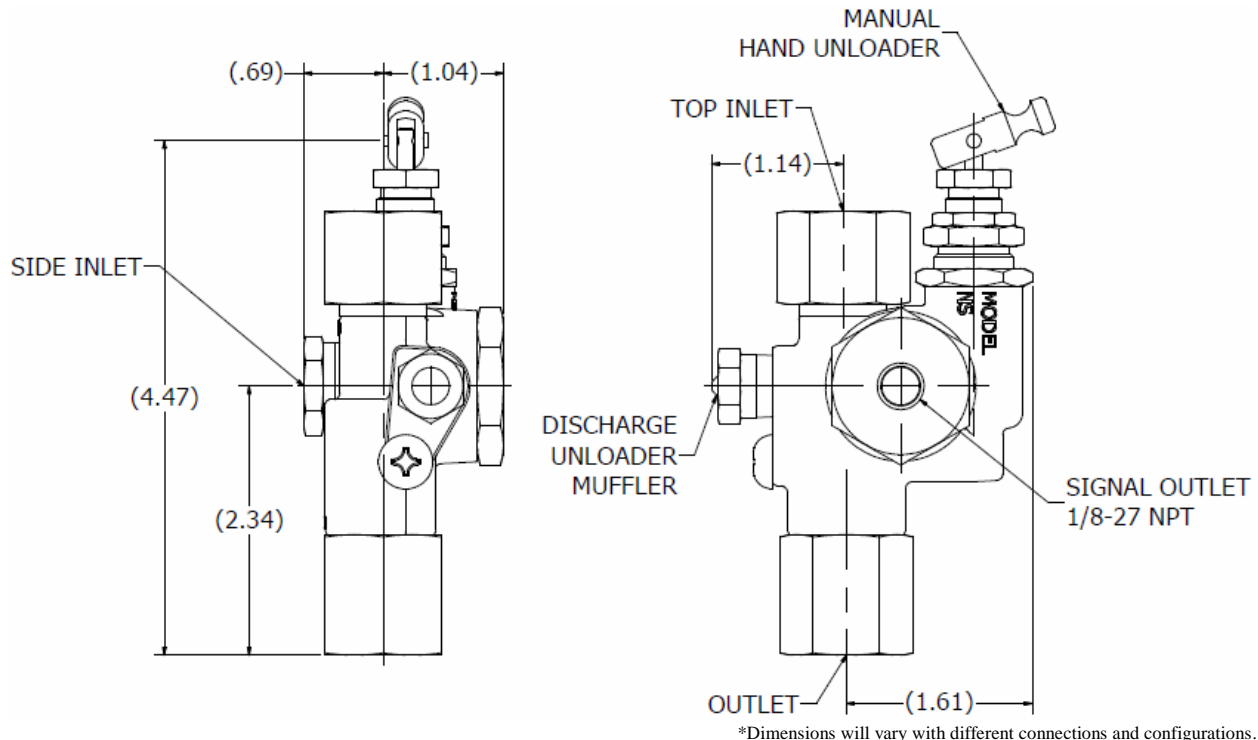




## Piloted Unloader Check Valve Model: NSG-Series



\*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: 20 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

NSG		1		M		P1		HU2		SU3		SA		SST		90-120	
Configuration Number		Unloader Outlet		Additional Inlet Port		Hand Unloader Options		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	Option	Code		
		Muffler (Standard)	M	None	(Blank)	Aluminum (Standard)	(Blank)	None	(Blank)	None	(Blank)	None	(Blank)	None	(Blank)		
		Diffuser	D	1/8" NPT	P1	Red Cap	HU2	SU3	SU3	Sealed	SA	White	SST				
				1/4" NPT	P2	Black Knob	HU3	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](mailto: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. None: No additional port added.
  - b. 1/8" NPT: An 1/8" female NPT port installed on the opposite inlet port.
  - c. 1/4" NPT: An 1/4" female NPT port installed on the opposite inlet port.
4. Hand Unloader Options
  - a. Aluminum: Standard aluminum hand unloader on all valves.
  - b. Red Cap: A red vinyl cap installed on the aluminum hand unloader.
  - c. Black Knob: A plastic black knob in place of the aluminum hand unloader.
5. 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.
6. 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.
7. Thread Sealant:
  - a. None
  - b. White colored thread sealant.
8. Pressure Setting: The desired pilot load and unload pressure settings.

<b>Model</b>	<b>Top Inlet Connection</b>	<b>Side Inlet Connection</b>	<b>Outlet Connection</b>
<b>NSG-1</b>	1/2" (-8) FEMALE NPT 1/2-14 NPT	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-2</b>	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-3</b>	1/2" (-8) COMPRESSION 11/16-20 UN-2A	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-4</b>	NONE OR P1/P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-5</b>	1/2" (-8) FEMALE NPT 1/2-14 NPT	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-6</b>	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-7</b>	1/2" (-8) COMPRESSION 11/16-20 UN-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-8</b>	NONE OR P1/P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-9</b>	3/8" (-6) FEMALE NPT 3/8-18 NPT	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-10</b>	NONE OR P1/P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-11</b>	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-12</b>	NONE OR P1/P2 OPTION	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-13</b>	3/8" (-6) FEMALE NPT 3/8-18 NPT	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-14</b>	NONE OR P1/P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-15</b>	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-16</b>	NONE OR P1/P2 OPTION	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-17</b>	5/8" (-10) COMPRESSION 13/16-18 UN-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-18</b>	1/2" TUBELOK	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-19</b>	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-20</b>	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-21</b>	1/2" (-8) COMPRESSION 11/16-20 UN-2A	NONE OR P1/P2 OPTION	P/N 4566
<b>NSG-22</b>	NONE OR P1/P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	3/4" (-12) MALE NPT 3/4-14 NPT

<b>Model</b>	<b>Top Inlet Connection</b>	<b>Side Inlet Connection</b>	<b>Outlet Connection</b>
<b>NSG-23</b>	1/4" (-4) FEMALE NPT 1/4-18 NPT	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-24</b>	1/2" (-8) COMPRESSION 11/16-20 UN-2A	NONE OR P1/P2 OPTION	1/4" (-4) MALE NPT 1/4-18 NPT
<b>NSG-25</b>	5/8" (-10) COMPRESSION 13/16-18 UN-2A	NONE OR P1/P2 OPTION	1/4" (-4) FEMALE NPT 1/4-18 NPT
<b>NSG-26</b>	5/8" (-10) COMPRESSION 13/16-18 UN-2A	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-27</b>	3/4" (-12) COMPRESSION 1-18 UNS-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-28</b>	3/4" (-12) COMPRESSION 1-18 UNS-2A	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-29</b>	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-30</b>	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-31</b>	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-32</b>	1/2" (-8) INVERTED SAE FLARE 3/4-18 UNS-2B	NONE OR P1/P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT
<b>NSG-33</b>	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-34</b>	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-35</b>	1/2" (-8) JIC 37 DEG FLARE 3/4-16 UNF-2A	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-36</b>	1/4" (-4) FEMALE NPT 1/4-18 NPT	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-37</b>	3/8" (-6) FEMALE NPT 3/8-18 NPT	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-38</b>	3/8" (-6) COMPRESSION 9/16-24 UNEF-2A	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-39</b>	3/8" (-6) MALE NPT 3/8-18 NPT	NONE OR P1/P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT
<b>NSG-40</b>	NONE OR P1/P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-41</b>	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT	1/4" (-4) FEMALE NPT 1/4-18 NPT
<b>NSG-42</b>	NONE OR P1/P2 OPTION	5/8" (-10) COMPRESSION 13/16-18 UN-2A	3/8" (-6) FEMALE NPT 3/8-18 NPT
<b>NSG-43</b>	NONE OR P1/P2 OPTION	5/8" (-10) COMPRESSION 13/16-18 UN-2A	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-44</b>	NONE OR P1/P2 OPTION	5/8" (-10) INVERTED SAE FLARE 7/8-18 UNS-2B	1/2" (-8) MALE NPT 1/2-14 NPT

<b><u>Model</u></b>	<b><u>Top Inlet Connection</u></b>	<b><u>Side Inlet Connection</u></b>	<b><u>Outlet Connection</u></b>
<b>NSG-45</b>	NONE OR P1/P2 OPTION	5/8" (-10) COMPRESSION 13/16-18 UN-2A	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-46</b>	OPEN, FITTING NOT INSTALLED	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-47</b>	OPEN, FITTING NOT INSTALLED	NONE OR P1/P2 OPTION	1/2" (-8) MALE NPT 1/2-14 NPT
<b>NSG-48</b>	3/8" (-6) MALE NPT 3/8-18 NPT	NONE OR P1/P2 OPTION	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-49</b>	1/4" (-4) FEMALE NPT 1/4-18 NPT	NONE OR P1/P2 OPTION	1/4" (-4) MALE NPT 1/4-18 NPT
<b>NSG-50</b>	NONE OR P1/P2 OPTION	3/8" (-6) FEMALE NPT 3/8-18 NPT	3/8" (-6) MALE NPT 3/8-18 NPT
<b>NSG-51</b>	1/2" (-8) SAE 45 DEG FLARE 3/4-16 UNF-2A	NONE OR P1/P2 OPTION	1/2" (-8) FEMALE NPT 1/2-14 NPT
<b>NSG-52</b>	NONE OR P1/P2 OPTION	1/4" (-4) FEMALE NPT 1/4-18 NPT	1/4" (-4) FEMALE NPT 1/4-18 NPT
<b>NSG-53</b>	1/2" (-8) COMPRESSION 11/16-20 UN-2A	NONE OR P1/P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
<b>NSG-54</b>	1/2" (-8) FEMALE BSPT Rc 1/2-14 (BSPT)	NONE OR P1/P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
<b>NSG-55</b>	3/4" (-12) COMPRESSION 1-18 UNS-2A	NONE OR P1/P2 OPTION	3/4" (-12) MALE NPT 3/4-14 NPT
<b>NSG-56</b>	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)	NONE OR P1/P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
<b>NSG-57</b>	3/8" (-6) FEMALE BSPT Rc 3/8-19 (BSPT)	NONE OR P1/P2 OPTION	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)
<b>NSG-58</b>	NONE OR P1/P2 OPTION	1/2" (-8) COMPRESSION 11/16-20 UN-2A	1/2" (-8) MALE BSPT R 1/2-14 (BSPT)